

Nagahiro Saito

List of Publications by Year in descending order

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316
papers

7,274
citations

57758

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all docs

320
docs citations

320
times ranked

7245
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion resistance and chemical stability of super-hydrophobic film deposited on magnesium alloy AZ31 by microwave plasma-enhanced chemical vapor deposition. <i>Electrochimica Acta</i> , 2010, 55, 7094-7101.	5.2	269
2	Correlation of Cell Adhesive Behaviors on Superhydrophobic, Superhydrophilic, and Micropatterned Superhydrophobic/Superhydrophilic Surfaces to Their Surface Chemistry. <i>Langmuir</i> , 2010, 26, 8147-8154.	3.5	247
3	Synthesis process of gold nanoparticles in solution plasma. <i>Thin Solid Films</i> , 2009, 518, 912-917.	1.8	169
4	Simple one-step synthesis of fluorine-doped carbon nanoparticles as potential alternative metal-free electrocatalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9972-9981.	10.3	160
5	Nitrogen-Doped Carbon Nanoparticle-Carbon Nanofiber Composite as an Efficient Metal-Free Cathode Catalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6962-6971.	8.0	158
6	Size-Controlled Gold Nanoparticles Synthesized in Solution Plasma. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24569-24576.	3.1	156
7	Enhancement of ORR catalytic activity by multiple heteroatom-doped carbon materials. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 407-413.	2.8	141
8	Exotic shapes of gold nanoparticles synthesized using plasma in aqueous solution. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008, 26, 854-856.	2.1	132
9	Synthesis of structure-controlled carbon nano spheres by solution plasma process. <i>Carbon</i> , 2013, 60, 292-298.	10.3	128
10	Fabrication of bacterial cellulose-ZnO composite via solution plasma process for antibacterial applications. <i>Carbohydrate Polymers</i> , 2016, 148, 335-344.	10.2	108
11	In situ solution plasma synthesis of nitrogen-doped carbon nanoparticles as metal-free electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18677-18686.	10.3	96
12	Water-plasma-assisted synthesis of black titania spheres with efficient visible-light photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13794-13799.	2.8	89
13	Effect of treatment time in the Mg(OH) ₂ /Mg-Al LDH composite film formed on Mg alloy AZ31 by steam coating on the corrosion resistance. <i>Surface and Coatings Technology</i> , 2016, 286, 172-177.	4.8	87
14	Fabrication and Self-Assembly of Hydrophobic Gold Nanorods. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8891-8898.	2.6	82
15	Hierarchical meso-macro structure porous carbon black as electrode materials in Li-air battery. <i>Journal of Power Sources</i> , 2014, 261, 156-161.	7.8	79
16	Fastest Formation Routes of Nanocarbons in Solution Plasma Processes. <i>Scientific Reports</i> , 2016, 6, 36880.	3.3	79
17	Bipolar pulsed electrical discharge for decomposition of organic compounds in water. <i>Journal of Electrostatics</i> , 2008, 66, 294-299.	1.9	76
18	Nitrogen-doped carbon nanoparticles derived from acrylonitrile plasma for electrochemical oxygen reduction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6227-6232.	2.8	76

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19	Electrocatalytic oxygen reduction on nitrogen-doped carbon nanoparticles derived from cyano-aromatic molecules via a solution plasma approach. <i>Carbon</i> , 2016, 98, 411-420.	10.3	76
20	Surface potential microscopy for organized molecular systems. <i>Applied Surface Science</i> , 2002, 188, 403-410.	6.1	75
21	A simple synthesis method for nano-metal catalyst supported on mesoporous carbon: the solution plasma process. <i>Nanoscale</i> , 2013, 5, 6874.	5.6	74
22	Needle electrode erosion in water plasma discharge. <i>Thin Solid Films</i> , 2009, 518, 918-923.	1.8	67
23	Preparation of low molecular weight chitosan using solution plasma system. <i>Carbohydrate Polymers</i> , 2012, 87, 2745-2749.	10.2	66
24	Simple Solution Plasma Synthesis of Hierarchical Nanoporous MnO ₂ for Organic Dye Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5842-5851.	6.7	65
25	Regulation of the Surface Potential of Silicon Substrates in Micrometer Scale with Organosilane Self-Assembled Monolayers. <i>Langmuir</i> , 2002, 18, 7469-7472.	3.5	64
26	Solution plasma: A new reaction field for nanomaterials synthesis. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 0102A4.	1.5	61
27	Facile fabrication of PtAu alloy clusters using solution plasma sputtering and their electrocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2013, 552, 351-355.	5.5	60
28	Cytotoxicity against cancer cells of chitosan oligosaccharides prepared from chitosan powder degraded by electrical discharge plasma. <i>Carbohydrate Polymers</i> , 2018, 201, 20-30.	10.2	58
29	Electrocatalytic oxygen reduction activity of boron-doped carbon nanoparticles synthesized via solution plasma process. <i>Electrochemistry Communications</i> , 2015, 59, 81-85.	4.7	56
30	Discharge time dependence of a solution plasma process for colloidal copper nanoparticle synthesis and particle characteristics. <i>Nanotechnology</i> , 2013, 24, 055604.	2.6	54
31	The role of the central Fe atom in the N4-macrocyclic structure for the enhancement of oxygen reduction reaction in a heteroatom nitrogen@carbon nanosphere. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14905.	2.8	54
32	A novel one-step synthesis of gold nanoparticles in an alginate gel matrix by solution plasma sputtering. <i>RSC Advances</i> , 2014, 4, 1622-1629.	3.6	54
33	Special type of plasma dielectric barrier discharge reactor for direct ozonization of water and degradation of organic pollution. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 085207.	2.8	53
34	Degradation of Î ² -chitosan by solution plasma process (SPP). <i>Polymer Degradation and Stability</i> , 2013, 98, 2089-2093.	5.8	53
35	Microstructural characterization of gold nanoparticles synthesized by solution plasma processing. <i>Nanotechnology</i> , 2011, 22, 455701.	2.6	50
36	Rapid Synthesis and Structural Characterization of Well-Defined Gold Clusters by Solution Plasma Sputtering. <i>Crystal Growth and Design</i> , 2012, 12, 119-123.	3.0	50

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37	Solution plasma exfoliation of graphene flakes from graphite electrodes. RSC Advances, 2014, 4, 51758-51765.	3.6	50
38	Solution plasma synthesis process of tungsten carbide on N-doped carbon nanocomposite with enhanced catalytic ORR activity and durability. RSC Advances, 2014, 4, 16813.	3.6	49
39	Size-regulated gold nanoparticles fabricated by a discharge in reverse micelle solutions. Surface and Coatings Technology, 2008, 202, 5343-5346.	4.8	48
40	p-Type Doping of Graphene with Cationic Nitrogen. ACS Applied Nano Materials, 2019, 2, 1350-1355.	5.0	48
41	Fabrication of Vertically Aligned Diamond Whiskers from Highly Boron-Doped Diamond by Oxygen Plasma Etching. ACS Applied Materials & Interfaces, 2011, 3, 177-182.	8.0	47
42	Plasma-Induced Synthesis of CuO Nanofibers and ZnO Nanoflowers in Water. Plasma Chemistry and Plasma Processing, 2014, 34, 1129-1139.	2.4	47
43	Solution Plasma Process-Derived Defect-Induced Heterophase Anatase/Brookite TiO ₂ Nanocrystals for Enhanced Gaseous Photocatalytic Performance. ACS Omega, 2018, 3, 898-905.	3.5	47
44	Principle in Imaging Contrast in Scanning Electron Microscopy for Binary Microstructures Composed of Organosilane Self-Assembled Monolayers. Journal of Physical Chemistry B, 2003, 107, 664-667.	2.6	46
45	Kelvin Probe Force Microscopy Images of Microstructured Organosilane Self-Assembled Monolayers. Japanese Journal of Applied Physics, 2001, 40, 4373-4377.	1.5	44
46	Enhanced degradation of chitosan by applying plasma treatment in combination with oxidizing agents for potential use as an anticancer agent. Carbohydrate Polymers, 2017, 167, 1-11.	10.2	44
47	Effect of polymer concentration on the depolymerization of sodium alginate by the solution plasma process. Polymer Degradation and Stability, 2013, 98, 1072-1080.	5.8	43
48	Ag nanoparticle incorporation in mesoporous silica synthesized by solution plasma and their catalysis for oleic acid hydrogenation. Materials Letters, 2011, 65, 1037-1040.	2.6	42
49	Surface potential contrasts between silicon surfaces covered and uncovered with an organosilane self-assembled monolayer. Ultramicroscopy, 2002, 91, 151-156.	1.9	41
50	Synthesis and characteristics of Ag/Pt bimetallic nanocomposites by arc-discharge solution plasma processing. Nanotechnology, 2012, 23, 395602.	2.6	41
51	High sensitive detection of volatile organic compounds using superhydrophobic quartz crystal microbalance. Sensors and Actuators B: Chemical, 2012, 164, 15-21.	7.8	41
52	Narrowing band gap energy of defective black TiO ₂ fabricated by solution plasma process and its photocatalytic activity on glycerol transformation. Journal of Alloys and Compounds, 2018, 757, 188-199.	5.5	41
53	Maximization of sodium storage capacity of pure carbon material used in sodium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 16149-16160.	10.3	41
54	Facile preparation of defective black TiO ₂ through the solution plasma process: Effect of parametric changes for plasma discharge on its structural and optical properties. Journal of Alloys and Compounds, 2017, 726, 567-577.	5.5	40

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55	Influences of solution plasma conditions on degradation rate and properties of chitosan. <i>Innovative Food Science and Emerging Technologies</i> , 2015, 32, 116-120.	5.6	39
56	Conversion of cellulose into reducing sugar by solution plasma process (SPP). <i>Carbohydrate Polymers</i> , 2017, 172, 230-236.	10.2	39
57	Prediction for thermodynamic function of dioxins for gas phase using semi-empirical molecular orbital method with PM3 Hamiltonian. <i>Chemosphere</i> , 2000, 40, 131-145.	8.2	38
58	Time-resolved Optical Emission Spectroscopy in Water Electrical Discharges. <i>Plasma Chemistry and Plasma Processing</i> , 2010, 30, 619-631.	2.4	38
59	Route of glycerol conversion and product generation via TiO ₂ -induced photocatalytic oxidation in the presence of H ₂ O ₂ . <i>Chemical Engineering Journal</i> , 2015, 281, 252-264.	12.7	38
60	Origin of N 1s spectrum in amorphous carbon nitride obtained by X-ray photoelectron spectroscopy. <i>Thin Solid Films</i> , 2003, 434, 296-302.	1.8	37
61	One-step synthesis of gold bimetallic nanoparticles with various metal-compositions. <i>Journal of Alloys and Compounds</i> , 2013, 562, 74-83.	5.5	37
62	Effect of electron acceptors H ₂ O ₂ and O ₂ on the generated reactive oxygen species $^{1}O_2$ and OH in TiO ₂ -catalyzed photocatalytic oxidation of glycerol. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1975-1981.	14.0	37
63	The solution plasma process for heteroatom-carbon nanosheets: the role of precursors. <i>Scientific Reports</i> , 2017, 7, 3825.	3.3	36
64	Surface potential images of self-assembled monolayers patterned by organosilanes: ab initio molecular orbital calculations. <i>Surface and Interface Analysis</i> , 2002, 34, 601-605.	1.8	35
65	Functionalization of Multiwalled Carbon Nanotubes by Solution Plasma Processing in Ammonia Aqueous Solution and Preparation of Composite Material with Polyamide 6. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 125101.	1.5	35
66	Production of reducing sugar from cassava starch waste (CSW) using solution plasma process (SPP). <i>Carbohydrate Polymers</i> , 2019, 205, 472-479.	10.2	35
67	Fabrication and characterization of ultra-water-repellent alumina-silica composite films. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 192-197.	2.8	34
68	Depolymerization of chitosan-metal complexes via a solution plasma technique. <i>Carbohydrate Polymers</i> , 2014, 102, 504-512.	10.2	34
69	Patterned hydrophobic-hydrophilic templates made from microwave-plasma enhanced chemical vapor deposited thin films. <i>Thin Solid Films</i> , 2007, 515, 4203-4208.	1.8	33
70	The plasma-assisted formation of Ag@Co ₃ O ₄ core-shell hybrid nanocrystals for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2017, 233, 123-133.	5.2	33
71	Fabrication of biocomposite membrane with microcrystalline cellulose (MCC) extracted from sugarcane bagasse by phase inversion method. <i>Cellulose</i> , 2020, 27, 1367-1384.	4.9	33
72	Study of Alkyl Organic Monolayers with Different Molecular Chain Lengths Directly Attached to Silicon. <i>Langmuir</i> , 2006, 22, 9962-9966.	3.5	32

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73	Reduced Red Mud as the Solar Absorber for Solar-Driven Water Evaporation and Vaporâ€“Electricity Generation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30556-30564.	8.0	32
74	Surface potentials of patterned organosilane self-assembled monolayers acquired by Kelvin probe force microscopy and ab initio molecular calculation. <i>Chemical Physics Letters</i> , 2001, 349, 172-177.	2.6	31
75	Water droplets interaction with super-hydrophobic surfaces. <i>Surface Science</i> , 2006, 600, 3710-3714.	1.9	31
76	Microstructured Î€-Conjugated Organic Monolayer Covalently Attached to Silicon. <i>Langmuir</i> , 2003, 19, 10632-10634.	3.5	30
77	Heterocarbon nanosheets incorporating iron phthalocyanine for oxygen reduction reaction in both alkaline and acidic media. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10856-10863.	2.8	30
78	Solution plasma synthesis of a boronâ€“carbonâ€“nitrogen catalyst with a controllable bond structure. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15264-15272.	2.8	30
79	Solution plasma synthesis of Pt/ZnO/KB for photo-assisted electro-oxidation of methanol. <i>Journal of Alloys and Compounds</i> , 2017, 692, 848-854.	5.5	30
80	Crosslinking of a Gelatin Solutions Induced by Pulsed Electrical Discharges in Solutions. <i>Plasma Processes and Polymers</i> , 2013, 10, 792-797.	3.0	29
81	Feâ€“N-doped carbon-based composite as an efficient and durable electrocatalyst for the oxygen reduction reaction. <i>RSC Advances</i> , 2016, 6, 114553-114559.	3.6	29
82	Novel synthesis of PtPd nanoparticles with good electrocatalytic activity and durability. <i>Journal of Alloys and Compounds</i> , 2017, 709, 588-595.	5.5	29
83	Solution plasma for template removal in mesoporous silica: pH and discharge time varying characteristics. <i>Thin Solid Films</i> , 2011, 519, 7030-7035.	1.8	28
84	Surface potential microscopy for chemistry of organic self-assembled monolayers in small domains. <i>Nanotechnology</i> , 2004, 15, S69-S75.	2.6	27
85	Synthesis of mono-dispersed nanofluids using solution plasma. <i>Journal of Applied Physics</i> , 2014, 116, 024302.	2.5	27
86	Verification of Radicals Formation in Ethanolâ€“Water Mixture Based Solution Plasma and Their Relation to the Rate of Reaction. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11668-11673.	2.5	27
87	One-step facile synthesis of carbon-supported PdAu nanoparticles and their electrochemical property and stability. <i>Journal of Alloys and Compounds</i> , 2015, 619, 452-457.	5.5	27
88	Synthesis of heteroatom-carbon nanosheets by solution plasma processing using N-methyl-2-pyrrolidone as precursor. <i>RSC Advances</i> , 2016, 6, 6990-6996.	3.6	27
89	Visualization of human plasma fibrinogen adsorbed on highly oriented pyrolytic graphite by scanning probe microscopy. <i>Surface Science</i> , 2006, 600, 1674-1678.	1.9	26
90	Simple Synthesis of Platinum Nanoparticles by Plasma Sputtering in Water. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 01AN05.	1.5	26

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91	Organosilane self-assembled monolayers directly linked to the diamond surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 2005-2009.	2.1	25
92	An investigation into the effect of ionic species on the formation of ZnTe from a citric acid electrolyte. <i>Electrochimica Acta</i> , 2005, 50, 3509-3516.	5.2	25
93	A Micropatterned Multifunctional Carbohydrate Display by an Orthogonal Self-Assembling Strategy. <i>Biomacromolecules</i> , 2007, 8, 753-756.	5.4	25
94	Enhanced memory window of Au/BaTiO ₃ /SrTiO ₃ /Si(001) MFIS structure with high c-axis orientation for non-volatile memory applications. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 108, 337-342.	2.3	25
95	Accelerated nanoparticles synthesis in alcohol-water-mixture-based solution plasma. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30255-30259.	2.8	25
96	The decomposition mechanism of p-chloromethylphenyltrimethoxysiloxane self-assembled monolayers on vacuum ultraviolet irradiation. <i>Journal of Materials Chemistry</i> , 2002, 12, 2684-2687.	6.7	24
97	Charge Doping of Large-Area Graphene by Gold-Alloy Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26804-26810.	3.1	24
98	In-situ one-step synthesis of carbon-encapsulated naked magnetic metal nanoparticles conducted without additional reductants and agents. <i>Scientific Reports</i> , 2016, 6, 38652.	3.3	24
99	Synthesis of colloidal MnO ₂ with a sheet-like structure by one-pot plasma discharge in permanganate aqueous solution. <i>RSC Advances</i> , 2016, 6, 2826-2834.	3.6	24
100	Solution plasma: new synthesis method of N-doped carbon dots as ultra-sensitive fluorescence detector for 2,4,6-trinitrophenol. <i>Nano Express</i> , 2020, 1, 020043.	2.4	24
101	Morphology of High-Frequency Electrohydraulic Discharge for Liquid-Solution Plasmas. <i>IEEE Transactions on Plasma Science</i> , 2008, 36, 1158-1159.	1.3	23
102	Active Species Generated by a Pulsed Arc Electrohydraulic Discharge Plasma Channel in Contaminated Water Treatments. <i>Plasma Chemistry and Plasma Processing</i> , 2012, 32, 343-358.	2.4	23
103	Micropatterned 1-Alkene Self-Assembled Monolayer on Hydrogen-Terminated Silicon by Vacuum Ultraviolet Lithography. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 2534-2537.	1.5	22
104	Electrodeposition of CuInTe ₂ film from an acidic solution. <i>Surface and Coatings Technology</i> , 2004, 182, 156-160.	4.8	22
105	One-step facile synthesis of Pd nanoclusters supported on carbon and their electrochemical property. <i>Progress in Natural Science: Materials International</i> , 2014, 24, 593-598.	4.4	22
106	Crystallinity and surface state of cellulose in wet ball-milling process. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	22
107	Safe, superionic conductive and flexible polymer-in-plastic salts electrolytes for dendrite-free lithium metal batteries. <i>Energy Storage Materials</i> , 2020, 33, 442-451.	18.0	22
108	Synthesis of nitrogen-containing carbon by solution plasma in aniline with high-repetition frequency discharges. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 01AE18.	1.5	22

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109	Chemical resistivity of self-assembled monolayer covalently attached to silicon substrate to hydrofluoric acid and ammonium fluoride. <i>Surface Science</i> , 2003, 532-535, 970-975.	1.9	21
110	N-Doped few-layer graphene encapsulated Pt-based bimetallic nanoparticles via solution plasma as an efficient oxygen catalyst for the oxygen reduction reaction. <i>Materials Advances</i> , 2021, 2, 322-335.	5.4	21
111	Surface-Potential Reversibility of an Amino-Terminated Self-Assembled Monolayer Based on Nanoprobe Chemistry. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11602-11605.	2.6	20
112	Redox reactions in liquid plasma during iron oxide and oxide-hydroxide nanoparticles synthesis. <i>Current Applied Physics</i> , 2011, 11, S30-S34.	2.4	20
113	Gold Nanoparticle Synthesis Using Three-Dimensionally Integrated Micro-Solution Plasmas. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 126202.	1.5	20
114	One-pot synthesis of purple benzene-derived MnO ₂ -carbon hybrids and synergistic enhancement for the removal of cationic dyes. <i>Scientific Reports</i> , 2018, 8, 4342.	3.3	20
115	Mechanistic aspect based on the role of reactive oxidizing species (ROS) in macroscopic level on the glycerol photooxidation over defected and defected-free TiO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 367, 270-281.	3.9	20
116	Generation of Amino-Terminated Surfaces by Chemical Lithography Using Atomic Force Microscopy. <i>Langmuir</i> , 2004, 20, 5182-5184.	3.5	19
117	Solution Plasma Process for Template Removal in Mesoporous Silica Synthesis. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 126202.	1.5	19
118	Photocatalytic behavior of metal-decorated TiO ₂ and their catalytic activity for transformation of glycerol to value added compounds. <i>Molecular Catalysis</i> , 2017, 432, 160-171.	2.0	19
119	Fabrication and Structure of Alginate Gel Incorporating Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2008, 112, 416-422.	3.1	18
120	Characterization of platinum catalyst supported on carbon nanoballs prepared by solution plasma processing. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009, 27, 826-830.	2.1	18
121	Optical diagnostic of bipolar electrical discharges in HCl, KCl, and KOH solutions. <i>Journal of Applied Physics</i> , 2011, 109, 123301.	2.5	18
122	Liquid-Phase Plasma-Assisted in Situ Synthesis of Amino-Rich Nanocarbon for Transition Metal Ion Adsorption. <i>ACS Applied Nano Materials</i> , 2020, 3, 218-228.	5.0	18
123	Properties of DLC thin films produced by RF PE-CVD from pyrrole monomer. <i>Surface and Coatings Technology</i> , 2005, 200, 1106-1109.	4.8	17
124	Effect of the electrode work function on the water plasma breakdown voltage. <i>Current Applied Physics</i> , 2011, 11, S154-S158.	2.4	17
125	Rapid synthesis of ordered hexagonal mesoporous silica and their incorporation with Ag nanoparticles by solution plasma. <i>Materials Research Bulletin</i> , 2012, 47, 2726-2729.	5.2	17
126	Optical and mechanical properties of transparent SrTiO ₃ thin films deposited by ECR ion beam sputter deposition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 311-319.	1.8	17

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127	Photoinduced Glycerol Oxidation over Plasmonic Au and AuM (M = Pt, Pd and Bi) Nanoparticle-Decorated TiO ₂ Photocatalysts. <i>Nanomaterials</i> , 2018, 8, 269.	4.1	17
128	<i>In situ</i> synthesis of copper nanoparticles encapsulated by nitrogen-doped graphene at room temperature <i>via</i> solution plasma. <i>RSC Advances</i> , 2020, 10, 36627-36635.	3.6	17
129	Layered Perovskite Lithium Yttrium Titanate as a Low-Potential and Ultrahigh-Rate Anode for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	17
130	Solution Plasma Surface Modification for Nanocarbon-Composite Materials. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2009, 73, 938-942.	0.4	16
131	Synthesis of gold nanoparticles by solution plasma sputtering in various solvents. <i>Journal of Physics: Conference Series</i> , 2013, 417, 012030.	0.4	16
132	Surface Potential Images of Microstructured Organosilane Self-Assembled Monolayers Acquired by Kelvin Probe Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2001, 40, L174-L176.	1.5	15
133	Application of Ultra-Water-Repellent Surface to Cell Culture. <i>Journal of Bioscience and Bioengineering</i> , 2007, 104, 420-423.	2.2	15
134	Epitaxial growth of (111)-oriented BaTiO ₃ /SrTiO ₃ perovskite superlattices on Pt(111)/TiAl ₂ O ₃ (001) substrates. <i>Applied Physics Letters</i> , 2013, 103, 112902.	3.3	15
135	Generation of Three-Dimensionally Integrated Micro Solution Plasmas and Its Application to Decomposition of Organic Contaminants in Water. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2013, 26, 507-511.	0.3	15
136	Enhancement of conductivity in nano carbon balls by the addition of carbon tetrachloride via room temperature solution plasma process. <i>RSC Advances</i> , 2016, 6, 51864-51870.	3.6	15
137	Imaging micropatterned organosilane self-assembled monolayers on silicon by means of scanning electron microscopy and Kelvin probe force microscopy. <i>Surface and Interface Analysis</i> , 2003, 35, 94-98.	1.8	14
138	Reversible nanochemical conversion. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, L44.	1.6	14
139	Photolithographic Patterning of Dendrimer Monolayers and Pattern-Selective Adsorption of Linear Macromolecules. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 1792-1800.	0.9	14
140	Adhesion property of SiO _x -doped Diamond-like Carbon Films Deposited on Polycarbonate by Inductively Coupled Plasma Chemical Vapor Deposition. <i>Thin Solid Films</i> , 2011, 519, 6678-6682.	1.8	14
141	Analysis of organic pollutant degradation in pulsed plasma by coherent anti-Stokes Raman spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2011, 29, .	2.1	14
142	A phonon thermodynamics approach of gold nanofluids synthesized in solution plasma. <i>Applied Physics Letters</i> , 2014, 104, 111902.	3.3	14
143	Synthesis of Few-Layer Graphene by Peeling Graphite Flakes via Electron Exchange in Solution Plasma. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23793-23802.	3.1	14
144	Degradation of chitosan hydrogel dispersed in dilute carboxylic acids by solution plasma and evaluation of anticancer activity of degraded products. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 0102B5.	1.5	14

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145	Single-Walled Carbon Nanotubes Wrapped by Cationic Nitrogen-Doped Carbon for Electrocatalytic Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 10183-10189.	5.0	14
146	Nitrogen-doped 3D porous graphene coupled with densely distributed CoOx nanoparticles for efficient multifunctional electrocatalysis and Zn-Air battery. <i>Electrochimica Acta</i> , 2022, 420, 140432.	5.2	14
147	In situ solution plasma synthesis of mesoporous nanocarbon-supported bimetallic nanoparticles. <i>RSC Advances</i> , 2015, 5, 29131-29134.	3.6	13
148	Synthesis of Au Nanoparticles in Natural Matrices by Liquid-Phase Plasma: Effects on Cytotoxic Activity against Normal and Cancer Cell Lines. <i>ACS Applied Nano Materials</i> , 2019, 2, 8051-8062.	5.0	13
149	Solution Plasma-Assisted Green Synthesis of MnO ₂ Adsorbent and Removal of Cationic Pollutant. <i>Journal of Chemistry</i> , 2019, 2019, 1-7.	1.9	13
150	Solution plasma process for synthesizing polydiacetylene materials: Toward industrial utilization of colorimetric sensors. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 106, 243-252.	5.8	13
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