

Plasma nanoscience: from nano-solids in plasmas to nan

Advances in Physics

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Heat transport of nitrogen in helium atmospheric pressure microplasma. Applied Physics Letters, 2013, 103, .	1.5	7
2	Discharging of dust particles in the afterglow of plasma with large dust density. Physical Review E, 2013, 88, 023104.	0.8	20
3	Carbon nanorods and graphene-like nanosheets by hot filament CVD: growth mechanisms and electron field emission. Journal of Materials Chemistry C, 2013, 1, 7703.	2.7	24
4	Role of positively charged dust grains on dust acoustic wave propagation in presence of nonthermal ions. Physics of Plasmas, 2013, 20, 084501.	0.7	7
5	Effects of H <sub>2</sub> on Ar plasma jet: From filamentary to diffuse discharge mode. Journal of Applied Physics, 2013, 114, .	1.1	25
6	Effect of a floating electrode on a plasma jet. Physics of Plasmas, 2013, 20, .	0.7	25
7	Feather-like He plasma plumes in surrounding N <sub>2</sub> gas. Applied Physics Letters, 2013, 103, .	1.5	24
8	Hybrid graphite film—carbon nanotube platform for enzyme immobilization and protection. Carbon, 2013, 65, 287-295.	5.4	25
9	Effect of Ion Current Density on the Properties of Vacuum Arc-Deposited TiN Coatings. IEEE Transactions on Plasma Science, 2013, 41, 3640-3644.	0.6	26
10	On the low-temperature growth mechanism of single walled carbon nanotubes in plasma enhanced chemical vapor deposition. Chemical Physics Letters, 2013, 590, 131-135.	1.2	18
11	Core-leaf onion-like carbon/MnO <sub>2</sub> hybrid nano-urchins for rechargeable lithium-ion batteries. Carbon, 2013, 64, 230-236.	5.4	91
12	Electrical transport phenomena prevailing in undoped nc-Si/a-SiN <sub>x</sub> :H thin films prepared by inductively coupled plasma chemical vapor deposition. Journal of Applied Physics, 2013, 114, .	1.1	50
13	Design and synthesis of NiO nanoflakes/graphene nanocomposite as high performance electrodes of pseudocapacitor. RSC Advances, 2013, 3, 19409.	1.7	58
14	Structure—Controlled, Vertical Graphene—Based, Binder—Free Electrodes from Plasma—Reformed Butter Enhance Supercapacitor Performance. Advanced Energy Materials, 2013, 3, 1316-1323.	10.2	182
15	Plasma enhanced growth of single walled carbon nanotubes at low temperature: A reactive molecular dynamics simulation. Carbon, 2013, 65, 269-276.	5.4	24
16	Interaction of O and OH radicals with a simple model system for lipids in the skin barrier: a reactive molecular dynamics investigation for plasma medicine. Journal Physics D: Applied Physics, 2013, 46, 395201.	1.3	69
17	Low-temperature plasmas in carbon nanostructure synthesis. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, .	0.6	63
18	High rate deposition of nanocrystalline silicon by thermal plasma enhanced CVD. RSC Advances, 2013, 3, 20157.	1.7	12

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19	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.	2.2	14
20	Graphene based materials for biomedical applications. <i>Materials Today</i> , 2013, 16, 365-373.	8.3	571
21	Steady state genuine multipartite entanglement in harmonic oscillator ensembles with a common environment. <i>European Physical Journal D</i> , 2013, 67, 1.	0.6	2
22	Mode transition in CF <sub>4</sub> -Ar inductively coupled plasma. <i>Physics of Plasmas</i> , 2013, 20, 123513.	2.0	20
23	Emerging Stem Cell Controls: Nanomaterials and Plasma Effects. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-15.	1.5	14
24	Waves in a dusty plasma over the illuminated part of the Moon. <i>Journal of Plasma Physics</i> , 2013, 79, 1071-1074.	0.7	32
25	Plasma Breakdown and Rebuild: Same Functional Vertical Graphenes from Diverse Natural Precursors. <i>Advanced Materials</i> , 2013, 25, 5638-5642.	11.1	80
26	Kinetic shear Alfvén instability in the presence of impurity ions in tokamak plasmas. <i>Physics of Plasmas</i> , 2013, 20, .	0.7	11
27	Heat energy from hydrogen-metal nuclear interactions. , 2013, , .		0
28	Versatile Fabrication of Complex Shaped Metal Oxide Nano-Microstructures and Their Interconnected Networks for Multifunctional Applications. <i>KONA Powder and Particle Journal</i> , 2014, 31, 92-110.	0.9	113
29	Impacts of Ambient and Ablation Plasmas on Short- and Ultrashort-Pulse Laser Processing of Surfaces. <i>Micromachines</i> , 2014, 5, 1344-1372.	1.4	29
30	Optical and Surface Characterization of Radio Frequency Plasma Polymerized 1-Isopropyl-4-Methyl-1,4-Cyclohexadiene Thin Films. <i>Electronics (Switzerland)</i> , 2014, 3, 266-281.	1.8	38
31	Aerosynthesis: Growth of Vertically-Aligned Carbon Nanofibres with Air DC Plasma. <i>Nanomaterials and Nanotechnology</i> , 2014, 4, 6.	1.2	1
32	Free-standing alumina nanobottles and nanotubes pre-integrated into nanoporous alumina membranes. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 045004.	2.8	9
33	Photo-ionization and residual electron effects in guided streamers. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	28
34	Excitation of the surface flute waves in electron cyclotron frequency range by internal rotating electron beam in a coaxial waveguide. <i>Physica Scripta</i> , 2014, 89, 125605.	1.2	4
35	White-light-controlled resistive switching and photovoltaic effects in TiO <sub>2</sub> /ZnO composite nanorods array at room temperature. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 4306-4311.	1.1	19
36	Spontaneous growth of In <sub>x</sub> Ga <sub>1-x</sub> N nanostructures directly on c-plane sapphire by plasma assisted molecular beam epitaxy. <i>Materials Research Express</i> , 2014, 1, 035019.	0.8	2

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37	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.	2.8	22
38	MnOx/carbon nanotube/reduced graphene oxide nanohybrids as high-performance supercapacitor electrodes. <i>NPG Asia Materials</i> , 2014, 6, e140-e140.	3.8	51
39	Formation of diatomic molecular radicals in reactive nitrogen-carbon plasma generated by electron cyclotron resonance discharge and pulsed laser ablation. <i>Physics of Plasmas</i> , 2014, 21, 043512.	0.7	5
40	Metal-insulator-metal capacitors based on lanthanum oxide high- $\epsilon^r$ dielectric nanolayers fabricated using dense plasma focus device. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014, 32, 03D107.	0.6	2
41	Plasma-Enabled Carbon Nanostructures for Early Diagnosis of Neurodegenerative Diseases. <i>Materials</i> , 2014, 7, 4896-4929.	1.3	12
42	High-Voltage Insulation Organic-Inorganic Nanocomposites by Plasma Polymerization. <i>Materials</i> , 2014, 7, 563-575.	1.3	18
43	Real-time, sensitive electrical detection of <i>Cryptosporidium parvum</i> oocysts based on chemical vapor deposition-grown graphene. <i>Applied Physics Letters</i> , 2014, 104, 063705.	1.5	3
44	Defects induced ferromagnetism in plasma-enabled graphene nanopetals. <i>Applied Physics Letters</i> , 2014, 104, 092417.	1.5	14
45	Uniform surface growth of copper oxide nanowires in radiofrequency plasma discharge and limiting factors. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	24
46	Modeling carbon nanotube growth on the catalyst-substrate surface subjected to reactive plasma. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	10
47	Multifunctional Three-Dimensional Junction Graphene Micro-Wells: Energy-Efficient, Plasma-Enabled Growth and Instant Water-Based Transfer for Flexible Device Applications. <i>Advanced Functional Materials</i> , 2014, 24, 6114-6122.	7.8	15
48	Plasma Deposition of Superhydrophobic Ag@TiO <sub>2</sub> Core@shell Nanorods on Processable Substrates. <i>Plasma Processes and Polymers</i> , 2014, 11, 164-174.	1.6	8
49	Influence of finite geometrical asymmetry of the electrodes in capacitively coupled radio frequency plasma. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	19
50	On the Mechanism of Ring-Shape Structure of Plasma Bullet. <i>Plasma Processes and Polymers</i> , 2014, 11, 1169-1174.	1.6	19
51	Nucleation of silicon nanocrystals in a remote plasma without subsequent coagulation. <i>Journal of Applied Physics</i> , 2014, 115, 244301.	1.1	10
52	Organic/Hybrid Nanoparticles and Single-Walled Carbon Nanotubes: Preparation Methods and Chiral Applications. <i>Chirality</i> , 2014, 26, 683-691.	1.3	15
53	An Experimental and Analytical Study of an Asymmetric Capacitively Coupled Plasma Used for Plasma Polymerization. <i>Plasma Processes and Polymers</i> , 2014, 11, 833-841.	1.6	25
54	Crystalline Si nanoparticles below crystallization threshold: Effects of collisional heating in non-thermal atmospheric-pressure microplasmas. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	66

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55	Ambient Plasma Synthesis of Si@Fe Hollow Nanoparticles and Their Biocompatibility and Lithium Storage Capacity. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300134.	1.9	13
56	Inactivation of the Tomato Pathogen <i>Cladosporium fulvum</i> by an Atmospheric-Pressure Cold Plasma Jet. <i>Plasma Processes and Polymers</i> , 2014, 11, 1028-1036.	1.6	48
57	Nonclassical Crystallization in Low-Temperature Deposition of Crystalline Silicon by Hot-Wire Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2014, 14, 6239-6247.	1.4	8
58	Effect of experimental conditions on size control of Au nanoparticles synthesized by atmospheric microplasma electrochemistry. <i>Nanoscale Research Letters</i> , 2014, 9, 572.	3.1	38
59	GaN light-emitting diodes with an Al-coated graphene layer as a transparent electrode. <i>Applied Physics Express</i> , 2014, 7, 082103.	1.1	5
60	Dusty plasmas over the Moon. <i>Journal of Plasma Physics</i> , 2014, 80, 885-893.	0.7	17
61	Effect of Driving Frequency on Growth and Structure of Silicon Films Deposited by Radio-Frequency and Very-High-Frequency Magnetron Sputtering. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, Q74-Q78.	0.9	14
62	Ion kinetics in Ar/H <sub>2</sub> cold plasmas: the relevance of ArH <sup>+</sup> . <i>RSC Advances</i> , 2014, 4, 62030-62041.	1.7	24
63	Biomimetic, antireflective, superhydrophobic and oleophobic PMMA and PMMA-coated glass surfaces fabricated by plasma processing. <i>Microelectronic Engineering</i> , 2014, 121, 33-38.	1.1	73
64	Study on formation and photoluminescence of carbon nanowalls grown on silicon substrates by hot filament chemical vapor deposition. <i>Journal of Luminescence</i> , 2014, 149, 258-263.	1.5	13
65	Formation and electron field emission of graphene films grown by hot filament chemical vapor deposition. <i>Materials Chemistry and Physics</i> , 2014, 144, 66-74.	2.0	22
66	Preparation and photophysical properties of luminescent nanoparticles based on lanthanide doped fluorides (LaF <sub>3</sub> :Ce <sup>3+</sup> , Gd <sup>3+</sup> , Eu <sup>3+</sup> ), obtained in the presence of different surfactants. <i>Journal of Alloys and Compounds</i> , 2014, 597, 63-71.	2.8	47
67	Microwave plasma-assisted regeneration of carbon nanosheets with bi- and trilayer of graphene and their application to photovoltaic cells. <i>Carbon</i> , 2014, 67, 326-335.	5.4	54
68	Lanthanum oxide nanostructured films synthesized using hot dense and extremely non-equilibrium plasma for nanoelectronic device applications. <i>Journal of Materials Science</i> , 2014, 49, 1594-1605.	1.7	7
69	Nanoengineered Plasma Polymer Films for Biomaterial Applications. <i>Plasma Chemistry and Plasma Processing</i> , 2014, 34, 545-558.	1.1	43
70	Synthesis and characterization of carbon nanowalls on different substrates by radio frequency plasma enhanced chemical vapor deposition. <i>Carbon</i> , 2014, 72, 372-380.	5.4	121
71	Optical coupling of gold nanoparticles on vertical graphenes to maximize SERS response. <i>Optics Letters</i> , 2014, 39, 2334.	1.7	17
72	Rapid Fabrication Technique for Interpenetrated ZnO Nanotetrapod Networks for Fast UV Sensors. <i>Advanced Materials</i> , 2014, 26, 1541-1550.	11.1	428

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73	Controlled Growth of Single-Walled Carbon Nanotube Networks by Catalyst Interfacial Diffusion. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300151.	1.9	1
74	Atmospheric pressure plasmas: Infection control and bacterial responses. <i>International Journal of Antimicrobial Agents</i> , 2014, 43, 508-517.	1.1	208
75	Excitation of the Azimuthal Surface Waves in Electron Cyclotron Frequency Range by Rotating Electron Beam in a Coaxial Waveguide. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 735-741.	0.6	7
76	Atmospheric cold plasma jet for plant disease treatment. <i>Applied Physics Letters</i> , 2014, 104, 043702.	1.5	61
77	Guided ionization waves: Theory and experiments. <i>Physics Reports</i> , 2014, 540, 123-166.	10.3	525
78	Spontaneous synthesis of carbon nanowalls, nanotubes and nanotips using high flux density plasmas. <i>Carbon</i> , 2014, 68, 695-707.	5.4	20
79	Plasma Processing Based Synthesis of Functional Nanocarbons. <i>Plasma Chemistry and Plasma Processing</i> , 2014, 34, 377-402.	1.1	7
80	Plasma Polymer-coated on Nanoparticles to Improve Dielectric and Electrical Insulation Properties of Nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2014, 21, 548-555.	1.8	15
81	Recent advances in vacuum sciences and applications. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 153001.	1.3	33
82	Perspectives on Electron-Assisted Reduction for Preparation of Highly Dispersed Noble Metal Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 3-13.	3.2	91
83	Plasma-produced phase-pure cuprous oxide nanowires for methane gas sensing. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	15
84	Pre-lithiation of onion-like carbon/MoS <sub>2</sub> nano-urchin anodes for high-performance rechargeable lithium ion batteries. <i>Nanoscale</i> , 2014, 6, 8884-8890.	2.8	93
85	Selective neuronal differentiation of neural stem cells induced by nanosecond microplasma agitation. <i>Stem Cell Research</i> , 2014, 12, 387-399.	0.3	70
86	Synergistic Fusion of Vertical Graphene Nanosheets and Carbon Nanotubes for High-Performance Supercapacitor Electrodes. <i>ChemSusChem</i> , 2014, 7, 2317-2324.	3.6	77
87	Interactions of plasma species on nickel catalysts: A reactive molecular dynamics study on the influence of temperature and surface structure. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 1-8.	10.8	35
88	Reactive molecular dynamics simulations of oxygen species in a liquid water layer of interest for plasma medicine. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 025205.	1.3	97
89	Study on Plasma Jets Generated With Different Working Gases and Propagating in Different Surrounding Gases. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2448-2449.	0.6	15
90	Catalytic growth mechanism and catalyst effects on electron field emission of nitrogenated carbon nanorods formed by plasma-enhanced hot filament chemical vapor deposition. <i>Vacuum</i> , 2014, 101, 283-290.	1.6	10

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91	One step preparation of a high performance Ge/C nanocomposite anode for lithium ion batteries by tandem plasma reactions. <i>Chemical Communications</i> , 2014, 50, 2052.	2.2	38
92	A metal-semiconductor-metal detector based on ZnO nanowires grown on a graphene layer. <i>Nanotechnology</i> , 2014, 25, 055501.	1.3	41
93	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.	0.6	7
94	A Novel Room-Temperature Air Plasma Jet Array Driven by DC Power Supply. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2460-2461.	0.6	6
95	Novel Hybrid Carbon Nanofiber/Highly Branched Graphene Nanosheet for Anode Materials in Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 18590-18596.	4.0	23
96	Dense Plasmas in Magnetic Traps: Generation of Focused Ion Beams With Controlled Ion-to-Neutral Flux Ratios. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2518-2519.	0.6	6
97	Catalyst-free Growth Mechanism and Structure of Graphene-like Nanosheets Formed by Hot-Filament CVD. <i>Chemical Vapor Deposition</i> , 2014, 20, 345-351.	1.4	7
98	The production mechanisms of OH radicals in a pulsed direct current plasma jet. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	44
99	Direct spatiotemporal analysis of femtosecond laser-induced plasma-mediated chemical reactions. <i>Laser Physics Letters</i> , 2014, 11, 035601.	0.6	7
100	Imaging of the Asymmetric DC Discharge: Visualization to Adjust Plasma in the Novel PECVD Reactor. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2564-2565.	0.6	4
101	Luminescent 3-hydroxyflavone nanocomposites with a tuneable refractive index for photonics and UV detection by plasma assisted vacuum deposition. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6561-6573.	2.7	16
102	SiC nanocrystals: high-rate deposition and nano-scale control by thermal plasma. <i>RSC Advances</i> , 2014, 4, 49228-49235.	1.7	5
103	Solution plasma exfoliation of graphene flakes from graphite electrodes. <i>RSC Advances</i> , 2014, 4, 51758-51765.	1.7	50
104	Plasmas for environmental issues: from hydrogen production to 2D materials assembly. <i>Plasma Sources Science and Technology</i> , 2014, 23, 063002.	1.3	76
105	Comparative study of the radio-frequency magnetron sputter deposited CaP films fabricated onto acid-etched or pulsed electron beam-treated titanium. <i>Thin Solid Films</i> , 2014, 571, 218-224.	0.8	35
106	Optical emission spectroscopy diagnostic and thermodynamic analysis of thermal plasma enhanced nanocrystalline silicon CVD process. <i>RSC Advances</i> , 2014, 4, 15131-15137.	1.7	15
107	Plasma-surface interactions at nanoscales: a combinatorial theoretical, process diagnostics and surface microanalysis approach. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 224009.	1.3	9
108	On the mechanism of acceleration behavior of plasma bullet. <i>Physics of Plasmas</i> , 2014, 21, .	0.7	44

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109	Microplasma-chemical synthesis and tunable real-time plasmonic responses of alloyed Au <sub>x</sub> Ag <sub>1-x</sub> nanoparticles. <i>Chemical Communications</i> , 2014, 50, 3144-3147.	2.2	50
110	On OH Density of an Atmospheric Pressure Plasma Jet by Laser-Induced Fluorescence. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 1206-1210.	0.6	51
111	Tailoring of the carbon nanowall microstructure by sharp variation of plasma radical composition. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25621-25627.	1.3	17
112	Understanding plasma catalysis through modelling and simulation—a review. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 224010.	1.3	241
113	On the fabrication and mechanism of pinecone surface structures. <i>Microelectronic Engineering</i> , 2014, 129, 58-64.	1.1	2
114	Effect of catalyst film thickness on the structures of vertically-oriented few-layer graphene grown by PECVD. <i>RSC Advances</i> , 2014, 4, 44434-44441.	1.7	10
115	Single-walled carbon nanotube-based polymer monoliths for the enantioselective nano-liquid chromatographic separation of racemic pharmaceuticals. <i>Journal of Chromatography A</i> , 2014, 1360, 100-109.	1.8	60
116	Growth, photoluminescence and thermal conductance of graphene-like nanoflakes grown on copper foils in methane environment. <i>Materials Science in Semiconductor Processing</i> , 2014, 27, 97-102.	1.9	2
117	Vertical graphene by plasma-enhanced chemical vapor deposition: Correlation of plasma conditions and growth characteristics. <i>Journal of Materials Research</i> , 2014, 29, 417-425.	1.2	23
118	Single Step Integration of ZnO Nano- and Microneedles in Si Trenches by Novel Flame Transport Approach: Whispering Gallery Modes and Photocatalytic Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 7806-7815.	4.0	156
119	Microscopic mechanisms of vertical graphene and carbon nanotube cap nucleation from hydrocarbon growth precursors. <i>Nanoscale</i> , 2014, 6, 9206-9214.	2.8	31
120	Low-temperature plasma-induced antiproliferative effects on multi-cellular tumor spheroids. <i>New Journal of Physics</i> , 2014, 16, 043027.	1.2	66
121	Oxygen Optical Sensing in Gas and Liquids with Nanostructured ZnO Thin Films Based on Exciton Emission Detection. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9852-9859.	1.5	48
122	The role of tunnel junction resistances and defects on electron transport mechanism in networks of two-dimensional disordered conductors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 64, 87-94.	1.3	2
123	Ion irradiation for improved graphene network formation in carbon nanotube growth. <i>Carbon</i> , 2014, 77, 790-795.	5.4	9
124	Multipurpose nanoporous alumina—carbon nanowall bi-dimensional nano-hybrid platform via catalyzed and catalyst-free plasma CVD. <i>Carbon</i> , 2014, 78, 627-632.	5.4	24
125	Long, Vertically Aligned Single-Walled Carbon Nanotubes from Plasmas: Morpho-Kinetic and Alignment Controls. <i>Plasma Processes and Polymers</i> , 2014, 11, 798-808.	1.6	5
126	Carbon nanotubes on nanoporous alumina: from surface mats to conformal pore filling. <i>Nanoscale Research Letters</i> , 2014, 9, 390.	3.1	10



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127	Enhancement of the killing effect of low-temperature plasma on <i>Streptococcus mutans</i> by combined treatment with gold nanoparticles. <i>Journal of Nanobiotechnology</i> , 2014, 12, 29.	4.2	26
128	Reactive Molecular Dynamics Simulations for a Better Insight in Plasma Medicine. <i>Plasma Processes and Polymers</i> , 2014, 11, 1156-1168.	1.6	48
129	Aerosol-Processed Thermosensitive Nanocomposites for Controlled Drug Release. <i>ACS Macro Letters</i> , 2014, 3, 369-373.	2.3	12
130	Controlled growth of copper oxide nanostructures by atmospheric pressure micro-afterglow. <i>Journal of Crystal Growth</i> , 2014, 407, 17-24.	0.7	26
131	Hydrogenated amorphous carbon thin films deposited by plasma-assisted chemical vapor deposition enhanced by electrostatic confinement: structure, properties, and modeling. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 1217-1225.	1.1	8
132	From Thermo- to Plasma-Mediated Ultrafast Laser-Induced Plasmonic Nanobubbles. <i>ACS Photonics</i> , 2014, 1, 331-336.	3.2	78
133	Chitosan-Conjugated Dendritic Ag Nanopowders for Photothermal Therapy Applications. <i>ACS Macro Letters</i> , 2014, 3, 205-210.	2.3	11
134	Nanosecond Pulsed Electric Discharge Synthesis of Carbon Nanomaterials in Helium at Atmospheric Pressure from Adamantane. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 1594-1601.	0.6	9
135	Comparative study of the carbon nanofilm and nanodots grown by plasma-enhanced hot filament chemical vapor deposition. <i>Materials Science in Semiconductor Processing</i> , 2014, 21, 146-153.	1.9	3
136	Multiband photoluminescence from carbon nanoflakes synthesized by hot filament CVD: towards solid-state white light sources. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2851-2858.	2.7	16
137	Comparison of Aluminium Nanostructures Created by Discharges in Various Dielectric Liquids. <i>Plasma Chemistry and Plasma Processing</i> , 2014, 34, 1101-1114.	1.1	29
138	Fast, energy-efficient synthesis of luminescent carbon quantum dots. <i>Green Chemistry</i> , 2014, 16, 2566-2570.	4.6	116
139	Synthesis of silicon nanopowder from silane gas by RF thermal plasma. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 310-315.	0.8	19
140	Photoionization of Nanosized Aerosol Gold Agglomerates and Their Deposition To Form Nanoscale Islands on Substrates. <i>Langmuir</i> , 2014, 30, 8770-8775.	1.6	7
141	Theory for correlation between plasma fluctuation and fluctuation of nanoparticle growth in reactive plasmas. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 010201.	0.8	9
142	Comparison of the Deposition Behavior of Charged Silicon Nanoparticles between Floating and Grounded Substrates. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11946-11953.	1.5	25
143	Synthesis of ZnO nanostructures by spontaneous oxidation of Zn films on p-type silicon substrates. <i>Journal of Alloys and Compounds</i> , 2014, 590, 260-265.	2.8	7
144	Multifunctional three-dimensional nanodiamond-nanoporous alumina nanoarchitectures. <i>Carbon</i> , 2014, 75, 452-464.	5.4	37

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145	Low-temperature plasma processing for Si photovoltaics. <i>Materials Science and Engineering Reports</i> , 2014, 78, 1-29.	14.8	44
146	Narrow-chirality distributed single-walled carbon nanotube synthesis by remote plasma enhanced ethanol deposition on cobalt incorporated MCM-41 catalyst. <i>Carbon</i> , 2014, 66, 134-143.	5.4	16
147	Atmospheric gas plasma-induced ROS production activates TNF-ASK1 pathway for the induction of melanoma cancer cell apoptosis. <i>Molecular Biology of the Cell</i> , 2014, 25, 1523-1531.	0.9	166
148	Phase Transformation Induced Capacitance Activation for 3D Graphene-CoO Nanorod Pseudocapacitor. <i>Advanced Energy Materials</i> , 2014, 4, 1301788.	10.2	83
149	A battery-operated atmospheric-pressure plasma wand for biomedical applications. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 145204.	1.3	21
150	A Growth Mechanism for Free-Standing Vertical Graphene. <i>Nano Letters</i> , 2014, 14, 3064-3071.	4.5	221
151	Wetting, Solubility and Chemical Characteristics of Plasma-Polymerized 1-Isopropyl-4-Methyl-1,4-Cyclohexadiene Thin Films. <i>Coatings</i> , 2014, 4, 527-552.	1.2	28
152	Impact of copper back contact in CdTe solar cells: study of defects by temperature-dependent capacitance-voltage measurements. <i>Emerging Materials Research</i> , 2014, 3, 106-111.	0.4	7
153	Molecular Insights into Aqueous NaCl Electrolytes Confined within Vertically-oriented Graphenes. <i>Scientific Reports</i> , 2015, 5, 14652.	1.6	43
154	Synthesis of Co-Si Nanowires on Silicon Nanowires Assisted by Microplasma Treatment. <i>Chemistry Letters</i> , 2015, 44, 1176-1178.	0.7	1
155	Dusty plasma sheath-like structure in the region of lunar terminator. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	42
156	Plasma bullets behavior in a tube covered by a conductor. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	7
157	Protein retention on plasma-treated hierarchical nanoscale gold-silver platform. <i>Scientific Reports</i> , 2015, 5, 13379.	1.6	10
158	Effect of driving voltages in dual capacitively coupled radio frequency plasma: A study by nonlinear global model. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	12
159	Effect of electron reflection on magnetized plasma sheath in an oblique magnetic field. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	19
160	Chiral streamers. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	19
161	Non-linear macro evolution of a dc driven micro atmospheric glow discharge. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	8
162	A deeper insight into strain for the sila[6]prismane () cluster with its endohedrally trapped silicon atom,. <i>Journal of Computational Chemistry</i> , 2015, 36, 2089-2094.	1.5	8

#	ARTICLE	IF	CITATIONS
163	Propagation of plasma bullet in U-shape tubes. AIP Advances, 2015, 5, .	0.6	7
164	Three-dimensional SnO <sub>2</sub> Nanowire Networks for Multifunctional Applications: From High-temperature Stretchable Ceramics to Ultrasensitive Sensors. Advanced Electronic Materials, 2015, 1, 1500081.	2.6	116
165	Structural Characterization of Terpinene Thin Films Using Mass Spectroscopy and X-ray Photoelectron Spectroscopy. Plasma Processes and Polymers, 2015, 12, 1085-1094.	1.6	26
166	Vertical Graphene Nanosheets Coated with Gold Nanoparticle Arrays: Effect of Interparticle Spacing on Optical Response. Journal of Nanomaterials, 2015, 2015, 1-7.	1.5	8
167	Quantum Effects of Nonlocal Plasmons in Epsilon-Near-Zero Properties of a Thin Gold Film Slab. Plasmonics, 2015, 10, 1615-1623.	1.8	12
168	Direct Growth of Freestanding ZnO Tetrapod Networks for Multifunctional Applications in Photocatalysis, UV Photodetection, and Gas Sensing. ACS Applied Materials & Interfaces, 2015, 7, 14303-14316.	4.0	433
169	PECVD Synthesis of Vertically-Oriented Graphene: Mechanism and Plasma Sources. , 2015, , 19-34.		3
170	Anti-bacterial surfaces: natural agents, mechanisms of action, and plasma surface modification. RSC Advances, 2015, 5, 48739-48759.	1.7	172
171	Water-mediated and instantaneous transfer of graphene grown at 220 °C enabled by a plasma. Nanoscale, 2015, 7, 20564-20570.	2.8	24
172	Synthesis of 2D materials in arc plasmas. Journal Physics D: Applied Physics, 2015, 48, 314007.	1.3	43
173	Composition and bandgap control of Al <sub>x</sub> Ga <sub>1-x</sub> N films synthesized by plasma-assisted pulsed laser deposition. Journal of Materials Chemistry C, 2015, 3, 5307-5315.	2.7	10
174	A computational modeling study on the helium atmospheric pressure plasma needle discharge. Chinese Physics B, 2015, 24, 125202.	0.7	3
175	An atmospheric-pressure, high-aspect-ratio, cold micro-plasma. Scientific Reports, 2014, 4, 7488.	1.6	33
176	Design for Approaching Cicada-Wing Reflectance in Low- and High-Index Biomimetic Nanostructures. ACS Nano, 2015, 9, 301-311.	7.3	86
177	Single-Step, Plasma-Enabled Reforming of Natural Precursors into Vertical Graphene Electrodes with High Areal Capacitance. ACS Sustainable Chemistry and Engineering, 2015, 3, 544-551.	3.2	34
178	Self-assembled ultra-nanocrystalline silicon films with preferred 2 2 0 crystallographic orientation for solar cell applications. Applied Surface Science, 2015, 330, 134-141.	3.1	9
179	Fast Microplasma Synthesis of Blue Luminescent Carbon Quantum Dots at Ambient Conditions. Plasma Processes and Polymers, 2015, 12, 59-65.	1.6	57
180	Structure and photoluminescence of films composed of carbon nanoflakes. Journal of Luminescence, 2015, 161, 7-13.	1.5	4

#	ARTICLE	IF	CITATIONS
181	Contribution of radicals and ions in catalyzed growth of single-walled carbon nanotubes from low-temperature plasmas. <i>Physics of Plasmas</i> , 2015, 22, .	0.7	15
182	Emerging energy and environmental applications of vertically-oriented graphenes. <i>Chemical Society Reviews</i> , 2015, 44, 2108-2121.	18.7	269
183	Ultra-high-density 3D DNA arrays within nanoporous biocompatible membranes for single-molecule-level detection and purification of circulating nucleic acids. <i>Nanoscale</i> , 2015, 7, 5998-6006.	2.8	14
184	Growth dynamics of copper oxide nanowires in plasma at low pressures. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	27
185	Atmospheric-Pressure Plasma- and TRAIL-Induced Apoptosis in TRAIL-Resistant Colorectal Cancer Cells. <i>Plasma Processes and Polymers</i> , 2015, 12, 574-582.	1.6	35
186	Influence on hydrophobicity of silicone rubber surface by introducing fluorocarbon functional groups. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 531-537.	1.1	6
187	Modifying Surface Energy of Graphene via Plasma-Based Chemical Functionalization to Tune Thermal and Electrical Transport at Metal Interfaces. <i>Nano Letters</i> , 2015, 15, 4876-4882.	4.5	68
188	Plasma treatment for next-generation nanobiointerfaces. <i>Biointerphases</i> , 2015, 10, 029405.	0.6	9
189	Equivalent circuit effects on mode transitions in H <sub>2</sub> inductively coupled plasmas. <i>Physics of Plasmas</i> , 2015, 22, 043508.	0.7	10
190	Silicon nanowire growth on Si and SiO <sub>2</sub> substrates by rf magnetron sputtering in Ar/H <sub>2</sub> . <i>Applied Physics Express</i> , 2015, 8, 066201.	1.1	2
191	Free standing 3D graphene nano-mesh synthesis by RF plasma CVD using non-synthetic precursor. <i>Materials Research Bulletin</i> , 2015, 71, 61-66.	2.7	12
192	Neutral gas temperature maps of the pin-to-plate argon micro discharge into the ambient air. <i>Physics of Plasmas</i> , 2015, 22, 033502.	0.7	3
193	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.	3.8	18
194	Luminescence signature of free exciton dissociation and liberated electron transfer across the junction of graphene/GaN hybrid structure. <i>Scientific Reports</i> , 2015, 5, 7687.	1.6	18
195	Influence of substrate on nucleation and growth of vertical graphene nanosheets. <i>Applied Surface Science</i> , 2015, 349, 576-581.	3.1	67
196	Structural modification of the skin barrier by OH radicals: a reactive molecular dynamics study for plasma medicine. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 155202.	1.3	30
197	Nanoscale thermodynamic aspects of plasma catalysis. <i>Catalysis Today</i> , 2015, 256, 23-28.	2.2	22
198	Note: Rapid reduction of graphene oxide paper by glow discharge plasma. <i>Review of Scientific Instruments</i> , 2015, 86, 056101.	0.6	8

#	ARTICLE	IF	CITATIONS
199	Vertically-Oriented Graphene. , 2015, , .		23
200	Magnetic field argon ion filtering for pulsed magnetron sputtering growth of two-dimensional MoS <sub>2</sub> . Surface and Coatings Technology, 2015, 280, 260-267.	2.2	14
201	Silicon quantum dots embedded in amorphous SiC matrix for third-generation solar cells: Microstructure control by RF discharge power. Functional Materials Letters, 2015, 08, 1550054.	0.7	3
202	Effect of Electric Bias on the Deposition Behavior of ZnO Nanostructures in the Chemical Vapor Deposition Process. Journal of Physical Chemistry C, 2015, 119, 25047-25052.	1.5	20
203	Structure and photoluminescence of molybdenum selenide nanomaterials grown by hot filament chemical vapor deposition. Journal of Alloys and Compounds, 2015, 647, 734-739.	2.8	14
204	Study of La-Incorporated HfO <sub>2</sub> MIM Structure Fabricated Using PLD System for Analog/Mixed Signal Applications. IEEE Nanotechnology Magazine, 2015, 14, 612-618.	1.1	7
205	Plasma Catalysis: Synergistic Effects at the Nanoscale. Chemical Reviews, 2015, 115, 13408-13446.	23.0	537
206	Three-dimensional graphene-based composites for energy applications. Nanoscale, 2015, 7, 6924-6943.	2.8	241
207	Structure and photoluminescence of boron-doped carbon nanoflakes grown by hot filament chemical vapour deposition. Journal of Materials Chemistry C, 2015, 3, 1106-1112.	2.7	22
208	Plasma-enabled sustainable elemental lifecycles: honeycomb-derived graphenes for next-generation biosensors and supercapacitors. Green Chemistry, 2015, 17, 2164-2171.	4.6	45
209	Plasma effects in aligned carbon nanoflake growth by plasma-enhanced hot filament chemical vapor deposition. Applied Surface Science, 2015, 325, 251-257.	3.1	15
210	Influence of Cr incorporation on structural, dielectric and optical properties of ZnO nanoparticles. Journal of Industrial and Engineering Chemistry, 2015, 21, 283-291.	2.9	94
211	Atmospheric Plasma Jet-Enhanced Anodization and Nanoparticle Synthesis. IEEE Transactions on Plasma Science, 2015, 43, 765-769.	0.6	5
212	Inactivation of the Endotoxic Biomolecule Lipid A by Oxygen Plasma Species: A Reactive Molecular Dynamics Study. Plasma Processes and Polymers, 2015, 12, 162-171.	1.6	43
213	Nanostructured ZnFe <sub>2</sub> O <sub>4</sub> thick film as room temperature liquefied petroleum gas sensor. Journal of Experimental Nanoscience, 2015, 10, 703-717.	1.3	42
214	Efficient amorphous platinum catalyst cluster growth on porous carbon: A combined molecular dynamics and experimental study. Applied Catalysis B: Environmental, 2015, 162, 21-26.	10.8	24
215	Perpendicularly Oriented MoSe <sub>2</sub> /Graphene Nanosheets as Advanced Electrocatalysts for Hydrogen Evolution. Small, 2015, 11, 414-419.	5.2	276
217	Dense Plasma Focus-Based Nanofabrication of III-V Semiconductors: Unique Features and Recent Advances. Nanomaterials, 2016, 6, 4.	1.9	20

#	ARTICLE	IF	CITATIONS
218	Self-deformation in a direct current driven helium jet micro discharge. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	8
219	Effects of Ar and O <sub>2</sub> Plasma Etching on Parylene C: Topography versus Surface Chemistry and the Impact on Cell Viability. <i>Plasma Processes and Polymers</i> , 2016, 13, 324-333.	1.6	29
220	Plasma afterglow-assisted oxidation of iron-copper bilayers. <i>Nano Structures Nano Objects</i> , 2016, 7, 41-48.	1.9	2
221	Study on dynamics of the influence exerted by plasma on gas flow field in non-thermal atmospheric pressure plasma jet. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	47
222	Excitation of azimuthal surface waves in the electron cyclotron frequency range by a rotating electron beam in presence of dissipation. <i>Physics of Plasmas</i> , 2016, 23, 122124.	0.7	5
223	Vacuum template synthesis of multifunctional nanotubes with tailored nanostructured walls. <i>Scientific Reports</i> , 2016, 6, 20637.	1.6	14
224	The effect of seed electrons on the repeatability of atmospheric pressure plasma plume propagation. II. Modeling. <i>Physics of Plasmas</i> , 2016, 23, 123513.	0.7	11
225	Structure and photoluminescence properties of carbon nanotip-vertical graphene nanohybrids. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	15
226	H <sub>2</sub> O/air plasma-functionalized carbon nanotubes decorated with MnO <sub>2</sub> for glucose sensing. <i>RSC Advances</i> , 2016, 6, 31807-31815.	1.7	24
227	Effect of the aromatic precursor flow rate on the morphology and properties of carbon nanostructures in plasma enhanced chemical vapor deposition. <i>RSC Advances</i> , 2016, 6, 32779-32788.	1.7	14
228	Plasma methods for preparing green catalysts: Current status and perspective. <i>Chinese Journal of Catalysis</i> , 2016, 37, 340-348.	6.9	104
229	In-vitro dissolution and structural and electrokinetic characteristics of titanium-oxynitride coatings formed via reactive magnetron sputtering. <i>Journal of Surface Investigation</i> , 2016, 10, 282-291.	0.1	23
230	Edge effects in vertically-oriented graphene based electric double-layer capacitors. <i>Journal of Power Sources</i> , 2016, 324, 309-316.	4.0	75
231	Autoionization following nanoplasma formation in atomic and molecular clusters. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	6
232	Growth and photoluminescence of oriented MoSe <sub>2</sub> nanosheets produced by hot filament CVD. <i>RSC Advances</i> , 2016, 6, 37236-37245.	1.7	24
233	Dynamics of the gas flow turbulent front in atmospheric pressure plasma jets. <i>Plasma Sources Science and Technology</i> , 2016, 25, 035013.	1.3	15
234	Reactive species in non-equilibrium atmospheric-pressure plasmas: Generation, transport, and biological effects. <i>Physics Reports</i> , 2016, 630, 1-84.	10.3	900
235	Direct Synthesis of Carbon Nanotubes from Only CO <sub>2</sub> by a Hybrid Reactor of Dielectric Barrier Discharge and Solid Oxide Electrolyser Cell. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 231-239.	1.1	24

#	ARTICLE	IF	CITATIONS
236	Characterisation of weld zone reactions in dissimilar glass-to-aluminium pulsed picosecond laser welds. <i>Materials Characterization</i> , 2016, 120, 53-62.	1.9	23
237	Synthesis of Partially Reduced Graphene Oxide/Silver Nanocomposite and Its Inhibitive Action on Pathogenic Fungi Grown Under Ambient Conditions. <i>ChemistrySelect</i> , 2016, 1, 4235-4245.	0.7	34
238	Self-organized graphene-like boron nitride containing nanoflakes on copper by low-temperature N <sub>2</sub> + H <sub>2</sub> plasma. <i>RSC Advances</i> , 2016, 6, 87607-87615.	1.7	11
239	Localised growth of CuO nanowires by micro-afterglow oxidation at atmospheric pressure: Investigation of the role of stress. <i>Surface and Coatings Technology</i> , 2016, 305, 254-263.	2.2	14
240	Nanocrystalline rare earth fluorides doped with Pr <sup>3+</sup> ions. <i>Journal of Rare Earths</i> , 2016, 34, 802-807.	2.5	13
241	Scalable Production of Silicon Nanocone Solar Cells in Integrated Plasma Photovoltaic Nanofabrication Cluster. <i>Plasma Processes and Polymers</i> , 2016, 13, 161-169.	1.6	5
242	Metallic-like bonding in plasma-born silicon nanocrystals for nanoscale bandgap engineering. <i>Nanoscale</i> , 2016, 8, 18062-18069.	2.8	4
243	Plasma diagnostic approach for the low-temperature deposition of silicon quantum dots using dual frequency PECVD. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 395203.	1.3	5
244	Surface conductivity dependent dynamic behaviour of an ultrafine atmospheric pressure plasma jet for microscale surface processing. <i>Applied Surface Science</i> , 2016, 390, 489-496.	3.1	37
245	Conversion of vertically-aligned boron nitride nanowalls to photoluminescent CN compound nanorods: Efficient composition and morphology control via plasma technique. <i>Carbon</i> , 2016, 109, 352-362.	5.4	14
246	Plasma engineering of silicon quantum dots and their properties through energy deposition and chemistry. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25837-25851.	1.3	9
247	A 3.4- $\mu\text{m}$ -Sized Atmospheric-Pressure Nonequilibrium Microplasma Array With High Aspect Ratio and High Electron Density. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 2632-2637.	0.6	7
249	Preparation and structural properties of thin carbon films by very-high-frequency magnetron sputtering. <i>Chinese Physics B</i> , 2016, 25, 075202.	0.7	1
251	Gas phase generation of diamond nanoparticles in the hot filament chemical vapor deposition reactor. <i>Carbon</i> , 2016, 106, 289-294.	5.4	30
252	Scalable solvo-plasma production of porous tin oxide nanowires. <i>Chemical Engineering Science</i> , 2016, 154, 20-26.	1.9	18
253	Structure and photoluminescence of boron and nitrogen co-doped carbon nanorods. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 209, 60-65.	1.7	6
254	Scalable graphene production: perspectives and challenges of plasma applications. <i>Nanoscale</i> , 2016, 8, 10511-10527.	2.8	97
255	Effects of N <sub>2</sub> /O <sub>2</sub> Additives on the Repeatability of the Dynamics of an Atmospheric-Pressure He Plasma Jet. <i>IEEE Transactions on Plasma Science</i> , 2016, 44, 398-404.	0.6	2

#	ARTICLE	IF	CITATIONS
256	Structure and photoluminescence properties of graphene nanoflakes grown on zinc oxide films by hot filament chemical vapor deposition. <i>Diamond and Related Materials</i> , 2016, 64, 42-48.	1.8	10
257	Fabrication and characterization of Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films for photovoltaic application by low-cost single target sputtering process. <i>Vacuum</i> , 2016, 126, 84-90.	1.6	28
258	Effect of zinc oxide films on the structure and photoluminescence properties of graphene-like nanoflakes. <i>Journal of Luminescence</i> , 2016, 175, 82-87.	1.5	0
259	Nanostructures design by plasma afterglow-assisted oxidation of iron-copper thin films. <i>Journal of Crystal Growth</i> , 2016, 442, 52-61.	0.7	8
260	Bright luminescence in amorphous hydrogenated silicon-nitride quantum-dot films prepared by a special designed PECVD system. <i>Journal of Luminescence</i> , 2016, 175, 67-70.	1.5	11
261	Sustainable Life Cycles of Natural-Precursor-Derived Nanocarbons. <i>Chemical Reviews</i> , 2016, 116, 163-214.	23.0	163
262	On the plasma-based growth of "flowing" graphene sheets at atmospheric pressure conditions. <i>Plasma Sources Science and Technology</i> , 2016, 25, 015013.	1.3	51
263	Production of N-graphene by microwave N <sub>2</sub> -Ar plasma. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 055307.	1.3	31
264	Toward bandgap tunable graphene oxide nanoribbons by plasma-assisted reduction and defect restoration at low temperature. <i>RSC Advances</i> , 2016, 6, 2270-2278.	1.7	16
265	Plasma-Surface Interactions in Plasma Catalysis. <i>Plasma Chemistry and Plasma Processing</i> , 2016, 36, 185-212.	1.1	155
266	Synthesis, surface modification/decoration of luminescent magnetic core/shell nanomaterials, based on the lanthanide doped fluorides (Fe <sub>3</sub> O <sub>4</sub> /SiO <sub>2</sub> /NH <sub>2</sub> /PAA/LnF <sub>3</sub> ). <i>Journal of Luminescence</i> , 2016, 170, 484-490.	1.5	31
267	Fast synthesis of ultrathin ZnO nanowires by oxidation of Cu/Zn stacks in low-pressure afterglow. <i>Nanotechnology</i> , 2017, 28, 085602.	1.3	7
268	Plasma-based chemical functionalization of graphene to control the thermal transport at graphene-metal interfaces. <i>Surface and Coatings Technology</i> , 2017, 314, 148-154.	2.2	12
269	Nanopattern formation using localized plasma for growth of single-standing carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	2
270	A donut-shape distribution of OH radicals in atmospheric pressure plasma jets. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	20
271	Excitation of Electromagnetic Waves Above the Upper-Hybrid Frequency by Internal Gyration Electron Beam in a Coaxial Waveguide. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 623-630.	0.6	5
272	Multicolored Emission and Lasing in DCM-Adamantane Plasma Nanocomposite Optical Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8948-8959.	4.0	12
273	Shaping thin film growth and microstructure pathways via plasma and deposition energy: a detailed theoretical, computational and experimental analysis. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5591-5610.	1.3	30



#	ARTICLE	IF	CITATIONS
274	Low-temperature Plasma Processing of Platinum Porphyrins for the Development of Metal Nanostructured Layers. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601233.	1.9	10
275	Controlled Growth, Microstructure, and Properties of Functional Si Quantum Dot Films via Plasma Chemistry and Activated Radicals. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10194-10209.	1.5	17
276	Synergistic effects of plasma-catalyst interactions for CH <sub>4</sub> activation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13010-13021.	1.3	101
277	Bird's nest-like nanographene shell encapsulated Si nanoparticles – Their structural and Li anode properties. <i>Journal of Power Sources</i> , 2017, 341, 46-52.	4.0	32
278	Growth and structural properties of silicon on Ag films prepared by 40.68 MHz very-high-frequency magnetron sputtering. <i>Plasma Science and Technology</i> , 2017, 19, 075502.	0.7	1
279	The effects of gas dilution on the nanoparticles nucleation in a low pressure capacitively coupled acetylene discharge. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	11
280	Preparation of Silicon Nanopowder by Recycling Silicon Wafer Waste in Radio-Frequency Thermal Plasma Process. <i>Plasma Chemistry and Plasma Processing</i> , 2017, 37, 967-978.	1.1	11
281	High surface hierarchical carbon nanowalls synthesized by plasma deposition using an aromatic precursor. <i>Carbon</i> , 2017, 118, 578-587.	5.4	18
282	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.	0.8	3
283	Effect of background ionization on plasma ignition dynamics. <i>Physics of Plasmas</i> , 2017, 24, 033503.	0.7	5
284	Plasma assisted deposition of single and multistacked TiO <sub>2</sub> hierarchical nanotube photoanodes. <i>Nanoscale</i> , 2017, 9, 8133-8141.	2.8	16
285	Size-controlled growth and antibacterial mechanism for Cu:C nanocomposite thin films. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 237-244.	1.3	39
286	Chemical bath deposition produced ZnO nanorod arrays as an antireflective layer in the polycrystalline Si solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 698, 719-724.	2.8	27
287	Formation of few-layer graphene flake structures from graphite particles during thin film coating using dry spray deposition method. <i>Thin Solid Films</i> , 2017, 622, 34-40.	0.8	24
288	TiN deposition and morphology control by scalable plasma-assisted surface treatments. <i>Materials Chemistry and Physics</i> , 2017, 188, 143-153.	2.0	10
289	Effect of substrate bias on deposition behaviour of charged silicon nanoparticles in ICP-CVD process. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 035201.	1.3	11
290	Development and plasma characterization of an 850 MHz surface-wave plasma source. <i>AIP Advances</i> , 2017, 7, 105213.	0.6	5
291	Carbon-Based Nanomaterials Using Low-Temperature Plasmas for Energy Storage Application. , 2017, , 739-805.		1

#	ARTICLE	IF	CITATIONS
292	Fast nanostructured carbon microparticle synthesis by one-step high-flux plasma processing. Carbon, 2017, 124, 403-414.	5.4	5
293	Lifetime nanomanometry " high-pressure luminescence of up-converting lanthanide nanocrystals " SrF <sub>2</sub> :Yb <sup>3+</sup> ,Er <sup>3+</sup> . Nanoscale, 2017, 9, 16030-16037.	2.8	114
294	Towards large-scale in free-standing graphene and N-graphene sheets. Scientific Reports, 2017, 7, 10175.	1.6	71
295	Transition Between Beam-Plasma and Beam-Dissipative Instability Regimes in the Interaction of Relativistic Large Larmor Orbit Electron Beams and Azimuthal Surface Waves Above the Upper-Hybrid Frequency in Coaxial Plasma Waveguides. IEEE Transactions on Plasma Science, 2017, 45, 2208-2214.	0.6	2
296	Micron-scale wedge thin films prepared by plasma enhanced chemical vapor deposition. Plasma Processes and Polymers, 2017, 14, 1700043.	1.6	2
297	Spinels: Controlled Preparation, Oxygen Reduction/Evolution Reaction Application, and Beyond. Chemical Reviews, 2017, 117, 10121-10211.	23.0	1,157
298	Global transition to low-carbon electricity: A bibliometric analysis. Applied Energy, 2017, 205, 57-68.	5.1	73
299	Electron beam generated plasmas for the processing of graphene. Journal Physics D: Applied Physics, 2017, 50, 354001.	1.3	31
300	Nanocarbon materials fabricated using plasmas. Reviews of Modern Plasma Physics, 2017, 1, 1.	2.2	28
301	Unraveling atomic-level self-organization at the plasma-material interface. Journal Physics D: Applied Physics, 2017, 50, 283002.	1.3	16
302	Synthesis of vertical graphene flowers as a photoelectrocatalyst for organic degradation. Micro and Nano Letters, 2017, 12, 252-254.	0.6	5
303	Simulation study of the photoemission effects in an electrostatic plasma sheath containing charged nanoparticles. Physics of Plasmas, 2017, 24, .	0.7	2
304	Multifunctional graphene micro-islands: Rapid, low-temperature plasma-enabled synthesis and facile integration for bioengineering and genosensing applications. Biosensors and Bioelectronics, 2017, 89, 437-443.	5.3	11
305	Control of growth and structure of Ag films by the driving frequency of magnetron sputtering. Plasma Science and Technology, 2017, 19, 085504.	0.7	3
306	Observation of the stratified glow mode in helium/argon gas-confined barrier discharge at atmospheric pressure. Plasma Sources Science and Technology, 2017, 26, 09LT01.	1.3	5
307	A Guide to and Review of the Use of Multiwavelength Raman Spectroscopy for Characterizing Defective Aromatic Carbon Solids: from Graphene to Amorphous Carbons. Coatings, 2017, 7, 153.	1.2	272
308	Process-specific mechanisms of vertically oriented graphene growth in plasmas. Beilstein Journal of Nanotechnology, 2017, 8, 1658-1670.	1.5	52
309	Comparison on the Absolute Concentrations of Hydroxyl and Atomic Oxygen Generated by Five Different Nonequilibrium Atmospheric-Pressure Plasma Jets. IEEE Transactions on Radiation and Plasma Medical Sciences, 2017, 1, 541-549.	2.7	12

#	ARTICLE	IF	CITATIONS
310	Towards universal plasma-enabled platform for the advanced nanofabrication: plasma physics level approach. <i>Reviews of Modern Plasma Physics</i> , 2018, 2, 1.	2.2	28
311	Recent progress in plasma-assisted synthesis and modification of 2D materials. <i>2D Materials</i> , 2018, 5, 032002.	2.0	58
312	Rapid oxidation of CVD-grown graphene using mild atmospheric pressure O <sub>2</sub> plasma jet. <i>Surface and Coatings Technology</i> , 2018, 350, 1085-1090.	2.2	9
313	The interaction of intense femtosecond laser pulses with argon microdroplets studied near the soft x-ray emission threshold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 024006.	0.6	3
314	Switching Vertical to Horizontal Graphene Growth Using Faraday Cage-Assisted PECVD Approach for High-Performance Transparent Heating Device. <i>Advanced Materials</i> , 2018, 30, 1704839.	11.1	62
315	Effects of plasma and gas flow conditions on the structures and photoluminescence of carbon nanomaterials. <i>Diamond and Related Materials</i> , 2018, 84, 178-189.	1.8	4
316	Regularities of self-organization of technological conditions during plasma-arc synthesis of carbon nanotubes. <i>Diamond and Related Materials</i> , 2018, 85, 37-48.	1.8	4
317	Morphological transformations of BNCO nanomaterials: Role of intermediates. <i>Applied Surface Science</i> , 2018, 442, 682-692.	3.1	4
318	Carbon quantum dots from natural resource: A review. <i>Materials Today Chemistry</i> , 2018, 8, 96-109.	1.7	522
319	The effects of secondary emission on the sheath structure in an electrostatic dusty plasma containing energetic electrons and charged nanoparticles. <i>Physics of Plasmas</i> , 2018, 25, 033701.	0.7	3
320	Fabrication and Engineering of Nanostructured Supercapacitor Electrodes Using Electromagnetic Field-Based Techniques. <i>Advanced Materials Technologies</i> , 2018, 3, 1700168.	3.0	12
321	Rapid Formation of Diamond-Like Nano-Carbons in a Gas Bubble Discharge in Liquid Ethanol. <i>Plasma Chemistry and Plasma Processing</i> , 2018, 38, 75-87.	1.1	7
323	Explicit Solutions to the (3+1)-Dimensional Kudryashov-Sinelshchikov Equations in Bubbly Flow Dynamics. <i>Journal of Applied Mathematics</i> , 2018, 2018, 1-9.	0.4	6
324	Hydroxylation and self-assembly of colloidal hydrogenated nanodiamonds by aqueous oxygen radicals from atmospheric pressure plasma jet. <i>RSC Advances</i> , 2018, 8, 37681-37692.	1.7	11
325	Assessing Interaction Strategies for Health IT: An Entropy Based Approach. <i>Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare</i> , 2018, 7, 82-86.	0.2	1
326	Higher radial modes of azimuthal surface waves in magnetoactive cylindrical plasma waveguides. <i>Journal of Plasma Physics</i> , 2018, 84, .	0.7	5
327	A brief review on plasma for synthesis and processing of electrode materials. <i>Materials Today Nano</i> , 2018, 3, 28-47.	2.3	59
328	Synthesis of nanostructures using charged nanoparticles spontaneously generated in the gas phase during chemical vapor deposition. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 463002.	1.3	14

#	ARTICLE	IF	CITATIONS
329	Oriented Carbon Nanostructures by Plasma Processing: Recent Advances and Future Challenges. <i>Micromachines</i> , 2018, 9, 565.	1.4	56
331	Microfluidics and Nanofluidics: Science, Fabrication Technology (From Cleanrooms to 3D Printing) and Their Application to Chemical Analysis by Battery-Operated Microplasmas-On-Chips. , 2018, , .		7
332	Triboelectric microplasma powered by mechanical stimuli. <i>Nature Communications</i> , 2018, 9, 3733.	5.8	212
334	Plasma Jet Printing and <i>in Situ</i> Reduction of Highly Acidic Graphene Oxide. <i>ACS Nano</i> , 2018, 12, 5473-5481.	7.3	34
335	Excitation of higher radial modes of azimuthal surface waves in the electron cyclotron frequency range by rotating relativistic flow of electrons in cylindrical waveguides partially filled by plasmas. <i>Physics of Plasmas</i> , 2018, 25, 052109.	0.7	10
336	Plasma produced photoluminescent molybdenum sub-oxide nanophase materials. <i>Journal of Alloys and Compounds</i> , 2018, 765, 1167-1173.	2.8	12
337	Simulation study of the nanoparticles nucleation in a pulse-modulated capacitively coupled rf acetylene discharge. <i>Physics of Plasmas</i> , 2018, 25, .	0.7	3
338	Plasma Enabled Synthesis and Processing of Materials for Lithium-Ion Batteries. <i>Advanced Materials Technologies</i> , 2018, 3, 1800070.	3.0	21
339	Nanocarbon phase transformations controlled by solubility of carbon species in gold nanoparticles. <i>Diamond and Related Materials</i> , 2018, 88, 282-289.	1.8	2
340	Manipulation of the Superhydrophobicity of Plasma-Etched Polymer Nanostructures. <i>Micromachines</i> , 2018, 9, 304.	1.4	19
341	Capacitively Coupled Plasma Discharge of Ionic Liquid Solutions to Synthesize Carbon Dots as Fluorescent Sensors. <i>Nanomaterials</i> , 2018, 8, 372.	1.9	14
342	Ion property and electrical characteristics of 60 MHz very-high-frequency magnetron discharge at low pressure. <i>Plasma Science and Technology</i> , 2018, 20, 105401.	0.7	0
343	Microwave plasma enabled synthesis of free standing carbon nanostructures at atmospheric pressure conditions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13810-13824.	1.3	56
344	Effect of Bias Applied to the Substrate on the Low Temperature Growth of Silicon Epitaxial Films during RF-PECVD. <i>Crystal Growth and Design</i> , 2018, 18, 5816-5823.	1.4	14
345	Applications of Plasma in Energy Conversion and Storage Materials. <i>Advanced Energy Materials</i> , 2018, 8, 1801804.	10.2	77
347	White paper on the future of plasma science and technology in plastics and textiles. <i>Plasma Processes and Polymers</i> , 2019, 16, 1700228.	1.6	73
348	Plasma-nano-interface in perspective: from plasma-for-nano to nano-plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 014028.	0.9	9
349	Recent advances in plasma modification of 2D transition metal dichalcogenides. <i>Nanoscale</i> , 2019, 11, 19202-19213.	2.8	73

#	ARTICLE	IF	CITATIONS
350	Plasma Enabled Conformal and Damage Free Encapsulation of Fragile Molecular Matter: from Surface-Supported to On-Device Nanostructures. <i>Advanced Functional Materials</i> , 2019, 29, 1903535.	7.8	13
351	Graphene nanowalls conformally coated with amorphous/ nanocrystalline Si as high-performance binder-free nanocomposite anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2019, 437, 226909.	4.0	39
352	Minimization of Reflection-Loss from Etched Nano-structures of Silicon Crystal Wafers. <i>Materials Today: Proceedings</i> , 2019, 18, 1324-1328.	0.9	0
353	Structure Analysis of Nanocomposite ZnO:Fe <sub>2</sub> O <sub>3</sub> based Mineral Yarosite as Fe <sub>2</sub> O <sub>3</sub> Source and its Application Probability. <i>Materials Today: Proceedings</i> , 2019, 13, 36-40.	0.9	4
354	Luffa Pretreated by Plasma Oxidation and Acidity to Be Used as Cellulose Films. <i>Polymers</i> , 2019, 11, 37.	2.0	14
355	Finite Element Analysis of Electrostatic Field in Chiral Plasmas. <i>IEEE Access</i> , 2019, 7, 137048-137053.	2.6	1
356	Plasma and Nanomaterials: Fabrication and Biomedical Applications. <i>Nanomaterials</i> , 2019, 9, 98.	1.9	92
357	Modeling OH transport phenomena in cold plasma discharges using the level set method. <i>Plasma Science and Technology</i> , 2019, 21, 055403.	0.7	4
358	Determining the gas composition for the growth of BNNTs using a thermodynamic approach. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13268-13286.	1.3	8
359	Surface Electron Cyclotron TM-Mode Waves. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2019, , 45-116.	0.1	0
360	Effects of deposition parameters on structures and photoluminescence of MoO <sub>3</sub> - nanomaterials grown by CVD. <i>Optical Materials</i> , 2019, 92, 150-155.	1.7	26
361	Towards an integrated modeling of the plasma-solid interface. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 201-237.	2.3	34
362	Upconverting Lanthanide Fluoride Core@Shell Nanorods for Luminescent Thermometry in the First and Second Biological Windows: Er <sup>3+</sup> @SiO <sub>2</sub> Temperature Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13389-13396.	4.0	178
363	Temporal evolution of the relative vibrational population of N <sub>2</sub> (C <sup>3+</sup> u) and optical emission spectra of atmospheric pressure plasma jets in He mixtures. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 285203.	1.3	16
365	Atmospheric pressure plasma directed assembly during photoresist removal: A new route to micro and nano pattern formation. <i>Micro and Nano Engineering</i> , 2019, 3, 15-21.	1.4	10
367	Structure and photoluminescence properties of MoO <sub>3</sub> /graphene nanoflake hybrid nanomaterials formed via surface growth. <i>Applied Surface Science</i> , 2019, 480, 1054-1062.	3.1	23
368	Self-organized Growth by Sputtering and Other PVD Techniques. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 71-79.	0.3	0
369	Graphene: promising nanoplatfrom for biomedical applications. , 2019, , 307-322.		0

#	ARTICLE	IF	CITATIONS
370	Regularities of Fluoropolymer Coating Growth on Pretreated Surfaces from Active Gas Phase. Materials Science Forum, 2019, 970, 55-62.	0.3	0
371	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.	1.3	27
372	Direct CVD Growth of Graphene on Traditional Glass: Methods and Mechanisms. Advanced Materials, 2019, 31, e1803639.	11.1	114
373	Modification of cellulose fibers with inorganic luminescent nanoparticles based on lanthanide(III) ions. Carbohydrate Polymers, 2019, 206, 742-748.	5.1	36
374	Analysis and correction of probe location errors in spherical near-field antenna measurement. AEU - International Journal of Electronics and Communications, 2019, 100, 25-31.	1.7	3
375	Patterns of plasma jet arrays in the gas flow field of non-thermal atmospheric pressure plasma jets. Physics of Plasmas, 2019, 26, .	0.7	8
376	Multiscale Plasma-Catalytic On-Surface Assembly. Small, 2020, 16, 1903184.	5.2	8
377	Pressure and temperature optical sensors: luminescence of lanthanide-doped nanomaterials for contactless nanomanometry and nanothermometry. , 2020, , 227-273.		20
378	Microplasmas for Advanced Materials and Devices. Advanced Materials, 2020, 32, e1905508.	11.1	130
379	Improvement of electrochemical double-layer capacitance by fast and clean oxygen plasma treatment on activated carbon as the electrode material from walnut shells. Biomass and Bioenergy, 2020, 143, 105848.	2.9	29
380	Oriented Carbon Nanostructures from Plasma Reformed Resorcinol-Formaldehyde Polymer Gels for Gas Sensor Applications. Nanomaterials, 2020, 10, 1704.	1.9	5
381	Molecular dynamics simulations of singlet oxygen atoms reactions with water leading to hydrogen peroxide. Journal Physics D: Applied Physics, 2020, 53, 275204.	1.3	11
382	Fast preparation of vertical graphene nanosheets by helicon wave plasma chemical vapor deposition and its electrochemical performance. Diamond and Related Materials, 2020, 108, 107958.	1.8	18
383	Atmospheric pressure plasma treatments protect neural cells from ischemic stroke-relevant injuries by targeting mitochondria. Plasma Processes and Polymers, 2020, 17, 2000063.	1.6	6
384	Plasma Enhanced Wet Chemical Surface Activation of TiO2 for the Synthesis of High Performance Photocatalytic Au/TiO2 Nanocomposites. Applied Sciences (Switzerland), 2020, 10, 3345.	1.3	7
385	Development of a small-scale helical surface dielectric barrier discharge for characterizing plasma-surface interfaces. Journal Physics D: Applied Physics, 2020, 53, 275201.	1.3	4
386	The effect of metal-oxide incorporation on the morphology of carbon nanostructures. Journal Physics D: Applied Physics, 2020, 53, 145206.	1.3	2
387	DBD plasma-tuned functionalization of edge-enriched graphene nanoribbons for high performance supercapacitors. Electrochimica Acta, 2020, 337, 135741.	2.6	13

#	ARTICLE	IF	CITATIONS
388	A Highly Costâ€Efficient Largeâ€Scale Uniform Laminar Plasma Jet Array Enhanced by <i>V</i>â€<i>I</i> Characteristic Modulation in a Nonâ€Selfâ€Sustained Atmospheric Discharge. <i>Advanced Science</i> , 2020, 7, 1902616.	5.6	23
389	Synergistic Effect of Plasma and Laser Processes in Liquid for Alloyed-Nanoparticle Synthesis. <i>Physical Review Applied</i> , 2020, 13, .	1.5	13
390	Functional gas sensing nanomaterials: A panoramic view. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	295
391	Graphitic nanopetals and their applications in electrochemical energy storage and biosensing. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	6
392	When chemistry of the substrate drastically controls morphogenesis of plasma polymer thin films. <i>Plasma Processes and Polymers</i> , 2021, 18, 2000183.	1.6	3
393	Distinctive patterns and characteristics of neon jet launched from plasma candle device. <i>Plasma Processes and Polymers</i> , 2021, 18, 2000190.	1.6	7
394	Studying the plasmaâ€assisted polymerization at atmospheric pressure in Ar/TEOS by active laser diagnostics. <i>Plasma Processes and Polymers</i> , 2021, 18, 2000149.	1.6	6
395	Unusual Dependence of the Diamond Growth Rate on the Methane Concentration in the Hot Filament Chemical Vapor Deposition Process. <i>Materials</i> , 2021, 14, 426.	1.3	5
396	INFLUENCE OF THE TEMPERATURE OF MOLYBDENUM SUBSTRATES ON THE STRUCTURE OF DIAMOND COATINGS OBTAINED BY CHEMICAL VAPOR DEPOSITION FROM A HIGH-SPEED MICROWAVE PLASMA JET. <i>Journal of Structural Chemistry</i> , 2021, 62, 153-162.	0.3	5
397	Vertically Oriented Graphene Nanosheets for Electrochemical Energy Storage. <i>ChemElectroChem</i> , 2021, 8, 783-797.	1.7	9
398	Patterning and control of the nanostructure in plasma thin films with acoustic waves: mechanical<i>vs.</i>electrical polarization effects. <i>Materials Horizons</i> , 2021, 8, 515-524.	6.4	9
399	An overview of food safety and COVID-19 infection. , 2021, , 325-344.		3
400	Influence of nitrogen and oxygen admixture on the development of helium atmospheric-pressure plasma jet. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	12
401	Zeroth radial modes of azimuthal surface waves in dense plasma-loaded, coaxial helix traveling-wave-tube-like waveguides. <i>Physics of Plasmas</i> , 2021, 28, 043106.	0.7	2
402	Carbon nanowalls functionalization for efficient O2 reduction catalyzed by laccase using design of experiment. <i>Applied Surface Science</i> , 2021, 547, 149112.	3.1	11
403	Cold plasma treatment of catalytic materials: a review. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 333001.	1.3	50
404	A new sealing technology for ultra-thin glass to aluminum alloy by laser transmission welding method. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 2017-2035.	1.5	10
405	Microplasma-Tunable Graphene Quantum Dots for Ultrasensitive and Selective Detection of Cancer and Neurotransmitter Biomarkers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 34572-34583.	4.0	21

#	ARTICLE	IF	CITATIONS
406	Evolution of defect formation during atomically precise desulfurization of monolayer MoS <sub>2</sub> . Communications Materials, 2021, 2, .	2.9	23
407	Multiple current pulse behavior and its dynamics of atmospheric pressure plasma jet in a needle-to-ring configuration. Journal Physics D: Applied Physics, 2021, 54, 405201.	1.3	7
408	Future antiviral polymers by plasma processing. Progress in Polymer Science, 2021, 118, 101410.	11.8	31
409	Cold Atmospheric Plasma (CAP) Technology and Applications. Synthesis Lectures on Mechanical Engineering, 2021, 6, i-191.	0.1	3
410	AZIMUTHAL SURFACE WAVES IN LOW-DENSITY PLASMA LOADED, COAXIAL HELIX TRAVELING-WAVE-TUBE-LIKE WAVEGUIDES. , 2021, , 24-29.		1
411	Synthesis and Characterization of Nitrogen-Doped Graphene Nanowalls by Plasma-Enhanced Chemical Vapor Deposition for High Voltage Supercapacitors: Effects of Carbon Sources. Journal of the Electrochemical Society, 2021, 168, 080505.	1.3	5
412	Microfluidic plasmas: Novel technique for chemistry and chemical engineering. Chemical Engineering Journal, 2021, 417, 129355.	6.6	56
413	Application of cold plasma technology in the food industry and its combination with other emerging technologies. Trends in Food Science and Technology, 2021, 114, 355-371.	7.8	60
414	Low-temperature synthesis of vertically aligned graphene through microwave-assisted chemical vapour deposition. Thin Solid Films, 2021, 733, 138801.	0.8	13
415	Arc-Assisted Synthesis of Germanium Nanocrystals in Argon. High Energy Chemistry, 2021, 55, 402-406.	0.2	5
416	Determination of electron properties of a helium atmospheric pressure plasma jet with a grounded metallic target. Plasma Processes and Polymers, 2021, 18, e2100092.	1.6	4
417	Review on hydrogen production photocatalytically using carbon quantum dots: Future fuel. International Journal of Hydrogen Energy, 2021, 46, 37208-37241.	3.8	39
418	Numerical study on interactions of atmospheric plasmas and vegetable oils by reactive molecular dynamic simulations. Plasma Processes and Polymers, 2021, 18, e2100124.	1.6	15
419	Mechanistic actions and contributing factors affecting the antibacterial property and cytotoxicity of graphene oxide. Chemosphere, 2021, 281, 130739.	4.2	36
420	Catalyst-free carbon nanowalls grown on glass and silicon substrates by ECR-MPCVD method. Diamond and Related Materials, 2021, 120, 108610.	1.8	2
421	Evolving Technologies and Strategies for Combating Antibacterial Resistance in the Advent of the Postantibiotic Era. Advanced Functional Materials, 2020, 30, 1908783.	7.8	91
422	Cold Plasma Treatment of Soybean Oil with Hydrogen Gas. JAOCS, Journal of the American Oil Chemists' Society, 2021, 98, 103-113.	0.8	15
423	Nonthermal Plasma Technology. Food Engineering Series, 2020, , 607-628.	0.3	4



#	ARTICLE	IF	CITATIONS
424	Facile synthesis of silicon nanospheres and nanosheets using DC thermal plasma. <i>Materials Letters</i> , 2020, 268, 127616.	1.3	4
425	Observations of a helium-air gas-confined barrier discharge operated in diffuse mode. <i>Physics of Plasmas</i> , 2017, 24, .	0.7	3
426	Atmospheric Pressure Room Temperature Plasma Jets Facilitate Oxidative and Nitritive Stress and Lead to Endoplasmic Reticulum Stress Dependent Apoptosis in HepG2 Cells. <i>PLoS ONE</i> , 2013, 8, e73665.	1.1	94
427	Single-Cell-Precision Microplasma-Induced Cancer Cell Apoptosis. <i>PLoS ONE</i> , 2014, 9, e101299.	1.1	38
428	Why Are Carbon-Based Materials Important in Civilization Progress and Especially in the Industry 4.0 Stage of the Industrial Revolution. <i>Materials Performance and Characterization</i> , 2019, 8, 20190145.	0.2	20
429	Non-classical Crystallization of Bulk Crystals in Solution and of Thin Films in the Gas Phase by Chemical Vapor Deposition. <i>Electronic Materials Letters</i> , 2022, 18, 1-26.	1.0	4
430	Low-temperature synthesis of high-quality graphene by controlling the carbon-hydrogen ratio of the precursor. <i>Nano Express</i> , 2022, 3, 015003.	1.2	3
431	Synthesis and properties of SiN <sub>x</sub> coatings as stable fluorescent markers on vertically aligned carbon nanofibers. <i>AIMS Materials Science</i> , 2014, 1, 87-102.	0.7	0
432	Structures and photoluminescence properties of Se and SeMo <sub>2</sub> nanoflakes. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2016, 65, 038102.	0.2	4
433	Other Works Related to Non-classical Crystallization of Thin Films and Nanostructures. <i>Springer Series in Surface Sciences</i> , 2016, , 181-191.	0.3	0
434	Smart Biomaterials in Drug Delivery Applications. , 2016, , 65-93.		0
435	Market Scenario of Biomaterial-Based Devices. , 2016, , 207-217.		1
436	Nanotechnology: Plasma-Based. , 2016, , 874-886.		0
437	Aspects of nanomaterials for civil and military applications. Part 2. Their use and concerns arising from their release into the natural environment. <i>Materiały Wysokoenergetyczne / High Energy Materials</i> , 2020, , 17-36.	0.2	0
438	Aspects of nanomaterials for civil and military applications. Part 1. Origins, characteristics and fabrication methods. <i>Materiały Wysokoenergetyczne / High Energy Materials</i> , 2020, , 5-16.	0.2	0
439	Cold Atmospheric Pressure Plasma Sources for Cancer Applications. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2020, , 15-51.	0.1	2
440	Hydrogenated Silicon Nanoclusters with a Permanent Electric Dipole Moment for the Controlled Assembly of Silicon-Based Nanostructures. <i>ACS Applied Nano Materials</i> , 2021, 4, 12250-12260.	2.4	3
441	Laser-induced photodetachment of negative oxygen ions in the spatial afterglow of an atmospheric pressure plasma jet. <i>Plasma Sources Science and Technology</i> , 2022, 31, 025010.	1.3	3

#	ARTICLE	IF	CITATIONS
442	Fundamentals of membrane technology. , 2022, , 1-23.		0
443	Comparison of Plasma Deposition of Carbon Nanomaterials Using Various Polymer Materials as a Carbon Atom Source. Nanomaterials, 2022, 12, 246.	1.9	3
444	Plasma Induced Nanocrystalline Domain Engineering and Surface Passivation in Mesoporous Chalcogenide Semiconductor Thin Films. Angewandte Chemie, 0, , .	1.6	1
445	Plasma-Induced Nanocrystalline Domain Engineering and Surface Passivation in Mesoporous Chalcogenide Semiconductor Thin Films. Angewandte Chemie - International Edition, 2022, 61, .	7.2	8
446	Reduced Graphene Oxide-Copper Nanocomposites Synthesis via Green Chemistry. Springer Proceedings in Physics, 2022, , 315-322.	0.1	1
447	Plasma-controlled surface wettability: recent advances and future applications. International Materials Reviews, 2023, 68, 82-119.	9.4	29
448	Cold atmospheric plasma delivery for biomedical applications. Materials Today, 2022, 54, 153-188.	8.3	35
449	Effect of An Atmospheric Plasma Jet on the Differentiation of Melanoblast Progenitor. Current Medical Science, 2022, , 1.	0.7	0
450	Determination of positive anode sheath in anodic carbon arc for synthesis of nanomaterials. Journal Physics D: Applied Physics, 2022, 55, 114001.	1.3	1
451	A Novel Carbon Quantum Dots and its Applications in Drug Delivery System " A Review. Pharmacophore. Pharmacophore, 2022, 13, 62-71.	0.2	2
455	Does plasma jet sintering follow an Arrhenius-type expression?. Plasma Processes and Polymers, 2022, 19, .	1.6	3
457	Re-carbon, up-carbon, de-carbon: Plasma-electrified roll-to-roll cleaner production of vertical graphenes and syngas from greenhouse gas mixes. Carbon, 2022, 197, 301-310.	5.4	6
458	Nanochemistry as a Relevant Concept in Teaching Chemistry. Advances in Chemistry Education, 2022, , 96-117.	0.2	0
459	Manufacturable biosensors based on graphene films. , 2022, , 243-307.		0
460	Nanotechnology and Chemistry: The Unseen Scale with Magnificent Impact. Advances in Chemistry Education, 2022, , 1-35.	0.2	0
461	A review on supercapacitors based on plasma enhanced chemical vapor deposited vertical graphene arrays. Journal of Energy Storage, 2022, 53, 105212.	3.9	37
462	Nanoscale advanced carbons as an anode for lithium-ion battery. Materials Today Advances, 2022, 16, 100290.	2.5	7
463	Thiourea-Mediated Reduced Graphene Oxide Nanosheets, Their Cytotoxic Impacts on Human Prostate Cancer Cells, and Their Antibacterial Effects against E. coli Mastitis. Journal of Nanomaterials, 2022, 2022, 1-18.	1.5	1

#	ARTICLE	IF	CITATIONS
464	PECVD of Vertical Graphene: Local Plasma or Nonlocal Plasma?. Nano, 0, , .	0.5	0
465	Grand challenges in low temperature plasmas. Frontiers in Physics, 0, 10, .	1.0	16
466	Effect of nitrogen doping on the structure and electrochemical properties of vertical graphene sheets prepared by HWP-CVD. Vacuum, 2023, 207, 111624.	1.6	5
467	Electric Properties of Chiral Plasma Plumes Without External Magnetic Field. IEEE Transactions on Plasma Science, 2022, 50, 4805-4811.	0.6	3
468	Plasma-based synthesis of graphene and applications: a focused review. Reviews of Modern Plasma Physics, 2022, 6, .	2.2	9
469	Nanoplasmonâ€Nanoplasma Transition in Cu Nanoparticle: Distinction of Electron Emission. Laser and Photonics Reviews, 2023, 17, .	4.4	0
470	Engineered nanostructures: an introduction. , 2023, , 1-43.		1
471	Surfaces for hearts: Establishing the optimum plasma surface engineering methodology on polystyrene for cardiac cell engineering. Applied Surface Science, 2023, 620, 156822.	3.1	3
472	Role of helium metastable state in the interaction between He atmospheric pressure plasma jet and ns pulsed laser. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2023, 201, 106628.	1.5	0
473	Growth mechanisms of hBN crystalline nanostructures with rf sputtering deposition: challenges, opportunities, and future perspectives. Physica Scripta, 2023, 98, 042001.	1.2	1
474	Propagation of Cold Plasma Jets at Atmospheric Pressure. Springer Series in Plasma Science and Technology, 2023, , 539-555.	0.1	0
475	Synthesis and advantages of spinel-type composites. Materials Chemistry Frontiers, 2023, 7, 5288-5308.	3.2	1
478	Plasma nanotechnology: novel tool for high-performance electrode materials for energy storage and conversion. Reviews of Modern Plasma Physics, 2023, 7, .	2.2	0