

Igor Levchenko

List of Publications by Citations

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152
papers

4,097
citations

40
h-index

56
g-index

166
ext. papers

4,741
ext. citations

6.3
avg, IF

5.74
L-index

#	Paper	IF	Citations
152	Space micropropulsion systems for Cubesats and small satellites: From proximate targets to furthestmost frontiers. <i>Applied Physics Reviews</i> , 2018 , 5, 011104	17.3	160
151	Plasma-assisted self-organized growth of uniform carbon nanocone arrays. <i>Carbon</i> , 2007 , 45, 2022-2030	10.4	123
150	Recent progress and perspectives of space electric propulsion systems based on smart nanomaterials. <i>Nature Communications</i> , 2018 , 9, 879	17.4	121
149	Increasing the length of single-wall carbon nanotubes in a magnetically enhanced arc discharge. <i>Applied Physics Letters</i> , 2008 , 92, 043129	3.4	119
148	Single-step synthesis and magnetic separation of graphene and carbon nanotubes in arc discharge plasmas. <i>Nanoscale</i> , 2010 , 2, 2281-5	7.7	106
147	From nucleation to nanowires: a single-step process in reactive plasmas. <i>Nanoscale</i> , 2010 , 2, 2012-27	7.7	105
146	Nanostructures of various dimensionalities from plasma and neutral fluxes. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 2308-2319	3	97
145	The large-scale production of graphene flakes using magnetically-enhanced arc discharge between carbon electrodes. <i>Carbon</i> , 2010 , 48, 4570-4574	10.4	86
144	Perspectives, frontiers, and new horizons for plasma-based space electric propulsion. <i>Physics of Plasmas</i> , 2020 , 27, 020601	2.1	80
143	Scalable graphene production: perspectives and challenges of plasma applications. <i>Nanoscale</i> , 2016 , 8, 10511-27	7.7	77
142	Hierarchical Multicomponent Inorganic Metamaterials: Intrinsically Driven Self-Assembly at the Nanoscale. <i>Advanced Materials</i> , 2018 , 30, 1702226	24	77
141	The production of self-organized carbon connections between Ag nanoparticles using atmospheric microplasma synthesis. <i>Carbon</i> , 2009 , 47, 344-347	10.4	75
140	Control of core-shell structure and elemental composition of binary quantum dots. <i>Applied Physics Letters</i> , 2007 , 90, 193110	3.4	66
139	Microscopic ion fluxes in plasma-aided nanofabrication of ordered carbon nanotip structures. <i>Journal of Applied Physics</i> , 2005 , 98, 064304	2.5	62
138	Advanced Materials for Next-Generation Spacecraft. <i>Advanced Materials</i> , 2018 , 30, e1802201	24	62
137	Low-temperature plasmas in carbon nanostructure synthesis. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013 , 31, 050801	1.3	60
136	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

135	Crystalline Si nanoparticles below crystallization threshold: Effects of collisional heating in non-thermal atmospheric-pressure microplasmas. <i>Applied Physics Letters</i> , 2014 , 104, 163103	3.4	58
134	Energy efficiency in nanoscale synthesis using nanosecond plasmas. <i>Scientific Reports</i> , 2013 , 3, 1221	4.9	56
133	Carbon nanostructures for hard tissue engineering. <i>RSC Advances</i> , 2013 , 3, 11058	3.7	55
132	Prospects and physical mechanisms for photonic space propulsion. <i>Nature Photonics</i> , 2018 , 12, 649-657	33.9	54
131	Highly Efficient Silicon Nanoarray Solar Cells by a Single-Step Plasma-Based Process. <i>Advanced Energy Materials</i> , 2011 , 1, 373-376	21.8	51
130	Plasma-driven self-organization of Ni nanodot arrays on Si(100). <i>Applied Physics Letters</i> , 2008 , 93, 183103	3.4	46
129	Self-organized nanoarrays: Plasma-related controls. <i>Pure and Applied Chemistry</i> , 2008 , 80, 1909-1918	2.1	46
128	Self-organized carbon connections between catalyst particles on a silicon surface exposed to atmospheric-pressure Ar + CH ₄ microplasmas. <i>Carbon</i> , 2009 , 47, 2379-2390	10.4	45
127	Interfacial modification of titanium dioxide to enhance photocatalytic efficiency towards H ₂ production. <i>Journal of Colloid and Interface Science</i> , 2019 , 556, 376-385	9.3	44
126	Silicon on silicon: self-organized nanotip arrays formed in reactive Ar+H ₂ plasmas. <i>Nanotechnology</i> , 2010 , 21, 025605	3.4	44
125	Magnetic-field-enhanced synthesis of single-wall carbon nanotubes in arc discharge. <i>Journal of Applied Physics</i> , 2008 , 103, 094318	2.5	44
124	Controlled synthesis of a large fraction of metallic single-walled carbon nanotube and semiconducting carbon nanowire networks. <i>Nanoscale</i> , 2011 , 3, 3214-20	7.7	43
123	Real-time monitoring of nucleation-growth cycle of carbon nanoparticles in acetylene plasmas. <i>Journal of Applied Physics</i> , 2011 , 109, 123305	2.5	43
122	Plasma-Enabled Growth of Single-Crystalline SiC/AlSiC Core/Shell Nanowires on Porous Alumina Templates. <i>Crystal Growth and Design</i> , 2012 , 12, 2917-2922	3.5	42
121	Plasma/ion-controlled metal catalyst saturation: Enabling simultaneous growth of carbon nanotube/nanocone arrays. <i>Applied Physics Letters</i> , 2008 , 92, 063108	3.4	42
120	Growth kinetics of carbon nanowall-like structures in low-temperature plasmas. <i>Physics of Plasmas</i> , 2007 , 14, 063502	2.1	42
119	Investigation of a steady-state cylindrical magnetron discharge for plasma immersion treatment. <i>Journal of Applied Physics</i> , 2003 , 94, 1408-1413	2.5	42
118	Plasma-enabled, catalyst-free growth of carbon nanotubes on mechanically-written Si features with arbitrary shape. <i>Carbon</i> , 2012 , 50, 325-329	10.4	41

117	Hydrogen in plasma-nanofabrication: Selective control of nanostructure heating and passivation. <i>Applied Physics Letters</i> , 2010 , 96, 133105	3-4	41
116	Lightning under water: Diverse reactive environments and evidence of synergistic effects for material treatment and activation. <i>Applied Physics Reviews</i> , 2018 , 5, 021103	17-3	41
115	Stable plasma configurations in a cylindrical magnetron discharge. <i>Applied Physics Letters</i> , 2004 , 85, 2202-2204	3-4	40
114	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
113	Surface fluxes of Si and C adatoms at initial growth stages of SiC quantum dots. <i>Journal of Applied Physics</i> , 2007 , 101, 044306	2-5	39
112	Ion current distribution on a substrate during nanostructure formation. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 1690-1695	3	39
111	Comparative study of photocatalysis and gas sensing of ZnO/Ag nanocomposites synthesized by one- and two-step polymer-network gel processes. <i>Journal of Alloys and Compounds</i> , 2021 , 868, 158723	5-7	39
110	From nanometre to millimetre: a range of capabilities for plasma-enabled surface functionalization and nanostructuring. <i>Materials Horizons</i> , 2018 , 5, 765-798	14-4	37
109	Plasma-deposited Ge nanoisland films on Si: is Stranski-Krastanow fragmentation unavoidable?. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 092001	3	36
108	Graphene oxide Based supercapacitors from agricultural wastes: A step to mass production of highly efficient electrodes for electrical transportation systems. <i>Renewable Energy</i> , 2020 , 151, 731-739	8-1	35
107	Large networks of vertical multi-layer graphenes with morphology-tunable magnetoresistance. <i>Nanoscale</i> , 2013 , 5, 9283-8	7-7	34
106	Oxygen plasmas: a sharp chisel and handy trowel for nanofabrication. <i>Nanoscale</i> , 2018 , 10, 17494-17511	7-7	33
105	Wearable, Flexible, Disposable Plasma-Reduced Graphene Oxide Stress Sensors for Monitoring Activities in Austere Environments. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15122-15132	9-5	32
104	In vitro Demonstration of Cancer Inhibiting Properties from Stratified Self-Organized Plasma-Liquid Interface. <i>Scientific Reports</i> , 2017 , 7, 12163	4-9	31
103	MoS ₂ -based nanostructures: synthesis and applications in medicine. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 183001	3	30
102	Ultra-small photoluminescent silicon-carbide nanocrystals by atmospheric-pressure plasmas. <i>Nanoscale</i> , 2016 , 8, 17141-17149	7-7	30
101	Carbon saturation of arrays of Ni catalyst nanoparticles of different size and pattern uniformity on a silicon substrate. <i>Nanotechnology</i> , 2008 , 19, 335703	3-4	29
100	Mars Colonization: Beyond Getting There. <i>Global Challenges</i> , 2019 , 3, 1800062	4-3	29

99	The effects of plasma treatment on bacterial biofilm formation on vertically-aligned carbon nanotube arrays. <i>RSC Advances</i> , 2015 , 5, 5142-5148	3.7	28
98	Formation of vertically oriented graphenes: what are the key drivers of growth?. <i>2D Materials</i> , 2018 , 5, 044002	5.9	25
97	Hybrid graphite film-carbon nanotube platform for enzyme immobilization and protection. <i>Carbon</i> , 2013 , 65, 287-295	10.4	25
96	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
95	Nanoscaled Metamaterial as an Advanced Heat Pump and Cooling Media. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600008	6.8	24
94	Multipurpose nanoporous alumina-carbon nanowall bi-dimensional nano-hybrid platform via catalyzed and catalyst-free plasma CVD. <i>Carbon</i> , 2014 , 78, 627-632	10.4	23
93	Kinetics of the initial stage of silicon surface oxidation: DealGrove or surface nucleation?. <i>Applied Physics Letters</i> , 2009 , 95, 021502	3.4	23
92	Superhydrophobic fluorine-modified cerium-doped mesoporous carbon as an efficient catalytic platform for photo-degradation of organic pollutants. <i>Carbon</i> , 2019 , 147, 323-333	10.4	21
91	Plasmonic Metamaterial Sensor with Ultra-High Sensitivity in the Visible Spectral Range. <i>Advanced Optical Materials</i> , 2015 , 3, 750-755	8.1	20
90	Plasma nanofabrication and nanomaterials safety. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 174019	3	19
89	Ion deposition in a crossed EB field system with vacuum arc plasma sources. <i>Vacuum</i> , 2003 , 72, 335-344	3.7	19
88	Hierarchical bi-dimensional alumina/palladium nanowire nano-architectures for hydrogen detection, storage and controlled release. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6165-6172	6.7	17
87	Vertically-aligned graphene flakes on nanoporous templates: morphology, thickness, and defect level control by pre-treatment. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 055009	7.1	17
86	Plasma-enabled growth of separated, vertically aligned copper-capped carbon nanocones on silicon. <i>Applied Physics Letters</i> , 2010 , 97, 151503	3.4	17
85	Plasma-potentiated small molecules-possible alternative to antibiotics?. <i>Nano Futures</i> , 2017 , 1, 025002	3.6	16
84	3-Orders-of-magnitude density control of single-walled carbon nanotube networks by maximizing catalyst activation and dosing carbon supply. <i>Nanoscale</i> , 2011 , 3, 4848-53	7.7	16
83	Growth of carbon nanocone arrays on a metal catalyst: The effect of carbon flux ionization. <i>Physics of Plasmas</i> , 2008 , 15, 103501	2.1	16
82	Tuning and fine morphology control of natural resource-derived vertical graphene. <i>Carbon</i> , 2020 , 159, 668-685	10.4	16

81	Plasma parameters and discharge characteristics of lab-based krypton-propelled miniaturized Hall thruster. <i>Plasma Sources Science and Technology</i> , 2019 , 28, 064003	3.5	16
80	Plasma enables edge-to-center-oriented graphene nanoarrays on Si nanograss. <i>Applied Physics Letters</i> , 2012 , 100, 053115	3.4	15
79	Direct current arc plasma thrusters for space applications: basic physics, design and perspectives. <i>Reviews of Modern Plasma Physics</i> , 2019 , 3, 1	5.6	14
78	Effect of titanium surface topography on plasma deposition of antibacterial polymer coatings. <i>Applied Surface Science</i> , 2020 , 521, 146375	6.7	14
77	Plasma-chemical synthesis, structure and photoluminescence properties of hybrid graphene nanoflake/BNCO nanowall systems. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9788-9797	7.1	14
76	Plasma-controlled metal catalyst saturation and the initial stage of carbon nanostructure array growth. <i>Journal of Applied Physics</i> , 2008 , 104, 073308	2.5	13
75	Plasma-assisted ALD to functionalize PET: towards new generation flexible gadgets. <i>Flexible and Printed Electronics</i> , 2017 , 2, 022001	3.1	12
74	Tuning of magnetization in vertical graphenes by plasma-enabled chemical conversion of organic precursors with different oxygen content. <i>Chemical Communications</i> , 2013 , 49, 11635-7	5.8	12
73	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
72	Self-organization in arrays of surface-grown nanoparticles: characterization, control, driving forces. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 174020	3	12
71	Gold nanoresistors with near-constant resistivity in the cryogenic-to-room temperature range. <i>Journal of Applied Physics</i> , 2011 , 110, 023303	2.5	12
70	Ge/Si Quantum Dot Formation From Non-Uniform Cluster Fluxes. <i>Plasma Processes and Polymers</i> , 2007 , 4, 638-647	3.4	12
69	Hierarchical multilevel arrays of self-assembled gold nanoparticles: Control of resistivity-temperature dependence. <i>Applied Physics Letters</i> , 2010 , 97, 163109	3.4	11
68	Self-organized quantum dot arrays: Kinetic mapping of adatom capture. <i>Applied Physics Letters</i> , 2009 , 95, 243102	3.4	11
67	Templated i-PVD of Metallic Nanodot Arrays. <i>Plasma Processes and Polymers</i> , 2007 , 4, 612-620	3.4	11
66	Plasma and Polymers: Recent Progress and Trends. <i>Molecules</i> , 2021 , 26,	4.8	11
65	Self-organized graphene-like boron nitride containing nanoflakes on copper by low-temperature N ₂ + H ₂ plasma. <i>RSC Advances</i> , 2016 , 6, 87607-87615	3.7	11
64	Miniaturized Plasma Sources: Can Technological Solutions Help Electric Micropropulsion?. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 230-238	1.3	10

63	Novel biomaterials: plasma-enabled nanostructures and functions. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 273001	3	10
62	3D-Printed Multilayered Reinforced Material System for Gas Supply in CubeSats and Small Satellites. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900401	3.5	10
61	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
60	Sonochemical nanoplungers: crystalline gold nanowires by cavitation extrusion through nanoporous alumina. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1727-1731	7.1	10
59	Carbon nanoflake-nanoparticle interface: A comparative study on structure and photoluminescent properties of carbon nanoflakes synthesized on nanostructured gold and carbon by hot filament CVD. <i>Carbon</i> , 2017 , 124, 391-402	10.4	10
58	Protein retention on plasma-treated hierarchical nanoscale gold-silver platform. <i>Scientific Reports</i> , 2015 , 5, 13379	4.9	10
57	Thermodynamical and plasma-driven kinetic growth of high-aspect-ratio nanostructures: effect of hydrogen termination. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 125207	3	10
56	Current-voltage characteristics of a substrate in a crossed EB field system exposed to plasma flux from vacuum arc plasma sources. <i>Surface and Coatings Technology</i> , 2004 , 184, 356-360	4.4	10
55	Plasma-deposited hydrogenated amorphous silicon films: multiscale modelling reveals key processes. <i>RSC Advances</i> , 2017 , 7, 19189-19196	3.7	9
54	Plasmonic platform based on nanoporous alumina membranes: order control via self-assembly. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9565-9577	13	9
53	Facile synthesis of Ag/Zn _{1-x} Cu _x O nanoparticle compound photocatalyst for high-efficiency photocatalytic degradation: Insights into the synergies and antagonisms between Cu and Ag. <i>Ceramics International</i> , 2021 , 47, 48-56	5.1	9
52	Focusing plasma jets to achieve high current density: Feasibility and opportunities for applications in debris removal and space exploration. <i>Aerospace Science and Technology</i> , 2021 , 108, 106343	4.9	9
51	Automated Integrated Robotic Systems for Diagnostics and Test of Electric and Micropropulsion Thrusters. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 345-353	1.3	8
50	Ultra-low reflective black silicon photovoltaics by high density inductively coupled plasmas. <i>Solar Energy</i> , 2018 , 171, 841-850	6.8	8
49	Free-standing alumina nanobottles and nanotubes pre-integrated into nanoporous alumina membranes. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 045004	7.1	8
48	Increased size selectivity of Si quantum dots on SiC at low substrate temperatures: An ion-assisted self-organization approach. <i>Journal of Applied Physics</i> , 2010 , 107, 024313	2.5	8
47	Size-selected Ni catalyst islands for single-walled carbon nanotube arrays. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 249-254	2.3	8
46	Angular distribution of carbon ion flux in a nanotube array during the plasma process by the Monte Carlo technique. <i>Physics of Plasmas</i> , 2007 , 14, 113504	2.1	8

45	Plasma treatment for next-generation nanobiointerfaces. <i>Biointerphases</i> , 2015 , 10, 029405	1.8	7
44	Hierarchical Doped Gelatin-Derived Carbon Aerogels: Three Levels of Porosity for Advanced Supercapacitors. <i>Nanomaterials</i> , 2020 , 10,	5.4	7
43	Plasma control of morpho-dimensional selectivity of hematite nanostructures. <i>Applied Physics Letters</i> , 2012 , 100, 243103	3.4	7
42	Electron transport across magnetic field in low-temperature plasmas: An alternative approach for obtaining evidence of Bohm mechanism. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 1140-1143	2.3	7
41	Disentangling fluxes of energy and matter in plasma-surface interactions: Effect of process parameters. <i>Journal of Applied Physics</i> , 2010 , 108, 053302	2.5	7
40	Morphological Characterization of Graphene Flake Networks Using Minkowski Functionals. <i>Graphene</i> , 2016 , 05, 25-34	1.5	7
39	Fabrication of Nano-Onion-Structured Graphene Films from Extract and Their Wetting and Sensing Characteristics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 29594-29604	9.5	6
38	Hall Thrusters With Permanent Magnets: Current Solutions and Perspectives. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 239-251	1.3	6
37	Carbon nanotubes on nanoporous alumina: from surface mats to conformal pore filling. <i>Nanoscale Research Letters</i> , 2014 , 9, 390	5	6
36	Plasma-assembled carbon nanotubes: electric field-related effects. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 6112-22	1.3	6
35	Visualization of ion flux neutralization effect on electrical field and atom density distribution in Hall thruster channel. <i>IEEE Transactions on Plasma Science</i> , 2005 , 33, 526-527	1.3	6
34	Multifunctional oil-produced reduced graphene oxide - Silver oxide composites with photocatalytic, antioxidant, and antibacterial activities. <i>Journal of Colloid and Interface Science</i> , 2022 , 608, 294-305	9.3	6
33	Atmospheric Plasma Jet-Enhanced Anodization and Nanoparticle Synthesis. <i>IEEE Transactions on Plasma Science</i> , 2015 , 43, 765-769	1.3	5
32	Precise Calibration of Propellant Flow and Forces in Specialized Electric Propulsion Test System. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 338-344	1.3	5
31	Approach to a simplified numerical optimization of low-power Hall thrusters. <i>Vacuum</i> , 2018 , 152, 173-183	3.7	5
30	Long, Vertically Aligned Single-Walled Carbon Nanotubes from Plasmas: Morpho-Kinetic and Alignment Controls. <i>Plasma Processes and Polymers</i> , 2014 , 11, 798-808	3.4	5
29	Plasma jet interaction with a spherical target in magnetic field. <i>IEEE Transactions on Plasma Science</i> , 2004 , 32, 2139-2143	1.3	5
28	Growth of rGO nanostructures via facile wick and oil flame synthesis for environmental remediation. <i>Carbon Letters</i> , 2021 , 31, 763	2.3	5

27	Plasma meets metamaterials: Three ways to advance space micropropulsion systems. <i>Advances in Physics: X</i> , 2021 , 6, 1834452	5.1	5
26	Morphological transformations of BNCO nanomaterials: Role of intermediates. <i>Applied Surface Science</i> , 2018 , 442, 682-692	6.7	4
25	Inductively and capacitively coupled plasmas at interface: A comparative study towards highly efficient amorphous-crystalline Si solar cells. <i>Applied Surface Science</i> , 2018 , 427, 486-493	6.7	4
24	Current Control in the Magnetron Systems for Nanofabrication: A Comparison. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 1094-1097	1.3	4
23	Different Nanostructures From Different Plasmas: Nanoflowers and Nanotrees on Silicon. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2796-2797	1.3	4
22	Functional nanomaterials, synergisms, and biomimicry for environmentally benign marine antifouling technology. <i>Materials Horizons</i> , 2021 , 8, 3201-3238	14.4	4
21	Optimization, Test and Diagnostics of Miniaturized Hall Thrusters. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	4
20	NiFe ₂ O ₄ / rGO nanocomposites produced by soft bubble assembly for energy storage and environmental remediation. <i>Renewable Energy</i> , 2021 , 181, 1386-1386	8.1	4
19	Catalyst-free growth and tailoring morphology of zinc oxide nanostructures by plasma-enhanced deposition at low temperature. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	3
18	Development and Calibration of a Variable Range Stand for Testing Space Micropropulsion Thrusters. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 289-295	1.3	3
17	Low-Temperature Synthesis of Graphene by ICP-Assisted Amorphous Carbon Sputtering. <i>ChemistrySelect</i> , 2018 , 3, 8779-8785	1.8	3
16	Impact of Silicon Nanocrystal Oxidation on the Nonmetallic Growth of Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19012-23	9.5	3
15	Miniaturized rotating magnetic field-driven plasma system: proof-of-concept experiments. <i>Plasma Sources Science and Technology</i> , 2021 , 30, 065003	3.5	3
14	Hydrophilicity and Hydrophobicity Control of Plasma-Treated Surfaces via Fractal Parameters. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100724	4.6	3
13	Biowaste valorization by conversion to nanokeratin-urea composite fertilizers for sustainable and controllable nutrient release. <i>Carbon Trends</i> , 2021 , 5, 100083	0	3
12	High-Efficiency Inductively Coupled Plasma Source With Dual Antenna Hybrid Scheme. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 954-961	1.3	2
11	Hybrid Carbon-Based Nanostructured Platforms for the Advanced Bioreactors. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 10074-90	1.3	2
10	Mars Colonization: Beyond Getting There 2021 , 73-98		2

9	Highly tunable electronic properties in plasma-synthesized B-doped microcrystalline-to-amorphous silicon nanostructure for solar cell applications. <i>Journal of Applied Physics</i> , 2017 , 122, 133112	2.5	1
8	Sensors: Plasmonic Metamaterial Sensor with Ultra-High Sensitivity in the Visible Spectral Range (Advanced Optical Materials 6/2015). <i>Advanced Optical Materials</i> , 2015 , 3, 716-716	8.1	1
7	Guest Editorial Special Issue on Micropropulsion and Cubesats. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 210-213	1.3	0
6	SIMULATION OF ION FLUX DISTRIBUTION IN CONDUCTIVE AND NONCONDUCTIVE NANOTIP PATTERNS. <i>International Journal of Nanoscience</i> , 2006 , 05, 621-626	0.6	0
5	Advanced Concepts and Architectures for Plasma-Enabled Material Processing 2020 , 5, 1-90		
4	Metamaterials: Hierarchical Multicomponent Inorganic Metamaterials: Intrinsically Driven Self-Assembly at the Nanoscale (Adv. Mater. 2/2018). <i>Advanced Materials</i> , 2018 , 30, 1870009	24	
3	Simulation and Visualization of Self-Assembled Nanodevice Networks Synthesized via PlasmaSurface Interaction. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 866-867	1.3	
2	3D-Printed Multilayered Reinforced Material System for Gas Supply in CubeSats and Small Satellites. <i>Advanced Engineering Materials</i> , 2019 , 21, 1970036	3.5	
1	Materials for Space Technology: Advanced Materials for Next-Generation Spacecraft (Adv. Mater. 50/2018). <i>Advanced Materials</i> , 2018 , 30, 1870386	24	