



UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE
GRIGORE T. POPA IAȘI

Str. Universității nr.16, 700115, Iași, România
www.umfiasi.ro

Anexa 5

STANDARDELE MINIMALE, NECESARE ȘI OBLIGATORII
PENTRU ÎNSCRIERE LA CONCURS
pentru titlul didactic de **Conferențiar universitar**

Pentru celelalte domenii, se aplică standardele minimale, necesare și obligatorii, conform OMEN nr.6129/2016, în concordanță cu specificul postului scos la concurs.

Candidat: Șef lucrări Dr. Fiz. NĂSTUȚĂ Andrei Vasile

Postul pentru care candidează: Conferențiar, poziția 21, MO-III-Nr. 1251/24.11.2022

Departamentul Științe Biomedicale

Facultatea de Bioinginerie Medicală

Deținerea diplomei de Doctor în domeniul postului: CRITETRIU ÎNDEPLINIT

Diplomă de DOCTOR în domeniul FIZICĂ, Seria H, nr. 0018202, eliberată în baza Ord. Ministrului Educației, Cercetării, Tineretului și Sportului nr. 3250 / 20.02.2013; Teză de Doctorat: ‘Studiul proceselor de interacțiune a plasmelor de temperatură joasă cu materiale organice de interes biomedical’, Coordonator Științific Prof. Dr. Gheorghe POPA.

Pentru domeniul FIZICĂ, standarde minimale (definite în anexa nr. 3 la ordinul 6129/20.12.2016):

Criterii minimale CNATDCU - Conferențiar universitar -	A_{≥1}	I_{≥2}	P_{≥2}	C_{≥20}	h_{≥5}	T_{≥5}
Valori personale realizate	3.778	2.476	5.61	89.865	10	14.314



RECTORAT

+40 232 211 818 tel / +40 232 211 820 fax
rectorat@umfiasi.ro



1. Activitatea didactică și profesională										
Cărți în edituri internaționale recunoscute Web of Science în calitate de autor	Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri în reviste cotate ISI	Cărți în edituri internaționale recunoscute Web of Science în calitate de editor	Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în cadrul colaborărilor mari	Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor	Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI	Brevete de invenție internaționale acordate	Brevete de invenție naționale acordate	Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură naționale acordate	Director/ responsabil pentru proiecte de cercetare câștigate în valoare de V euro prin competiție națională sau internațională	Total criteriu A
$A_1 = \sum_i 4/n_i^{ef}$	$A_2 = \sum_i 1/n_i^{ef}$	$A_3 = \sum_i 0.5/n_i^{ef}$	$A_4 = \sum_i 0.5/n_i^{ef}$	$A_5 = \sum_i 0.2/n_i^{ef}$	$A_6 = \sum_i 0.2/n_i^{ef}$	$A_7 = \sum_i 3/n_i^{ef}$	$A_8 = \sum_i 0.5/n_i^{ef}$	$A_9 = \sum_i 0.5$	$A_{10} = \sum_i V_i/100.000$	$A = \sum_{i=1}^{10} A_i \geq 1$
0.00	0.50	0.00	1.50	0.00	0.29	0.00	0.00	0.50	0.99	3.778

2. Activitatea de cercetare	
Articole științifice originale în extenso ca autor.	Articole științifice originale în extenso ca prim autor sau autor corespondent, conform mențiunilor de pe articol.
$I = \sum_i AIS_i/n_i^{ef}$	$P = \sum_i AIS_i$
2.476	5.61

3. Recunoasterea impactului activității	
Citări în reviste științifice cu factor de impact care se regăsesc în InCites Journal Citation Reports sau în cărți în edituri recunoscute Web of Science. Nu se iau în considerare citările provenind din articole care au ca autor sau coautor candidatul	Indicile Hirsch
$C = \sum_i c_i/n_i^{ef}$	h
89.865	10

Punctaj total CNATDCU : $T = A + P/2 + I/2 + C/20 + h/5 = 14.314$

Detalii cu privire la datele introduse pentru calculul indicatorilor CNATDCU

1. Activitatea didactică și profesională

A.2 Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor:

Ionut Topala, Andrei Nastuta, 2012, capitol carte: " *Helium atmospheric pressure plasma jet: diagnostics and application for burned wounds healing*" (pp. 335-345) in "Plasma for bio-decontamination, medicine and food security" edited by Zdenko Machala, Karol Hensel, Yuri Akishev, NATO Science for Peace and Security Series, Springer Publishing, Heidelberg 2012, (499 pages) ISBN 978-94-007-2851-6

https://link.springer.com/chapter/10.1007/978-94-007-2852-3_26

A.4 Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în cadrul colaborărilor mari:

- **A. V. Nastuta 2022** (Ed.), *Frontiers in Atmospheric Pressure Plasma Technology*, Applied Sciences, Ed. MDPI, 182 pages, ISBN 978-3-0365-5002-2 (Hbk); ISBN 978-3-0365-5001-5 (PDF), <https://doi.org/10.3390/books978-3-0365-5001-5>
- **A. V. Nastuta 2022**, *Lucrari practice de biofizica generala*, Ed. "Gr. T. Popa" UMF Iasi, 90 pag, ISBN:978-606-544-813-1, <https://liberty5.umfiasi.ro:443/liberty/OpacLogin?mode=BASIC&openDetail=true&corporation=UMFI&action=search&queryTerm=uuid%3D%22981d51a00a01be7d2f6428ac0008c758%22&operator=OR&url=%2Fopac%2Fsearch.do>
- **A. V. Nastuta 2022**, *General biophysics: laboratory experiments*, Ed. "Gr. T. Popa" UMF Iasi, 90 pag, ISBN:978-606-544-825-4, <https://liberty5.umfiasi.ro:443/liberty/OpacLogin?mode=BASIC&openDetail=true&corporation=UMFI&action=search&queryTerm=uuid%3D%221fcc5ca70a01becb088dd2d300088d43%22&operator=OR&url=%2Fopac%2Fsearch.do>

A.6. Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI:

1. Ursachi V.C., Mihai C.T., Nastuta A.V., Dimitriu C.D., Verestiuc L., Balan V. **2021**, 'In Vitro Evaluation of Paclitaxel Loaded Magnetic Nanoparticles for Breast Cancer Therapy', p. 1-4, 9th IEEE International Conference on e-Health and Bioengineering (EHB 2021), doi: [10.1109/EHB52898.2021.9657671](https://doi.org/10.1109/EHB52898.2021.9657671);
2. A.V. Nastuta **2017**, 'Increased hydrophilic properties of polymeric fibers treated in atmospheric pressure plasma', 2017, Article number 7995447, p. 406-409, 6th IEEE International Conference on E-Health and Bioengineering, EHB 2017, doi: [10.1109/EHB.2017.7995447](https://doi.org/10.1109/EHB.2017.7995447);

3. R. Huzum, D. S. Sirbu-Radasanu, S. P. Iftode, **A. V. Nastuta**, 2017, 'Assessing potential dietary toxicity of heavy metals in lingonberry from Mănăila open-pit area (Suceava, Romania)', Article number 7995483, p. 551-554, 6th IEEE International Conference on E-Health and Bioengineering, EHB 2017, doi: [10.1109/EHB.2017.7995483](https://doi.org/10.1109/EHB.2017.7995483)jo;

A.9. Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură (proiectele de cercetare se exclud):

- **Responsabil / Coordonator local**, din partea Facultății de Bioinginerie Medicală, Universitatea de Medicină și Farmacie „Gr. T. Popa” Iași, pentru Central European Exchange Program for University Studies - CEEPUS 2020-2022, in cadrul proiectului **CIII-AT-0063-16-2021** '*Applications and diagnostics of electric plasmas*', coordonator Prof. Dr. R. Schrittwieser, Institute for Ion Physics and Applied Physics, University of Innsbruck, Innsbruck, Austria. <https://ceepus.info/public/network/network.aspx#nbb>;

A.10. Director/ responsabil pentru proiecte de cercetare in valoare euro câștigate prin competiție națională sau internațională

1. **Director de proiect, 2022 – 2024**, Proiecte de cercetare pentru stimularea tinerelor echipe independente (TE), tema proiectului *Enhancing ink print adhesion and 3D printing properties of materials by using atmospheric pressure plasma jet*, grant UEFISCDI PN-III-P1-1.1-TE-2021-1488, nr. 150/2022, **valoare proiect: 90,993.00 €**; <https://plasma4adhesionprint.grant.umfiasi.ro/>
https://uefiscdi.gov.ro/resource-862745-te_2021_lista-suplimentara-proiecte.pdf
2. **Director de proiect, 2018 – 2019**, Grantul Tânarului Cercetător, *Improving the biocompatibility properties of polymer matrix surfaces by gas discharge treatments*, grant GI-UMF nr. 30339/28.12.2017, **valoare proiect: 4940 €**; <https://www.brainmap.ro/andrei-vasile-nastuta>
3. **Director de proiect, decembrie 2017**, Proiecte de mobilitate pentru cercetători (MC), tema proiectului *Atmospheric pressure AC high voltage driven plasma jet: vacuum ultraviolet radiance measurements and electrical field diagnostics*, grant UEFISCDI PN-III-P1-1.1-MC-2017-1098, nr. 188/4.12.2017, **valoare proiect: 3200 €**;
<https://uefiscdi.gov.ro/resource-87374?&wtok=042b831e8ca95b5f912888d9a496b0d9065633df&wtkps=XY9RDoIwEETvst+C3ZZCXe5gTDwBUCAVFKFgica7S9HE6N9k8t5sNqOEHpYkgRub1kJaIcyQlSpJUFgiQafFqCPxnyboir09zHlc7dXdTBwDqnRMAbq/PCo0hg4C0LGX1Soddp5OiJhEDr6+Vw3IqEccUVk8qDfHG/zYYjSoEoUKy7crX2fw4ygl+QL7+U690lnTs9tWXYDXU4lZWxhTbhZQuZlbRFF0L6fMF&wchk=9de9e6bce25c18ed808cc5ce92c9940a7192559f>

2. Activitate de cercetare

Începând cu 2007 valorile AIS (scorul de influență absolut) sunt conforme cu Journal Citation Report:

<https://jcr.clarivate.com/jcr/home>

Lucrări publicate în calitate de prim autor sau autor corespondent, pentru calculul I și P:

1. **Nastuta A.V.**, Rusu, G.B., Topala, I., Chiper A.S., Popa G. **2008**, ‘*Surface modifications of polymer induced by atmospheric DBD plasma in different configurations*’, Journal of Optoelectronics and Advanced Materials, 10(8): 2038,

AIS: 0,113

<https://jcr.clarivate.com/jcr-jp/journal-profile?journal=J%20OPTOELECTRON%20ADV%20M&year=2021>

2. **Nastuta A.V.**, Topala I., Grigoras C., Pohoata V., Popa G. **2011**, ‘*Stimulation of wound healing by helium atmospheric pressure plasma treatment*’, Journal of Physics D-Applied Physics, 44(10): 105204,

AIS: 0.900

<https://jcr.clarivate.com/jcr-jp/journal-profile?journal=J%20PHYS%20D%20APPL%20PHYS&year=All%20years&fromPage=%2Fjcr%2Fbrowse-journals>

3. **Nastuta A.V.**, Topala I., Popa G. **2011**, ‘*ICCD Imaging of Atmospheric Pressure Plasma Jet Behavior in Different Electrode Configurations*’, IEEE Transactions on Plasma Science, 39(11):2310,

AIS: 0.424

<https://jcr.clarivate.com/jcr-jp/journal-profile?journal=IEEE%20T%20PLASMA%20SCI&year=All%20years&fromPage=%2Fjcr%2Fbrowse-journals>

4. Gerling T., **Nastuta A.V.**, Bussiahn R., Kindel E., Weltmann K.-D. **2012**, ‘*Back and forth directed plasma bullets in a helium atmospheric pressure needle-to-plane discharge with oxygen admixtures*’, Plasma Sources Science & Technology, 21(3): 34012

AIS: 0.937

<https://jcr.clarivate.com/jcr-jp/journal-profile?journal=PLASMA%20SOURCES%20SCI%20T&year=All%20years&fromPage=%2Fjcr%2Fbrowse-journals>

5. **Nastuta A.V.**, Pohoata V., Topala I. **2013**, ‘*Atmospheric pressure plasma jet-Living tissue interface: Electrical, optical, and spectral characterization*’, Journal of Applied Physics, 113(18): 183302

AIS: 0.724

<https://jcr.clarivate.com/jcr-jp/journal-profile?journal=J%20APPL%20PHYS&year=All%20years&fromPage=%2Fjcr%2Fbrowse-journals>

6. **Nastuta A.V.**, Topala I., Pohoata V., Mihaila I., Agheorghiesei C., Dumitrascu N. **2017**, '*Atmospheric pressure plasma jets in inert gases: electrical, optical and mass spectrometry diagnosis*', Romanian Reports in Physics, 69 (1), 407, 1-10

AIS: 0.255

<https://jcr.clarivate.com/jcr-jp/journal-profile?journal=ROM%20REP%20PHYS&year=All%20years&fromPage=%2Fjcr%2Fbrowse-journals>

7. **Nastuta A.V.**, Mihaila I., Pohoata V., Topala I. **2018**, '*Diagnosis of a short-pulse dielectric barrier discharge at atmospheric pressure in helium with hydrogen-methane admixtures*', Physics of Plasmas, Vol. 25 (4), 043515

AIS: 0.484

<https://jcr.clarivate.com/jcr-jp/journal-profile?journal=PHYS%20PLASMAS&year=2018&fromPage=%2Fjcr%2Fbrowse-journals>

8. **Nastuta A.V.**, Popa G. **2019**, '*Surface oxidation and enhanced hydrophilization of polyamide fiber surface after he / ar atmospheric pressure plasma exposure*', Romanian Reports in Physics, 71 (4), 413, 1-15,

AIS: 0.296

<https://jcr.clarivate.com/jcr-jp/journal-profile?journal=ROM%20REP%20PHYS&year=All%20years&fromPage=%2Fjcr%2Fbrowse-journals>

9. Huzum R., **Nastuta A.V.** **2021**, '*Helium Atmospheric Pressure Plasma Jet Source Treatment of White Grapes Juice for Winemaking*', Applied Sciences, 11(18), p. 8498

AIS: 0.409

<https://jcr.clarivate.com/jcr-jp/journal-profile?journal=APPL%20SCI-BASEL&year=2021&fromPage=%2Fjcr%2Fbrowse-journals>

10. **Nastuta A.V.**, Gerling T. **2022**, '*Cold Atmospheric Pressure Plasma Jet Operated in Ar and He: From Basic Plasma Properties to Vacuum Ultraviolet, Electric Field and Safety Thresholds Measurements in Plasma Medicine*', Applied Sciences, 12(2), p. 644,

AIS: 0.409

<https://jcr.clarivate.com/jcr-jp/journal-profile?journal=APPL%20SCI-BASEL&year=2021&fromPage=%2Fjcr%2Fbrowse-journals>

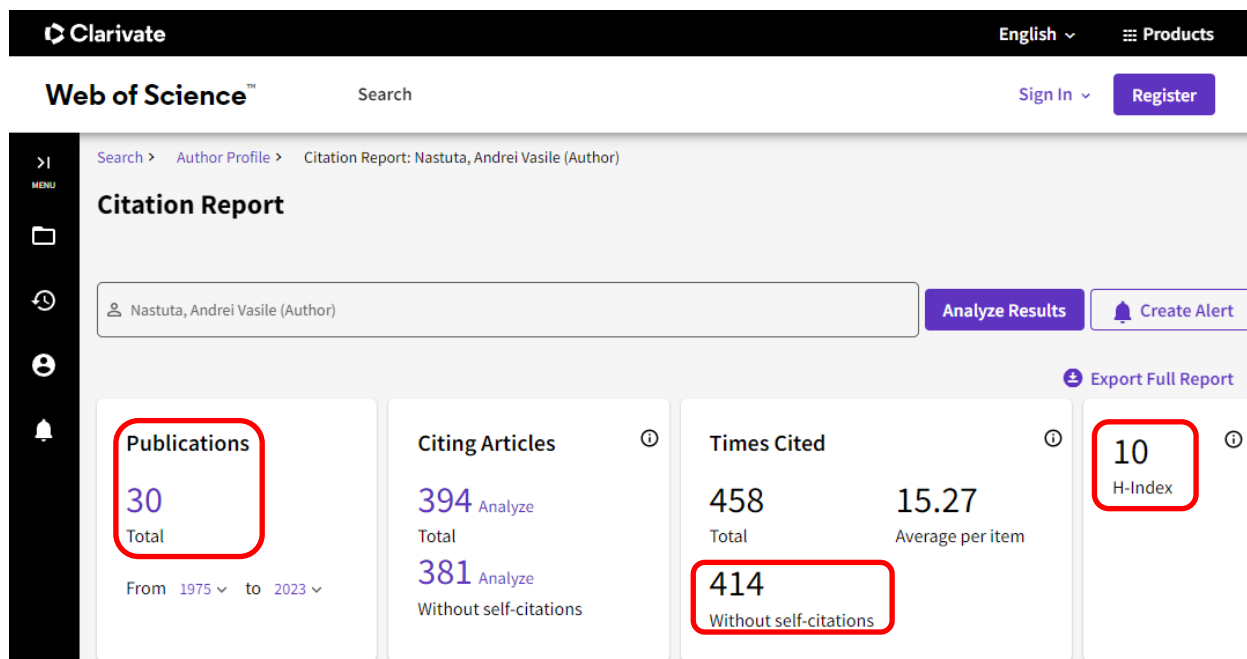
11. Burducea I., Burducea C., Mereuta P.-E., Sirbu S.-R., Iancu D.-A., Istrati M.-B., Straticiuc M., Lungoci C., Stoleru V., Teliban G.-C., Robu T., Burducea M., **Nastuta A.V.** **2023**, '*Helium Atmospheric Pressure Plasma Jet Effects on Two Cultivars of Triticum aestivum L.*', Foods, 12(1), p. 208

AIS: 0.647

<https://jcr.clarivate.com/jcr-jp/journal-profile?journal=FOODS&year=2021&fromPage=%2Fjcr%2Fbrowse-journals>

3. Recunoașterea impactului activității

- Citările luate în calcul pentru evaluarea indicatorului C au fost extrase exclusive din baza de date InCites Journal Citation Reports iar autocitările au fost eliminate;
- Indicele Hirsch folosit în calculul indicatorului T este cel extras din baza de date Web of Science.



<https://www.webofscience.com/wos/woscc/citation-report/01a2bcb9-86be-43ae-8a0c-2804c57c193f-68a03d84>

4. Punctaj total CNATDCU

$$T = A + P/2 + I/2 + C/20 + h/5 = 3.778 + 5.61/2 + 2.476/2 + 89.865/20 + 10/2 = 14.314$$

NASTUTA ANDREI VASILE calcul indicatori CNATDCU : I, P și C

Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	prim	n	n_ef	AIS	AIS/n_ef	a_prim	Nr citari	c/n_ef
1	A.S. Chiper, A.V. Nastuta , G.B. Rusu, G. Popa	Electrical characterisation of a double DBD in He at atmospheric pressure used for surface treatments	Journal of Optoelectronics and Advanced Materials	2007	9	2926	0	4	4.00	0.140	0.035	0.000	1	0.250
2	A.S. Chiper, A.V. Nastuta , G.B. Rusu, V. Pohoata, R. Cazan, G. Popa	Optical diagnosis of double discharges in pulsed DBD with different barrier materials	Journal of Optoelectronics and Advanced Materials	2008	10	1976	0	6	5.50	0.110	0.020	0.000	2	0.364
3	A.V. Nastuta , G.B. Rusu, I. Topala, A.S. Chiper, G. Popa	Surface modifications of polymer induced by atmospheric DBD plasma in different configurations	Journal of Optoelectronics and Advanced Materials	2008	10	2038	1	5	5.00	0.110	0.022	0.110	27	5.400
4	N. Iftimie, M. Crisan, A. Braileanu, D. Crisan, A. Nastuta , G.B. Rusu, P.D. Popa, D. Mardare	On the sensing gas properties of titanium dioxide films	Journal of Optoelectronics and Advanced Materials	2008	10	2363	0	8	6.50	0.110	0.017	0.000	9	1.385
5	L. Obreja, D.O. Dorohoi, V. Melnic, N. Foca, A. Nastuta	Poly(amidehydroxyurethane) Templated Fe3O4 and Ag Nanoparticles Galvanostatic Assay Synthesis	Materiale Plastice	2008	45	261	0	5	5.00	0.020	0.004	0.000	10	2.000
6	A.S. Chiper, A.V. Nastuta , G.B. Rusu, G. Popa	On surface elementary processes and polymer surface modifications induced by double pulsed dielectric barrier discharge	Nuclear Instruments & Methods in Physics Research Section B-Beam Interactions with Materials and Atoms	2009	267	313	0	4	4.00	0.400	0.100	0.000	17	4.250
7	A. Anghel, C. Porosnicu, M. Badulescu, I. Mustata, C.P. Lungu, K. Sugiyama, S. Linding, K. Krieger, J. Roth, A. Nastuta , G. Rusu, G. Popa	Surface morphology influence on deuterium retention in beryllium films prepared by thermionic vacuum arc method	Nuclear Instruments & Methods in Physics Research Section B-Beam Interactions with Materials and Atoms	2009	267	426	0	12	8.50	0.400	0.047	0.000	4	0.471

8	V. Tiron, C. Andrei, A.V. Nastuta , G.B. Rusu, C. Vitelaru, G. Popa	Carbon and Tungsten Sputtering in a Helium Magnetron Discharge	IEEE Transactions on Plasma Science	2009	37	1581	0	6	5.50	0.400	0.073	0.000	2	0.364
9	A.S. Chipser, G.B. Rusu, A.V. Nastuta , G. Popa	On the Discharge Parameters of a Glow-Mode DBD at Medium and Atmospheric Pressure	IEEE Transactions on Plasma Science	2009	37	2098	0	4	4.00	0.400	0.100	0.000	14	3.500
10	A. Poiata, I. Motrescu, A. Nastuta , D.E. Creanga, G. Popa	Microorganism response to atmospheric pressure helium plasma DBD treatment	Journal of Electrostatics	2010	68	128	0	5	5.00	0.400	0.080	0.000	16	3.200
11	R. Schrittwieser, C. Ionita, A. Murawski, C. Maszl, M. Asandulesa, A. Nastuta , G. Rusu, C. Douat, S.B. Olenici, I. Vojvodic, M. Dobromir, D. Luca, S. Jaksch, P. Scheier	Cavity-hollow cathode-sputtering source for titanium films	Journal of Plasma Physics	2010	76	655	0	14	9.50	0.300	0.032	0.000	5	0.526
12	C. Grigoras, I. Topala, A.V. Nastuta , D. Jitaru, I. Florea, L. Badescu, D. Ungureanu, M. Badescu, N. Dumitrascu	Influence of atmospheric pressure plasma treatment on epithelial regeneration process	Romanian Journal of Physics	2011	56	54	0	9	7.00	0.090	0.013	0.000	7	1.000
13	D. Crisan, N. Dragan, M. Raileanu, M. Crisan, A. Ianculescu, D. Luca, A. Nastuta , D. Mardare	Structural study of sol-gel Au/TiO2 films from nanopowders	Applied Surface Science	2011	257	4224	0	8	6.50	0.600	0.092	0.000	18	2.769
14	A. Nastuta , I. Topala, C. Grigoras, V. Pohoata, G. Popa	Stimulation of wound healing by helium atmospheric pressure plasma treatment	Journal of Physics D-Applied Physics	2011	44	105204	1	5	5.00	0.900	0.180	0.900	158	31.600
15	A.V. Nastuta , I. Topala, G. Popa	ICCD Imaging of Atmospheric Pressure Plasma Jet Behavior in Different Electrode Configurations	IEEE Transactions on Plasma Science	2011	39	2310	1	3	3.00	0.400	0.133	0.400	7	2.333
16	I. Topala, A. Nastuta	Helium atmospheric pressure plasma jet: diagnostics and application for burned wounds healing	Plasma for Bio-Decontamination, Medicine and Food Security, Ed. Springer Netherlands	2012	1	335-345	0	2	2.00	0.000	0.000	0.000	3	1.500

17	T. Gerling, A.V. Nastuta , R. Bussiahn, E. Kindel, K.D. Weltmann	Back and forth directed plasma bullets in a helium atmospheric pressure needle-to-plane discharge with oxygen admixtures	Plasma Sources Science & Technology	2012	21	034012	1	5	5.00	1.000	0.200	1.000	58	11.600
18	A. Nastuta , V. Pohoata, I. Topala	Atmospheric pressure plasma jet-Living tissue interface: Electrical, optical, and spectral characterization	Journal of Applied Physics	2013	113	183302	1	3	3.00	0.700	0.233	0.700	26	8.667
19	I. Motrescu, A. Poiata, A. Nastuta , D.E. Creanga, G. Popa	Bioeffects of atmospheric plasma discharge on gram-positive and gram-negative bacteria	Journal of Science and Arts	2015	3	249	0	5	5.00	0.000	0.000	0.000	2	0.400
20	T. Gerling, R. Wild, A.V. Nastuta , C. Wilke, K.D. Weltmann, L. Stollenwerk	Correlation of phase resolved current, emission and surface charge measurements in an atmospheric pressure helium jet	European Physical Journal-Applied Physics	2015	71	20808	0	6	5.50	0.200	0.036	0.000	2	0.364
21	I. Mihaila, V. Pohoata, R. Jijie, A.V. Nastuta , I.A. Rusu, I. Topala	Formation of positive ions in hydrocarbon containing dielectric barrier discharge plasmas	Advances in Space Research	2016	58	2416	0	6	5.50	0.450	0.082	0.000	1	0.182
22	A.V. Nastuta , I. Topala, V. Pohoata, I. Mihaila, C. Agheorghiesei, N. Dumitrascu	Atmospheric pressure plasma jets in inert gases: electrical, optical and mass spectrometry diagnosis	Romanian Reports in Physics	2017	69	407	1	6	5.50	0.255	0.046	0.255	2	0.364
23	C. Gerber, I. Mihaila, D. Hein, A.V. Nastuta , R. Jijie, V. Pohoata, I. Topala	Time Behaviour of Helium Atmospheric Pressure Plasma Jet Electrical and Optical Parameters	Applied Sciences - Basel	2017	7	812	0	7	6.00	0.338	0.056	0.000	10	1.667
24	A. V. Nastuta , C. Agheorghiesei	Monitoring Hand Gesture and Effort Using a Low-Cost Open-Source Microcontroller System Coupled with Force Sensitive Resistors and Electromyography Sensors	Recent Advances in Technology Research and Education. Advances in Intelligent Systems and Computing, Ed. Springer	2017	25	261-269	1	2	2.00	0.000	0.000	0.000	1	0.500

25	A. V. Nastuta , V. Pohoata, I. Mihaila, I. Topala	Diagnosis of a short-pulse dielectric barrier discharge at atmospheric pressure in helium with hydrogen-methane admixtures	Physics of Plasmas	2018	25	043515	1	4	4.00	0.484	0.121	0.484	3	0.750
26	V. Tiron, I.-L. Velicu, A. V. Nastuta , C. Costin, G. Popa, Z. Kechidi, C. Ionita, R. Schrittwieser	Enhanced extraction efficiency of the sputtered material from a magnetically assisted high power impulse hollow cathode	Plasma Sources Science & Technology	2018	27	085005	0	8	6.50	0.804	0.124	0.000	3	0.462
27	A. V. Nastuta , G. Popa	Surface oxidation and enhanced hydrophilization of polyamide fiber surface after He / Ar atmospheric pressure plasma exposure	Romanian Reports in Physics	2019	74	415	1	2	2.00	0.296	0.148	0.296	2	1.000
28	R. Huzum, A. V. Nastuta	Helium Atmospheric Pressure Plasma Jet Source Treatment of White Grapes Juice for Winemaking	Applied Sciences Basel	2021	11	8498	1	2	2.00	0.409	0.205	0.409	1	0.500
29	A. V. Nastuta , T. Gerling	Cold Atmospheric Pressure Plasma Jet Operated in Ar and He: From Basic Plasma Properties to Vacuum Ultraviolet, Electric Field and Safety Thresholds Measurements in Plasma Medicine	Applied Sciences Basel	2022	12	643	1	2	2.00	0.409	0.205	0.409	5	2.500
30	Burducea I., Burducea C., Mereuta P.-E., Sirbu S.-R., Iancu D.-A., Istrati M.-B., Straticiu M., Lungoci C., Stoleru V., Teliban G.-C., Robu T., Burducea M., Nastuta A.V.	Helium Atmospheric Pressure Plasma Jet Effects on Two Cultivars of Triticum aestivum L.	Foods	2023	12	208	1	13	9.00	0.647	0.072	0.647	0	0.000
TOTAL							11				2.476	5.610	416.00	89.865
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NASTUTA ANDREI VASILE calcul indicatori CNATDCU-citari							
Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
1	A.S. Chiper, <u>A.V. Nastuta</u> , G.B. Rusu, G. Popa	Electrical characterisation of a double DBD in He at atmospheric pressure used for surface treatments	Journal of Optoelectronics and Advanced Materials	2007	9	2926	1
	Citat in:						
J	Li, Shijie; Dang, Xiaoqing; Yu, Xin; Abbas, Ghulam; Zhang, Qian; Cao, Li	The application of dielectric barrier discharge non -thermal plasma in VOCs abatement: A review	CHEMICAL ENGINEERING JOURNAL	2020	388	124275	

NASTUTA ANDREI VASILE calcul indicatori CNATDCU-citari							
Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
2	A.S. Chiper, <u>A.V. Nastuta</u> , G.B. Rusu, V. Pohoata, R. Cazan, G. Popa	Optical diagnosis of double discharges in pulsed DBD with different barrier materials	Journal of Optoelectronics and Advanced Materials	2008	10	1976	2
	Citat in:						
J	De Geyter, N.	Influence of dielectric barrier discharge atmosphere on polylactic acid (PLA) surface modification	SURFACE & COATINGS TECHNOLOGY	2013	214	69	
J	Rusu, G. B.; Asandulesa, M.; Topala, I.; Pohoata, V.; Dumitrascu, N.; Barboiu, M.	Atmospheric pressure plasma polymers for tuned QCM detection of protein adhesion	BIOSENSORS & BIOELECTRONICS	2014	53	154	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
3	A.V. Nastuta , G.B. Rusu, I. Topala, A.S. Chiper, G. Popa	Surface modifications of polymer induced by atmospheric DBD plasma in different configurations	Journal of Optoelectronics and Advanced Materials	2008	10	2038	27
	Citat in:						
J	Muranyi, P.; Wunderlich, J.; Langowski, H. -C.	Modification of bacterial structures by a low-temperature gas plasma and influence on packaging material	JOURNAL OF APPLIED MICROBIOLOGY	2010	109	1875	
J	Rogojanu, A.; Rusu, E.; Dorohoi, D. O.	Characterization of Structural Modifications Induced on Poly(Vinyl Alcohol) Surface by Atmospheric Pressure Plasma	INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION	2010	15	210	
J	Anghel, S. D.	Generation and investigation of a parallel-plate DBD driven at 1.6 MHz with flowing helium	JOURNAL OF ELECTROSTATICS	2011	69	261	
J	Peng, Xinyan; Ding, Enyong; Xue, Feng	In situ synthesis of TiO ₂ /polyethylene terephthalate hybrid nanocomposites at low temperature	APPLIED SURFACE SCIENCE	2012	258	6564	
J	Simon, A.; Dinu, O. E.; Papiu, M. A.; Tudoran, C. D.; Papp, J.; Anghel, S. D.	A study of 1.74 MHz atmospheric pressure dielectric barrier discharge for non-conventional treatments	JOURNAL OF ELECTROSTATICS	2012	70	235	
J	Matei, A.; Schou, J.; Canulescu, S.; Zamfirescu, M.; Albu, C.; Mitu, B.; Buruiana, E. C.; Buruiana, T.; Mustaciosu, C.; Petcu, I.; Dinescu, M.	Functionalized ormosil scaffolds processed by direct laser polymerization for application in tissue engineering	APPLIED SURFACE SCIENCE	2013	278	357	
J	Chandrashekaraiiah, Thejaswini Halethimmanahally; Bogdanowicz, Robert; Danilov, Vladimir; Schaefer, Jan; Meichsner, Juergen; Hippler, Rainer	Deposition and characterization of organic polymer thin films using a dielectric barrier discharge with different C ₂ H _m /N ₂ (m=2, 4, 6) gas	EUROPEAN PHYSICAL JOURNAL D	2015	69	142	

		mixtures					
J	do Nascimento, Fellype; Parada, Sergio; Moshkalev, Stanislav; Machida, Munemasa	Plasma treatment of poly(dimethylsiloxane) surfaces using a compact atmospheric pressure dielectric barrier discharge device for adhesion improvement	JAPANESE JOURNAL OF APPLIED PHYSICS	2016	55	21602	
C	do Nascimento, Fellype; Moshkalev, Stanislav; Machida, Munemasa	The use of DBD plasmas for treatment of PDMS surfaces and adhesion improvement	2016 31ST SYMPOSIUM ON MICROELECTRONICS TECHNOLOGY AND DEVICES (SBMICRO)	2016			
J	Vlad, I. E.; Tudoran, C. D.; Anghel, S. D.	ADHESIVITY IMPROVING OF PET BY TREATMENT IN LOW PRESSURE PLASMAS GENERATED AT 40 kHz AND 1 MHz. COMPARATIVE STUDY	ROMANIAN REPORTS IN PHYSICS	2016	68	305	
J	Cazan, Cristina; Cosnita, Mihaela; Duta, Anca	Effect of PET functionalization in composites of rubber-PET-HDPE type	ARABIAN JOURNAL OF CHEMISTRY	2017	10	300	
J	do Nascimento, Fellype; Machida, Munemasa; Canesqui, Mara A.; Moshkalev, Stanislav A.	Comparison Between Conventional and Transferred DBD Plasma Jets for Processing of PDMS Surfaces	IEEE TRANSACTIONS ON PLASMA SCIENCE	2017	45	346	
S	Avilez, H. V. Ramos; Casadiego, D. A. Castilla; Avila, A. L. Vega; Perez, O. J. Perales; Almodovar, J.	Production of chitosan coatings on metal and ceramic biomaterials	CHITOSAN BASED BIOMATERIALS, VOL 1: FUNDAMENTALS	2017	122	255	
J	Al-Maliki, Hayder; Kalacska, Gabor	TRIBOLOGICAL BEHAVIOUR OF POLYMERS IN TERMS OF PLASMA TREATMENT: A BRIEF REVIEW	HUNGARIAN JOURNAL OF INDUSTRY AND CHEMISTRY	2018	46	1	
J	Hosseinpour, Maryam; Zendehnam, Akbar	Study of an argon dielectric barrier discharge reactor with atmospheric pressure for material treatment	JOURNAL OF THEORETICAL AND APPLIED PHYSICS	2018	12	271	

J	Mui, Taiana She Mir; Mota, Rogerio Pinto; Quade, Antje; de Oliveira Hein, Luis Rogerio; Kostov, Konstantin Georgiev	Uniform surface modification of polyethylene terephthalate (PET) by atmospheric pressure plasma jet with a horn-like nozzle	SURFACE & COATINGS TECHNOLOGY	2018	352	338	
J	Al-Maliki, Hayder; Zsidai, Laszlo; Samyn, Pieter; Szakal, Zoltan; Keresztes, Robert; Kalacska, Gabor	Effects of atmospheric plasma treatment on adhesion and tribology of aromatic thermoplastic polymers	POLYMER ENGINEERING AND SCIENCE	2018	58	E93	
J	Hosseinpour, Maryam; Zendehnam, Akbar; Sangdehi, Seyede Mehri Hamidi; Marzdashti, Hamidreza Ghomi	Effects of different gas flow rates and non-perpendicular incidence angles of argon cold atmospheric-pressure plasma jet on silver thin film treatment	JOURNAL OF THEORETICAL AND APPLIED PHYSICS	2019	13	329	
J	Stancu, E. C.; Quade, A.; Weltmann, K-D	POLYSTYRENE SURFACE MODIFICATION FOR SERUM-FREE CELL CULTURE USING AN ATMOSPHERIC PRESSURE DIELECTRIC BARRIER DISCHARGE	ROMANIAN REPORTS IN PHYSICS	2019	71	409	
C	Hazadji, Kheira; Tilmatine, Omar; Zeghloul, Thami; Neagoe, Marian-Bogdan; Dascalescu, Lucian	Study of the effect of plasma treatment on the triboelectric properties of Polyethylene (PE) and Polypropylene (PP) slabs	ELECTROSTATICS 2019 AND DIELECTRICS 2019	2019	1322	12011	
J	Mucko, Jan; Dobosz, Robert; Strzelecki, Ryszard	Dielectric Barrier Discharge Systems with HV Generators and Discharge Chambers for Surface Treatment and Decontamination of Organic Products	ENERGIES	2020	13	5181	
J	Huong Nguyen Thi; Khanh Vu Thi Hong; Thanh Ngo Ha; Duy-Nam Phan	Application of Plasma Activation in Flame-Retardant Treatment for Cotton Fabric	POLYMERS	2020	12	1575	
J	Filippova, E. O.; Korepanov, V. I.; Pichugin, V. F.	Effect of Plasma Modification of Surface and Sterilization on Optical Characteristics of Polyethylene Terephthalate Track Membranes	TECHNICAL PHYSICS	2020	65	640	

C	Tilmatine, O.; Zeghloul, T.; Fatu, A.; Dascalescu, L.	Study of the effect of duration of non-thermal plasma treatment on the surface properties of polymers	INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'19)	2020	724	12050	
J	Polonskyi, Oleksandr; Hartig, Torge; Uzarski, Joshua R.; Gordon, Michael J.	Polymethylmethacrylate wettability change spatially correlates with self-organized streamer microdischarge patterns in dielectric barrier discharge plasmas	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	2021	39	63001	
J	Polonskyi, O.; Hartig, T.; Uzarski, J. R.; Gordon, M. J.	Precise localization of DBD plasma streamers using topographically patterned insulators for maskless structural and chemical modification of surfaces	APPLIED PHYSICS LETTERS	2021	119	211601	
J	Scarselli, Gennaro; Quan, Dong; Murphy, Neal; Deegan, Brian; Dowling, Denis; Ivankovic, Alojz	Adhesion Improvement of Thermoplastics-Based Composites by Atmospheric Plasma and UV Treatments	APPLIED COMPOSITE MATERIALS	2021	28	71	

NASTUTA ANDREI VASILE calcul indicatori CNATDCU							
Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
4	N. Iftimie, M. Crisan, A. Braileanu, D. Crisan, A. Nastuta , G.B. Rusu, P.D. Popa, D. Mardare	On the sensing gas properties of titanium dioxide films	Journal of Optoelectronics and Advanced Materials	2008	10	2363	9
	Citat in:						
J	Borras, Ana; Gonzalez-Eliphe, Agustin R.	Wetting Properties of Polycrystalline TiO2 Surfaces: A Scaling Approach to the Roughness Factors	LANGMUIR	2010	26	15875	
J	Mardare, Diana; Iacomì, Felicia; Cornei, Nicoleta; Girtan, Mihaela; Luca, Dumitru	Undoped and Cr-doped TiO2 thin films obtained by spray pyrolysis	THIN SOLID FILMS	2010	518	4586	
J	Mardare, Diana; Nica, Valentin; Pohoata, Valentin; Macovei, Dan; Gheorghe, Nicoleta; Luca, Dumitru; Teodorescu, Cristian-Mihail	X-ray absorption fine structure investigations on heat-treated Cr-doped titania thin films	THIN SOLID FILMS	2011	520	1348	

J	Mardare, Diana; Iftimie, Nicoleta; Crisan, Maria; Raileanu, Malina; Yildiz, A.; Coman, T.; Pomoni, K.; Vomvas, A.	Electrical conduction mechanism and gas sensing properties of Pd-doped TiO ₂ films	JOURNAL OF NON-CRYSTALLINE SOLIDS	2011	357	1774	
J	Pal, Kaushik; Majumder, Tapas Pal; Neogy, Chirantan; Debnath, Subhas Chandra	Optical, dielectric and microscopic observation of different phases TiO ₂ metal host nanowires	JOURNAL OF MOLECULAR STRUCTURE	2012	1016	30	
J	Sahoo, Madhusmita; Mathews, Tom; Antony, Rajini P.; Krishna, D. Nandagopala; Dash, S.; Tyagi, A. K.	Physico-chemical Processes and Kinetics of Sunlight-Induced Hydrophobic <-> Superhydrophilic Switching of Transparent N-Doped TiO ₂ Thin Films	ACS APPLIED MATERIALS & INTERFACES	2013	5	3967	
C	Mukhopadhyay, Abhijit Kumar	Improvement in Ammonia Sensing Characteristics of Titanium Dioxide(TiO ₂) Thin Film by Palladium(Pd) Doping	2014 INTERNATIONAL CONFERENCE ON CONTROL, INSTRUMENTATION, ENERGY & COMMUNICATION (CIEC)	2014		91	
J	Patil, Sunil Jagannath; Patil, Arun Vithal; Dighavkar, Chandrakant Govindrao; Thakare, Kashinath Shravan; Borase, Ratan Yadav; Nandre, Sachin Jayaram; Deshpande, Nishad Gopal; Ahire, Rajendra Ramdas	Semiconductor metal oxide compounds based gas sensors: A literature review	FRONTIERS OF MATERIALS SCIENCE	2015	9	14	
J	Hussian, Haidar Abdul Razaq Abdul; Hassan, Marwa Abdul Muhsien; Agool, Ibrahim R.	Synthesis of titanium dioxide (TiO ₂) nanofiber and nanotube using different chemical method	OPTIK	2016	127	2996	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
5	L. Obreja, D.O. Dorohoi, V. Melnig, N. Foca, <u>A. Nastuta</u>	Poly(amidehydroxyurethane) Templated Fe ₃ O ₄ and Ag Nanoparticles Galvanostatic Assay Synthesis	MATERIALE PLASTICE	2008	45	261	10
	Citat in:						

J	Mindroiu, Mihaela; Pirvu, Cristian; Popescu, Simona; Demetrescu, Ioana	Polypyrrole as Conducting Polymer Coating on Ti6Al7Nb Alloy	MATERIALE PLASTICE	2009	46	394	
J	Covaliu, Cristina Ileana; Georgescu, Gabriela; Jitaru, Ioana; Neamtu, Jenica; Malaeru, Teodora; Oprea, Ovidiu; Patroi, Eros	Synthesis and Characterization of a Hydroxyapatite Coated Magnetite for Potential Cancer Treatment	REVISTA DE CHIMIE	2009	60	1254	
J	Melnig, Viorel; Apostu, Mircea-Odin; Foca, Neculai	Cadmium Selenide Nanoparticles Synthesis in Water-Soluble Polymer System	MATERIALE PLASTICE	2009	46	274	
J	Covaliu, Cristina Ileana; Matei, Cristian; Litescu, Simona; Eremia, Sandra Ana-Maria; Stanica, Nicolae; Diamandescu, Lucian; Ianculescu, Adelina; Jitaru, Ioana; Berger, Daniela	Radical Scavenger Properties of Oxide Nanoparticles Stabilized with Biopolymer Matrix	MATERIALE PLASTICE	2010	47	5	
J	Obreja, Laura; Pricop, Daniela; Foca, Neculai; Melnig, Viorel	Platinum Nanoparticles Synthesis by Sonoelectrochemical Methods	MATERIALE PLASTICE	2010	47	42	
C	Pricop, Daniela; Stefan, M.; Mihasan, M.; Hritcu, L.; Olariu, R.; Melnig, V.	ANTIBACTERIAL ACTIVITY OF SILVER NANOPARTICLES OBTAINED BY ELECTROCHEMICAL SYNTHESIS	16TH INTERNATIONAL CONFERENCE THE KNOWLEDGE-BASED ORGANIZATION: APPLIED TECHNICAL SCIENCES AND ADVANCED MILITARY TECHNOLOGIES, CONFERENCE PROCEEDINGS 3	2010		309	
C	Ursu, Laura; Hritcu, L.; Stefan, M.; Mihasan, M.; Tartau, Liliana; Melnig, V.	POLY(AMIDHYDROXYURETHANE) COATED SILVER NANOPARTICLES INDUCED MEMORY IMPAIRMENT BY INCREASING BRAIN OXIDATIVE STRESS	16TH INTERNATIONAL CONFERENCE THE KNOWLEDGE-BASED ORGANIZATION: APPLIED TECHNICAL SCIENCES AND ADVANCED MILITARY TECHNOLOGIES, CONFERENCE PROCEEDINGS 3	2010		352	

J	Tartau, L.; Bindar, D.; Ciubotariu, D.; Melnig, V.	Evaluation of poly(amidehydroxyurethane) coated silver nanoparticles influence on morphine-induced place preference in rats	EUROPEAN NEUROPSYCHOPHARMACOLOGY	2011	21	S267	
J	Stefan, Marius; Hritcu, Lucian; Mihasan, Marius; Pricop, Daniela; Gostin, Irina; Olariu, Romeo-Iulian; Dunca, Simona; Melnig, Viorel	Enhanced antibacterial effect of silver nanoparticles obtained by electrochemical synthesis in poly(amide-hydroxyurethane) media	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE	2011	22	789	
J	Ciubotariu, D.; Bindar, D.; Melnig, V.; Tartau, L.	The effects of polyamidehydroxyurethane-coated silver nanoparticles on morphine-induced conditioned place preference in rats	EUROPEAN NEUROPSYCHOPHARMACOLOGY	2012	22	S171	

NASTUTA ANDREI VASILE calcul indicatori CNATDCU							
Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
6	A.S. Chiper, <u>A.V. Nastuta</u> , G.B. Rusu, G. Popa	On surface elementary processes and polymer surface modifications induced by double pulsed dielectric barrier discharge	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2009	267	313	17
	Citat in:						
J	Liu, Yang; Li, Yu-peng; Hao, Yin-hu; Lei, Ming-kai	Adhesion of PE modified by capacitively coupled radio frequency plasma-induced graft polymerization of glycidyl methacrylate	FRONTIERS OF MATERIALS SCIENCE	2009	3	380	

J	Shao, Tao; Zhang, Cheng; Long, Kaihua; Zhang, Dongdong; Wang, Jue; Yan, Ping; Zhou, Yuanxiang	Surface modification of polyimide films using unipolar nanosecond-pulse DBD in atmospheric air	APPLIED SURFACE SCIENCE	2010	256	3888	
J	Asandulesa, Mihai; Topala, Ionut; Dumitrascu, Nicoleta	Effect of helium DBD plasma treatment on the surface of wood samples	HOLZFORSCHUNG	2010	64	223	
J	Shao Tao; Zhang Cheng; Niu Zheng; Yu Yang; Yan Ping; Zhou Yuanxiang	Nanosecond Repetitively Pulsed Dielectric Barrier Discharge in Air at Atmospheric Pressure	PLASMA SCIENCE & TECHNOLOGY	2011	13	591	
J	Chiper, A. S.; Rusu, G. B.; Vitelaru, C.; Mihaila, I.; Popa, G.	A COMPARATIVE STUDY OF HELIUM AND ARGON DBD PLASMAS SUITABLE FOR THERMOSENSITIVE MATERIALS PROCESSING	ROMANIAN JOURNAL OF PHYSICS	2011	56	126	
J	Taghvaei, Hamed; Shirazi, Meisam Mohamadzadeh; Hooshmand, Navid; Rahimpour, Mohammad Reza; Jahanmiri, Abdolhossien	Experimental investigation of hydrogen production through heavy naphtha cracking in pulsed DBD reactor	APPLIED ENERGY	2012	98	3	
J	Fang, Zhi; Liu, Yuan; Liu, Kun; Shao, Tao; Zhang, Cheng	Surface modifications of polymethylmetacrylate films using atmospheric pressure air dielectric barrier discharge plasma	VACUUM	2012	86	1305	
J	Chiper, A.; Borcia, G.	Argon Versus Helium Dielectric Barrier Discharge for Surface Modification of Polypropylene and Poly(methyl methacrylate) Films	PLASMA CHEMISTRY AND PLASMA PROCESSING	2013	33	553	
J	Homola, Tomas; Wu, Linda Y. L.; Cernak, Mirko	Atmospheric Plasma Surface Activation of Poly(Ethylene Terephthalate) Film for Roll-To-Roll Application of Transparent Conductive Coating	JOURNAL OF ADHESION	2014	90	296	
J	Rusu, G. B.; Asandulesa, M.; Topala, I.; Pohoata, V.; Dumitrascu, N.; Barboiu, M.	Atmospheric pressure plasma polymers for tuned QCM detection of protein adhesion	BIOSENSORS & BIOELECTRONICS	2014	53	154	

J	Rusu, B. G.; Pohoata, V.; Ionita, C.; Schrittwieser, R.	CHARACTERIZATION OF SUPER HYDROPHILIC FILMS PRODUCED IN DBD PLASMA AT ATMOSPHERIC PRESSURE	DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES	2015	10	941	
J	Lazarou, C.; Koukounis, D.; Chipper, A. S.; Costin, C.; Topala, I.; Georghiou, G. E.	Numerical modeling of the effect of the level of nitrogen impurities in a helium parallel plate dielectric barrier discharge	PLASMA SOURCES SCIENCE & TECHNOLOGY	2015	24	35012	
J	Malashin, M. V.; Moshkunov, S. I.; Khomich, V. Yu.; Shershunova, E. A.	A high-voltage semiconductor rectangular-pulse generator for powering a barrier discharge	INSTRUMENTS AND EXPERIMENTAL TECHNIQUES	2016	59	226	
J	Rusu, B. -G.; Pohoata, V.; Ionita, C.; Schrittwieser, R.; Dumitrascu, N.	METHOD OF OBTAINING POROUS POLYMER STRUCTURE USING ATMOSPHERIC PRESSURE PLASMA	ROMANIAN JOURNAL OF PHYSICS	2016	61	518	
J	Liu, Yidi; Yan, Huijie; Fan, Zhihui; Guo, Hongfei; Ren, Chunsheng	Influence of residual charge on repetitively nanosecond pulsed dielectric barrier discharges in atmospheric air	PHYSICS OF PLASMAS	2017	24	113514	
J	Mlotek, Michal; Blaszczyk, Adam; Krawczyk, Krzysztof	Modification of polyethylene tube surface in dielectric barrier discharge	JOURNAL OF MATERIALS RESEARCH	2018	33	2396	
J	Galmiz, Oleksandr; Zemanek, Miroslav; Pavlinak, David; Cernak, Mirko	Plasma treatment of polyethylene tubes in continuous regime using surface dielectric barrier discharge with water electrodes	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2018	51	195201	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
7	A. Anghel, C. Porosnicu, M. Badulescu, I. Mustata, C.P. Lungu, K. Sugiyama, S. Linding, K. Krieger, J. Roth, <u>A. Nastuta</u> , G. Rusu, G. Popa	Surface morphology influence on deuterium retention in beryllium films prepared by thermionic vacuum arc method	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2009	267	426	4
	Citat in:						
J	Mateus, R.; Hakola, A.; Tiron, V.; Porosnicu, C.; Lungu, C. P.; Alves, E.	Study of deuterium retention in Be-W coatings with distinct roughness profiles	FUSION ENGINEERING AND DESIGN	2017	124	464	
J	Dinca, P.; Butoi, B.; Porosnicu, C.; Pompilian, O. G.; Staicu, C.; Lungu, C. P.; Burducea, I	Structure, morphology and deuterium retention and release properties of pure and mixed Be and W layers	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2020	53	325304	
J	Vladoiu, Rodica; Tichy, Milan; Mandes, Aurelia; Dinca, Virginia; Kudrna, Pavel	Thermionic Vacuum Arc-A Versatile Technology for Thin Film Deposition and Its Applications	COATINGS	2020	10	211	
J	De Temmerman, Gregory; Heinola, Kalle; Borodin, Dmitriy; Brezinsek, Sebastijan; Doerner, Russell P.; Rubel, Marek; Fortuna-Zalesna, Elzbieta; Linsmeier, Christian; Nishijima, Daisuke; Nordlund, Kai; Probst, Michael; Romazanov, Juri; Safi, Elnaz; Schwarz-Selinger, Thomas; Widdowson, Anna; Braams, Bastiaan J.; Chung, Hyun-Kyung; Hill, Christian	Data on erosion and hydrogen fuel retention in Beryllium plasma-facing materials	NUCLEAR MATERIALS AND ENERGY	2021	27	100994	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
8	V. Tiron, C. Andrei, A.V. Nastuta , G.B. Rusu, C. Vitelaru, G. Popa	Carbon and Tungsten Sputtering in a Helium Magnetron Discharge	IEEE Transactions on Plasma Science	2009	37	1581	2
	Citat in:						
J	Lungu, C. P.; Marcu, A.; Porosnicu, C.; Jecu, I.; Kovac, J.; Nemanic, V.	Carbon-Tungsten Thin-Film Deposition by a Dual Thermionic Vacuum Arc	IEEE TRANSACTIONS ON PLASMA SCIENCE	2012	40	3546	
J	Morel, Erwan; Rozier, Yoann; Ballages, Charles; Bazinette, Remy; Forchard, Thomas; Creusot, Christophe; Girodet, Alain; Minea, Tiberiu	Behavior of high current density pulsed magnetron discharge with a graphite target	PLASMA SOURCES SCIENCE & TECHNOLOGY	2021	30	125001	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
9	A.S. Chipper, G.B. Rusu, A.V. Nastuta , G. Popa	On the Discharge Parameters of a Glow-Mode DBD at Medium and Atmospheric Pressure	IEEE Transactions on Plasma Science	2009	37	2098	14
	Citat in:						
J	Shao, Tao; Zhang, Dongdong; Yu, Yang; Zhang, Cheng; Wang, Jue; Yan, Ping; Zhou, Yuanxiang	A Compact Repetitive Unipolar Nanosecond-Pulse Generator for Dielectric Barrier Discharge Application	IEEE TRANSACTIONS ON PLASMA SCIENCE	2010	38	1651	

J	Zhang, Cheng; Shao, Tao; Long, Kaihua; Yu, Yang; Wang, Jue; Zhang, Dongdong; Yan, Ping; Zhou, Yuanxiang	Surface Treatment of Polyethylene Terephthalate Films Using DBD Excited by Repetitive Unipolar Nanosecond Pulses in Air at Atmospheric Pressure	IEEE TRANSACTIONS ON PLASMA SCIENCE	2010	38	1517	
J	Chiper, Alina Silvia; Popa, Gheorghe	Temporal and Spatial Resolved Emission Spectroscopy of a Pulsed Atmospheric-Pressure DBD in Helium With Impurities	IEEE TRANSACTIONS ON PLASMA SCIENCE	2011	39	2196	
J	Chiper, Alina Silvia; Rusu, Bogdan George; Popa, Gheorghe	Influence of the Dielectric Surface Nonhomogeneities on the Dynamic of the Pulsed DBD Plasma	IEEE TRANSACTIONS ON PLASMA SCIENCE	2011	39	2200	
J	Chiper, A. S.; Rusu, G. B.; Vitelaru, C.; Mihaila, I.; Popa, G.	A COMPARATIVE STUDY OF HELIUM AND ARGON DBD PLASMAS SUITABLE FOR THERMOSENSITIVE MATERIALS PROCESSING	ROMANIAN JOURNAL OF PHYSICS	2011	56	126	
J	He, Jin; Zhang, Yuantao T.	Modeling Study on the Generation of Reactive Oxygen Species in Atmospheric Radio-Frequency Helium-Oxygen Discharges	PLASMA PROCESSES AND POLYMERS	2012	9	919	
J	Chiper, Alina Silvia; Popa, Gheorghe	Temporally, spatially, and spectrally resolved barrier discharge produced in trapped helium gas at atmospheric pressure	JOURNAL OF APPLIED PHYSICS	2013	113	213302	
J	Chiper, A.; Borcia, G.	Argon Versus Helium Dielectric Barrier Discharge for Surface Modification of Polypropylene and Poly(methyl methacrylate) Films	PLASMA CHEMISTRY AND PLASMA PROCESSING	2013	33	553	
J	Rusu, G. B.; Asandulesa, M.; Topala, I.; Pohoata, V.; Dumitrascu, N.; Barboiu, M.	Atmospheric pressure plasma polymers for tuned QCM detection of protein adhesion	BIOSENSORS & BIOELECTRONICS	2014	53	154	
J	Dosoudilova, L.; Tschiersch, R.; Bogaczyk, M.; Navratil, Z.; Wagner, H-E; Trunec, D.	Investigation of helium barrier discharges with small admixtures	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2015	48	355204	

		of oxygen					
J	Yao, Cong-Wei; Chang, Zheng-Shi; Ma, Hengchi; Xu, Guimin; Mu, Haibao; Zhang, Guan-Jun	Experimental Research on Mode Transitions of Atmospheric Pressure Helium Dielectric Barrier Discharge	IEEE TRANSACTIONS ON PLASMA SCIENCE	2016	44	2576	
J	Liu Wenzheng; Lei Xiao; Zhao Qiang	Study on Glow Discharge Plasma Used in Polyester Surface Modification	PLASMA SCIENCE & TECHNOLOGY	2016	18		
J	Yao Cong-Wei; Ma Heng-Chi; Chang Zheng-Shi; Li Ping; Mu Hai-Bao; Zhang Guan-Jun	Simulations of the cathode falling characteristics and its influence factors in atmospheric pressure dielectric barrier glow discharge pulse	ACTA PHYSICA SINICA	2017	66	25203	
J	Chen, Sile; Chen, Xingyu; Yao, Congwei; Xu, Guimin; Chang, Zhengshi; Zhang, Guan-Jun	Electrical and spectral characterization of an atmospheric pressure He/CF4 plasma jet	PHYSICS OF PLASMAS	2018	25	83510	

NASTUTA ANDREI VASILE calcul indicatori CNATDCU							
Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
10	A. Poiata, I. Motrescu, <u>A. Nastuta</u> , D.E. Creanga, G. Popa	Microorganism response to atmospheric pressure helium plasma DBD treatment	JOURNAL OF ELECTROSTATICS	2010	68	128	16
	Citat in:						
J	Motrescu, Iuliana; Ogino, Akihisa; Tanaka, Shigeyasu; Fujiwara, Taketomo; Kodani, Shinya; Kawagishi, Hirokazu; Popa, Gheorghe; Nagatsu, Masaaki	Effects of Nitrogen and Oxygen Radicals on Low-Temperature Bio-Molecule Processing	JAPANESE JOURNAL OF APPLIED PHYSICS	2011	50	08JF07	
J	Kolb, Juergen F.; Mattson, Amber M.; Edelblute, Chelsea M.; Hao, Xiaolong; Malik, Muhammad Arif; Heller, Loree C.	Cold DC-Operated Air Plasma Jet for the Inactivation of Infectious Microorganisms	IEEE TRANSACTIONS ON PLASMA SCIENCE	2012	40	3007	
J	Simon, A.; Dinu, O. E.; Papiu, M. A.; Tudoran, C. D.; Papp, J.; Anghel, S. D.	A study of 1.74 MHz atmospheric pressure dielectric barrier discharge for non-conventional	JOURNAL OF ELECTROSTATICS	2012	70	235	

		treatments					
C	Ren, Yongxia; Zhu, Xiaoli; Fan, Daidi	DBD plasma induced mutation in phosphate-solubilizing bacteria <i>Acinetobacter calcoaceticus</i> YC-5a	ADVANCED ENGINEERING MATERIALS II, PTS 1-3	2012	535-537	2385	
C	Ren, Y. X.; Zhu, X. L.; Fan, D. D.; Ma, P.; Liang, L. H.	Mutation Induction by DBD Plasma in Phosphate-solubilizing Bacteria <i>Enterobacter Agglomerans</i>	2012 INTERNATIONAL CONFERENCE ON FUTURE ENERGY, ENVIRONMENT, AND MATERIALS, PT A	2012	16	211	
J	Spirov, Grigory M.; Bochkaryev, Alexander V.; Dubinov, Alexander E.; Loboda, Andrey V.; Zuimatch, Elena A.; Bepalova, Anna N.	Effect of Plasma and UV Radiation of Multigap Sliding Discharge in Air on Bacteria	IEEE TRANSACTIONS ON PLASMA SCIENCE	2013	41	2381	
J	Connolly, J.; Valdramidis, V. P.; Byrne, E.; Karatzas, K. A.; Cullen, P. J.; Keener, K. M.; Mosnier, J. P.	Characterization and antimicrobial efficacy against <i>E. coli</i> of a helium/air plasma at atmospheric pressure created in a plastic package	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2013	46	35401	
J	Antoniou, Angela; Nakajima, Tomoko; Kurita, Hirofumi; Mizuno, Akira	RETRACTED: Safety evaluation of nonthermal atmospheric pressure plasma liquid treatment: Single DNA molecule-based method (Retracted article. See vol. 93, pg. 69, 2018)	JOURNAL OF ELECTROSTATICS	2014	72	210	
C	Dong, Li-ping; Zhu, Xiao-li; Xu, Ya-ya; Zhang, Jian-xia; Liu, Jiao-qin; Wang, Hang	Research on Screening and Mutation Induction by DBD Plasma of Phosphate-Solubilizing Bacteria	INTERNATIONAL CONFERENCE ON ENERGY, ENVIRONMENT AND MATERIALS ENGINEERING (EEME 2014)	2014		443	
C	Zhu, Xiaoli; Dong, Liping; Liu, Jiaoqin; He, Songjie; Du, Hanghang	Screening and mutation induction by DBD Plasma of Potassium-solubilizing bacteria	BIOTECHNOLOGY, CHEMICAL AND MATERIALS ENGINEERING III, PTS 1 AND 2	2014	884-885	516	

C	Mori, M.; Shimizu, T.; Yamamoto, A.; Sakugawa, T.; Akiyama, H.	TIME RESOLVED SPECTROSCOPY OF ATMOSPHERIC PLASMA JET DRIVEN BY PULSED POWER GENERATOR	2015 IEEE PULSED POWER CONFERENCE (PPC)	2015			
J	Moravsky, Ladislav; Klas, Matej; Machova, Eva; Pisklova, Katarina; Matejcik, Stefan	Influence of a plasma jet on the viability of Candida albicans	OPEN CHEMISTRY	2015	13	257	
J	Souza da Silva, Dinnara Layza; Farias, Mikelly de Lima; Vitoriano, Jussier de Oliveira; Alves Junior, Clodomiro; Torres, Salvador Barros	USE OF ATMOSPHERIC PLASMA IN GERMINATION OF Hybanthus calceolaria (L.) Schulze-Menz SEEDS	REVISTA CAATINGA	2018	31	632	
J	Tyczkowska-Sieron, E.; Markiewicz, J.; Grzesiak, B.; Krukowski, H.; Glowacka, A.; Tyczkowski, J.	Short communication: Cold atmospheric plasma inactivation of Prototheca zopfii isolated from bovine milk	JOURNAL OF DAIRY SCIENCE	2018	101	118	
C	Widyastuti, E.; Mashitoh, D.; Yunianta	Optimization of high voltage sterilization machine based on dielectric barrier discharge plasma against Salmonella sp. with response surface methodology on (Gallus gallus domesticus) chicken egg	INTERNATIONAL CONFERENCE ON GREEN AGRO-INDUSTRY AND BIOECONOMY	2019	230	12002	
J	Sahin, Neslihan; Tanisli, Murat	Electron temperature estimation of helium plasma via line intensity ratio at atmospheric pressure	EUROPEAN PHYSICAL JOURNAL PLUS	2020	135	653	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
11	R. Schrittwieser, C. Ionita, A. Murawski, C. Maszl, M. Asandulesa, A. Nastuta , G. Rusu, C. Douat, S.B. Olenici, I. Vojvodic, M. Dobromir, D. Luca, S. Jaksch, P. Scheier	Cavity-hollow cathode-sputtering source for titanium films	JOURNAL OF PLASMA PHYSICS	2010	76	655	5
	Citat in:						

J	Niedrist, Raimund; Schrittwieser, Roman	Detached Glow Above a Titanium Hollow Cathode Sputter Source	IEEE TRANSACTIONS ON PLASMA SCIENCE	2011	39	2568	
J	Kluson, J.; Kudrna, P.; Tichy, M.	Measurement of the plasma and neutral gas flow velocities in a low-pressure hollow-cathode plasma jet sputtering system	PLASMA SOURCES SCIENCE & TECHNOLOGY	2013	22	15020	
J	Metz, Garrett E.; Mahoney, Leonard; Riedel, Nicholas A.; Williams, John D.	Characterization of a hollow cathode styled plasma reactor for photovoltaic applications	PLASMA SOURCES SCIENCE & TECHNOLOGY	2015	24	15008	
J	Konrad-Soare, C. T.; Enescu, F.; Dimitriu, D. G.; Dobromir, M.; Teodorescu-Soare, E. G.; Mazzanti, F.; Irimiciuc, S. A.; Ionita, C.; Schrittwieser, R.	Concentric double hollow grid cathode discharges. Spectral investigations and phenomenological approach	PLASMA SOURCES SCIENCE & TECHNOLOGY	2021	30	85006	
J	Hechenberger, Faro; Duensing, Felix; Ballauf, Lorenz; Raggl, Stefan; Auer, Benedikt; Drost, Manuel; Thiel, Hannah; Fridrich, Daniel; Menzel, Alexander; Scheier, Paul	Surface characterization determined from the secondary electron emission coefficient upon ion bombardment	APPLIED SURFACE SCIENCE	2021	538	148042	

NASTUTA ANDREI VASILE calcul indicatori CNATDCU							
Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
12	C. Grigoras, I. Topala, <u>A.V. Nastuta</u> , D. Jitaru, I. Florea, L. Badescu, D. Ungureanu, M. Badescu, N. Dumitrascu	Influence of atmospheric pressure plasma treatment on epithelial regeneration process	ROMANIAN JOURNAL OF PHYSICS	2011	56	54	7
	Citat in:						
J	Gweon, Bomi; Kim, Mina; Kim, Kijung; Choung, Jinseung; Lee, Mi Nam; Ko, Ung Hyun; Hyun, Jin Won; Choe, Wonho; Shin, Jennifer H.	Role of atmospheric pressure plasma (APP) in wound healing: APP-induced antifibrotic process in human dermal fibroblasts	EXPERIMENTAL DERMATOLOGY	2016	25	159	
S	Gweon, Bomi; Kim, Kijung; Choe, Wonho; Shin, Jennifer H.	Therapeutic Uses of Atmospheric Pressure Plasma: Cancer and Wound	BIOMEDICAL ENGINEERING: FRONTIER RESEARCH AND CONVERGING TECHNOLOGIES	2016	9	357	

J	Xu De-Hui; Cui Qing-Jie; Xu Yu-Jing; Liu Ding-Xin; Kong Gang-Yu	Plasma Medicine and The Application in Tumor Therapy	PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS	2017	44	279	
J	Krcma, F.; Kozakova, Z.; Mazankova, V.; Horak, J.; Dostal, L.; Obradovic, B.; Nikiforov, A.; Belmonte, T.	Characterization of novel pin-hole based plasma source for generation of discharge in liquids supplied by DC non-pulsing voltage	PLASMA SOURCES SCIENCE & TECHNOLOGY	2018	27	65001	
J	Gokcelli, Ugur; Ercan, Utku Kursat; Ilhan, Enver; Argon, Asuman; Cukur, Elif; Ureyen, Orhan	Prevention of Peritoneal Adhesions by Non-Thermal Dielectric Barrier Discharge Plasma Treatment on Mouse Model: A Proof of Concept Study	JOURNAL OF INVESTIGATIVE SURGERY	2020	33	605	
J	Przekora, Agata; Audemar, Maite; Pawlat, Joanna; Canal, Cristina; Thomann, Jean-Sebastien; Labay, Cedric; Wojcik, Michal; Kwiatkowski, Michal; Terebun, Piotr; Ginalska, Grazyna; Hermans, Sophie; Duday, David	Positive Effect of Cold Atmospheric Nitrogen Plasma on the Behavior of Mesenchymal Stem Cells Cultured on a Bone Scaffold Containing Iron Oxide-Loaded Silica Nanoparticles Catalyst	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2020	21	4738	
J	Roy, Avishek; Banerjee, Arindam; Das, Sadhan Chandra; Vaid, Akshay; Katiyal, Sumant; Majumdar, Abhijit	Tolerance effect of a shock-free atmospheric plasma on human skin	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	2022	128	866	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
13	D. Crisan, N. Dragan, M. Raileanu, M. Crisan, A. Ianculescu, D. Luca, <u>A. Nastuta</u> , D. Mardare	Structural study of sol-gel Au/TiO ₂ films from nanopowders	APPLIED SURFACE SCIENCE	2011	257	4224	18
	Citat in:						
J	Tao, Yu-gui; Xu, Yan-qiu; Pan, Jun; Gu, Hao; Qin, Chang-yun; Zhou, Peng	Glycine assisted synthesis of flower-like TiO ₂ hierarchical spheres and its application in photocatalysis	MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS	2012	177	1664	

J	Linnik, Oksana; Smirnova, Natalie; Korduban, Oleksandr; Eremenko, Anna	Gold nanoparticles into Ti1-xZnxO2 films: Synthesis, structure and application	MATERIALS CHEMISTRY AND PHYSICS	2013	142	318	
J	Raileanu, Malina; Crisan, Maria; Nitoi, Ines; Ianculescu, Adelina; Oancea, Petruta; Crisan, Dorel; Todan, Ligia	TiO2-based Nanomaterials with Photocatalytic Properties for the Advanced Degradation of Xenobiotic Compounds from Water. A Literature Survey	WATER AIR AND SOIL POLLUTION	2013	224	1548	
J	Mardare, Diana; Cornei, Nicoleta; Luca, Dumitru; Dobromir, Marius; Irimiciuc, Stefan A.; Punga, Luciana; Pui, Aurel; Adomnitei, Catalin	Synthesis and hydrophilic properties of Mo doped TiO2 thin films	JOURNAL OF APPLIED PHYSICS	2014	115	213501	
J	Ninsonti, Hathaitip; Chomkitichai, Weerasak; Baba, Akira; Wetchakun, Natda; Kangwansupamonkon, Wiyong; Phanichphant, Sukon; Shinbo, Kazunari; Kato, Keizo; Kaneko, Futao	Au-Loaded Titanium Dioxide Nanoparticles Synthesized by Modified Sol-Gel/Impregnation Methods and Their Application to Dye-Sensitized Solar Cells	INTERNATIONAL JOURNAL OF PHOTOENERGY	2014	2014	865423	
J	Adomnitei, Catalin; Tascu, Sorin; Luca, Dumitru; Dobromir, Marius; Girtan, Mihaela; Mardare, Diana	Nb-doped TiO2 thin films as photocatalytic materials	BULLETIN OF MATERIALS SCIENCE	2015	38	1259	
J	Adomnitei, C.; Cornei, N.; Luca, D.; Sandu, I.; Vasilache, V.; Dobromir, M.; Mardare, D.	The Influence of Ni doping on the Surface Wettability of TiO2 Thin Films	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	2015	17	889	
J	Mohite, V. S.; Mahadik, M. A.; Kumbhar, S. S.; Hunge, Y. M.; Kim, J. H.; Moholkar, A. V.; Rajpure, Ky.; Bhosale, C. H.	Photoelectrocatalytic degradation of benzoic acid using Au doped TiO2 thin films	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B- BIOLOGY	2015	142	204	
J	Gupta, Arun Kumar; Srivastava, Pankaj; Bahadur, Lal	Improved performance of Ag-doped TiO2 synthesized by modified sol-gel method as photoanode of dye-sensitized solar cell	APPLIED PHYSICS A- MATERIALS SCIENCE & PROCESSING	2016	122	724	
C	Bhogaita, Mehul; Yadav, Sachin; Bhanushali, Akash Umesh; Parsola, Ali Asgar; Nalini, R. Pratibha	Synthesis and characterization of TiO2 thin films for DSSC prototype	MATERIALS TODAY- PROCEEDINGS	2016	3	2052	
J	Mardare, D.; Mita, C.; Cornei, N.; Tascu, S.; Luca, D.; Dobromir, M.; Adomnitei, C.	Platinum role in hydrophilicity enhancement of Cr-doped TiO2 thin films	PHILOSOPHICAL MAGAZINE	2016	96	3000	

J	Macovei, Dan; Tiron, Vasile; Adomnitei, Catalin; Luca, Dumitru; Dobromir, Marius; Antohe, Stefan; Mardare, Diana	On the hydrophilicity of Ni-doped TiO ₂ thin films. A study by X-ray absorption spectroscopy	THIN SOLID FILMS	2018	657	42	
J	Crisan, Maria	A SHORT HISTORY OF THE SOL-GEL PROCESSES INITIATED IN INSTITUTE OF PHYSICAL CHEMISTRY	REVUE ROUMAINE DE CHIMIE	2018	63	385	
J	Zaharescu, M.; Predoana, L.; Pandele, J.	Relevance of thermal analysis for sol-gel-derived nanomaterials	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	2018	86	7	
J	Olivo, Alberto; Ghedini, Elena; Pascalicchio, Paolina; Manzoli, Maela; Cruciani, Giuseppe; Signoretto, Michela	Sustainable Carbon Dioxide Photoreduction by a Cooperative Effect of Reactor Design and Titania Metal Promotion	CATALYSTS	2018	8	41	
J	Javed, Faiza; Javed, Sofia; Mujahid, Mohammad; ul Inam, Fakhar; Bhatti, Arshad Saleem	Modified optical characteristics of TiO ₂ /Au/TiO ₂ thin composite films	CERAMICS INTERNATIONAL	2019	45	22336	
J	Alharbi, F.; Mejri, I. H.; Hzez, W.; Omri, K.	Enhanced photocatalytic degradation, micro-structural evolution and optical performance of SZ/TiO ₂ nano-composite materials	CERAMICS INTERNATIONAL	2020	46	14972	
J	Raguram, T.; Rajni, K. S.	Characterization of TiO ₂ photoanodes and natural dyes (Allamanda Blanchetti and Allamanda Cathartica) extract as sensitizers for dye-sensitized solar cell applications	JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY	2020	93	202	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
14	A. Nastuta , I. Topala, C. Grigoras, V. Pohoata, G. Popa	Stimulation of wound healing by helium atmospheric pressure plasma treatment	Journal of Physics D-Applied Physics	2011	44	105204	158
	Citat in:						
J	Anghel, S. D.	Generation and investigation of a parallel-plate DBD driven at 1.6 MHz with flowing helium	JOURNAL OF ELECTROSTATICS	2011	69	261	
J	Kolb, Juergen F.; Mattson, Amber M.; Edelblute, Chelsea M.; Hao, Xiaolong; Malik, Muhammad Arif; Heller, Loree C.	Cold DC-Operated Air Plasma Jet for the Inactivation of Infectious Microorganisms	IEEE TRANSACTIONS ON PLASMA SCIENCE	2012	40	3007	
J	Jijie, R.; Pohoata, V.; Topala, I.	Thermal behavior of bovine serum albumin after exposure to barrier discharge helium plasma jet	APPLIED PHYSICS LETTERS	2012	101	144103	
J	Morfill, G. E.; Zimmermann, J. L.	Plasma Health Care - Old Problems, New Solutions	CONTRIBUTIONS TO PLASMA PHYSICS	2012	52	655	
J	Karakas, Erdinc; Akman, Mehmet Arda; Laroussi, Mounir	The evolution of atmospheric-pressure low-temperature plasma jets: jet current measurements	PLASMA SOURCES SCIENCE & TECHNOLOGY	2012	21	34016	
J	Mizeraczyk, Jerzy; Hrycak, Bartosz; Jasinski, Mariusz; Dors, Miroslaw	Low-temperature microwave microplasma for bio-decontamination	PRZEGLAD ELEKTROTECHNICZNY	2012	88	238	
J	Duval, Arnaud; Marinov, Ilya; Bousquet, Guilhem; Gapihan, Guillaume; Starikovskaia, Svetlana M.; Rousseau, Antoine; Janin, Anne	Cell Death Induced on Cell Cultures and Nude Mouse Skin by Non-Thermal, Nanosecond-Pulsed Generated Plasma	PLOS ONE	2013	8	e83001	
J	Duday, David; Clement, Franck; Lecoq, Elodie; Penny, Christian; Audinot, Jean-Nicolas; Belmonte, Thierry; Kutasi, Kinga; Cauchie, Henry-Michel; Choquet, Patrick	Study of Reactive Oxygen or/and Nitrogen Species Binding Processes on E. coli Bacteria with Mass Spectrometry Isotopic Nanoimaging	PLASMA PROCESSES AND POLYMERS	2013	10	864	

J	von Woedtke, Th.; Reuter, S.; Masur, K.; Weltmann, K. -D.	Plasmas for medicine	PHYSICS REPORTS- REVIEW SECTION OF PHYSICS LETTERS	2013	530	530	
J	Joh, Hea Min; Kim, Sun Ja; Chung, T. H.; Leem, S. H.	Comparison of the characteristics of atmospheric pressure plasma jets using different working gases and applications to plasma-cancer cell interactions	AIP ADVANCES	2013	3	92128	
J	Blackert, Susanne; Haertel, Beate; Wende, Kristian; von Woedtke, Thomas; Lindequist, Ulrike	Influence of non-thermal atmospheric pressure plasma on cellular structures and processes in human keratinocytes (HaCaT)	JOURNAL OF DERMATOLOGICAL SCIENCE	2013	70	173	
J	Gerling, T.; Hoder, T.; Brandenburg, R.; Bussiahn, R.; Weltmann, K-D	Influence of the capillary on the ignition of the transient spark discharge	JOURNAL OF PHYSICS D- APPLIED PHYSICS	2013	46	145205	
J	Haertel, Beate; von Woedtke, Thomas; Weltmann, Klaus-Dieter; Lindequist, Ulrike	Non-Thermal Atmospheric-Pressure Plasma Possible Application in Wound Healing	BIOMOLECULES & THERAPEUTICS	2014	22	477	
J	Ono, Ryo; Tokumitsu, Yusuke; Zen, Shungo; Yonemori, Seiya	Production of reactive species using vacuum ultraviolet photodissociation as a tool for studying their effects in plasma medicine: simulations and measurements	JOURNAL OF PHYSICS D- APPLIED PHYSICS	2014	47	445203	
J	Hao, Xiaolong; Mattson, Amber M.; Edelblute, Chelsea M.; Malik, Muhammad A.; Heller, Loree C.; Kolb, Juergen F.	Nitric Oxide Generation with an Air Operated Non-Thermal Plasma Jet and Associated Microbial Inactivation Mechanisms	PLASMA PROCESSES AND POLYMERS	2014	11	1044	
J	Minh-Hien Ngo Thi; Shao, Pei-Lin; Liao, Jiunn-Der; Lin, Chou-Ching K.; Yip, Hon-Kan	Enhancement of Angiogenesis and Epithelialization Processes in Mice with Burn Wounds through ROS/RNS Signals Generated by Non-Thermal N-2/Ar Micro-Plasma	PLASMA PROCESSES AND POLYMERS	2014	11	1076	

J	Hoentsch, Maxi; Bussiahn, Rene; Rebl, Henrike; Bergemann, Claudia; Eggert, Martin; Frank, Marcus; von Woedtke, Thomas; Nebe, Barbara	Persistent Effectivity of Gas Plasma-Treated, Long Time-Stored Liquid on Epithelial Cell Adhesion Capacity and Membrane Morphology	PLOS ONE	2014	9	e104559	
J	Santos, M.; Noel, C.; Belmonte, T.; Alves, L. L.	Microwave capillary plasmas in helium at atmospheric pressure	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2014	47	265201	
J	Boselli, M.; Colombo, V.; Ghedini, E.; Gherardi, M.; Laurita, R.; Liguori, A.; Sanibondi, P.; Stancampiano, A.	Schlieren High-Speed Imaging of a Nanosecond Pulsed Atmospheric Pressure Non-equilibrium Plasma Jet	PLASMA CHEMISTRY AND PLASMA PROCESSING	2014	34	853	
J	Tian, Wei; Kushner, Mark J.	Atmospheric pressure dielectric barrier discharges interacting with liquid covered tissue	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2014	47	165201	
J	von Woedtke, Th; Metelmann, H. -R.; Weltmann, K. -D.	Clinical Plasma Medicine: State and Perspectives of in Vivo Application of Cold Atmospheric Plasma	CONTRIBUTIONS TO PLASMA PHYSICS	2014	54	104	
C	Sarinont, T.; Amano, T.; Kitazaki, S.; Koga, K.; Uchida, G.; Shiratani, M.; Hayashi, N.	Growth enhancement effects of radish sprouts: atmospheric pressure plasma irradiation vs. heat shock	26TH SYMPOSIUM ON PLASMA SCIENCES FOR MATERIALS (SPSM26)	2014	518	12017	
J	Minh-Hien Thi Ngo; Liao, Jiunn-Der; Shao, Pei-Lin; Weng, Chih-Chang; Chang, Chen-Young	Increased Fibroblast Cell Proliferation and Migration Using Atmospheric N-2/Ar Micro-Plasma for the Stimulated Release of Fibroblast Growth Factor-7	PLASMA PROCESSES AND POLYMERS	2014	11	80	
J	Szili, Endre J.; Harding, Frances J.; Hong, Sung-Ha; Herrmann, Franziska; Voelcker, Nicolas H.; Short, Robert D.	The hormesis effect of plasma-elevated intracellular ROS on HaCaT cells	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2015	48	495401	
J	Li, Xuechen; Bao, Wenting; Chu, Jingdi; Zhang, Panpan; Jia, Pengying	A uniform laminar air plasma plume with large volume excited by an alternating current voltage	PLASMA SOURCES SCIENCE & TECHNOLOGY	2015	24	65020	
J	Santak, Vedran; Zaplotnik, Rok; Tarle, Zrinka; Milosevic, Slobodan	Optical Emission Spectroscopy of an Atmospheric Pressure Plasma Jet During Tooth Bleaching Gel Treatment	APPLIED SPECTROSCOPY	2015	69	1327	

J	Mussard, M. Dang Van Sung; Foucher, E.; Rousseau, A.	Charge and energy transferred from a plasma jet to liquid and dielectric surfaces	JOURNAL OF PHYSICS D- APPLIED PHYSICS	2015	48	424003	
J	Kawasaki, Toshiyuki; Eto, Wataru; Hamada, Masaki; Wakabayashi, Yasutaka; Abe, Yasufumi; Kihara, Keisuke	Detection of reactive oxygen species supplied into the water bottom by atmospheric non- thermal plasma jet using iodine- starch reaction	JAPANESE JOURNAL OF APPLIED PHYSICS	2015	54	86201	
J	Ono, Ryo; Tokumitsu, Yusuke	Selective production of atomic oxygen by laser photolysis as a tool for studying the effect of atomic oxygen in plasma medicine	JOURNAL OF PHYSICS D- APPLIED PHYSICS	2015	48	275201	
J	Hensel, Karol; Kucerova, Katarina; Tarabova, Barbora; Janda, Mario; Machala, Zdenko; Sano, Kaori; Mihai, Cosmin Teodor; Ciorpac, Mitica; Gorgan, Lucian Dragos; Jijie, Roxana; Pohoata, Valentin; Topala, Ionut	Effects of air transient spark discharge and helium plasma jet on water, bacteria, cells, and biomolecules	BIOINTERPHASES	2015	10	29515	
J	Salehi, Shahram; Shokri, Asana; Khani, Mohammad Reza; Bigdeli, Mohammadreza; Shokri, Babak	Investigating effects of atmospheric-pressure plasma on the process of wound healing	BIOINTERPHASES	2015	10	29504	
J	Szili, Endre J.; Hong, Sung-Ha; Short, Robert D.	On the effect of serum on the transport of reactive oxygen species across phospholipid membranes	BIOINTERPHASES	2015	10	29511	
J	Maletic, D.; Puac, N.; Selakovic, N.; Lazovic, S.; Malovic, G.; Dordevic, A.; Petrovic, Z. Lj	Time-resolved optical emission imaging of an atmospheric plasma jet for different electrode positions with a constant electrode gap	PLASMA SOURCES SCIENCE & TECHNOLOGY	2015	24	25006	
J	Gruenwald, J.; Reynvaan, J.; Eisenberg, T.; Geistlinger, P.	Characterisation of a Simple Non- Thermal Atmospheric Pressure Plasma Source for Biomedical Research Applications	CONTRIBUTIONS TO PLASMA PHYSICS	2015	55	337	
J	Gazeli, K.; Svarnas, P.; Held, B.; Marlin, L.; Clement, F.	Possibility of controlling the chemical pattern of He and Ar guided streamers by means of N- 2 or O-2 additives	JOURNAL OF APPLIED PHYSICS	2015	117	93302	

J	Oh, Jun-Seok; Furuta, Hiroshi; Hatta, Akimitsu; Bradley, James W.	Investigating the effect of additional gases in an atmospheric-pressure helium plasma jet using ambient mass spectrometry	JAPANESE JOURNAL OF APPLIED PHYSICS	2015	54	01AA03	
J	Lendeckel, Derik; Eymann, Christine; Emicke, Philipp; Daeschlein, Georg; Darm, Katrin; O'Neil, Serena; Beule, Achim G.; von Woedtke, Thomas; Voelker, Uwe; Weltmann, Klaus-Dieter; Juenger, Michael; Hosemann, Werner; Scharf, Christian	Proteomic Changes of Tissue-Tolerable Plasma Treated Airway Epithelial Cells and Their Relation to Wound Healing	BIOMED RESEARCH INTERNATIONAL	2015	2015	506059	
J	Seo, Kwon-Sang; Cha, Ju-Hong; Han, Moon-Ki; Ha, Chang-Seung; Kim, Dong-Hyun; Lee, Hae June; Lee, Ho-Jun	Surface treatment of glass and poly(dimethylsiloxane) using atmospheric-pressure plasma jet and analysis of discharge characteristics	JAPANESE JOURNAL OF APPLIED PHYSICS	2015	54	01AE06	
J	Zaplotnik, Rok; Biscan, Marijan; Kregar, Zlatko; Cvelbar, Uros; Mozetic, Miran; Milosevic, Slobodan	Influence of a sample surface on single electrode atmospheric plasma jet parameters	SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY	2015	103	124	
J	Park, Jeongyeon; Lee, Hyunyoung; Lee, Hae June; Kim, Gyoo Cheon; Kim, Do Young; Han, Sungbum; Song, Kiwon	Non-Thermal Atmospheric Pressure Plasma Efficiently Promotes the Proliferation of Adipose Tissue-Derived Stem Cells by Activating NO-Response Pathways	SCIENTIFIC REPORTS	2016	6	39298	
J	Kim, D. W.; Park, T. J.; Jang, S. J.; You, S. J.; Oh, W. Y.	Plasma treatment effect on angiogenesis in wound healing process evaluated in vivo using angiographic optical coherence tomography	APPLIED PHYSICS LETTERS	2016	109	233701	
J	Mitsugi, Fumiaki; Kusumegi, Shota; Kawasaki, Toshiyuki; Nakamiya, Toshiyuki; Sonoda, Yoshito	Detection of Pressure Waves Emitted From Plasma Jets With Fibered Optical Wave Microphone in Gas and Liquid Phases	IEEE TRANSACTIONS ON PLASMA SCIENCE	2016	44	3077	
J	Cho, Guangsup; Kim, Yunjung; Kim, Yeonjeong; Yi, Seung-Ho	The Current-Voltage Characteristics of Atmospheric Pressure Plasma Jets With the Various Working Gases	IEEE TRANSACTIONS ON PLASMA SCIENCE	2016	44	3302	

J	Mitsugi, Fumiaki; Nakamiya, Toshiyuki; Sonoda, Yoshito; Kawasaki, Toshiyuki	Time-Resolved Observation of Plasma Jets Synchronized With Fibered Optical Wave Microphone Measurement	IEEE TRANSACTIONS ON PLASMA SCIENCE	2016	44	2759	
J	Xiong, Qing; Liu, Hongbin; Britun, Nikolay; Nikiforov, Anton Yu; Li, Li; Chen, Qiang; Leys, Christophe	Time-Selective TALIF Spectroscopy of Atomic Oxygen Applied to an Atmospheric Pressure Argon Plasma Jet	IEEE TRANSACTIONS ON PLASMA SCIENCE	2016	44	2745	
J	Trelles, Juan Pablo	Pattern formation and self-organization in plasmas interacting with surfaces	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2016	49	393002	
J	Lazarou, C.; Belmonte, T.; Chipper, A. S.; Georgiou, G. E.	Numerical modelling of the effect of dry air traces in a helium parallel plate dielectric barrier discharge	PLASMA SOURCES SCIENCE & TECHNOLOGY	2016	25	55023	
J	Oh, Jun-Seok; Szili, Endre J.; Gaur, Nishtha; Hong, Sung-Ha; Furuta, Hiroshi; Kurita, Hirofumi; Mizuno, Akira; Hatta, Akimitsu; Short, Robert D.	How to assess the plasma delivery of RONS into tissue fluid and tissue	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2016	49	304005	
J	Tiede, Regina; Hirschberg, Joanna; Vioel, Wolfgang; Emmert, Steffen	A μ s-Pulsed Dielectric Barrier Discharge Source: Physical Characterization and Biological Effects on Human Skin Fibroblasts	PLASMA PROCESSES AND POLYMERS	2016	13	775	
J	Ermakov, Artem; Ermakova, Olga; Skavulyak, Alexander; Kreshchenko, Natalia; Gudkov, Sergey; Maevsky, Eugene	The Effects of the Low Temperature Argon Plasma on Stem Cells Proliferation and Regeneration in Planarians	PLASMA PROCESSES AND POLYMERS	2016	13	788	
J	Bender, Claudia; Kramer, Axel	Therapy of wound healing disorders in pets with atmospheric pressure plasma	TIERÄRZTLICHE UMSCHAU	2016	71	262	
J	Zhao, G. L.; Hua, W.; Guo, S. Y.; Liu, Z. L.	Three-dimensional simulation of microwave-induced helium plasma under atmospheric pressure	PHYSICS OF PLASMAS	2016	23	73503	

J	Kawasaki, Toshiyuki; Sato, Akihiro; Kusumegi, Shota; Kudo, Akihiro; Sakanoshita, Tomohiro; Tsurumaru, Takuya; Uchida, Giichiro; Koga, Kazunori; Shiratani, Masaharu	Two-dimensional concentration distribution of reactive oxygen species transported through a tissue phantom by atmospheric-pressure plasma-jet irradiation	APPLIED PHYSICS EXPRESS	2016	9	76202	
J	Shi Xingmin; Cai Jingfen; Xu Guimin; Ren Hongbin; Chen Sile; Chang Zhengshi; Liu Jinren; Huang Chongya; Zhang Guanjin; Wu Xili	Effect of Cold Plasma on Cell Viability and Collagen Synthesis in Cultured Murine Fibroblasts	PLASMA SCIENCE & TECHNOLOGY	2016	18	353	
J	Gweon, Bomi; Kim, Mina; Kim, Kijung; Choung, Jinseung; Lee, Mi Nam; Ko, Ung Hyun; Hyun, Jin Won; Choe, Wonho; Shin, Jennifer H.	Role of atmospheric pressure plasma (APP) in wound healing: APP-induced antifibrotic process in human dermal fibroblasts	EXPERIMENTAL DERMATOLOGY	2016	25	159	
J	Korolov, Ihor; Fazekas, Barbara; Szell, Marta; Kemeny, Lajos; Kutasi, Kinga	The effect of the plasma needle on the human keratinocytes related to the wound healing process	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2016	49	35401	
C	Ngo Thi Minh Hien; Huynh Quang Linh; Der, Liao Jiunn	Optimization of Micro-plasma Parameters for Wound Healing	2016 3RD INTERNATIONAL CONFERENCE ON BIOMEDICAL ENGINEERING (BME-HUST)	2016		146	
J	Anghel, S. D.; Vlad, I. E.	CHARACTERIZATION OF A DIELECTRIC BARRIER DISCHARGE GENERATED IN OPEN SPACE WITH FLOWING WORKING GAS	ROMANIAN JOURNAL OF PHYSICS	2016	61	999	
S	Gweon, Bomi; Kim, Kijung; Choe, Wonho; Shin, Jennifer H.	Therapeutic Uses of Atmospheric Pressure Plasma: Cancer and Wound	BIOMEDICAL ENGINEERING: FRONTIER RESEARCH AND CONVERGING TECHNOLOGIES	2016	9	357	
J	Teunissen, Jannis; Ebert, Ute	Simulating streamer discharges in 3D with the parallel adaptive Afivo framework	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2017	50	474001	
J	Guo, Liang; Li, Linbo; Dong, Fanqing; Jiang, Wencong	Non-equilibrium plasma jet induced thermo-acoustic resistivity imaging for higher	SCIENTIFIC REPORTS	2017	7	9475	

		contrast and resolution					
J	Kramer, A.; Conway, B. R.; Meissner, K.; Scholz, F.; Rauch, B. H.; Moroder, A.; Ehlers, A.; Meixner, A. J.; Heidecke, C-D.; Kietzmann, M.; Partecke, L. I.; Kietzmann, M.; Assadian, O.	Cold atmospheric pressure plasma for treatment of chronic wounds: drug or medical device?	JOURNAL OF WOUND CARE	2017	26	470	
J	Szili, Endre J.; Gaur, Nishtha; Hong, Sung-Ha; Kurita, Hirofumi; Oh, Jun-Seok; Ito, Masafumi; Mizuno, Akira; Hatta, Akimitsu; Cowin, Allison J.; Graves, David B.; Short, Robert D.	The assessment of cold atmospheric plasma treatment of DNA in synthetic models of tissue fluid, tissue and cells	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2017	50	274001	
J	Sornsakdanuphap, Jirapong; Suanpoot, Pradoong; Hong, Young June; Ghimire, Bhagirath; Cho, Guangsup; Uhm, Han Sup; Kim, Doyoung; Kim, Yun Ji; Choi, Eun Ha	Electron temperature and density of non-thermal atmospheric pressure argon plasma jet by convective wave packet model	JOURNAL OF THE KOREAN PHYSICAL SOCIETY	2017	70	979	
J	Inada, Yuki; Aono, Kaiho; Ono, Ryo; Kumada, Akiko; Hidaka, Kunihiro; Maeyama, Mitsuaki	Two-dimensional electron density measurement of pulsed positive primary streamer discharge in atmospheric-pressure air	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2017	50	174005	
J	Xu De-Hui; Cui Qing-Jie; Xu Yu-Jing; Liu Ding-Xin; Kong Gang-Yu	Plasma Medicine and The Application in Tumor Therapy	PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS	2017	44	279	
J	Giersz, Jacek; Jankowski, Krzysztof; Reszke, Edward	Spatially resolved measurements and diagnostics of digitally controlled rotating field pulsed plasma operated in helium at 20 kHz	SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY	2017	130	45	
B	Demetillo, Mary Angelique; Lopez, Jose L.	Characterization of the Operational Modes of a Non-thermal Atmospheric Pressure Plasma Jet	2017 IEEE INTERNATIONAL CONFERENCE ON PLASMA SCIENCE (ICOPS)	2017			
J	Sarinont, Thapanut; Katayama, Ryu; Wada, Yosuke; Koga, Kazunori; Shiratani, Masaharu	Plant Growth Enhancement of Seeds Immersed in Plasma Activated Water	MRS ADVANCES	2017	2	995	

J	Rad, Zahra Shahbazi; Davani, Fereydoun Abbasi; Etaati, Gholamreza	Determination of proper treatment time for in vivo blood coagulation and wound healing application by non-thermal helium plasma jet	AUSTRALASIAN PHYSICAL & ENGINEERING SCIENCES IN MEDICINE	2018	41	905	
J	Wahyuningtyas, Eka Sakti; Iswara, Arya; Sari, Yunita; Kamal, Sodik; Santosa, Budi; Ishijima, Tatsuo; Nakatani, Toshio; Putri, Indri Kartika; Nasruddin, N.	Comparative study on Manuka and Indonesian honeys to support the application of plasma jet during proliferative phase on wound healing	CLINICAL PLASMA MEDICINE	2018	12	1	
J	Schroter, Sandra; Wijaikhum, Apiwat; Gibson, Andrew R.; West, Andrew; Davies, Helen L.; Minesi, Nicolas; Dedrick, James; Wagenaars, Erik; de Oliveira, Nelson; Nahon, Laurent; Kushner, Mark J.; Booth, Jean-Paul; Niemi, Kari; Gans, Timo; O'Connell, Deborah	Chemical kinetics in an atmospheric pressure helium plasma containing humidity	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2018	20	24263	
J	Bagheri, B.; Teunissen, J.; Ebert, U.; Becker, M. M.; Chen, S.; Ducasse, O.; Eichwald, O.; Loffhagen, D.; Luque, A.; Mihailova, D.; Plewa, J. M.; van Dijk, J.; Yousfi, M.	Comparison of six simulation codes for positive streamers in air	PLASMA SOURCES SCIENCE & TECHNOLOGY	2018	27	95002	
J	Trelles, Juan Pablo	Advances and challenges in computational fluid dynamics of atmospheric pressure plasmas	PLASMA SOURCES SCIENCE & TECHNOLOGY	2018	27	93001	
J	Cheng, Kuang-Yao; Lin, Zhi-Hua; Cheng, Yu-Pin; Chiu, Hsien-Yi; Yeh, Nai-Lun; Wu, Tung-Kung; Wu, Jong-Shinn	Wound Healing in Streptozotocin-Induced Diabetic Rats Using Atmospheric-Pressure Argon Plasma Jet	SCIENTIFIC REPORTS	2018	8	12214	
J	Svarnas, P.; Papadopoulos, P. K.; Athanasopoulos, D.; Sklias, K.; Gazeli, K.; Vafeas, P.	Parametric study of thermal effects in a capillary dielectric-barrier discharge related to plasma jet production: Experiments and numerical modelling	JOURNAL OF APPLIED PHYSICS	2018	124	64902	
J	Mizuno, Kazue; Shirakawa, Yuki; Sakamoto, Tatsuya; Ishizaki, Hiromu; Nishijima, Yoshimi; Ono, Ryo	Plasma-Induced Suppression of Recurrent and Reinoculated Melanoma Tumors in Mice	IEEE TRANSACTIONS ON RADIATION AND PLASMA MEDICAL SCIENCES	2018	2	359	

J	Nguyen Xuan Truyen; Taoka, Noriyuki; Ohta, Akio; Makihara, Katsunori; Yamada, Hisashi; Takahashi, Tokio; Ikeda, Mitsuhsa; Shimizu, Mitsuaki; Miyazaki, Seiichi	Interface properties of SiO ₂ /GaN structures formed by chemical vapor deposition with remote oxygen plasma mixed with Ar or He	JAPANESE JOURNAL OF APPLIED PHYSICS	2018	57	06KA01	
J	Chatraie, Maedeh; Torkaman, Giti; Khani, Mohammadreza; Salehi, Hossein; Shokri, Babak	In vivo study of non-invasive effects of non-thermal plasma in pressure ulcer treatment	SCIENTIFIC REPORTS	2018	8	5621	
J	Khanzadeh, Mohammad; Jamal, Fatemeh; Shariat, Mahdi	Experimental investigation of gas flow rate and electric field effect on refractive index and electron density distribution of cold atmospheric pressure-plasma by optical method, Moire deflectometry	PHYSICS OF PLASMAS	2018	25	43516	
J	Zhang, Yuhui; Ning, Wenjun; Dai, Dong	Numerical investigation on the dynamics and evolution mechanisms of multiple-current-pulse behavior in homogeneous helium dielectric-barrier discharges at atmospheric pressure	AIP ADVANCES	2018	8	35008	
J	Liu, Xin; Gan, Lu; Ma, Mingyu; Zhang, Song; Liu, Jingjing; Chen, Hongxiang; Liu, Dawei; Lul, Xinpei	A comparative study on the transdermal penetration effect of gaseous and aqueous plasma reactive species	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2018	51	75401	
J	Kim, Y. M.; Lee, H. Y.; Lee, H. J.; Kim, J. B.; Kim, S.; Joo, J. Y.; Kim, G. C.	Retention Improvement in Fluoride Application with Cold Atmospheric Plasma	JOURNAL OF DENTAL RESEARCH	2018	97	179	
J	Vlad, V. I.; Baran, V.; Nicolin, A. I.; Mihalache, D.	THE FIRST SEVENTY VOLUMES OF ROMANIAN REPORTS IN PHYSICS: A BRIEF SURVEY OF THE ROMANIAN PHYSICS COMMUNITY	ROMANIAN REPORTS IN PHYSICS	2018	70	101	
C	Borghei, S. M.; Vaziri, N.; Alibabaei, S.	Schlieren flow visualization of helium atmospheric plasma jet and influence of the gas flow rate and applied voltage frequency	20TH INTERNATIONAL SUMMER SCHOOL ON VACUUM, ELECTRON AND ION TECHNOLOGIES,	2018	992	12005	

			2017				
J	Kawasaki, Toshiyuki; Kuroeda, Gouya; Sei, Ryuhei; Yamaguchi, Masaaki; Yoshinaga, Reishi; Yamashita, Riho; Tasaki, Hikaru; Koga, Kazunori; Shiratani, Masaharu	Transportation of reactive oxygen species in a tissue phantom after plasma irradiation	JAPANESE JOURNAL OF APPLIED PHYSICS	2018	57	01AG01	
J	Szili, Endre J.; Oh, Jun-Seok; Fukuhara, Hideo; Bhatia, Rishabh; Gaur, Nishtha; Nguyen, Cuong K.; Hong, Sung-Ha; Ito, Satsuki; Ogawa, Kotaro; Kawada, Chiaki; Shuin, Taro; Tsuda, Masayuki; Furihata, Mutsuo; Kurabayashi, Atsushi; Furuta, Hiroshi; Ito, Masafumi; Inoue, Keiji; Hatta, Akimitsu; Short, Robert D.	Modelling the helium plasma jet delivery of reactive species into a 3D cancer tumour	PLASMA SOURCES SCIENCE & TECHNOLOGY	2018	27	14001	
J	Gao, Kun; Wu, Kaiyue; Jia, Pengying; Jia, Boyu; Kang, Pengcheng; Li, Xuechen	Observation of self-organized honeycomb patterns by fast photography in a liquid-anode discharge	PHYSICS OF PLASMAS	2019	26	113501	
J	Mitsugi, Fumiaki	Optical Wave Microphone Measurements for Understanding the Mechanism of Acoustic Emission From Atmospheric Plasma Jet	IEEE TRANSACTIONS ON PLASMA SCIENCE	2019	47	4781	
J	Martinez, Luis; Dhruv, Akash; Lin, Li; Balaras, Elias; Keidar, Michael	Interaction between a helium atmospheric plasma jet and targets and dynamics of the interface	PLASMA SOURCES SCIENCE & TECHNOLOGY	2019	28	115002	
J	Klinhom, Sarisa; Siengdee, Puntita; Nganvongpanit, Korakot; Boonyawan, Dheerawan; Silva-Fletcher, Ayona; Thitaram, Chatchote	Effect of Culture Medium Treated with Non-thermal Plasma Energy on the Growth and Viability In-vitro of Fibroblast Cells from Asian Elephants (<i>Elephas maximus</i>)	KAFKAS UNIVERSITESI VETERINER FAKULTESI DERGISI	2019	25	815	
J	Xu, Hangbo; Zhu, Yupan; Cui, Dongjie; Du, Mengru; Wang, Jiaqi; Ma, Ruonan; Jiao, Zhen	Evaluating the roles of OH radicals, H ₂ O ₂ , ORP and pH in the inactivation of yeast cells on a tissue model by surface micro-	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2019	52	395201	

		discharge plasma					
J	Bergemann, Claudia; Rebl, Henrike; Otto, Anik; Matschke, Svenja; Nebe, Barbara	Pyruvate as a cell-protective agent during cold atmospheric plasma treatment in vitro: Impact on basic research for selective killing of tumor cells	PLASMA PROCESSES AND POLYMERS	2019	16	e1900088	
J	Rezaie, Fahimeh; Momeni-Moghaddam, Madjid; Naderi-Meshkin, Hojjat	Regeneration and Repair of Skin Wounds: Various Strategies for Treatment	INTERNATIONAL JOURNAL OF LOWER EXTREMITY WOUNDS	2019	18	247	
J	Rahayu, Heni Setyowati Esti; Nasruddin, N.; Nurani, Laela Hayu; Darmawati, Sri; Rohmani, Afiana; Lutfiyati, Heni; Wahyuningtyas, Eka Sakti; Sikumbang, Isabella Meliawati; Muhlisin, Zaenul; Sukeksi, Andri; Nuroini, Fitri; Ishijima, Tatsuo; Sugama, Junko; Nakatani, Toshio	Ethanollic extract of the natural product of Daun sirih (Piper betle) leaves may impede the effectiveness of the plasma jet contact style for acute wounds	CLINICAL PLASMA MEDICINE	2019	15	100090	
J	de Urquijo, J.; Casey, M. J. E.; Serkovic-Loli, L. N.; Cocks, D. G.; Boyle, G. J.; Jones, D. B.; Brunger, M. J.; White, R. D.	Assessment of the self-consistency of electron-THF cross sections using electron swarm techniques: Mixtures of THF-Ar and THF-N-2	JOURNAL OF CHEMICAL PHYSICS	2019	151	54309	
J	Liu, Jin-Ren; Wu, Yue-Ming; Wu, Gui-Min; Gao, Ling-Ge; Ma, Yan; Shi, Xing-Min; Zhang, Guan-Jun	Low-temperature plasma induced melanoma apoptosis by triggering a p53/PIGs/caspase-dependent pathway in vivo and in vitro	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2019	52	315204	
J	Peverall, Robert; Ritchie, Grant A. D.	Spectroscopy techniques and the measurement of molecular radical densities in atmospheric pressure plasmas	PLASMA SOURCES SCIENCE & TECHNOLOGY	2019	28	73002	
J	von Woedtke, Thomas; Schmidt, Anke; Bekeschus, Sander; Wende, Kristian; Weltmann, Klaus-Dieter	Plasma Medicine: A Field of Applied Redox Biology	IN VIVO	2019	33	1011	
J	Yang, Ying; Li, Zhiyu; Nie, Lanlan; Lu, Xinpei	Effect of liquid-dissolved gas components on concentrations of the aqueous reactive oxygen	JOURNAL OF APPLIED PHYSICS	2019	125	223302	

		and nitrogen species					
J	Wang, Qiao; Ning, Wenjun; Dai, Dong; Zhang, Yuhui; Ouyang, Jiting	Characteristics and mechanisms of transition from filament to homogeneous glow in atmospheric helium dielectric barrier discharges under variation of the applied voltage amplitude	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2019	52	205201	
J	Lazarou, C.; Chiper, A. S.; Anastassiou, C.; Topala, I.; Mihaila, I.; Pohoata, V.; Georghiou, G. E.	Numerical simulation of the effect of water admixtures on the evolution of a helium/dry air discharge	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2019	52	195203	
J	Inada, Yuki; Komuro, Atsushi; Ono, Ryo; Kumada, Akiko; Hidaka, Kunihiko; Maeyama, Mitsuaki	Two-dimensional electron density measurement of pulsed positive secondary streamer discharge in atmospheric-pressure air	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2019	52	185204	
J	Feng, Zhenliang; Song, Guang-Ling; Zheng, Dajiang; Xu, Yuqing	Response of a semiliquid epoxy film to a DC plasma	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2019	52	16LT01	
J	Park, Jeongyeon; Lee, Hyunyoung; Lee, Hae June; Kim, Gyoo Cheon; Kim, Sung-Soo; Han, Sungbum; Song, Kiwon	Non-thermal atmospheric pressure plasma is an excellent tool to activate proliferation in various mesoderm-derived human adult stem cells	FREE RADICAL BIOLOGY AND MEDICINE	2019	134	374	
J	Mitsugi, Fumiaki; Kusumegi, Shota; Kawasaki, Toshiyuki	Visualization of ROS Distribution Generated by Atmospheric Plasma Jet	IEEE TRANSACTIONS ON PLASMA SCIENCE	2019	47	1057	
J	Mitsugi, Fumiaki; Kusumegi, Shota; Nakamiya, Toshiyuki; Sonoda, Yoshito; Kawasaki, Toshiyuki	Distribution of Pressure Wave Generated by Atmospheric Plasma Jet Measured With Optical Wave Microphone	IEEE TRANSACTIONS ON PLASMA SCIENCE	2019	47	1063	
J	Shahpanah, Marjan; Mehrabian, Somayeh; Abbasi-Firouzjah, Marzieh; Shokri, Babak	Improving the oxygen barrier properties of PET polymer by radio frequency plasma-polymerized SiOxNy thin film	SURFACE & COATINGS TECHNOLOGY	2019	358	91	

J	Zhang, Yuhui; Ning, Wenjun; Dai, Dong	Influence of nitrogen impurities on the performance of multiple-current-pulse behavior in a homogeneous helium dielectric-barrier discharge at atmospheric pressure	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2019	52	45203	
S	Keidar, Michael; Yan, Dayun; Sherman, Jonathan H.	Clinical applications of cold atmospheric plasma for glioblastoma	COLD PLASMA CANCER THERAPY	2019			
J	Scharf, Christian; Eymann, Christine; Emicke, Philipp; Bernhardt, Joerg; Wilhelm, Martin; Goerries, Fabian; Winter, Joern; von Woedtke, Thomas; Darm, Katrin; Daeschlein, Georg; Steil, Leif; Hosemann, Werner; Beule, Achim	Improved Wound Healing of Airway Epithelial Cells Is Mediated by Cold Atmospheric Plasma: A Time Course-Related Proteome Analysis	OXIDATIVE MEDICINE AND CELLULAR LONGEVITY	2019	2019	7071536	
J	Zhang, Yuhui; Ning, Wenjun; Dai, Dong	Numerical Investigation on the Transient Evolution Mechanisms of Nonlinear Phenomena in a Helium Dielectric Barrier Discharge at Atmospheric Pressure	IEEE TRANSACTIONS ON PLASMA SCIENCE	2019	47	179	
J	Bekeschus, Sander; Favia, Pietro; Robert, Eric; von Woedtke, Thomas	White paper on plasma for medicine and hygiene: Future in plasma health sciences	PLASMA PROCESSES AND POLYMERS	2019	16	e1800033	
J	Tabaie, S. S.; Iraj, D.; Amrollahi, R.	Measurement of electron temperature and density of atmospheric plasma needle	VACUUM	2020	182	109761	
J	Poramapijitwat, P.; Thana, P.; Boonyawan, D.; Janpong, K.; Kuensaen, C.; Charerntantanakul, W.; Yu, L. D.; Sarapirom, S.	Effect of dielectric barrier discharge plasma jet on bactericidal and human dermal fibroblasts adult cells: In vitro contaminated wound healing model	SURFACE & COATINGS TECHNOLOGY	2020	402	126482	
J	Bao, Yiwen; Reddivari, Lavanya; Huang, Jen-Yi	Enhancement of phenolic compounds extraction from grape pomace by high voltage atmospheric cold plasma	LWT-FOOD SCIENCE AND TECHNOLOGY	2020	133	109970	

J	Yuan, Xu-Chu; Li, Han-Wei; Abbas, M. F.; Li, Xiao-Ran; Wang, Zhen; Zhang, Guan-Jun; Sun, An-Bang	A 3D numerical study of positive streamers interacting with localized plasma regions	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2020	53	425204	
J	Stokes, P. W.; Casey, M. J. E.; Cocks, D. G.; de Urquijo, J.; Garcia, G.; Brunger, M. J.; White, R. D.	Self-consistent electron-THF cross sections derived using data-driven swarm analysis with a neural network model	PLASMA SOURCES SCIENCE & TECHNOLOGY	2020	29	105008	
J	Schroter, Sandra; Bredin, Jerome; Gibson, Andrew R.; West, Andrew; Dedrick, James P.; Wagenaars, Erik; Niemi, Kari; Gans, Timo; O'Connell, Deborah	The formation of atomic oxygen and hydrogen in atmospheric pressure plasmas containing humidity: picosecond two-photon absorption laser induced fluorescence and numerical simulations	PLASMA SOURCES SCIENCE & TECHNOLOGY	2020	29	105001	
J	Sahin, Neslihan; Tanisli, Murat	Electron temperature estimation of helium plasma via line intensity ratio at atmospheric pressure	EUROPEAN PHYSICAL JOURNAL PLUS	2020	135	653	
J	Bergemann, Claudia; Waldner, Anna-Christin; Emmert, Steffen; Nebe, J. Barbara	The Hyaluronan Pericellular Coat and Cold Atmospheric Plasma Treatment of Cells	APPLIED SCIENCES-BASEL	2020	10	5024	
J	Li, Xiaotong; Tan, Zhenyu; Wang, Xiaolong; Liu, Yadi	Investigation on the Frequency Dependence of the Correlation Between Discharge Current and Gap Voltage in Helium Dielectric Barrier Discharges at Atmospheric Pressure	IEEE TRANSACTIONS ON PLASMA SCIENCE	2020	48	2060	
J	Brany, Dusan; Dvorska, Dana; Halasova, Erika; Skovierova, Henrieta	Cold Atmospheric Plasma: A Powerful Tool for Modern Medicine	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2020	21	2932	
J	Rad, Zahra Shahbazi; Davani, Fereydoun Abbasi	Measurements of the electrical parameters and wound area for investigation on the effect of different non-thermal atmospheric pressure plasma sources on wound healing time	MEASUREMENT	2020	155	107545	

J	Zhang, Hao; Zhang, Jishen; Ma, Jie; Shen, Jie; Lan, Yan; Liu, Dingxin; Xia, Weidong; Xu, Dehui; Cheng, Cheng	Differential sensitivities of HeLa and MCF-7 cells at G1-, S-, G2- and M-phase of the cell cycle to cold atmospheric plasma	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2020	53	125202	
J	Stere, Cristina; Chansai, Sarayute; Gholami, Rahman; Wangkawong, Kanlayawat; Singhania, Amit; Goguuet, Alexandre; Inceesungvorn, Burapat; Hardacre, Christopher	A design of a fixed bed plasma DRIFTS cell for studying the NTP-assisted heterogeneously catalysed reactions	CATALYSIS SCIENCE & TECHNOLOGY	2020	10	1458	
J	Park, Jeongyeon; Suh, Donghwa; Tang, Tianyu; Lee, Hae June; Roe, Jae-Seok; Kim, Gyoo Cheon; Han, Sungbum; Song, Kiwon	Non-thermal atmospheric pressure plasma induces epigenetic modifications that activate the expression of various cytokines and growth factors in human mesoderm-derived stem cells	FREE RADICAL BIOLOGY AND MEDICINE	2020	148	108	
J	Huang, Yueh-Han; Wang, Meng-Jiy	Atmospheric pressure plasma jet-assisted copolymerization of sulfbetaine methacrylate and acrylic acid	PLASMA PROCESSES AND POLYMERS	2020	17	e1900209	
J	Gierczik, Krisztian; Vukusic, Tomislava; Kovacs, Laszlo; Szekely, Andras; Szalai, Gabriella; Milosevic, Slobodan; Kocsy, Gabor; Kutasi, Kinga; Galiba, Gabor	Plasma-activated water to improve the stress tolerance of barley	PLASMA PROCESSES AND POLYMERS	2020	17	e1900123	
J	Luo, Ling; Huang, Zeen; Wang, Qiao; Dai, Dong; Li, Licheng	Influence of Oxygen on the Multiple-Current-Pulse Behavior in an Atmospheric Homogeneous Helium Dielectric Barrier Discharge With Air Impurities	IEEE ACCESS	2020	8	8145	
J	Brany, Dusan; Dvorska, Dana; Strnadel, Jan; Matakova, Tatiana; Halasova, Erika; Skovierova, Henrieta	Effect of Cold Atmospheric Plasma on Epigenetic Changes, DNA Damage, and Possibilities for Its Use in Synergistic Cancer Therapy	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2021	22	12252	

J	Maho, Thomas; Binois, Raphaelle; Brule-Morabito, Fabienne; Demasure, Maryvonne; Douat, Claire; Dozias, Sebastien; Bocanegra, Pablo Escot; Goard, Isabelle; Hocqueloux, Laurent; Le Helloco, Claire; Orel, Inna; Pouvesle, Jean-Michel; Prazuck, Thierry; Stancampiano, Augusto; Tocaben, Clement; Robert, Eric	Anti-Bacterial Action of Plasma Multi-Jets in the Context of Chronic Wound Healing	APPLIED SCIENCES-BASEL	2021	11	9598	
J	Liu, Mengjie; Liu, Yidi; Lu, Na; Wang, Sulij; Sun, Gongquan	Effect of Flow Rate on the Characteristics of Atmospheric-Pressure AC Constant-Current Powered Gliding Arc Discharge	IEEE TRANSACTIONS ON PLASMA SCIENCE	2021	49	3113	
J	Mitsugi, Fumiaki; Wago, Mizuki; Sakamoto, Ryuji; Nishida, Keisuke; Kawasaki, Toshiyuki	Influence of Retrogradation on KI-Starch Visualization of Reactive Oxygen Species Emitted by Plasma Jets	IEEE TRANSACTIONS ON PLASMA SCIENCE	2021	49	2141	
J	Lee, Ji-Yoon; Park, Shin-Young; Kim, Kyoung-Hwa; Yoon, Sung-Young; Kim, Gon-Ho; Lee, Yong-Moo; Seol, Yang-Jo	Safety evaluation of atmospheric pressure plasma jets in in vitro and in vivo experiments	JOURNAL OF PERIODONTAL AND IMPLANT SCIENCE	2021	51	213	
J	Li, Xiaotong; Tan, Zhenyu; Wang, Xiaolong; Liu, Yadi; Lu, Changqing	Mechanism Governing the Dependence of Temporal Nonlinear Behavior on the Gap Width in Atmospheric-Pressure Helium Dielectric Barrier Discharge-Role of Residual Charged Particles	IEEE TRANSACTIONS ON PLASMA SCIENCE	2021	49	1278	
J	Lin, Li; Keidar, Michael	A map of control for cold atmospheric plasma jets: From physical mechanisms to optimizations	APPLIED PHYSICS REVIEWS	2021	8	11306	
J	Turicek, J.; Ratts, N.; Kaltchev, M.; Masoud, N.	Investigation of a helium tubular cold atmospheric pressure plasma source and polymer surface treatment application	PLASMA SOURCES SCIENCE & TECHNOLOGY	2021	30	25005	
J	Morabit, Youssef; Hasan, Mohammad I.; Whalley, Richard D.; Robert, Eric; Modic, Martina; Walsh, James L.	A review of the gas and liquid phase interactions in low-temperature plasma jets used for biomedical applications	EUROPEAN PHYSICAL JOURNAL D	2021	75	32	

J	Mitsugi, Fumiaki; Kusumegi, Shota; Nishida, Keisuke; Kawasaki, Toshiyuki	Visualization of Plasma-Induced Liquid Flow Using KI-Starch and PIV	IEEE TRANSACTIONS ON PLASMA SCIENCE	2021	49	9	
J	Huang, Zeen; Zhang, Yuhui; Dai, Dong; Wang, Qiao	Controlling the number of discharge current pulses in an atmospheric dielectric barrier discharge by voltage waveform tailoring	AIP ADVANCES	2021	11	15203	
J	Veerana, Mayura; Mitra, Sarmistha; Ki, Se-Hoon; Kim, Soo-Min; Choi, Eun-Ha; Lee, Taek; Park, Gyungsoon	Plasma-mediated enhancement of enzyme secretion in <i>Aspergillus oryzae</i>	MICROBIAL BIOTECHNOLOGY	2021	14	262	
J	Boudjadar, A.; Bouanaka, F.; Rebiai, S.	Physical phenomena of a cold plasma jet model at atmospheric pressure	PHYSICA SCRIPTA	2022	97	125609	
J	Silsby, J. A.; Dickenson, A.; Walsh, J. L.; Hasan, M. I.	Resolving the spatial scales of mass and heat transfer in direct plasma sources for activating liquids	FRONTIERS IN PHYSICS	2022	10	1045196	
J	Ge, Yang; Wang, Jun; Cao, Wei; Niu, Qun; Wu, Yanfan; Feng, Yongtong; Xu, Zhengping; Liu, Yi	Low Temperature Plasma Jet Affects Acute Skin Wounds in Diabetic Mice Through Reactive Components	INTERNATIONAL JOURNAL OF LOWER EXTREMITY WOUNDS	2022			
J	Decauchy, Henri; Pavy, Allan; Camus, Marine; Fouassier, Laura; Dufour, Thierry	Cold plasma endoscopy applied to biliary ducts: feasibility risk assessment on human-like and porcine models for the treatment of cholangiocarcinoma	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2022	55	455401	
J	Lin, Keren; Nezu, Atsushi; Akatsuka, Hiroshi	Optical emission spectroscopy diagnosis of low-pressure microwave discharge helium plasma based on collisional-radiative model	JAPANESE JOURNAL OF APPLIED PHYSICS	2022	61	116001	
J	Ivkovic, Sasa S.; Cvetanovic, Nikola; Obradovic, Bratislav M.	Experimental study of gas flow rate influence on a dielectric barrier discharge in helium	PLASMA SOURCES SCIENCE & TECHNOLOGY	2022	31	95017	

J	Jiang, Yuanyuan; Wang, Yanhui; Zhang, Jiao; Wang, Dezhen	Numerical study of singlet delta oxygen (O-2(a(1)Delta(g))) generation and transport in the He/O-2 atmospheric pressure plasma jet	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2022	55	335203	
J	Dashtbozorg, Behnam; Tao, Xiao; Dong, Hanshan	Active-screen plasma surface multi-functionalisation of biopolymers and carbon-based materials-An overview	SURFACE & COATINGS TECHNOLOGY	2022	442	128188	
J	Kladphet, T.; Thai, V. P.; Fernando, W. T. L. S.; Takahashi, K.; Kikuchi, T.; Sasaki, T.	Using numerical analysis of ordinary differential equation systems to predict the chemical concentration after plasma irradiation	AIP ADVANCES	2022	12	55116	
J	Vadikkeettil, Yuges; Subramaniam, Yugeswaran; Murugan, Ramaswamy; Ananthapadmanabhan, P., V; Mostaghimi, Javad; Pershin, Larry; Batiot-Dupeyrat, Catherine; Kobayashi, Yasukazu	Plasma assisted decomposition and reforming of greenhouse gases: A review of current status and emerging trends	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	2022	161	112343	
J	Li, Xiaotong; Tan, Zhenyu; Wang, Xiaolong; Liu, Yadi	Evolution of the Discharge Mode From Chaos to an Inverse Period-Doubling Bifurcation in an Atmospheric-Pressure He/N-2 Dielectric Barrier Discharge in Increasing Nitrogen Content	IEEE TRANSACTIONS ON PLASMA SCIENCE	2022	50	619	
J	Maletic, Dejan; Popovic, Dean; Puac, Nevena; Petrovic, Zoran Lj; Milosevic, Slobodan	Comparison of laser induced breakdown spectroscopy and fast ICCD imaging for spatial and time resolved measurements of atmospheric pressure helium plasma jet	PLASMA SOURCES SCIENCE & TECHNOLOGY	2022	31	25011	
J	Choi, Kyu Young; Sultan, Md. Tipu; Ajiteru, Olatunji; Hong, Heesun; Lee, Young Jin; Lee, Ji Seung; Lee, Hanna; Lee, Ok Joo; Kim, Soon Hee; Lee, Joong Seob; Park, Sung-Jin; Eden, James Gary; Park, Chan Hum	Treatment of Fungal-Infected Diabetic Wounds with Low Temperature Plasma	BIOMEDICINES	2022	10	27	

J	Lata, S.; Chakravorty, Shibani; Mitra, Tamoghni; Pradhan, Prasanti Kumari; Mohanty, Soumyakanta; Patel, Paritosh; Jha, Ealisha; Panda, Pritam Kumar; Verma, Suresh K.; Suar, Mrutyunjay	Aurora Borealis in dentistry: The applications of cold plasma in biomedicine	MATERIALS TODAY BIO	2022	13	100200	
J	Dubey, Sunil Kumar; Parab, Shraddha; Alexander, Amit; Agrawal, Mukta; Achalla, Vaishnav Pavan Kumar; Pal, Udit Narayan; Pandey, Murali Monohar; Kesharwani, Prashant	Cold atmospheric plasma therapy in wound healing	PROCESS BIOCHEMISTRY	2022	112	112	
J	Gholami, Neda; Colagar, Abasalt Hosseinzadeh; Sinkakarimi, Mohammad Hossein; Sohbatazadeh, Farshad	In vivo assessment of APPJ discharge on the earthworm: coelomic TAC and MDA levels, cell death, and tissue regeneration	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	2022	29	16045	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
15	<u>A.V. Nastuta</u> , I. Topala, G. Popa	ICCD Imaging of Atmospheric Pressure Plasma Jet Behavior in Different Electrode Configurations	IEEE Transactions on Plasma Science	2011	39	2310	7
	Citat in:						
J	Karakas, Erdinc; Akman, Mehmet Arda; Laroussi, Mounir	The evolution of atmospheric-pressure low-temperature plasma jets: jet current measurements	PLASMA SOURCES SCIENCE & TECHNOLOGY	2012	21	34016	
J	Gerling, T.; Hoder, T.; Bussiahn, R.; Brandenburg, R.; Weltmann, K-D	On the spatio-temporal dynamics of a self-pulsed nanosecond transient spark discharge: a spectroscopic and electrical analysis	PLASMA SOURCES SCIENCE & TECHNOLOGY	2013	22	65012	
J	Park, Sanghoo; Moon, Se Youn; Choe, Wonho	Multiple (eight) plasma bullets in helium atmospheric pressure plasma jet and the role of nitrogen	APPLIED PHYSICS LETTERS	2013	103	224105	

J	Wild, R.; Gerling, T.; Bussiahn, R.; Weltmann, K-D; Stollenwerk, L.	Phase-resolved measurement of electric charge deposited by an atmospheric pressure plasma jet on a dielectric surface	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2014	47	42001	
J	Gherardi, Matteo; Puac, Nevena; Maric, Dragana; Stancampiano, Augusto; Malovic, Gordana; Colombo, Vittorio; Petrovic, Zoran Lj	Practical and theoretical considerations on the use of ICCD imaging for the characterization of non-equilibrium plasmas	PLASMA SOURCES SCIENCE & TECHNOLOGY	2015	24	64004	
J	Hasan, M. I.; Cvelbar, U.; Bradley, J. W.; Walsh, J. L.	Counter-propagating streamers in an atmospheric-pressure helium plasma jet	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2017	50	205201	
J	Maletic, Dejan; Puac, Nevena; Malovic, Gordana; Dordevic, Antonije; Petrovic, Zoran Lj	The influence of electrode configuration on light emission profiles and electrical characteristics of an atmospheric-pressure plasma jet	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2017	50	145202	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
16	I. Topala, <u>A. Nastuta</u>	Helium atmospheric pressure plasma jet: diagnostics and application for burned wounds healing	Plasma for Bio-Decontamination, Medicine and Food Security, Ed. Springer Netherlands	2012	1	335-345	3
	Citat in:						
J	Jijie, R., Pohoata, V., Topala, I.	Thermal behavior of bovine serum albumin after exposure to barrier discharge helium plasma jet	Applied Physics Letters	101	2012	144103	
J	von Woedtke, T., Reuter, S., Masur, K., Weltmann, K.-D.	Plasmas for medicine	Physics Reports	530	2013	291	
J	Braný, D., Dvorská, D., Halašová, E., Škovierová, H.	Cold atmospheric plasma: A powerful tool for modern medicine	International Journal of Molecular Sciences	21	2020	2932	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
17	T. Gerling, <u>A.V. Nastuta</u> , R. Bussiahn, E. Kindel, K.D. Weltmann	Back and forth directed plasma bullets in a helium atmospheric pressure needle-to-plane discharge with oxygen admixtures	PLASMA SOURCES SCIENCE & TECHNOLOGY	2012	21	034012	58
	Citat in:						
J	Reuter, S.; Winter, J.; Iseni, S.; Peters, S.; Schmidt-Bleker, A.; Duennbier, M.; Schaefer, J.; Foest, R.; Weltmann, K-D	Detection of ozone in a MHz argon plasma bullet jet	PLASMA SOURCES SCIENCE & TECHNOLOGY	2012	21	34015	
J	Kong, M. G.; Ganguly, B. N.; Hicks, R. F.	Plasma jets and and plasma bullets	PLASMA SOURCES SCIENCE & TECHNOLOGY	2012	21	30201	
J	Gerling, T.; Hoder, T.; Bussiahn, R.; Brandenburg, R.; Weltmann, K-D	On the spatio-temporal dynamics of a self-pulsed nanosecond transient spark discharge: a spectroscopic and electrical analysis	PLASMA SOURCES SCIENCE & TECHNOLOGY	2013	22	65012	
J	von Woedtke, Th.; Reuter, S.; Masur, K.; Weltmann, K. -D.	Plasmas for medicine	PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS	2013	530	291	
J	Sobota, A.; Guaitella, O.; Garcia-Caurel, E.	Experimentally obtained values of electric field of an atmospheric pressure plasma jet impinging on a dielectric surface	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2013	46	372001	
J	Gerling, T.; Hoder, T.; Brandenburg, R.; Bussiahn, R.; Weltmann, K-D	Influence of the capillary on the ignition of the transient spark discharge	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2013	46	145205	
J	Uchida, Giichiro; Takenaka, Kosuke; Kawabata, Kazufumi; Miyazaki, Atsushi; Setsuhara, Yuichi	Effects of driving voltage frequency on the discharge characteristics of atmospheric dielectric-barrier-discharge plasma jet	JAPANESE JOURNAL OF APPLIED PHYSICS	2014	53	11RA08	
J	Sobota, A.; Guaitella, O.; Rousseau, A.	The influence of the geometry and electrical characteristics on the formation of the atmospheric	PLASMA SOURCES SCIENCE & TECHNOLOGY	2014	23	25016	

		pressure plasma jet					
J	Sretenovic, Goran B.; Krstic, Ivan B.; Kovacevic, Vesna V.; Obradovic, Bratislav M.; Kuraica, Milorad M.	Spatio-temporally resolved electric field measurements in helium plasma jet	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2014	47	102001	
J	Wild, R.; Gerling, T.; Bussiahn, R.; Weltmann, K-D; Stollenwerk, L.	Phase-resolved measurement of electric charge deposited by an atmospheric pressure plasma jet on a dielectric surface	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2014	47	42001	
J	Yan, Wen; Liu, Fucheng; Sang, Chaofeng; Wang, Dezhen	Two-dimensional modeling of the cathode sheath formation during the streamer-cathode interaction	PHYSICS OF PLASMAS	2014	21	13504	
J	Mussard, M. Dang Van Sung; Foucher, E.; Rousseau, A.	Charge and energy transferred from a plasma jet to liquid and dielectric surfaces	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2015	48	424003	
J	Hasan, M. I.; Bradley, J. W.	Computational study of the afterglow in single and sequential pulsing of an atmospheric-pressure plasma jet	PLASMA SOURCES SCIENCE & TECHNOLOGY	2015	24	55015	
J	Ji, Longfei; Xi, Yang; Bi, Zhenhua; Niu, Jinhai; Liua, Dongping	The density and velocity of plasma bullets propagating along one dielectric tube	AIP ADVANCES	2015	5	87181	
J	Jiang, Nan; Shao, Xianjun; Zhang, Guan-Jun; Cao, Zexian	Nanosecond-Resolved Discharge Processes Revealing Detailed Mechanisms of Nonequilibrium Atmospheric-Pressure Plasma Jet of Helium	IEEE TRANSACTIONS ON PLASMA SCIENCE	2015	43	2212	
J	Schmidt-Bleker, Ansgar; Norberg, Seth A.; Winter, Joern; Johnsen, Eric; Reuter, S.; Weltmann, K. D.; Kushner, Mark J.	Propagation mechanisms of guided streamers in plasma jets: the influence of electronegativity of the surrounding gas	PLASMA SOURCES SCIENCE & TECHNOLOGY	2015	24	35022	
J	Uchida, Giichiro; Takenaka, Kosuke; Setsuhara, Yuichi	Effects of discharge voltage waveform on the discharge characteristics in a helium atmospheric plasma jet	JOURNAL OF APPLIED PHYSICS	2015	117	153301	

J	Uchida, Giichiro; Takenaka, Kosuke; Kawabata, Kazufumi; Setsuhara, Yuichi	Influence of He Gas Flow Rate on Optical Emission Characteristics in Atmospheric Dielectric-Barrier-Discharge Plasma Jet	IEEE TRANSACTIONS ON PLASMA SCIENCE	2015	43	737	
J	Uchida, Giichiro; Takenaka, Kosuke; Miyazaki, Atsushi; Setsuhara, Yuichi	Atmospheric-Pressure Gas-Breakdown Characteristics with a Radio-Frequency Voltage	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2015	15	2192	
J	Uchida, Giichiro; Takenaka, Kosuke; Miyazaki, Atsushi; Kawabata, Kazufumi; Setsuhara, Yuichi	Dynamic Properties of Helium Atmospheric Dielectric-Barrier-Discharge Plasma Jet	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2015	15	2324	
J	Topala, I.; Nagatsu, M.	Capillary plasma jet: A low volume plasma source for life science applications	APPLIED PHYSICS LETTERS	2015	106	54105	
J	Sobota, A.; Guaitella, O.; Sretenovic, G. B.; Krstic, I. B.; Kovacevic, V. V.; Obrusnik, A.; Nguyen, Y. N.; Zajickova, L.; Obradovic, B. M.; Kuraica, M. M.	Electric field measurements in a kHz-driven He jet-the influence of the gas flow speed	PLASMA SOURCES SCIENCE & TECHNOLOGY	2016	25	65026	
J	Lu, X.; Naidis, G. V.; Laroussi, M.; Reuter, S.; Graves, D. B.; Ostrikov, K.	Reactive species in non-equilibrium atmospheric-pressure plasmas: Generation, transport, and biological effects	PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS	2016	630	1	
J	Li, Xue Chen; Zhang, Pan Pan; Jia, Peng Ying; Chen, Jun Ying; Bao, Wen Ting; Dong, Li Fang	Dynamics of Atmospheric Pressure Plasma Plumes in the Downstream and Upstream Regions	PLASMA PROCESSES AND POLYMERS	2016	13	480	
J	Qian, Muiyang; Yang, Congying; Liu, Sanqiu; Chen, Xiaochang; Ni, Gengsong; Wang, Dezhen	Gas flow dependence of atmospheric pressure plasma needle discharge characteristics	JAPANESE JOURNAL OF APPLIED PHYSICS	2016	55	46101	
J	Uchida, Giichiro; Takenaka, Kosuke; Setsuhara, Yuichi	Influence of voltage pulse width on the discharge characteristics in an atmospheric dielectric-barrier-discharge plasma jet	JAPANESE JOURNAL OF APPLIED PHYSICS	2016	55	01AH03	
J	Hasan, M. I.; Cvelbar, U.; Bradley, J. W.; Walsh, J. L.	Counter-propagating streamers in an atmospheric-pressure helium plasma jet	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2017	50	205201	

J	Janda, Mario; Hoder, Tomas; Sarani, Abdollah; Brandenburg, Ronny; Machala, Zdenko	Cross-correlation spectroscopy study of the transient spark discharge in atmospheric pressure air	PLASMA SOURCES SCIENCE & TECHNOLOGY	2017	26	55010	
J	Darny, T.; Pouvesle, J-M; Puech, V.; Douat, C.; Dozias, S.; Robert, Eric	Analysis of conductive target influence in plasma jet experiments through helium metastable and electric field measurements	PLASMA SOURCES SCIENCE & TECHNOLOGY	2017	26	45008	
J	Zhang PanPan; Li XueChen; Jia PengYing; Chu JingDi; Zhang Qi; Wang Yan	Effect of the angle between the electric field and the gas flow one on the plasma plume dynamics at atmospheric pressure	SCIENTIA SINICA-PHYSICA MECHANICA & ASTRONOMICA	2017	47	65201	
J	Klarenaar, B. L. M.; Guaitella, O.; Engeln, R.; Sobota, A.	How dielectric, metallic and liquid targets influence the evolution of electron properties in a pulsed He jet measured by Thomson and Raman scattering	PLASMA SOURCES SCIENCE & TECHNOLOGY	2018	27	85004	
J	Liu, Yadi; Tan, Zhenyu; Chen, Xinxian; Li, Xiaotong; Wang, Xiaolong; Zhang, Huimin; Pan, Jie	An Investigation of the Control of Electron Energy in the Atmospheric-Pressure Helium Plasma Jet	IEEE TRANSACTIONS ON PLASMA SCIENCE	2018	46	2865	
J	Reuter, Stephan; von Woedtke, Thomas; Weltmann, Klaus-Dieter	The kINPen-a review on physics and chemistry of the atmospheric pressure plasma jet and its applications	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2018	51	233001	
J	Viegas, Pedro; Pechereau, Francois; Bourdon, Anne	Numerical study on the time evolutions of the electric field in helium plasma jets with positive and negative polarities	PLASMA SOURCES SCIENCE & TECHNOLOGY	2018	27	25007	
J	Martinez, Luis; Dhruv, Akash; Lin, Li; Balaras, Elias; Keidar, Michael	Interaction between a helium atmospheric plasma jet and targets and dynamics of the interface	PLASMA SOURCES SCIENCE & TECHNOLOGY	2019	28	115002	
J	Wu, Kaiyue; Ren, Chenhua; Jia, Boyu; Lin, Xiaotong; Zhao, Na; Jia, Pengying; Li, Xuechen	Spatial-temporal evolutions of surface discharge patterns generated on dielectric target interacted with a plasma jet	PLASMA PROCESSES AND POLYMERS	2019	16	1900073	

J	Babaeva, Natalia Yu; Naidis, George, V; Panov, Vladislav A.; Wang, Ruixue; Zhang, Shuai; Zhang, Cheng; Shao, Tao	Plasma bullet propagation and reflection from metallic and dielectric targets	PLASMA SOURCES SCIENCE & TECHNOLOGY	2019	28	95006	
J	Gidon, Dogan; Graves, David B.; Mesbah, Ali	Predictive control of 2D spatial thermal dose delivery in atmospheric pressure plasma jets	PLASMA SOURCES SCIENCE & TECHNOLOGY	2019	28	85001	
J	Sobota, A.; Guaitella, O.; Sretenovic, G. B.; Kovacevic, V. V.; Slikboer, E.; Krstic, I. B.; Obradovic, B. M.; Kuraica, M. M.	Plasma-surface interaction: dielectric and metallic targets and their influence on the electric field profile in a kHz AC-driven He plasma jet	PLASMA SOURCES SCIENCE & TECHNOLOGY	2019	28	45003	
J	Gidon, Dogan; Graves, David B.; Mesbah, Ali	Spatial thermal dose delivery in atmospheric pressure plasma jets	PLASMA SOURCES SCIENCE & TECHNOLOGY	2019	28	25006	
J	Hofmans, Marlous; Sobota, Ana	Influence of a target on the electric field profile in a kHz atmospheric pressure plasma jet with the full calculation of the Stark shifts	JOURNAL OF APPLIED PHYSICS	2019	125	43303	
J	Nishime, Thalita M. C.; Wagner, Robert; Kostov, Konstantin G.	Study of Modified Area of Polymer Samples Exposed to a He Atmospheric Pressure Plasma Jet Using Different Treatment Conditions	POLYMERS	2020	12	1028	
J	Zhang, Liyang; Zhang, Dongheyu; Guo, Yuntao; Peng, Siqi; Zhou, Qun; Luo, Haiyun	In situ FTIR spectroscopy study on biomolecular etching by atmospheric pressure plasma jets	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2021	54	465204	
J	Babaeva, Natalia Yu; Naidis, George, V; Tereshonok, Dmitry, V; Zhang, Cheng; Huang, Bangdou; Shao, Tao	Interaction of helium plasma jet with tilted targets: consequences of target permittivity, conductivity and incidence angle	PLASMA SOURCES SCIENCE & TECHNOLOGY	2021	30	115021	
J	Yambe, Kiyoyuki; Hoshimi, Yuten; Kuramoto, Naoya	The Effect of the Side Edge on the Plasma Current during Interactions between a Cold Plasma and a Metal Object	JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN	2021	90	84501	

J	Yambe, Kiyoyuki; Kuramoto, Naoya; Izumi, Koichi	Repeated plasma current induced by potential fluctuation in atmospheric pressure non-thermal-equilibrium plasma jet	AIP ADVANCES	2021	11	55301	
J	Zaplotnik, Rok; Primc, Gregor; Vesel, Alenka	Optical Emission Spectroscopy as a Diagnostic Tool for Characterization of Atmospheric Plasma Jets	APPLIED SCIENCES-BASEL	2021	11	2275	
J	Johnson, Michael J.; Boris, David R.; Petrova, Tzvetelina B.; Walton, Scott G.	Spatio-temporal characterization of a pulsed DC atmospheric pressure plasma jet interacting with substrates	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2021	54	85202	
J	Klose, S. -J.; Bansemer, R.; Brandenburg, R.; van Helden, J. H.	Ar metastable densities (P-3(2)) in the effluent of a filamentary atmospheric pressure plasma jet with humidified feed gas	JOURNAL OF APPLIED PHYSICS	2021	129	63304	
J	Chen, Zhitong; Obenchain, Richard; Wirz, Richard E.	Tiny Cold Atmospheric Plasma Jet for Biomedical Applications	PROCESSES	2021	9	249	
J	Gidon, Dogan; Abbas, Hossam S.; Bonzanini, Angelo D.; Graves, David B.; Velni, Javad Mohammadpour; Mesbah, Ali	Data-driven LPV model predictive control of a cold atmospheric plasma jet for biomaterials processing	CONTROL ENGINEERING PRACTICE	2021	109	104725	
J	Yambe, Kiyoyuki; Kuramoto, Naoya	Experimental conditions for generation of space-charge limitation in atmospheric pressure non-thermal-equilibrium argon plasma	PHYSICS OF PLASMAS	2021	28	13511	
J	Yambe, Kiyoyuki; Izumida, Tomoya; Akatsuka, Hiroshi	Estimation of Electron Density and Temperature by Continuum Spectrum in a Moving Atmospheric-Pressure Nonthermal-Equilibrium Argon Plasma Bullet	IEEE TRANSACTIONS ON PLASMA SCIENCE	2022			
J	Wu, Kaiyue; Zhao, Na; Wu, Jiacun; Zhang, Furong; Niu, Mengyu; Ran, Junxia; Jia, Pengying; Li, Xuechen	Complicated streamer dynamics in petal-like patterns formed on the substrate downstream of an argon plasma jet	PLASMA PROCESSES AND POLYMERS	2022	19	e2200003	

J	Viegas, Pedro; Slikboer, Elmar; Bonaventura, Zdenek; Guaitella, Olivier; Sobota, Ana; Bourdon, Anne	Physics of plasma jets and interaction with surfaces: review on modelling and experiments	PLASMA SOURCES SCIENCE & TECHNOLOGY	2022	31	53001	
J	Zhao, Zhiguo; Liu, Dongping; Xia, Yang; Li, Guofeng; Niu, Chunjie; Qi, Zhihua; Wang, Xi; Zhao, Zilu	The dynamic evolution of atmospheric-pressure pulsed air discharge over a water droplet	PHYSICS OF PLASMAS	2022	29	43507	
J	Martinez, Luis; Dhruv, Akash; Balaras, Elias; Keidar, Michael	On self organization: model for ionization wave propagation with targets of varying electrical properties	PLASMA SOURCES SCIENCE & TECHNOLOGY	2022	31	35004	
J	Miebach, Lea; Freund, Eric; Clemen, Ramona; Weltmann, Klaus-Dieter; Metelmann, Hans-Robert; von Woedtke, Thomas; Gerling, Torsten; Wende, Kristian; Bekeschus, Sander	Conductivity augments ROS and RNS delivery and tumor toxicity of an argon plasma jet	FREE RADICAL BIOLOGY AND MEDICINE	2022	180	210	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
18	<u>A. Nastuta</u>, V. Pohoata, I. Topala	Atmospheric pressure plasma jet-Living tissue interface: Electrical, optical, and spectral characterization	Journal of Applied Physics	2013	113	183302	26
	Citat in:						
J	Uchida, Giichiro; Takenaka, Kosuke; Kawabata, Kazufumi; Miyazaki, Atsushi; Setsuhara, Yuichi	Effects of driving voltage frequency on the discharge characteristics of atmospheric dielectric-barrier-discharge plasma jet	JAPANESE JOURNAL OF APPLIED PHYSICS	2014	53	11RA08	
J	Hensel, Karol; Kucerova, Katarina; Tarabova, Barbora; Janda, Mario; Machala, Zdenko; Sano, Kaori; Mihai, Cosmin Teodor; Ciorpac, Mitica; Gorgan, Lucian Dragos; Jijie, Roxana; Pohoata, Valentin; Topala, Ionut	Effects of air transient spark discharge and helium plasma jet on water, bacteria, cells, and biomolecules	BIOINTERPHASES	2015	10	29515	
J	Uchida, Giichiro; Takenaka, Kosuke; Kawabata, Kazufumi; Setsuhara, Yuichi	Influence of He Gas Flow Rate on Optical Emission Characteristics in Atmospheric Dielectric-	IEEE TRANSACTIONS ON PLASMA SCIENCE	2015	43	737	

		Barrier-Discharge Plasma Jet					
J	Uchida, Giichiro; Takenaka, Kosuke; Miyazaki, Atsushi; Setsuhara, Yuichi	Atmospheric-Pressure Gas-Breakdown Characteristics with a Radio-Frequency Voltage	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2015	15	2192	
J	Uchida, Giichiro; Takenaka, Kosuke; Miyazaki, Atsushi; Kawabata, Kazufumi; Setsuhara, Yuichi	Dynamic Properties of Helium Atmospheric Dielectric-Barrier-Discharge Plasma Jet	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2015	15	2324	
J	Topala, I.; Nagatsu, M.	Capillary plasma jet: A low volume plasma source for life science applications	APPLIED PHYSICS LETTERS	2015	106	54105	
J	Shrestha, R.; Subedi, D. P.; Gurung, J. P.; Wong, C. S.	Generation, Characterization and Application of Atmospheric Pressure Plasma Jet	SAINS MALAYSIANA	2016	45	1689	
J	Baek, Eun Jeong; Joh, Hea Min; Kim, Sun Ja; Chung, T. H.	Effects of the electrical parameters and gas flow rate on the generation of reactive species in liquids exposed to atmospheric pressure plasma jets	PHYSICS OF PLASMAS	2016	23	73515	
J	Kang, Hae Ra; Chung, Tae Hun; Joh, Hea Min; Kim, Sun Ja	Effects of Dielectric Tube Shape and Pin-Electrode Diameter on the Plasma Plume in Atmospheric Pressure Helium Plasma Jets	IEEE TRANSACTIONS ON PLASMA SCIENCE	2017	45	691	
J	Chen, Xinxian; Tan, Zhenyu; Liu, Yadi; Wang, Xiaolong; Li, Xiaotong	Effects of oxygen concentration on the electron energy distribution functions in atmospheric pressure helium/oxygen and argon/oxygen needle-electrode plasmas	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2018	51	375202	
J	Svarnas, P.; Papadopoulos, P. K.; Athanasopoulos, D.; Sklias, K.; Gazeli, K.; Vafeas, P.	Parametric study of thermal effects in a capillary dielectric-barrier discharge related to plasma jet production:	JOURNAL OF APPLIED PHYSICS	2018	124	64902	

		Experiments and numerical modelling					
J	Chen, Xinxian; Tan, Zhenyu; Liu, Yadi; Li, Xiaotong; Pan, Jie; Wang, Xiaolong	Effects of gap distance and working gas on energy spectra of electrons in atmospheric pressure plasma jets	PHYSICS OF PLASMAS	2018	25	33517	
J	Rezaei, Fatemeh; Nikiforov, Anton; Morent, Rino; De Geyter, Nathalie	Plasma Modification of Poly Lactic Acid Solutions to Generate High Quality Electrospun PLA Nanofibers	SCIENTIFIC REPORTS	2018	8	2241	
J	Skoro, Nikola; Puac, Nevena; Zivkovic, Suzana; Krstic-Milosevic, Dijana; Cvelbar, Uros; Malovic, Gordana; Petrovic, Zoran Lj.	Destruction of chemical warfare surrogates using a portable atmospheric pressure plasma jet	EUROPEAN PHYSICAL JOURNAL D	2018	72	2	
J	Liu, Yadi; Tan, Zhenyu; Wang, Xiaolong; Li, Xiaotong; Chen, Xinxian	Investigation on the effects of the operating conditions on electron energy in the atmospheric-pressure helium plasma jet	PHYSICS OF PLASMAS	2019	26	43506	
J	Brubaker, T. R.; Ishikawa, K.; Kondo, H.; Tsutsumi, T.; Hashizume, H.; Tanaka, H.; Knecht, S. D.; Bilen, S. G.; Hori, M.	Liquid dynamics in response to an impinging low-temperature plasma jet	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2019	52	75203	
J	Wang, Xiaolong; Liu, Yadi; Tan, Zhenyu; Chang, Lili	Effects of Oxygen Concentration on the Reactive Oxygen Species Density Under Different Operating Conditions in Atmospheric-Pressure Helium/Oxygen Pulsed Dielectric Barrier Discharge	IEEE ACCESS	2019	7	69748	
J	Brany, Dusan; Dvorska, Dana; Halasova, Erika; Skovierova, Henrieta	Cold Atmospheric Plasma: A Powerful Tool for Modern Medicine	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2020	21	2932	
J	Seyfi, P.; Khademi, A.; Ghasemi, S.; Farhadizadeh, A.; Ghomi, H.	The effect of mixed electric field on characteristic of Ar-N ₂ plasma jets for TiN surface treatment	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2020	53	125201	

J	Jogi, Indrek; Talviste, Rasmus; Raud, Sirli; Raud, Juri; Plank, Toomas; Moravsky, Ladislav; Klas, Matej; Matejcik, Stefan	Comparison of two cold atmospheric pressure plasma jet configurations in argon	CONTRIBUTIONS TO PLASMA PHYSICS	2020	60	e201900127	
J	Brany, Dusan; Dvorska, Dana; Strnadel, Jan; Matakova, Tatiana; Halasova, Erika; Skovierova, Henrieta	Effect of Cold Atmospheric Plasma on Epigenetic Changes, DNA Damage, and Possibilities for Its Use in Synergistic Cancer Therapy	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2021	22	12252	
J	Sharma, Navin Kumar; Misra, Shikha; Varun; Lamba, Ram Prakash; Choyal, Yaduvendra; Pal, Udit Narayan	Analysis of Discharge Characteristics of Cold Atmospheric Pressure Plasma Jet	IEEE TRANSACTIONS ON PLASMA SCIENCE	2021	49	2799	
J	Rehman, Mati Ur; Jawaid, Paras; Zhao, Qing-Li; Kondo, Takashi; Saitoh, Jun-ichi; Noguchi, Kyo	Physical and chemical enhancement of cancer cell death induced by cold atmospheric plasma	JAPANESE JOURNAL OF APPLIED PHYSICS	2021	60	30501	
J	Gerber, Ioana Cristina; Mihaila, Ilarion; Pohoata, Valentin; Topala, Ionut	Evolution of Electrical and Optical Parameters of a Helium Plasma Jet in Interaction With Liquids	IEEE TRANSACTIONS ON PLASMA SCIENCE	2021	49	557	
J	Chen, Zhitong; Obenchain, Richard; Wirz, Richard E.	Tiny Cold Atmospheric Plasma Jet for Biomedical Applications	PROCESSES	2021	9	249	
J	Ning, Wenjun; Lai, Janis; Kruszelnicki, Juliusz; Foster, John E.; Dai, Dong; Kushner, Mark J.	Propagation of positive discharges in an air bubble having an embedded water droplet	PLASMA SOURCES SCIENCE & TECHNOLOGY	2021	30	15005	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
19	I. Motrescu, A. Poiata, <u>A. Nastuta</u> , D.E. Creanga, G. Popa	Bioeffects of atmospheric plasma discharge on gram-positive and gram-negative bacteria	Journal of Science and Arts	2015	3	249	2
	Citat in:						

J	Cheng H., Maoyuan X.U., Shuhui P.A., Xinpei L.U., Dawei L.I.	Interactions between multiple filaments and bacterial biofilms on the surface of an apple	Plasma Science and Technology	2018	20	44006	
J	Fang C., Kusano Y., Bardenshtein A.	High-speed plasma treatment of polyethylene terephthalate films using ultrasound assisted dielectric barrier discharge	Packaging Technology and Science	2022	35	643	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
20	T. Gerling, R. Wild, <u>A.V. Nastuta</u> , C. Wilke, K.D. Weltmann, L. Stollenwerk	Correlation of phase resolved current, emission and surface charge measurements in an atmospheric pressure helium jet	EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS	2015	71	20808	2
	Citat in:						
J	Boehm, P.; Kettlitz, M.; Brandenburg, R.; Hoeft, H.; Czarnetzki, U.	Determination of the electric field strength of filamentary DBDs by CARS-based four-wave mixing	PLASMA SOURCES SCIENCE & TECHNOLOGY	2016	25	54002	
J	Gerling, Torsten; Brandenburg, Ronny; Wilke, Christian; Weltmann, Klaus-Dieter	Power measurement for an atmospheric pressure plasma jet at different frequencies: distribution in the core plasma and the effluent	EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS	2017	78	10801	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
21	I. Mihaila, V. Pohoata, R. Jijie, <u>A.V. Nastuta</u> , I.A. Rusu, I. Topala	Formation of positive ions in hydrocarbon containing dielectric barrier discharge plasmas	Advances in Space Research	2016	58	2416	1
	Citat in:						

J	Hodoroaba, Bianca; Gerber, Ioana Cristina; Ciubotaru, Delia; Mihaila, Ilarion; Dobromir, Marius; Pohoata, Valentin; Topala, Ionut	Carbon 'fluffy' aggregates produced by helium-hydrocarbon high-pressure plasmas as analogues to interstellar dust	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	2018	481	2841	
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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
22	A.V. Nastuta , I. Topala, V. Pohoata, I. Mihaila, C. Agheorghiesei, N. Dumitrascu	Atmospheric pressure plasma jets in inert gases: electrical, optical and mass spectrometry diagnosis	Romanian Reports in Physics	2017	69	407	2
	Citat in:						
J	Ki, Se Hoon; Sin, Somin; Shin, Jae-Ho; Kwon, Young Wan; Chae, Myoung Won; Uhm, Han Sup; Baik, Ku Youn; Choi, Eun Ha	Hemoglobin as a Diagnosing Molecule for Biological Effects of Atmospheric-Pressure Plasma	PLASMA CHEMISTRY AND PLASMA PROCESSING	2018	38	937	
J	Quang Hung Trinh; Duc Ba Nguyen; Hossain, Md. Mokter; Mok, Young Sun	Deposition of superhydrophobic coatings on glass substrates from hexamethyldisiloxane using a kHz-powered plasma jet	SURFACE & COATINGS TECHNOLOGY	2019	361	377	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
23	C. Gerber, I. Mihaila, D. Hein, A.V. Nastuta , R. Jijie, V. Pohoata, I. Topala	Time Behaviour of Helium Atmospheric Pressure Plasma Jet Electrical and Optical Parameters	Applied Sciences - Basel	2017	7	812	10
	Citat in:						
J	Zhu, Ping; Li, Ben; Duan, Zhengchao; Ouyang, Jiting	Development from dielectric barrier discharge to atmospheric pressure plasma jet in helium: experiment and fluid modeling	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2018	51	405202	

J	Liu, Jingjing; Chen, Dong; Mo, Yijian; Rong, Yi	Electrical and optical characteristics of atmospheric helium jet array plasma	PLASMA SCIENCE & TECHNOLOGY	2019	21	115403	
J	Gidon, Dogan; Pei, Xuekai; Bonzanini, Angelo D.; Graves, David B.; Mesbah, Ali	Machine Learning for Real-Time Diagnostics of Cold Atmospheric Plasma Sources	IEEE TRANSACTIONS ON RADIATION AND PLASMA MEDICAL SCIENCES	2019	3	597	
J	Gidon, Dogan; Graves, David B.; Mesbah, Ali	Predictive control of 2D spatial thermal dose delivery in atmospheric pressure plasma jets	PLASMA SOURCES SCIENCE & TECHNOLOGY	2019	28	85001	
J	Schweigert, I., V; Vagapov, S.; Lin, L.; Keidar, M.	Enhancement of atmospheric plasma jet-target interaction with an external ring electrode	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2019	52	295201	
J	Gidon, Dogan; Graves, David B.; Mesbah, Ali	Spatial thermal dose delivery in atmospheric pressure plasma jets	PLASMA SOURCES SCIENCE & TECHNOLOGY	2019	28	25006	
J	Ananth, Antony; Han, Ihn; Akter, Mahmuda; Boo, Jin-Hyo; Choi, Eun Ha	Handy Soft Jet Plasma as an Effective Technique for Tailored Preparation of ZnS Nanomaterials and Shape Dependent Antibacterial Performance of ZnS	JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY	2020	90	389	
J	Gerber, Ioana Cristina; Mihaila, Ilarion; Pohoata, Valentin; Topala, Ionut	Evolution of Electrical and Optical Parameters of a Helium Plasma Jet in Interaction With Liquids	IEEE TRANSACTIONS ON PLASMA SCIENCE	2021	49	557	
J	Vinoth Kumar, Sri Hari Bharath; Muydinov, Ruslan; Szyszka, Bernd	Plasma Assisted Reduction of Graphene Oxide Films	NANOMATERIALS	2021	11	382	
J	Gidon, Dogan; Abbas, Hossam S.; Bonzanini, Angelo D.; Graves, David B.; Velni, Javad Mohammadpour; Mesbah, Ali	Data-driven LPV model predictive control of a cold atmospheric plasma jet for biomaterials processing	CONTROL ENGINEERING PRACTICE	2021	109	104725	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
24	<u>A. V. Nastuta</u> , C. Agheorghiesei	Monitoring Hand Gesture and Effort Using a Low-Cost Open-Source Microcontroller System Coupled with Force Sensitive Resistors and Electromyography Sensors	Recent Advances in Technology Research and Education. INTER-ACADEMIA 2017. Advances in Intelligent Systems and Computing, Ed. Springer	2017	25	261-269	1
	Citat in:						
C	Huaman Levano, L.A., Huamanchahua, D.	Biomechanical Prosthesis with EMG Signal Acquisition for Patients with Transradial Amputation	2022 IEEE International IOT, Electronics and Mechatronics Conference, IEMTRONICS 2022	2022		1	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
25	A. V. Nastuta, V. Pohoata, I. Mihaila, I. Topala	'Diagnosis of a short-pulse dielectric barrier discharge at atmospheric pressure in helium with hydrogen-methane admixtures	Physics of Plasmas	2018	25	043515	3
	Citat in:						
J	Xu, S. Y.; Kang, L.; Cai, J. S.; Tang, S. J.	Experimental investigation on the optical emission spectroscopy of dielectric barrier discharge plasma actuators at different atmospheric pressures	AIP ADVANCES	2018	8	115033	
J	Wojewodka, Michael M.; White, Craig; Ukai, Takahiro; Russell, Andrew; Kontis, Konstantinos	Pressure dependency on a nanosecond pulsed dielectric barrier discharge plasma actuator	PHYSICS OF PLASMAS	2019	26	63512	

J	Getnet, Tsegaye Gashaw; Kayama, Milton E.; Rangel, Elidiane C.; Cruz, Nilson C.	Thin Film Deposition by Atmospheric Pressure Dielectric Barrier Discharges Containing Eugenol: Discharge and Coating Characterizations	POLYMERS	2020	12	2692	
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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
26	V. Tiron, I.-L. Velicu, A. V. Nastuta , C. Costin, G. Popa, Z. Kechidi, C. Ionita, R. Schrittwieser	Enhanced extraction efficiency of the sputtered material from a magnetically assisted high power impulse hollow cathode	PLASMA SOURCES SCIENCE & TECHNOLOGY	2018	27	085005	3
	Citat in:						
J	Liu, H. Y.; Che, H. L.; Li, G. B.; Lei, M. K.	Low-pressure hollow cathode plasma source carburizing technique at low temperature	SURFACE & COATINGS TECHNOLOGY	2021	422	127511	
J	Costin, Claudiu	Secondary electron emission under magnetic constraint: from Monte Carlo simulations to analytical solution	SCIENTIFIC REPORTS	2021	11	1874	
J	Velicu, I-L; Tiron, V; Petrea, M-A; Popa, G.	New concept of metal ion thruster based on pulsed thermionic vacuum arc discharge	PLASMA SOURCES SCIENCE & TECHNOLOGY	2021	30	15006	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
27	A. V. Nastuta , G. Popa	Surface oxidation and enhanced hydrophilization of polyamide fiber surface after he / ar atmospheric pressure plasma exposure	Romanian Reports in Physics	2019	74	415	2
	Citat in:						

J	Lin, Kun-Mo; Wang, Kai-Cheng; Chang, Yao-Sheng; Chuang, Shun-Yu	Gas Heating Mechanisms in Atmospheric Pressure Helium Dielectric-Barrier Discharges Driven by a kHz Power Source	APPLIED SCIENCES-BASEL	2020	10	7583	
J	Benabderahmane, Ahlem; Zegloul, Thami; Medles, Karim; Tilmatine, Amar; Dascalescu, Lucian	Triboelectric Charging of Granular Polymers Previously Exposed to Dielectric Barrier Discharges in Atmospheric Air	IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS	2020	56	3061	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
28	R. Huzum, <u>A. V. Nastuta</u>	Helium Atmospheric Pressure Plasma Jet Source Treatment of White Grapes Juice for Winemaking	Applied Sciences Basel	2021	11	8498	1
	Citat in:						
J	Li, Sen; Sun, Jiazhen; Sun, Rui; Pan, Jie; Wang, Lin; Chen, Chen; Chen, Qiang; Liu, Zhongwei	Characteristics of Radio Frequency Dielectric Barrier Discharge Using Argon Doped with Nitrogen at Atmospheric Pressure	MATERIALS	2022	15	7647	

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Nr. crt.	Autori	Titlu articol	Jurnal	An	Vol	Pag	citari
29	<u>A. V. Nastuta</u> , T. Gerling	Cold Atmospheric Pressure Plasma Jet Operated in Ar and He: From Basic Plasma Properties to Vacuum Ultraviolet, Electric Field and Safety Thresholds Measurements in Plasma Medicine	Applied Sciences Basel	2022	12	643	5
	Citat in:						

J	do Nascimento, Fellype; Leal, Bruno Silva; Quade, Antje; Kostov, Konstantin Georgiev	Different Radial Modification Profiles Observed on APPJ-Treated Polypropylene Surfaces according to the Distance between Plasma Outlet and Target	POLYMERS	2022	14	4524	
J	Bastin, Orianne; Thulliez, Max; Delchambre, Alain; Deviere, Jacques; Reniers, Francois; Nonclercq, Antoine	Analysis of a nano-pulsed DBD Plasma jet for endoscopy and impact of excitation parameters	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2022	55	415204	
J	Jeon, Hyun Jeong; Jung, Ara; Kim, Hee Jin; Seo, Jeong San; Kim, Jun Young; Yum, Moon Seop; Gweon, Bomi; Lim, Youbong	Enhanced Osteoblast Adhesion and Proliferation on Vacuum Plasma-Treated Implant Surface	APPLIED SCIENCES-BASEL	2022	12	9884	
J	Yin, Xiaowei; Liu, Fengli; Qiu, Wentao; Liu, Can; Guan, Heyuan; Lu, Huihui	Electric Field Sensor Based on High Q Fano Resonance of Nano-Patterned Electro-Optic Materials	PHOTONICS	2022	9	431	
J	Jung, Eun Young; Park, Choon-Sang; Jang, Hyo Jun; Iqbal, Shahzad; Hong, Tae Eun; Shin, Bhum Jae; Choi, Muhan; Tae, Heung-Sik	Optimization of Atmospheric Pressure Plasma Jet with Single-Pin Electrode Configuration and Its Application in Polyaniline Thin Film Growth	POLYMERS	2022	14	1535	

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