Uros Cvelbar

List of Publications by Year in Descending Order

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	Hydrophilic to hydrophobic: Ultrafast conversion of cellulose nanofibrils by cold plasma fluorination. *Applied Surface Science*, **2022**, 581, 152276	6.7	3
205	Tuned structures and enhanced photoluminescence of WO3- nanomaterials by TiO2. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2022**, 275, 115516	3.1	2
204	Helium atmospheric pressure plasma jet parameters and their influence on bacteria deactivation in a medium. *European Physical Journal D*, **2022**, 76, 1	1.3	
203	Atmospheric pressure plasma jet-mouse skin interaction: Mitigation of damages by liquid interface and gas flow control.. *Biointerphases*, **2022**, 17, 021004	1.8	
202	Stabilization of Silver Nanoparticles on Polyester Fabric Using Organo-Matrices for Controlled Antimicrobial Performance.. *Polymers*, **2022**, 14,	4.5	3
201	Degradation of bisphenol A and S in wastewater during cold atmospheric pressure plasma treatment.. *Science of the Total Environment*, **2022**, 837, 155707	10.2	0
200	Label-Free Mycotoxin Raman Identification by High-Performing Plasmonic Vertical Carbon Nanostructures. *Small*, **2021**, 17, e2103677	11	4
199	Advancing Li-ion storage performance with hybrid vertical carbon/Ni3S2-based electrodes. *Journal of Energy Chemistry*, **2021**, 67, 8-8	12	3
198	N-Graphene-Metal-oxide(sulfide) Hybrid Nanostructures: Single-Step Plasma-Enabled Approach for Energy Storage Applications. *Chemical Engineering Journal*, **2021**, 133153	14.7	3
197	Stabilization of liquid instabilities with ionized gas jets. *Nature*, **2021**, 592, 49-53	50.4	11
196	Advanced Carbon-Nickel Sulfide Hybrid Nanostructures: Extending the Limits of Battery-Type Electrodes for Redox-Based Supercapacitor Applications. *ACS Applied Materials & Interfaces*, **2021**, 13, 20559-20572	9.5	16
195	Nanostructure conversion and enhanced photoluminescence of vacancy engineered substoichiometric tungsten oxide nanomaterials. *Materials Chemistry and Physics*, **2021**, 262, 124311	4.4	5
194	Unravelling the pathways of air plasma induced aflatoxin B degradation and detoxification. *Journal of Hazardous Materials*, **2021**, 403, 123593	12.8	10
193	Synthesis of antibacterial composite coating containing nanocapsules in an atmospheric pressure plasma. *Materials Science and Engineering C*, **2021**, 119, 111496	8.3	9
192	Solvent-dependent structures and photoluminescence of WO3- nanomaterials grown in nonaqueous solutions. *Journal of Alloys and Compounds*, **2021**, 854, 157249	5.7	9
191	Cold atmospheric pressure plasma-assisted removal of aflatoxin B 1 from contaminated corn kernels. *Plasma Processes and Polymers*, **2021**, 18, 2000163	3.4	9
190	Analysing Mouse Skin Cell Behaviour under a Non-Thermal kHz Plasma Jet. *Applied Sciences (Switzerland)*, **2021**, 11, 1266	2.6	2

189	A comprehensive review on plasmonic-based biosensors used in viral diagnostics. *Communications Biology*, **2021**, 4, 70	6.7	113
188	Plasma Damage Control: From Biomolecules to Cells and Skin. *ACS Applied Materials & Interfaces*, **2021**, 13, 46303-46316	9.5	1
187	Selectivity of direct plasma treatment and plasma-conditioned media in bone cancer cell lines. *Scientific Reports*, **2021**, 11, 17521	4.9	1
186	Engineering the penetration depth of nearly guided wave surface plasmon resonance towards application in bacterial cells monitoring. *Sensors and Actuators B: Chemical*, **2021**, 345, 130338	8.5	5
185	Single-step synthesis of TiO2/WO3 hybrid nanomaterials in ethanoic acid: Structure and photoluminescence properties. *Applied Surface Science*, **2021**, 562, 150180	6.7	0
184	Thermal stability studies of plasma deposited hydrogenated carbon nitride nanostructures. *Carbon*, **2021**, 184, 82-90	10.4	
183	A deterministic approach to the thermal synthesis and growth of 1D metal oxide nanostructures. *Applied Surface Science*, **2021**, 566, 150619	6.7	8
182	Customization of Sn2P2S6 ferroelectrics by post-growth solid-state diffusion doping. *Journal of Materials Chemistry C*, **2020**, 8, 9975-9985	7.1	2
181	Atmospheric Pressure Plasma Deposition of Organosilicon Thin Films by Direct Current and Radio-frequency Plasma Jets. *Materials*, **2020**, 13,	3.5	5
180	N-Graphene Nanowalls via Plasma Nitrogen Incorporation and Substitution: The Experimental Evidence. *Nano-Micro Letters*, **2020**, 12, 53	19.5	39
179	Low-temperature low-power PECVD synthesis of vertically aligned graphene. *Nanotechnology*, **2020**, 31, 395604	3.4	14
178	Corrosion studies of plasma modified magnesium alloy in simulated body fluid (SBF) solutions. *Surface and Coatings Technology*, **2020**, 385, 125434	4.4	6
177	On diagnostics of annular-shape radio-frequency plasma jet operating in argon in atmospheric conditions. *Plasma Sources Science and Technology*, **2020**, 29, 035027	3.5	6
176	Reusable Au/Pd-coated chestnut-like copper oxide SERS substrates with ultra-fast self-recovery. *Applied Surface Science*, **2020**, 517, 146205	6.7	9
175	Atmospheric-Pressure Plasma Spray Deposition of Silver/HMDSO Nanocomposite on Polyamide 6,6 with Controllable Antibacterial Activity. *AATCC Journal of Research*, **2020**, 7, 1-6	1	5
174	Effects of tungsten doping on structure and photoluminescence of MoO3 nanomaterials. *Journal Physics D: Applied Physics*, **2020**, 53, 415109	3	1
173	From nanoparticles to nanofilms: exploring effects of Zn addition for nanostructure modification and photoluminescence intensification of MoO3 nanomaterials. *Journal Physics D: Applied Physics* , **2020**, 53, 095101	3	2
172	Antimicrobial Efficiency and Surface Interactions of Quaternary Ammonium Compound Absorbed on Dielectric Barrier Discharge (DBD) Plasma Treated Fiber-Based Wiping Materials. *ACS Applied Materials & Interfaces*, **2020**, 12, 298-311	9.5	14

171	Broadband Microwave Signal Dissipation in Nanostructured Copper Oxide at Air-Film Interface. *Electroanalysis*, **2020**, 32, 2795	3	0
170	Improving sensing properties of entangled carbon nanotube-based gas sensors by atmospheric plasma surface treatment. *Microelectronic Engineering*, **2020**, 232, 111403	2.5	9
169	Prospects for microwave plasma synthesized N-graphene in secondary electron emission mitigation applications. *Scientific Reports*, **2020**, 10, 13013	4.9	5
168	Controlling oxygen vacancies of WO suboxides by ZnWO4 nanophase hybridization. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2020**, 262, 114706	3.1	3
167	Surface-enhanced Raman spectroscopy for chemical and biological sensing using nanoplasmonics: The relevance of interparticle spacing and surface morphology. *Applied Physics Reviews*, **2020**, 7, 031307	17.3	32
166	Oriented Carbon Nanostructures from Plasma Reformed Resorcinol-Formaldehyde Polymer Gels for Gas Sensor Applications. *Nanomaterials*, **2020**, 10,	5.4	1
165	Effect of Dispersion Solvent on the Deposition of PVP-Silver Nanoparticles onto DBD PlasmaTreated Polyamide 6,6 Fabric and Its Antimicrobial Efficiency. *Nanomaterials*, **2020**, 10,	5.4	9
164	Transparent elongation and compressive strain sensors based on aligned carbon nanowalls embedded in polyurethane. *Sensors and Actuators A: Physical*, **2020**, 306, 111946	3.9	2
163	Single-Crystalline Metal Oxide Nanostructures Synthesized by Plasma-Enhanced Thermal Oxidation. *Nanomaterials*, **2019**, 9,	5.4	14
162	Effective Fungal Spore Inactivation with an Environmentally Friendly Approach Based on Atmospheric Pressure Air Plasma. *Environmental Science & Technology*, **2019**, 53, 1893-1904	10.3	26
161	Ascertaining the factors that influence the vapor sensor response: The entire case of MWCNT network sensor. *Sensors and Actuators B: Chemical*, **2019**, 283, 478-486	8.5	3
160	Targeted plasma functionalization of titanium inhibits polymicrobial biofilm recolonization and stimulates cell function. *Applied Surface Science*, **2019**, 487, 1176-1188	6.7	14
159	Tailoring electrical conductivity of two dimensional nanomaterials using plasma for edge electronics: A mini review. *Frontiers of Chemical Science and Engineering*, **2019**, 13, 427-443	4.5	0
158	Mycotoxin Decontamination Efficacy of Atmospheric Pressure Air Plasma. *Toxins*, **2019**, 11,	4.9	25
157	Hydrothermal Synthesis of Rare-Earth Modified Titania: Influence on Phase Composition, Optical Properties, and Photocatalytic Activity. *Materials*, **2019**, 12,	3.5	21
156	Structure and photoluminescence properties of MoO3−x/graphene nanoflake hybrid nanomaterials formed via surface growth. *Applied Surface Science*, **2019**, 480, 1054-1062	6.7	14
155	White paper on the future of plasma science and technology in plastics and textiles. *Plasma Processes and Polymers*, **2019**, 16, 1700228	3.4	51
154	Antimicrobial Efficacy of Low Concentration PVP-Silver Nanoparticles Deposited on DBD Plasma-Treated Polyamide 6,6 Fabric. *Coatings*, **2019**, 9, 581	2.9	16

153	Chemical, Thermo-Mechanical and Antimicrobial Properties of DBD Plasma Treated Disinfectant-Impregnated Wipes during Storage. *Polymers*, **2019**, 11,	4.5	10
152	Towards a highly-controllable synthesis of copper oxide nanowires in radio-frequency reactive plasma: fast saturation at the targeted size. *Plasma Sources Science and Technology*, **2019**, 28, 084002	3.5	13
151	Atmospheric pressure plasma jet□assisted impregnation of gold nanoparticles into PVC polymer for various applications. *International Journal of Advanced Manufacturing Technology*, **2019**, 101, 927-938	3.2	3
150	Selective Plasma Etching of Polymers and Polymer Matrix Composites **2019**, 241-259		3
149	The future for plasma science and technology. *Plasma Processes and Polymers*, **2019**, 16, 1800118	3.4	93
148	Towards universal plasma-enabled platform for the advanced nanofabrication: plasma physics level approach. *Reviews of Modern Plasma Physics*, **2018**, 2, 1	5.6	24
147	Concept of a Magnetically Enhanced Vacuum Arc Thruster With Controlled Distribution of Ion Flux. *IEEE Transactions on Plasma Science*, **2018**, 46, 304-310	1.3	10
146	Miniaturized Plasma Sources: Can Technological Solutions Help Electric Micropropulsion?. *IEEE Transactions on Plasma Science*, **2018**, 46, 230-238	1.3	10
145	The creation of electric wind due to the electrohydrodynamic force. *Nature Communications*, **2018**, 9, 371	17.4	54
144	Destruction of chemical warfare surrogates using a portable atmospheric pressure plasma jet. *European Physical Journal D*, **2018**, 72, 1	1.3	13
143	Nanocarbon phase transformations controlled by solubility of carbon species in gold nanoparticles. *Diamond and Related Materials*, **2018**, 88, 282-289	3.5	2
142	Formation of vertically oriented graphenes: what are the key drivers of growth?. *2D Materials*, **2018** , 5, 044002	5.9	25
141	Microwave N2-Ar plasmas applied for N-graphene post synthesis. *Materials Research Express*, **2018**, 5, 095605	1.7	7
140	Efficient silver nanoparticles deposition method on DBD plasma-treated polyamide 6,6 for antimicrobial textiles. *IOP Conference Series: Materials Science and Engineering*, **2018**, 460, 012007	0.4	6
139	Oriented Carbon Nanostructures by Plasma Processing: Recent Advances and Future Challenges. *Micromachines*, **2018**, 9,	3.3	40
138	Oxygen plasmas: a sharp chisel and handy trowel for nanofabrication. *Nanoscale*, **2018**, 10, 17494-17511	7.7	33
137	Improved fermentation efficiency of S. cerevisiae by changing glycolytic metabolic pathways with plasma agitation. *Scientific Reports*, **2018**, 8, 8252	4.9	14
136	Plasma produced photoluminescent molybdenum sub-oxide nanophase materials. *Journal of Alloys and Compounds*, **2018**, 765, 1167-1173	5.7	9

135	Plasma-inspired biomaterials. *Journal Physics D: Applied Physics*, **2017**, 50, 040201	3	4
134	Counter-propagating streamers in an atmospheric-pressure helium plasma jet. *Journal Physics D: Applied Physics*, **2017**, 50, 205201	3	4
133	(Invited) Plasma Deposition of Antibacterial Nano-Coatings on Polymeric Materials. *ECS Transactions*, **2017**, 77, 53-61	1	
132	Plasma effects on the bacteriaEscherichia colivia two evaluation methods. *Plasma Science and Technology*, **2017**, 19, 075504	1.5	5
131	Plasma-induced selectivity in bone cancer cells death. *Free Radical Biology and Medicine*, **2017**, 110, 72-80	7.8	59
130	TiN deposition and morphology control by scalable plasma-assisted surface treatments. *Materials Chemistry and Physics*, **2017**, 188, 143-153	4.4	10
129	Atmospheric plasma spray pyrolysis of lithiated nickel-manganese-cobalt oxides for cathodes in lithium ion batteries. *Chemical Engineering Science*, **2017**, 174, 302-310	4.4	9
128	Towards large-scale in free-standing graphene and N-graphene sheets. *Scientific Reports*, **2017**, 7, 10175	4.9	51
127	Plasma under control: Advanced solutions and perspectives for plasma flux management in material treatment and nanosynthesis. *Applied Physics Reviews*, **2017**, 4, 041302	17.3	60
126	Mechanisms of hydrophobization of polymeric composites etched in CF4 plasma. *Surface and Interface Analysis*, **2017**, 49, 334-339	1.5	4
125	Double dielectric barrier (DBD) plasma-assisted deposition of chemical stabilized nanoparticles on polyamide 6,6 and polyester fabrics. *IOP Conference Series: Materials Science and Engineering*, **2017**, 254, 102010	0.4	2
124	Mycotoxin Decontamination of Food: Cold Atmospheric Pressure Plasma versus "Classic" Decontamination. *Toxins*, **2017**, 9,	4.9	72
123	Safety aspects of atmospheric pressure helium plasma jet operation on skin: In vivo study on mouse skin. *PLoS ONE*, **2017**, 12, e0174966	3.7	37
122	Regulating the antibiotic drug release from tricalcium phosphate ceramics by atmospheric plasma surface engineering. *Biomaterials Science*, **2016**, 4, 1454-61	7.4	16
121	Plasma-enabled sensing of urea and related amides on polyaniline. *Frontiers of Chemical Science and Engineering*, **2016**, 10, 265-272	4.5	11
120	Novel biomaterials: plasma-enabled nanostructures and functions. *Journal Physics D: Applied Physics*, **2016**, 49, 273001	3	10
119	Selective Plasma Etching of Polyphenolic Composite in O2/Ar Plasma for Improvement of Material Tracking Properties. *Plasma Processes and Polymers*, **2016**, 13, 737-743	3.4	7
118	Production of N-graphene by microwave N2-Ar plasma. *Journal Physics D: Applied Physics*, **2016**, 49, 055307	3	27

117	Microplasma Induced Cell Morphological Changes and Apoptosis of Ex Vivo Cultured Human Anterior Lens Epithelial Cells - Relevance to Capsular Opacification. *PLoS ONE*, **2016**, 11, e0165883	3.7	5
116	Graphene Flakes in Arc Plasma: Conditions for the Fast Single-Layer Growth. *Graphene*, **2016**, 05, 81-89	1.5	8
115	Selective Plasma Etching of Polymeric Substrates for Advanced Applications. *Nanomaterials*, **2016**, 6,	5.4	71
114	The Influence of Discharge Capillary Size, Distance, and Gas Composition on the Non-Equilibrium State of Microplasma. *Plasma Processes and Polymers*, **2016**, 13, 690-697	3.4	4
113	Atmospheric pressure plasma deposition of antimicrobial coatings on non-woven textiles. *EPJ Applied Physics*, **2016**, 75, 24710	1.1	14
112	Non-thermal plasma technology for the development of antimicrobial surfaces: a review. *Journal Physics D: Applied Physics*, **2016**, 49, 204002	3	54
111	Smallest Bimetallic CoPt Superparamagnetic Nanoparticles. *Journal of Physical Chemistry Letters*, **2016**, 7, 4039-4046	6.4	10
110	Tackling chemical etching and its mechanisms of polyphenolic composites in various reactive low temperature plasmas. *RSC Advances*, **2016**, 6, 95120-95128	3.7	6
109	Environmentally Friendly Processing Technology for Engineering Silicon Nanocrystals in Water with Laser Pulses. *Journal of Physical Chemistry C*, **2016**, 120, 18822-18830	3.8	11
108	Growth dynamics of copper oxide nanowires in plasma at low pressures. *Journal of Applied Physics*, **2015**, 117, 043304	2.5	24
107	Role of pressure in transport of F- ions in BF3 gas for technological applications. *FME Transactions*, **2015**, 43, 168-172	1.6	1
106	Plasma treatment for next-generation nanobiointerfaces. *Biointerphases*, **2015**, 10, 029405	1.8	7
105	Plasma as a tool for enhancing insulation properties of polymer composites. *RSC Advances*, **2015**, 5, 37853-37858	3.7	18
104	Antibacterial activity of nano-silver non-woven fabric prepared by atmospheric pressure plasma deposition. *Materials Letters*, **2015**, 149, 95-99	3.3	40
103	High sensitivity of a carbon nanowall-based sensor for detection of organic vapours. *RSC Advances*, **2015**, 5, 90515-90520	3.7	11
102	Antibiotic-loaded polypropylene surgical meshes with suitable biological behaviour by plasma functionalization and polymerization. *Biomaterials*, **2015**, 71, 132-144	15.6	67
101	Effect of dissipated power due to antenna resistive heating on E- to H-mode transition in inductively coupled oxygen plasma. *Indian Journal of Physics*, **2015**, 89, 635-640	1.4	
100	Investigation on the thermal and crystallization behavior of high density polyethylene/acrylonitrile butadiene rubber blends and their composites. *Polymer Engineering and Science*, **2015**, 55, 1203-1210	2.3	12

99	Protein retention on plasma-treated hierarchical nanoscale gold-silver platform. *Scientific Reports*, **2015**, 5, 13379	4.9	10
98	Hybrid Carbon-Based Nanostructured Platforms for the Advanced Bioreactors. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 10074-90	1.3	2
97	Influence of a sample surface on single electrode atmospheric plasma jet parameters. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2015**, 103-104, 124-130	3.1	37
96	Effect of cold plasma on glial cell morphology studied by atomic force microscopy. *PLoS ONE*, **2015**, 10, e0119111	3.7	24
95	Recent advances in vacuum sciences and applications. *Journal Physics D: Applied Physics*, **2014**, 47, 153001	3	25
94	Multiple vs. single harmonics AC-driven atmospheric plasma jet. *Europhysics Letters*, **2014**, 106, 25001	1.6	21
93	Effective Control of the Arc Discharge-Generated Plasma Jet by Smartly Designed Magnetic Fields. *IEEE Transactions on Plasma Science*, **2014**, 42, 2464-2465	1.3	7
92	Imaging of the Asymmetric DC Discharge: Visualization to Adjust Plasma in the Novel PECVD Reactor. *IEEE Transactions on Plasma Science*, **2014**, 42, 2564-2565	1.3	3
91	Engineering of Composite Organosilicon Thin Films with Embedded Silver Nanoparticles via Atmospheric Pressure Plasma Process for Antibacterial Activity. *Plasma Processes and Polymers*, **2014**, 11, 921-930	3.4	38
90	Synergistic effect of gold nanoparticles and cold plasma on glioblastoma cancer therapy. *Journal Physics D: Applied Physics*, **2014**, 47, 335402	3	65
89	Uniform surface growth of copper oxide nanowires in radiofrequency plasma discharge and limiting factors. *Physics of Plasmas*, **2014**, 21, 113506	2.1	22
88	Highly Enhanced Vapor Sensing of Multiwalled Carbon Nanotube Network Sensors byn-Butylamine Functionalization. *Journal of Nanomaterials*, **2014**, 2014, 1-8	3.2	8
87	Plasma properties in a large-volume, cylindrical and asymmetric radio-frequency capacitively coupled industrial-prototype reactor. *Journal Physics D: Applied Physics*, **2013**, 46, 075201	3	6
86	Nanoherding: Plasma-Chemical Synthesis and Electric-Charge-Driven Self Organization of SiO2 Nanodots. *Journal of Physical Chemistry Letters*, **2013**, 4, 681-6	6.4	10
85	Interaction of non-equilibrium oxygen plasma with sintered graphite. *Applied Surface Science*, **2013**, 269, 33-36	6.7	9
84	Improved Optoelectronic Properties of Silicon Nanocrystals/Polymer Nanocomposites by Microplasma-Induced Liquid Chemistry. *Journal of Physical Chemistry C*, **2013**, 117, 23198-23207	3.8	31
83	Characterization and global modelling of low-pressure hydrogen-based RF plasmas suitable for surface cleaning processes. *Journal Physics D: Applied Physics*, **2013**, 46, 475206	3	20
82	Biopolymers for Health, Food, and Cosmetic Applications **2013**, 801-849		30

81	Built-In Charges and Photoluminescence Stability of 3D Surface-Engineered Silicon Nanocrystals by a Nanosecond Laser and a Direct Current Microplasma. *Journal of Physical Chemistry C*, **2013**, 117, 10939-10948	3.8	9
80	Enhancing effect of KMnO4 oxidation of carbon nanotubes network embedded in elastic polyurethane on overall electro-mechanical properties of composite. *Composites Science and Technology*, **2013**, 81, 54-60	8.6	24
79	Plasma Treatment as a Way of Increasing the Selectivity of Carbon Nanotube Networks for Organic Vapor Sensing Elements. *Key Engineering Materials*, **2013**, 543, 410-413	0.4	
78	Characterization of a DC-driven microplasma between a capillary tube and water surface. *Europhysics Letters*, **2013**, 102, 15002	1.6	23
77	The effect of plasma treatment on structure and properties of poly(1-butene) surface. *European Polymer Journal*, **2012**, 48, 866-874	5.2	20
76	Plasma functionalization of titanium surface for repulsion of blood platelets. *Surface and Coatings Technology*, **2012**, 211, 200-204	4.4	8
75	Treatment and Stability of Sodium Hyaluronate Films in Low Temperature Inductively Coupled Ammonia Plasma. *Plasma Chemistry and Plasma Processing*, **2012**, 32, 1075-1091	3.6	8
74	Sub-oxide-to-metallic, uniformly-nanoporous crystalline nanowires by plasma oxidation and electron reduction. *Chemical Communications*, **2012**, 48, 11070-2	5.8	12
73	Molecular Transport of Aromatic Solvents through Oil Palm Micro Fiber Filled Natural Rubber Composites: Role of Fiber Content and Interface Adhesion on Transport. *Journal of Adhesion Science and Technology*, **2012**, 26, 271-288	2	6
72	Copper oxide nanowires: a review of growth. *Nanotechnology*, **2012**, 23, 194001	3.4	167
71	Photoelectrochemical activity of as-grown, □Fe2O3 nanowire array electrodes for water splitting. *Nanotechnology*, **2012**, 23, 194009	3.4	87
70	Correlation of Morphology and Viscoelastic Properties of Partially Biodegradable Polymer Blends Based on Polyamide 6 and Polylactide Copolyester. *Polymer-Plastics Technology and Engineering*, **2012**, 51, 1432-1442		22
69	Control of ion density distribution by magnetic traps for plasma electrons. *Journal of Applied Physics*, **2012**, 112, 073302	2.5	15
68	Effect of Phase Arrangement on Solid State Mechanical and Thermal Properties of Polyamide 6/Polylactide Based Co-polyester Blends. *Journal of Macromolecular Science - Physics*, **2012**, 51, 982-1001	1.4	19
67	Plasma control of morpho-dimensional selectivity of hematite nanostructures. *Applied Physics Letters*, **2012**, 100, 243103	3.4	7
66	Tetragonal or monoclinic ZrO2 thin films from Zr-based glassy templates. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2012**, 30, 051510	2.9	2
65	Plasma nanoscience: setting directions, tackling grand challenges. *Journal Physics D: Applied Physics*, **2011**, 44, 174001	3	143
64	Rheology and pressure□volume□emperature behavior of the thermoplastic poly(acrylonitrile-butadiene-styrene)-modified epoxy-DDS system during reaction induced phase separation. *Soft Matter*, **2011**, 7, 7248	3.6	39

63	Towards large-scale plasma-assisted synthesis of nanowires. *Journal Physics D: Applied Physics*, **2011**, 44, 174014	3	42
62	Advances in Ultra Low Dielectric Constant Ordered Porous Materials. *Electrochemical Society Interface*, **2011**, 20, 39-46	3.6	26
61	Extraction of nanocellulose fibrils from lignocellulosic fibres: A novel approach. *Carbohydrate Polymers*, **2011**, 86, 1468-1475	10.3	461
60	Functionalization of polylactic acid through direct melt polycondensation in the presence of tricarboxylic acid. *Journal of Applied Polymer Science*, **2011**, 122, 1275-1285	2.9	18
59	Hemocompatible Poly(ethylene terephthalate) Polymer Modified via Reactive Plasma Treatment. *Japanese Journal of Applied Physics*, **2011**, 50, 08JF02	1.4	9
58	Etching of Bacterial Capsule and Cell Wall by Oxygen Plasma Afterglow. *IEEE Transactions on Plasma Science*, **2011**, 39, 2972-2973	1.3	1
57	Interaction of Oxygen Species With Graphene and Pyrolytic-Graphite Surfaces. *IEEE Transactions on Plasma Science*, **2011**, 39, 2812-2813	1.3	5
56	Hemocompatible Poly(ethylene terephthalate) Polymer Modified via Reactive Plasma Treatment. *Japanese Journal of Applied Physics*, **2011**, 50, 08JF02	1.4	5
55	Transport coefficients for electron scattering in CF 4 /Ar/O 2 mixtures with a significant presence of F x or CF x radicals. *Europhysics Letters*, **2010**, 91, 55001	1.6	4
54	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. *Nanoscale*, **2010**, 2, 728-33	7.7	10
53	Environmentally friendly plasma-based surface engineering technologies. *Journal of Physics: Conference Series*, **2010**, 207, 012009	0.3	1
52	From nucleation to nanowires: a single-step process in reactive plasmas. *Nanoscale*, **2010**, 2, 2012-27	7.7	105
51	Reversible carrier-type transitions in gas-sensing oxides and nanostructures. *ChemPhysChem*, **2010**, 11, 3704-12	3.2	26
50	Modeling of Electron Kinetics in BF3. *Acta Physica Polonica A*, **2010**, 117, 748-751	0.6	3
49	Control of morphology and nucleation density of iron oxide nanostructures by electric conditions on iron surfaces exposed to reactive oxygen plasmas. *Applied Physics Letters*, **2009**, 94, 211502	3.4	39
48	Customizing electron confinement in plasma-assembled Si/AlN nanodots for solar cell applications. *Physics of Plasmas*, **2009**, 16, 123504	2.1	9
47	Kinetics of the initial stage of silicon surface oxidation: Deal□Grove or surface nucleation?. *Applied Physics Letters*, **2009**, 95, 021502	3.4	23
46	Comparison of TALIF and catalytic probes for the determination of nitrogen atom density in a nitrogen plasma afterglow. *Journal Physics D: Applied Physics*, **2009**, 42, 055204	3	32

45	The Role of Crystallinity on Polymer Interaction with Oxygen Plasma. *Plasma Processes and Polymers*, **2009**, 6, 667-675	3.4	92
44	Treatment of Hexatriacontane by Ar□O2 Remote Plasma: Formation of the Active Species. *Plasma Processes and Polymers*, **2009**, 6, S198-S203	3.4	28
43	Studies on antibacterial dressings obtained by fluorinated post-discharge plasma. *International Journal of Pharmaceutics*, **2009**, 367, 155-61	6.5	50
42	Influence of oxygen and nitrogen plasma treatment on polyethylene terephthalate (PET) polymers. *Vacuum*, **2009**, 84, 83-85	3.7	113
41	Determination of the neutral oxygen atom density in a plasma reactor loaded with metal samples. *Plasma Sources Science and Technology*, **2009**, 18, 034002	3.5	14
40	Degradation of Staphylococcus aureus bacteria by neutral oxygen atoms. *Journal of Applied Physics*, **2009**, 106, 103303	2.5	40
39	Reactive oxygen plasma-enabled synthesis of nanostructured CdO: tailoring nanostructures through plasma-surface interactions. *Nanotechnology*, **2008**, 19, 405605	3.4	58
38	Long-Range Ordering of Oxygen-Vacancy Planes in □Fe2O3 Nanowires and Nanobelts. *Chemistry of Materials*, **2008**, 20, 3224-3228	9.6	100
37	Interaction of Oxygen Plasma With Aluminium Substrates. *IEEE Transactions on Plasma Science*, **2008**, 36, 868-869	1.3	5
36	Carbon nanofiber growth in plasma-enhanced chemical vapor deposition. *Journal of Applied Physics*, **2008**, 104, 073301	2.5	19
35	Nanowire sensor response to reactive gas environment. *Applied Physics Letters*, **2008**, 92, 133505	3.4	90
34	Catalytic probes with nanostructured surface for gas/discharge diagnostics: a study of a probe signal behaviour. *Journal Physics D: Applied Physics*, **2008**, 41, 115201	3	21
33	Degradation of Bacteria by Weakly Ionized Highly Dissociated Radio-Frequency Oxygen Plasma. *IEEE Transactions on Plasma Science*, **2008**, 36, 1300-1301	1.3	16
32	Simulation and Visualization of Self-Assembled Nanodevice Networks Synthesized via Plasma□urface Interaction. *IEEE Transactions on Plasma Science*, **2008**, 36, 866-867	1.3	
31	Deterministic Surface Growth of Single-Crystalline Iron Oxide Nanostructures in Nonequilibrium Plasma. *Crystal Growth and Design*, **2008**, 8, 4347-4349	3.5	11
30	Argon-Oxygen Post-Discharge Treatment of Hexatriacontane: Heat Transfer between Gas Phase and Sample. *Key Engineering Materials*, **2008**, 373-374, 421-425	0.4	15
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