

Uros Cvelbar

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

206
papers

5,531
citations

40
h-index

66
g-index

217
ext. papers

6,386
ext. citations

4.5
avg, IF

6.08
L-index

#	Paper	IF	Citations
206	Extraction of nanocellulose fibrils from lignocellulosic fibres: A novel approach. <i>Carbohydrate Polymers</i> , 2011 , 86, 1468-1475	10.3	461
205	Surface modification of polyester by oxygen- and nitrogen-plasma treatment. <i>Surface and Interface Analysis</i> , 2008 , 40, 1444-1453	1.5	215
204	Spontaneous growth of superstructure alpha-Fe ₂ O ₃ nanowire and nanobelt arrays in reactive oxygen plasma. <i>Small</i> , 2008 , 4, 1610-4	11	181
203	Copper oxide nanowires: a review of growth. <i>Nanotechnology</i> , 2012 , 23, 194001	3.4	167
202	A Method for the Rapid Synthesis of Large Quantities of Metal Oxide Nanowires at Low Temperatures. <i>Advanced Materials</i> , 2005 , 17, 2138-2142	24	157
201	Plasma nanoscience: setting directions, tackling grand challenges. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 174001	3	143
200	Influence of oxygen and nitrogen plasma treatment on polyethylene terephthalate (PET) polymers. <i>Vacuum</i> , 2009 , 84, 83-85	3.7	113
199	A comprehensive review on plasmonic-based biosensors used in viral diagnostics. <i>Communications Biology</i> , 2021 , 4, 70	6.7	113
198	From nucleation to nanowires: a single-step process in reactive plasmas. <i>Nanoscale</i> , 2010 , 2, 2012-27	7.7	105
197	Long-Range Ordering of Oxygen-Vacancy Planes in α -Fe ₂ O ₃ Nanowires and Nanobelts. <i>Chemistry of Materials</i> , 2008 , 20, 3224-3228	9.6	100
196	The future for plasma science and technology. <i>Plasma Processes and Polymers</i> , 2019 , 16, 1800118	3.4	93
195	The Role of Crystallinity on Polymer Interaction with Oxygen Plasma. <i>Plasma Processes and Polymers</i> , 2009 , 6, 667-675	3.4	92
194	Nanowire sensor response to reactive gas environment. <i>Applied Physics Letters</i> , 2008 , 92, 133505	3.4	90
193	Photoelectrochemical activity of as-grown, α -Fe ₂ O ₃ nanowire array electrodes for water splitting. <i>Nanotechnology</i> , 2012 , 23, 194009	3.4	87
192	Behaviour of oxygen atoms near the surface of nanostructured Nb ₂ O ₅ . <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 2300-2303	3	84
191	Increased surface roughness by oxygen plasma treatment of graphite/polymer composite. <i>Applied Surface Science</i> , 2003 , 210, 255-261	6.7	74
190	Mycotoxin Decontamination of Food: Cold Atmospheric Pressure Plasma versus "Classic" Decontamination. <i>Toxins</i> , 2017 , 9,	4.9	72

189	Selective Plasma Etching of Polymeric Substrates for Advanced Applications. <i>Nanomaterials</i> , 2016 , 6,	5.4	71
188	Antibiotic-loaded polypropylene surgical meshes with suitable biological behaviour by plasma functionalization and polymerization. <i>Biomaterials</i> , 2015 , 71, 132-144	15.6	67
187	Synergistic effect of gold nanoparticles and cold plasma on glioblastoma cancer therapy. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 335402	3	65
186	Plasma under control: Advanced solutions and perspectives for plasma flux management in material treatment and nanosynthesis. <i>Applied Physics Reviews</i> , 2017 , 4, 041302	17.3	60
185	Plasma-induced selectivity in bone cancer cells death. <i>Free Radical Biology and Medicine</i> , 2017 , 110, 72-80.8	3.8	59
184	Optical emission spectroscopy characterization of oxygen plasma during treatment of a PET foil. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 3799-3804	3	59
183	Reactive oxygen plasma-enabled synthesis of nanostructured CdO: tailoring nanostructures through plasma-surface interactions. <i>Nanotechnology</i> , 2008 , 19, 405605	3.4	58
182	The creation of electric wind due to the electrohydrodynamic force. <i>Nature Communications</i> , 2018 , 9, 371	17.4	54
181	The influence of substrate material on bacteria sterilization in an oxygen plasma glow discharge. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 3487-3493	3	54
180	Non-thermal plasma technology for the development of antimicrobial surfaces: a review. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 204002	3	54
179	Comparison of NO titration and fiber optics catalytic probes for determination of neutral oxygen atom concentration in plasmas and postglows. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2003 , 21, 369-374	2.9	53
178	Inductively coupled RF oxygen plasma characterization by optical emission spectroscopy. <i>Vacuum</i> , 2007 , 82, 224-227	3.7	52
177	White paper on the future of plasma science and technology in plastics and textiles. <i>Plasma Processes and Polymers</i> , 2019 , 16, 1700228	3.4	51
176	Towards large-scale in free-standing graphene and N-graphene sheets. <i>Scientific Reports</i> , 2017 , 7, 101754.9	4.9	51
175	Studies on antibacterial dressings obtained by fluorinated post-discharge plasma. <i>International Journal of Pharmaceutics</i> , 2009 , 367, 155-61	6.5	50
174	Formation of functional groups on graphite during oxygen plasma treatment. <i>Applied Surface Science</i> , 2006 , 253, 1861-1865	6.7	49
173	An Iron Catalytic Probe for Determination of the O-atom Density in an Ar/O ₂ Afterglow. <i>Plasma Chemistry and Plasma Processing</i> , 2006 , 26, 103-117	3.6	49
172	Optical emission spectroscopy characterization of oxygen plasma during degradation of Escherichia coli. <i>Journal of Applied Physics</i> , 2007 , 101, 103305	2.5	43

171	Towards large-scale plasma-assisted synthesis of nanowires. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 174014	3	42
170	Rapid surface functionalization of poly(ethersulphone) foils using a highly reactive oxygen-plasma treatment. <i>Surface and Interface Analysis</i> , 2007 , 39, 476-481	1.5	41
169	Antibacterial activity of nano-silver non-woven fabric prepared by atmospheric pressure plasma deposition. <i>Materials Letters</i> , 2015 , 149, 95-99	3.3	40
168	Degradation of Staphylococcus aureus bacteria by neutral oxygen atoms. <i>Journal of Applied Physics</i> , 2009 , 106, 103303	2.5	40
167	Oriented Carbon Nanostructures by Plasma Processing: Recent Advances and Future Challenges. <i>Micromachines</i> , 2018 , 9,	3.3	40
166	N-Graphene Nanowalls via Plasma Nitrogen Incorporation and Substitution: The Experimental Evidence. <i>Nano-Micro Letters</i> , 2020 , 12, 53	19.5	39
165	Rheology and pressure-volume-temperature behavior of the thermoplastic poly(acrylonitrile-butadiene-styrene)-modified epoxy-DDS system during reaction induced phase separation. <i>Soft Matter</i> , 2011 , 7, 7248	3.6	39
164	Control of morphology and nucleation density of iron oxide nanostructures by electric conditions on iron surfaces exposed to reactive oxygen plasmas. <i>Applied Physics Letters</i> , 2009 , 94, 211502	3.4	39
163	Oxygen plasma functionalization of poly(p-phenylene sulphide). <i>Applied Surface Science</i> , 2007 , 253, 8669-8673	3.7	39
162	A diagnostic method for real-time measurements of the density of nitrogen atoms in the postglow of an Ar ₂ discharge using a catalytic probe. <i>Journal of Applied Physics</i> , 2005 , 97, 103308	2.5	39
161	Engineering of Composite Organosilicon Thin Films with Embedded Silver Nanoparticles via Atmospheric Pressure Plasma Process for Antibacterial Activity. <i>Plasma Processes and Polymers</i> , 2014 , 11, 921-930	3.4	38
160	Influence of a sample surface on single electrode atmospheric plasma jet parameters. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015 , 103-104, 124-130	3.1	37
159	Safety aspects of atmospheric pressure helium plasma jet operation on skin: In vivo study on mouse skin. <i>PLoS ONE</i> , 2017 , 12, e0174966	3.7	37
158	Oxygen plasmas: a sharp chisel and handy trowel for nanofabrication. <i>Nanoscale</i> , 2018 , 10, 17494-17511	17.7	33
157	Comparison of TALIF and catalytic probes for the determination of nitrogen atom density in a nitrogen plasma afterglow. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 055204	3	32
156	Surface-enhanced Raman spectroscopy for chemical and biological sensing using nanoplasmonics: The relevance of interparticle spacing and surface morphology. <i>Applied Physics Reviews</i> , 2020 , 7, 031307	17.3	32
155	Improved Optoelectronic Properties of Silicon Nanocrystals/Polymer Nanocomposites by Microplasma-Induced Liquid Chemistry. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23198-23207	3.8	31
154	Biopolymers for Health, Food, and Cosmetic Applications 2013 , 801-849		30

153	Characterization of oxygen plasma with a fiber optic catalytic probe and determination of recombination coefficients. <i>IEEE Transactions on Plasma Science</i> , 2005 , 33, 834-837	1.3	30
152	Treatment of Hexatriacontane by Ar/D ₂ Remote Plasma: Formation of the Active Species. <i>Plasma Processes and Polymers</i> , 2009 , 6, S198-S203	3.4	28
151	Density of O-atoms in an Afterglow Reactor During Treatment of Wool. <i>Plasma Chemistry and Plasma Processing</i> , 2007 , 27, 404-413	3.6	28
150	Selective oxygen plasma etching of coatings. <i>IEEE Transactions on Plasma Science</i> , 2005 , 33, 236-237	1.3	28
149	Production of N-graphene by microwave N ₂ -Ar plasma. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 055307		27
148	Effective Fungal Spore Inactivation with an Environmentally Friendly Approach Based on Atmospheric Pressure Air Plasma. <i>Environmental Science & Technology</i> , 2019 , 53, 1893-1904	10.3	26
147	Advances in Ultra Low Dielectric Constant Ordered Porous Materials. <i>Electrochemical Society Interface</i> , 2011 , 20, 39-46	3.6	26
146	Reversible carrier-type transitions in gas-sensing oxides and nanostructures. <i>ChemPhysChem</i> , 2010 , 11, 3704-12	3.2	26
145	Mycotoxin Decontamination Efficacy of Atmospheric Pressure Air Plasma. <i>Toxins</i> , 2019 , 11,	4.9	25
144	Formation of vertically oriented graphenes: what are the key drivers of growth?. <i>2D Materials</i> , 2018 , 5, 044002	5.9	25
143	Recent advances in vacuum sciences and applications. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 153003		25
142	Growth dynamics of copper oxide nanowires in plasma at low pressures. <i>Journal of Applied Physics</i> , 2015 , 117, 043304	2.5	24
141	Towards universal plasma-enabled platform for the advanced nanofabrication: plasma physics level approach. <i>Reviews of Modern Plasma Physics</i> , 2018 , 2, 1	5.6	24
140	Enhancing effect of KMnO ₄ oxidation of carbon nanotubes network embedded in elastic polyurethane on overall electro-mechanical properties of composite. <i>Composites Science and Technology</i> , 2013 , 81, 54-60	8.6	24
139	Effect of cold plasma on glial cell morphology studied by atomic force microscopy. <i>PLoS ONE</i> , 2015 , 10, e0119111	3.7	24
138	Characterization of a DC-driven microplasma between a capillary tube and water surface. <i>Europhysics Letters</i> , 2013 , 102, 15002	1.6	23
137	Kinetics of the initial stage of silicon surface oxidation: DealGrove or surface nucleation?. <i>Applied Physics Letters</i> , 2009 , 95, 021502	3.4	23
136	Uniform surface growth of copper oxide nanowires in radiofrequency plasma discharge and limiting factors. <i>Physics of Plasmas</i> , 2014 , 21, 113506	2.1	22

135	Correlation of Morphology and Viscoelastic Properties of Partially Biodegradable Polymer Blends Based on Polyamide 6 and Polylactide Copolyester. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 1432-1442		22
134	Hydrothermal Synthesis of Rare-Earth Modified Titania: Influence on Phase Composition, Optical Properties, and Photocatalytic Activity. <i>Materials</i> , 2019 , 12,	3.5	21
133	Multiple vs. single harmonics AC-driven atmospheric plasma jet. <i>Europhysics Letters</i> , 2014 , 106, 25001	1.6	21
132	Catalytic probes with nanostructured surface for gas/discharge diagnostics: a study of a probe signal behaviour. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 115201	3	21
131	The effect of plasma treatment on structure and properties of poly(1-butene) surface. <i>European Polymer Journal</i> , 2012 , 48, 866-874	5.2	20
130	Characterization and global modelling of low-pressure hydrogen-based RF plasmas suitable for surface cleaning processes. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 475206	3	20
129	Effect of Phase Arrangement on Solid State Mechanical and Thermal Properties of Polyamide 6/Polylactide Based Co-polyester Blends. <i>Journal of Macromolecular Science - Physics</i> , 2012 , 51, 982-1001	1.4	19
128	Carbon nanofiber growth in plasma-enhanced chemical vapor deposition. <i>Journal of Applied Physics</i> , 2008 , 104, 073301	2.5	19
127	Functionalization of polylactic acid through direct melt polycondensation in the presence of tricarboxylic acid. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 1275-1285	2.9	18
126	Plasma as a tool for enhancing insulation properties of polymer composites. <i>RSC Advances</i> , 2015 , 5, 37853-37858	3.7	18
125	Regulating the antibiotic drug release from β-tricalcium phosphate ceramics by atmospheric plasma surface engineering. <i>Biomaterials Science</i> , 2016 , 4, 1454-61	7.4	16
124	Antimicrobial Efficacy of Low Concentration PVP-Silver Nanoparticles Deposited on DBD Plasma-Treated Polyamide 6,6 Fabric. <i>Coatings</i> , 2019 , 9, 581	2.9	16
123	Degradation of Bacteria by Weakly Ionized Highly Dissociated Radio-Frequency Oxygen Plasma. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1300-1301	1.3	16
122	Characterization of hydrogen plasma with a fiber optics catalytic probe. <i>Thin Solid Films</i> , 2005 , 475, 12-16.	2	16
121	Advanced Carbon-Nickel Sulfide Hybrid Nanostructures: Extending the Limits of Battery-Type Electrodes for Redox-Based Supercapacitor Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20559-20572	9.5	16
120	Control of ion density distribution by magnetic traps for plasma electrons. <i>Journal of Applied Physics</i> , 2012 , 112, 073302	2.5	15
119	Argon-Oxygen Post-Discharge Treatment of Hexatriacontane: Heat Transfer between Gas Phase and Sample. <i>Key Engineering Materials</i> , 2008 , 373-374, 421-425	0.4	15
118	AES characterization of thin oxide films growing on Al foil during oxygen plasma treatment. <i>Surface and Interface Analysis</i> , 2004 , 36, 986-988	1.5	15

117	Single-Crystalline Metal Oxide Nanostructures Synthesized by Plasma-Enhanced Thermal Oxidation. <i>Nanomaterials</i> , 2019 , 9,	5.4	14
116	Targeted plasma functionalization of titanium inhibits polymicrobial biofilm recolonization and stimulates cell function. <i>Applied Surface Science</i> , 2019 , 487, 1176-1188	6.7	14
115	Structure and photoluminescence properties of MoO ₃ /graphene nanoflake hybrid nanomaterials formed via surface growth. <i>Applied Surface Science</i> , 2019 , 480, 1054-1062	6.7	14
114	Low-temperature low-power PECVD synthesis of vertically aligned graphene. <i>Nanotechnology</i> , 2020 , 31, 395604	3.4	14
113	Determination of the neutral oxygen atom density in a plasma reactor loaded with metal samples. <i>Plasma Sources Science and Technology</i> , 2009 , 18, 034002	3.5	14
112	Antimicrobial Efficiency and Surface Interactions of Quaternary Ammonium Compound Absorbed on Dielectric Barrier Discharge (DBD) Plasma Treated Fiber-Based Wiping Materials. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 298-311	9.5	14
111	Atmospheric pressure plasma deposition of antimicrobial coatings on non-woven textiles. <i>EPJ Applied Physics</i> , 2016 , 75, 24710	1.1	14
110	Improved fermentation efficiency of <i>S. cerevisiae</i> by changing glycolytic metabolic pathways with plasma agitation. <i>Scientific Reports</i> , 2018 , 8, 8252	4.9	14
109	Destruction of chemical warfare surrogates using a portable atmospheric pressure plasma jet. <i>European Physical Journal D</i> , 2018 , 72, 1	1.3	13
108	Modes of nanotube growth in plasmas and reasons for single-walled structure. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 132004	3	13
107	Bonding process efficiency and Al-flake orientation during the curing of powder coatings. <i>Progress in Organic Coatings</i> , 2005 , 54, 113-119	4.8	13
106	Towards a highly-controllable synthesis of copper oxide nanowires in radio-frequency reactive plasma: fast saturation at the targeted size. <i>Plasma Sources Science and Technology</i> , 2019 , 28, 084002	3.5	13
105	Investigation on the thermal and crystallization behavior of high density polyethylene/acrylonitrile butadiene rubber blends and their composites. <i>Polymer Engineering and Science</i> , 2015 , 55, 1203-1210	2.3	12
104	Sub-oxide-to-metallic, uniformly-nanoporous crystalline nanowires by plasma oxidation and electron reduction. <i>Chemical Communications</i> , 2012 , 48, 11070-2	5.8	12
103	Inductively Coupled RF Oxygen Plasma Studied by Spatially Resolved Optical Emission Spectroscopy. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 1368-1369	1.3	12
102	High sensitivity of a carbon nanowall-based sensor for detection of organic vapours. <i>RSC Advances</i> , 2015 , 5, 90515-90520	3.7	11
101	Plasma-enabled sensing of urea and related amides on polyaniline. <i>Frontiers of Chemical Science and Engineering</i> , 2016 , 10, 265-272	4.5	11
100	Deterministic Surface Growth of Single-Crystalline Iron Oxide Nanostructures in Nonequilibrium Plasma. <i>Crystal Growth and Design</i> , 2008 , 8, 4347-4349	3.5	11

99	Stabilization of liquid instabilities with ionized gas jets. <i>Nature</i> , 2021 , 592, 49-53	50.4	11
98	Environmentally Friendly Processing Technology for Engineering Silicon Nanocrystals in Water with Laser Pulses. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 18822-18830	3.8	11
97	TiN deposition and morphology control by scalable plasma-assisted surface treatments. <i>Materials Chemistry and Physics</i> , 2017 , 188, 143-153	4.4	10
96	Concept of a Magnetically Enhanced Vacuum Arc Thruster With Controlled Distribution of Ion Flux. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 304-310	1.3	10
95	Miniaturized Plasma Sources: Can Technological Solutions Help Electric Micropropulsion?. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 230-238	1.3	10
94	Novel biomaterials: plasma-enabled nanostructures and functions. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 273001	3	10
93	Nanoherding: Plasma-Chemical Synthesis and Electric-Charge-Driven Self Organization of SiO ₂ Nanodots. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 681-6	6.4	10
92	Protein retention on plasma-treated hierarchical nanoscale gold-silver platform. <i>Scientific Reports</i> , 2015 , 5, 13379	4.9	10
91	Non-square-well potential profile and suppression of blinking in compositionally graded Cd(1-x)Zn(x)Se/Cd(x)Zn(1-x)Se nanocrystals. <i>Nanoscale</i> , 2010 , 2, 728-33	7.7	10
90	Smallest Bimetallic CoPt Superparamagnetic Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4039-4046	6.4	10
89	Chemical, Thermo-Mechanical and Antimicrobial Properties of DBD Plasma Treated Disinfectant-Impregnated Wipes during Storage. <i>Polymers</i> , 2019 , 11,	4.5	10
88	Unravelling the pathways of air plasma induced aflatoxin B degradation and detoxification. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123593	12.8	10
87	Reusable Au/Pd-coated chestnut-like copper oxide SERS substrates with ultra-fast self-recovery. <i>Applied Surface Science</i> , 2020 , 517, 146205	6.7	9
86	Interaction of non-equilibrium oxygen plasma with sintered graphite. <i>Applied Surface Science</i> , 2013 , 269, 33-36	6.7	9
85	Atmospheric plasma spray pyrolysis of lithiated nickel-manganese-cobalt oxides for cathodes in lithium ion batteries. <i>Chemical Engineering Science</i> , 2017 , 174, 302-310	4.4	9
84	Built-In Charges and Photoluminescence Stability of 3D Surface-Engineered Silicon Nanocrystals by a Nanosecond Laser and a Direct Current Microplasma. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10939-10948 ⁹	3.8	9
83	Customizing electron confinement in plasma-assembled Si/AlN nanodots for solar cell applications. <i>Physics of Plasmas</i> , 2009 , 16, 123504	2.1	9
82	Hemocompatible Poly(ethylene terephthalate) Polymer Modified via Reactive Plasma Treatment. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08JF02	1.4	9

81	Heterogeneous recombination of neutral oxygen atoms on niobium surface. <i>Applied Surface Science</i> , 2003 , 211, 96-101	6.7	9
80	Improving sensing properties of entangled carbon nanotube-based gas sensors by atmospheric plasma surface treatment. <i>Microelectronic Engineering</i> , 2020 , 232, 111403	2.5	9
79	Effect of Dispersion Solvent on the Deposition of PVP-Silver Nanoparticles onto DBD PlasmaTreated Polyamide 6,6 Fabric and Its Antimicrobial Efficiency. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
78	Synthesis of antibacterial composite coating containing nanocapsules in an atmospheric pressure plasma. <i>Materials Science and Engineering C</i> , 2021 , 119, 111496	8.3	9
77	Solvent-dependent structures and photoluminescence of WO ₃ - nanomaterials grown in nonaqueous solutions. <i>Journal of Alloys and Compounds</i> , 2021 , 854, 157249	5.7	9
76	Cold atmospheric pressure plasma-assisted removal of aflatoxin B 1 from contaminated corn kernels. <i>Plasma Processes and Polymers</i> , 2021 , 18, 2000163	3.4	9
75	Plasma produced photoluminescent molybdenum sub-oxide nanophase materials. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 1167-1173	5.7	9
74	Highly Enhanced Vapor Sensing of Multiwalled Carbon Nanotube Network Sensors byn-Butylamine Functionalization. <i>Journal of Nanomaterials</i> , 2014 , 2014, 1-8	3.2	8
73	Plasma functionalization of titanium surface for repulsion of blood platelets. <i>Surface and Coatings Technology</i> , 2012 , 211, 200-204	4.4	8
72	Treatment and Stability of Sodium Hyaluronate Films in Low Temperature Inductively Coupled Ammonia Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 2012 , 32, 1075-1091	3.6	8
71	Influence of effective pumping speed on oxygen atom density in a plasma post-glow reactor. <i>Vacuum</i> , 2006 , 80, 904-907	3.7	8
70	Graphene Flakes in Arc Plasma: Conditions for the Fast Single-Layer Growth. <i>Graphene</i> , 2016 , 05, 81-89	1.5	8
69	A deterministic approach to the thermal synthesis and growth of 1D metal oxide nanostructures. <i>Applied Surface Science</i> , 2021 , 566, 150619	6.7	8
68	Plasma treatment for next-generation nanobiointerfaces. <i>Biointerphases</i> , 2015 , 10, 029405	1.8	7
67	Selective Plasma Etching of Polyphenolic Composite in O ₂ /Ar Plasma for Improvement of Material Tracking Properties. <i>Plasma Processes and Polymers</i> , 2016 , 13, 737-743	3.4	7
66	Microwave N ₂ -Ar plasmas applied for N-graphene post synthesis. <i>Materials Research Express</i> , 2018 , 5, 095605	1.7	7
65	Effective Control of the Arc Discharge-Generated Plasma Jet by Smartly Designed Magnetic Fields. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 2464-2465	1.3	7
64	Plasma control of morpho-dimensional selectivity of hematite nanostructures. <i>Applied Physics Letters</i> , 2012 , 100, 243103	3.4	7

63	Corrosion studies of plasma modified magnesium alloy in simulated body fluid (SBF) solutions. <i>Surface and Coatings Technology</i> , 2020 , 385, 125434	4.4	6
62	On diagnostics of annular-shape radio-frequency plasma jet operating in argon in atmospheric conditions. <i>Plasma Sources Science and Technology</i> , 2020 , 29, 035027	3.5	6
61	Plasma properties in a large-volume, cylindrical and asymmetric radio-frequency capacitively coupled industrial-prototype reactor. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 075201	3	6
60	Molecular Transport of Aromatic Solvents through Oil Palm Micro Fiber Filled Natural Rubber Composites: Role of Fiber Content and Interface Adhesion on Transport. <i>Journal of Adhesion Science and Technology</i> , 2012 , 26, 271-288	2	6
59	HETEROGENEOUS RECOMBINATION OF O ATOMS ON METAL SURFACES. <i>International Journal of Nanoscience</i> , 2007 , 06, 121-124	0.6	6
58	Tackling chemical etching and its mechanisms of polyphenolic composites in various reactive low temperature plasmas. <i>RSC Advances</i> , 2016 , 6, 95120-95128	3.7	6
57	Efficient silver nanoparticles deposition method on DBD plasma-treated polyamide 6,6 for antimicrobial textiles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 460, 012007	0.4	6
56	Plasma effects on the bacteria <i>Escherichia coli</i> via two evaluation methods. <i>Plasma Science and Technology</i> , 2017 , 19, 075504	1.5	5
55	Atmospheric Pressure Plasma Deposition of Organosilicon Thin Films by Direct Current and Radio-frequency Plasma Jets. <i>Materials</i> , 2020 , 13,	3.5	5
54	Interaction of Oxygen Species With Graphene and Pyrolytic-Graphite Surfaces. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2812-2813	1.3	5
53	Interaction of Oxygen Plasma With Aluminium Substrates. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 868-869	1.3	5
52	Oxygen plasma etching of a two-component clear coating. <i>Vacuum</i> , 2005 , 80, 189-192	3.7	5
51	Microplasma Induced Cell Morphological Changes and Apoptosis of Ex Vivo Cultured Human Anterior Lens Epithelial Cells - Relevance to Capsular Opacification. <i>PLoS ONE</i> , 2016 , 11, e0165883	3.7	5
50	Atmospheric-Pressure Plasma Spray Deposition of Silver/HMDSO Nanocomposite on Polyamide 6,6 with Controllable Antibacterial Activity. <i>AATCC Journal of Research</i> , 2020 , 7, 1-6	1	5
49	Hemocompatible Poly(ethylene terephthalate) Polymer Modified via Reactive Plasma Treatment. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 08JF02	1.4	5
48	Prospects for microwave plasma synthesized N-graphene in secondary electron emission mitigation applications. <i>Scientific Reports</i> , 2020 , 10, 13013	4.9	5
47	Nanostructure conversion and enhanced photoluminescence of vacancy engineered substoichiometric tungsten oxide nanomaterials. <i>Materials Chemistry and Physics</i> , 2021 , 262, 124311	4.4	5
46	Engineering the penetration depth of nearly guided wave surface plasmon resonance towards application in bacterial cells monitoring. <i>Sensors and Actuators B: Chemical</i> , 2021 , 345, 130338	8.5	5

45	Plasma-inspired biomaterials. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 040201	3	4
44	Counter-propagating streamers in an atmospheric-pressure helium plasma jet. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 205201	3	4
43	Mechanisms of hydrophobization of polymeric composites etched in CF ₄ plasma. <i>Surface and Interface Analysis</i> , 2017 , 49, 334-339	1.5	4
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