Nagahiro Saito

List of Publications by Year
in descending order

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316 papers	7,274 citations	57758 44 h-index	91884 69 g-index
320 all docs	320 docs citations	320 times ranked	7245 citing authors

#	Article	IF	Citations
1	Solution plasma process for synthesizing polydiacetylene materials: Toward industrial utilization of colorimetric sensors. Journal of Industrial and Engineering Chemistry, 2022, 106, 243-252.	5.8	13
2	Morphology control of ZnO nanostructures using Zn and W electrodes in solution plasma process. Materials Letters, 2022, 309, 131349.	2.6	4
3	Synthesis of nitrogen-doped carbons from single-source precursors by solution plasma. , 2022, , 475-505.		0
4	Flexible, solid-state, fiber-network-reinforced composite solid electrolyte for long lifespan solid lithium-sulfurized polyacrylonitrile battery. Nano Research, 2022, 15, 3290-3298.	10.4	10
5	Asymmetric Porous and Highly Hydrophilic Sulfonated Cellulose/Biomembrane Functioning as a Separator in a Lithium-Ion Battery. ACS Applied Energy Materials, 2022, 5, 6206-6218.	5.1	10
6	Design of three-dimensional isotropic negative-refractive-index metamaterials with wideband response based on an effective-medium approach. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	1
7	Nitrogen-doped 3D porous graphene coupled with densely distributed CoOx nanoparticles for efficient multifunctional electrocatalysis and Zn-Air battery. Electrochimica Acta, 2022, 420, 140432.	5.2	14
8	A non-flammable, flexible and UV-cured gel polymer electrolyte with crosslinked polymer network for dendrite-suppressing lithium metal batteries. Ionics, 2022, 28, 3743-3759.	2.4	6
9	Layered Perovskite Lithium Yttrium Titanate as a Lowâ€Potential and Ultrahighâ€Rate Anode for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2022, 12, .	19.5	17
10	N-Doped few-layer graphene encapsulated Pt-based bimetallic nanoparticles via solution plasma as an efficient oxygen catalyst for the oxygen reduction reaction. Materials Advances, 2021, 2, 322-335.	5.4	21
11	Facile synthesis of ZnO nanobullets by solution plasma without chemical additives. RSC Advances, 2021, 11, 26785-26790.	3.6	8
12	Liâ€“air battery and ORR activity of nanocarbons produced with good synthesis rate by solution plasma process. Materials Advances, 2021, 2, 2636-2641.	5.4	5
13	Deposition of carbonâ€“tungsten carbide on coir pulp to improve its compatibility with polylactic acid. Cellulose, 2021, 28, 4119-4136.	4.9	1
14	Plasma-Assisted Synthesis of Multicomponent Nanoparticles Containing Carbon, Tungsten Carbide and Silver as Multifunctional Filler for Polylactic Acid Composite Films. Polymers, 2021, 13, 991.	4.5	3
15	Insight on Solution Plasma in Aqueous Solution and Their Application in Modification of Chitin and Chitosan. International Journal of Molecular Sciences, 2021, 22, 4308.	4.1	12
16	Facile In Situ Synthesis of Amphiphilic Carbon-Supported Pt: Innovative Catalyst Preparation for Proton Exchange Membrane Fuel Cells. ACS Applied Energy Materials, 2021, 4, 5606-5614.	5.1	5
17	Natural Self-Confined Structure Effectively Suppressing Volume Expansion toward Advanced Lithium Storage. ACS Applied Materials & Interfaces, 2021, 13, 24634-24642.	8.0	5
18	Cationic nitrogen-doped graphene as a p-type modifier for high-performance PEDOT:PSS hole transporters in organic solar cells. Japanese Journal of Applied Physics, 2021, 60, 070902.	1.5	6

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19	Reduced Red Mud as the Solar Absorber for Solar-Driven Water Evaporation and Vaporâ€“Electricity Generation. ACS Applied Materials & Interfaces, 2021, 13, 30556-30564.	8.0	32
20	Structure and properties of nanocarbons-encapsulated WC synthesized by solution plasma process in palm oils. Materials Express, 2021, 11, 1602-1607.	0.5	1
21	High electrical conductivity and oxidation reduction reaction activity of tungsten carbide/carbon nanocomposite synthesized from palm oil by solution plasma process. Materials Express, 2021, 11, 1587-1593.	0.5	1
22	Effect of Oxygen Partial Pressure on Crystal Structure, Oxygen Vacancy, and Surface Morphology of Epitaxial SrTiO3 Thin Films Grown by Ion Beam Sputter Deposition. Oxygen, 2021, 1, 62-72.	5.0	3
23	Synergetic design of dopant-free defect-enriched 3D interconnected hierarchical porous graphene mesh for boosting oxygen reduction reaction. Carbon, 2021, 184, 609-617.	10.3	10
24	Au nanoparticle-decorated TiO₂ hollow fibers with enhanced visible-light photocatalytic activity toward dye degradation. RSC Advances, 2021, 12, 193-200.	3.6	6
25	Simultaneous deacetylation and degradation of chitin hydrogel by electrical discharge plasma using low sodium hydroxide concentrations. Carbohydrate Polymers, 2020, 228, 115377.	10.2	7
26	Liquid-Phase Plasma-Assisted in Situ Synthesis of Amino-Rich Nanocarbon for Transition Metal Ion Adsorption. ACS Applied Nano Materials, 2020, 3, 218-228.	5.0	18
27	Fabrication of biocomposite membrane with microcrystalline cellulose (MCC) extracted from sugarcane bagasse by phase inversion method. Cellulose, 2020, 27, 1367-1384.	4.9	33
28	In situ synthesis of copper nanoparticles encapsulated by nitrogen-doped graphene at room temperature via solution plasma. RSC Advances, 2020, 10, 36627-36635.	3.6	17
29	Single-Walled Carbon Nanotubes Wrapped by Cationic Nitrogen-Doped Carbon for Electrocatalytic Applications. ACS Applied Nano Materials, 2020, 3, 10183-10189.	5.0	14
30	Safe, superionic conductive and flexible â€œpolymer-in-plastic saltsâ€•electrolytes for dendrite-free lithium metal batteries. Energy Storage Materials, 2020, 33, 442-451.	18.0	22
31	Effect of electrical discharge plasma on cytotoxicity against cancer cells of N,O-carboxymethyl chitosan-stabilized gold nanoparticles. Carbohydrate Polymers, 2020, 237, 116162.	10.2	12
32	Solution plasma: new synthesis method of N-doped carbon dots as ultra-sensitive fluorescence detector for 2,4,6-trinitrophenol. Nano Express, 2020, 1, 020043.	2.4	24
33	Synthesis of Nanomaterials Using Solution Plasma Process. , 2019, , 343-355.		2
34	Synthesis of Au Nanoparticles in Natural Matrices by Liquid-Phase Plasma: Effects on Cytotoxic Activity against Normal and Cancer Cell Lines. ACS Applied Nano Materials, 2019, 2, 8051-8062.	5.0	13
35	Enhanced degradation of methylene blue by a solution plasma process catalyzed by incidentally co-generated copper nanoparticles. Water Science and Technology, 2019, 79, 967-974.	2.5	6
36	Quantitative spectrochemical analysis of solution plasma in aromatic molecules. Plasma Processes and Polymers, 2019, 16, e1900012.	3.0	5

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37	Solution Plasma-Assisted Green Synthesis of MnO₂Adsorbent and Removal of Cationic Pollutant. Journal of Chemistry, 2019, 2019, 1-7.	1.9	13
38	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
39	p-Type Doping of Graphene with Cationic Nitrogen. ACS Applied Nano Materials, 2019, 2, 1350-1355.	5.0	48
40	Nitriding an Oxygen-Doped Nanocarbonaceous Sorbent Synthesized via Solution Plasma Process for Improving CO2 Adsorption Capacity. Nanomaterials, 2019, 9, 1776.	4.1	6
41	Production of reducing sugar from cassava starch waste (CSW) using solution plasma process (SPP). Carbohydrate Polymers, 2019, 205, 472-479.	10.2	35
42	In vitro cytotoxicity of carbon black nanoparticles synthesized from solution plasma on human lung fibroblast cells. Japanese Journal of Applied Physics, 2018, 57, 0102BG.	1.5	10
43	Solution Plasma Process-Derived Defect-Induced Heterophase Anatase/Brookite TiO₂ Nanocrystals for Enhanced Gaseous Photocatalytic Performance. ACS Omega, 2018, 3, 898-905.	3.5	47
44	One-pot synthesis of purple benzene-derived MnO2-carbon hybrids and synergistic enhancement for the removal of cationic dyes. Scientific Reports, 2018, 8, 4342.	3.3	20
45	Degradation of chitosan hydrogel dispersed in dilute carboxylic acids by solution plasma and evaluation of anticancer activity of degraded products. Japanese Journal of Applied Physics, 2018, 57, 0102B5.	1.5	14
46	Accelerated formation of nanocarbons in solution plasma using benzene substituted with CF₃ group. Japanese Journal of Applied Physics, 2018, 57, 0102B6.	1.5	0
47	Synthesis of siliconâ€“carbon black composite as anode material for lithium ion battery. Japanese Journal of Applied Physics, 2018, 57, 0102B2.	1.5	2
48	Solution plasma: A new reaction field for nanomaterials synthesis. Japanese Journal of Applied Physics, 2018, 57, 0102A4.	1.5	61
49	Solution plasma applications for the synthesis/modification of inorganic nanostructured materials and the treatment of natural polymers. Japanese Journal of Applied Physics, 2018, 57, 0102A3.	1.5	11
50	Enhancement of nitrogen self-doped nanocarbons electrocatalyst via tune-up solution plasma synthesis. RSC Advances, 2018, 8, 35503-35511.	3.6	7
51	Mechanistic aspect based on the role of reactive oxidizing species (ROS) in macroscopic level on the glycerol photooxidation over defected and defected-free TiO2. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 367, 270-281.	3.9	20
52	Photoinduced Glycerol Oxidation over Plasmonic Au and AuM (M = Pt, Pd and Bi) Nanoparticle-Decorated TiO2 Photocatalysts. Nanomaterials, 2018, 8, 269.	4.1	17
53	ThicknessâEDependent Strain Evolution of Epitaxial SrTiO₃ Thin Films Grown by Ion Beam Sputter Deposition. Crystal Research and Technology, 2018, 53, 1700211.	1.3	5
54	Narrowing band gap energy of defective black TiO2 fabricated by solution plasma process and its photocatalytic activity on glycerol transformation. Journal of Alloys and Compounds, 2018, 757, 188-199.	5.5	41

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55	Cytotoxicity against cancer cells of chitosan oligosaccharides prepared from chitosan powder degraded by electrical discharge plasma. Carbohydrate Polymers, 2018, 201, 20-30.	10.2	58
56	Enhancing Bifunctional Catalytic Activity of Oxygen Reduction and Evolution Reaction via Oneâ€Pot Formation of MnO₂â€Carbon Hybrid Nanocomposite. ChemistrySelect, 2018, 3, 6302-6308.	1.5	11
57	The Initial Reactions from Pyridine to Hetero-Carbon Nanomaterials Through Solution Plasma. Nanoscience and Nanotechnology Letters, 2018, 10, 814-819.	0.4	7
58	The Nano-Structure and Their Properties of Exfoliation Several Layers-Stacked Graphene Prepared from Graphite Dispersed in Aqueous Solutions by Solution Plasma. Nanoscience and Nanotechnology Letters, 2018, 10, 784-789.	0.4	3
59	Nano-Assembled Thin Films of Tetraphenylporphyrin on Amine Silane-Modified Substrate for the Optical Gas Sensor. Nanoscience and Nanotechnology Letters, 2018, 10, 667-674.	0.4	0
60	Crystallinity and surface state of cellulose in wet ballâ€milling process. Journal of Applied Polymer Science, 2017, 134, .	2.6	22
61	The plasma-assisted formation of Ag@Co3O4 core-shell hybrid nanocrystals for oxygen reduction reaction. Electrochimica Acta, 2017, 233, 123-133.	5.2	33
62	Solution plasma synthesis of a boronâ€“carbonâ€“nitrogen catalyst with a controllable bond structure. Physical Chemistry Chemical Physics, 2017, 19, 15264-15272.	2.8	30
63	Conversion of cellulose into reducing sugar by solution plasma process (SPP). Carbohydrate Polymers, 2017, 172, 230-236.	10.2	39
64	The solution plasma process for heteroatom-carbon nanosheets: the role of precursors. Scientific Reports, 2017, 7, 3825.	3.3	36
65	Simple Solution Plasma Synthesis of Hierarchical Nanoporous MnO₂ for Organic Dye Removal. ACS Sustainable Chemistry and Engineering, 2017, 5, 5842-5851.	6.7	65
66	Novel synthesis of PtPd nanoparticles with good electrocatalytic activity and durability. Journal of Alloys and Compounds, 2017, 709, 588-595.	5.5	29
67	Photocatalytic behavior of metal-decorated TiO2 and their catalytic activity for transformation of glycerol to value added compounds. Molecular Catalysis, 2017, 432, 160-171.	2.0	19
68	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
69	Generation of nonâ€equilibrium condition in solution plasma discharge using lowâ€pass filter circuit. Plasma Processes and Polymers, 2017, 14, 1600163.	3.0	6
70	Synthesis of Few-Layer Graphene by Peeling Graphite Flakes via Electron Exchange in Solution Plasma. Journal of Physical Chemistry C, 2017, 121, 23793-23802.	3.1	14
71	Synthesis of Carbon Nanoparticles from Used Motor Oil and Benzene via Solution Plasma Process. Key Engineering Materials, 2017, 751, 773-778.	0.4	0
72	Simple introduction of carboxyl head group with alkyl spacer onto multiwalled carbon nanotubes by solution plasma process. Japanese Journal of Applied Physics, 2017, 56, 096202.	1.5	11

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73	Facile preparation of defective black TiO2 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
74	Enhanced ferromagnetism in graphite-like carbon layer-coated ZnO crystals. Journal of Alloys and Compounds, 2017, 695, 233-237.	5.5	6
75	Solution plasma synthesis of Pt/ZnO/KB for photo-assisted electro-oxidation of methanol. Journal of Alloys and Compounds, 2017, 692, 848-854.	5.5	30
76	New insights into vegetable oil pyrolysis by cold plasma technique. Energy Procedia, 2017, 138, 1153-1158.	1.8	12
77	The Control of Specific Surface Area of Nanocarbon Synthesized in Solution Plasma by Using the Structure of Reverse Micelle. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2017, 68, 153-157.	0.2	0
78	Influences of Plasma Formation Parameters on Size of Zinc Oxides Nanoparticles Synthesized by Solution Plasma. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2017, 68, 147-152.	0.2	0
79	Solution Plasma Reaction Field for Materials Synthesis . Journal of MMIJ, 2016, 132, 47-52.	0.3	4
80	Effect of electron acceptors H2O2 and O2 on the generated reactive oxygen species 1O2 and OH in TiO2-catalyzed photocatalytic oxidation of glycerol. Chinese Journal of Catalysis, 2016, 37, 1975-1981.	14.0	37
81	Fastest Formation Routes of Nanocarbons in Solution Plasma Processes. Scientific Reports, 2016, 6, 36880.	3.3	79
82	Adsorption of carbon dioxide by solution-plasma-synthesized heteroatom-doped carbon nanospheres. Japanese Journal of Applied Physics, 2016, 55, 01AE10.	1.5	9
83	Feâ€“N-doped carbon-based composite as an efficient and durable electrocatalyst for the oxygen reduction reaction. RSC Advances, 2016, 6, 114553-114559.	3.6	29
84	Effect of microstructure on corrosion resistance and heat resistance of flame-resistant Ca-added magnesium alloy AZ61. Keikinzoku/Journal of Japan Institute of Light Metals, 2016, 66, 9-14.	0.4	1
85	In-situ one-step synthesis of carbon-encapsulated naked magnetic metal nanoparticles conducted without additional reductants and agents. Scientific Reports, 2016, 6, 38652.	3.3	24
86	Electrocatalytic oxygen reduction on nitrogen-doped carbon nanoparticles derived from cyano-aromatic molecules via a solution plasma approach. Carbon, 2016, 98, 411-420.	10.3	76
87	Enhancement of conductivity in nano carbon balls by the addition of carbon tetrachloride via room temperature solution plasma process. RSC Advances, 2016, 6, 51864-51870.	3.6	15
88	Synthesis of SnO2nanoparticles using a solution plasma and their gas-sensing properties. Japanese Journal of Applied Physics, 2016, 55, 01AE17.	1.5	6
89	Fabrication of bacterial cellulose-ZnO composite via solution plasma process for antibacterial applications. Carbohydrate Polymers, 2016, 148, 335-344.	10.2	108
90	Analysis of benzoquinone decomposition in solution plasma process. Journal of Instrumentation, 2016, 11, C01009-C01009.	1.2	2

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91	DFT calculation of oxygen adsorption on a core-single shell ZnNb catalyst. RSC Advances, 2016, 6, 98091-98095.	3.6	3
92	Differences in intermediate structures and electronic states associated with oxygen adsorption onto Pt, Cu, and Au clusters as oxygen reduction catalysts. Journal Physics D: Applied Physics, 2016, 49, 415305.	2.8	5
93	Heterocarbon nanosheets incorporating iron phthalocyanine for oxygen reduction reaction in both alkaline and acidic media. Physical Chemistry Chemical Physics, 2016, 18, 10856-10863.	2.8	30
94	Synthesis of colloidal MnO₂with a sheet-like structure by one-pot plasma discharge in permanganate aqueous solution. RSC Advances, 2016, 6, 2826-2834.	3.6	24
95	Synthesis of heteroatom-carbon nanosheets by solution plasma processing using N-methyl-2-pyrrolidone as precursor. RSC Advances, 2016, 6, 6990-6996.	3.6	27
96	A simple synthesis method for nanostructured Co-WC/carbon composites with enhanced oxygen reduction reaction activity. Science and Technology of Advanced Materials, 2016, 17, 37-44.	6.1	12
97	High Efficiency DNA Extraction by Graphite Oxide/Cellulose/Magnetite Composites Under Na+ Free System. Jom, 2016, 68, 1071-1077.	1.9	1
98	Nitrogen-Doped Carbon Nanoparticleâ€“Carbon Nanofiber Composite as an Efficient Metal-Free Cathode Catalyst for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 6962-6971.	8.0	158
99	Effect of treatment time in the Mg(OH)2/Mgâ€“Al LDH composite film formed on Mg alloy AZ31 by steam coating on the corrosion resistance. Surface and Coatings Technology, 2016, 286, 172-177.	4.8	87
100	Non-thermal plasma technology for abatement of pollutant emission from marine diesel engine. Journal of Advanced Marine Engineering and Technology, 2016, 40, 929-934.	0.4	3
101	Synthesis of nitrogen-containing carbon by solution plasma in aniline with high-repetition frequency discharges. Japanese Journal of Applied Physics, 2016, 55, 01AE18.	1.5	22
102	Highly durable silica-coated Pt/carbon nanotubes for proton-exchange membrane fuel cells application. Japanese Journal of Applied Physics, 2016, 55, 01AE23.	1.5	3
103	Fabrication of nickel nanoparticles-embedded carbon particles by solution plasma in waste vegetable oil. Journal of Advanced Marine Engineering and Technology, 2016, 40, 894-898.	0.4	0
104	Degradation of synthetic dye in water by solution plasma process. Journal of Advanced Marine Engineering and Technology, 2016, 40, 888-893.	0.4	1
105	Cellulose Conversion to Sugar Alcohol by Solution Plasma Processing. Materials Research Society Symposia Proceedings, 2015, 1745, 22.	0.1	2
106	From Cyano-aromatic Molecules to Nitrogen-doped Carbons by Solution Plasma for the Oxygen Reduction Reaction in Alkaline Medium. Materials Today: Proceedings, 2015, 2, 4302-4308.	1.8	6
107	The Effect of Electrode Gap Distance on the Synthesis of Carbon Materials by Using Solution Plasma Process. Jom, 2015, 67, 2550-2556.	1.9	10
108	Innovative Graphite Oxide-Cellulose Based Material Specific for Genomic DNA Extraction. Jom, 2015, 67, 2557-2563.	1.9	1

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109	Simple one-step synthesis of fluorine-doped carbon nanoparticles as potential alternative metal-free electrocatalysts for oxygen reduction reaction. Journal of Materials Chemistry A, 2015, 3, 9972-9981.	10.3	160
110	Nitrogen-doped carbon nanoparticles derived from acrylonitrile plasma for electrochemical oxygen reduction. Physical Chemistry Chemical Physics, 2015, 17, 6227-6232.	2.8	76
111	Accelerated nanoparticles synthesis in alcoholâ€“water-mixture-based solution plasma. Physical Chemistry Chemical Physics, 2015, 17, 30255-30259.	2.8	25
112	Route of glycerol conversion and product generation via TiO2-induced photocatalytic oxidation in the presence of H2O2. Chemical Engineering Journal, 2015, 281, 252-264.	12.7	38
113	Water-plasma-assisted synthesis of black titania spheres with efficient visible-light photocatalytic activity. Physical Chemistry Chemical Physics, 2015, 17, 13794-13799.	2.8	89
114	Direct Deposition of Gold Nanoparticles on Cellulose Fiber by Solution Plasma Process. Materials Research Society Symposia Proceedings, 2015, 1723, 12.	0.1	1
115	Highly durable silica coated Pt/Cs with different surfactant types for proton exchange membrane fuel cell applications. RSC Advances, 2015, 5, 44258-44262.	3.6	4
116	Thermal plasma treatment of stormwater sediments: comparison between DC non-transferred and partially transferred arc plasma. Environmental Technology (United Kingdom), 2015, 36, 1672-1679.	2.2	7
117	Communicationâ€”In Situ Formation of Anticorrosive Mg(OH)₂/Carbon Composite Film on Magnesium Alloy by Ascorbic Acid-Assisted Hydrothermal Process. Journal of the Electrochemical Society, 2015, 162, C741-C743.	2.9	6
118	Enhancement of ORR catalytic activity by multiple heteroatom-doped carbon materials. Physical Chemistry Chemical Physics, 2015, 17, 407-413.	2.8	141
119	Influences of solution plasma conditions on degradation rate and properties of chitosan. Innovative Food Science and Emerging Technologies, 2015, 32, 116-120.	5.6	39
120	Electrocatalytic oxygen reduction activity of boron-doped carbon nanoparticles synthesized via solution plasma process. Electrochemistry Communications, 2015, 59, 81-85.	4.7	56
121	Adsorption and desorption of DNA tuned by hydroxyl groups in graphite oxides-based solid extraction material. Colloids and Surfaces B: Biointerfaces, 2015, 136, 1-6.	5.0	2
122	In situ solution plasma synthesis of mesoporous nanocarbon-supported bimetallic nanoparticles. RSC Advances, 2015, 5, 29131-29134.	3.6	13
123	Verification of Radicals Formation in Ethanolâ€“Water Mixture Based Solution Plasma and Their Relation to the Rate of Reaction. Journal of Physical Chemistry A, 2015, 119, 11668-11673.	2.5	27
124	A new approach of nonpoint source pollution/stormwater sludge treatment by an integrated thermal plasma system. International Journal of Environmental Science and Technology, 2015, 12, 1769-1778.	3.5	6
125	One-step facile synthesis of carbon-supported PdAu nanoparticles and their electrochemical property and stability. Journal of Alloys and Compounds, 2015, 619, 452-457.	5.5	27
126	One-step facile synthesis of Pd nanoclusters supported on carbon and their electrochemical property. Progress in Natural Science: Materials International, 2014, 24, 593-598.	4.4	22

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127	A Study on Electron Impact Dissociative Ionization of Organosilicon Precursors for Plasma Processing. Journal of Nanoscience and Nanotechnology, 2014, 14, 9653-9656.	0.9	1
128	Synthesis of mono-dispersed nanofluids using solution plasma. Journal of Applied Physics, 2014, 116, 024302.	2.5	27
129	Growth of Highly (100)â€Oriented <scp><scp>SrTiO</scp></scp>₃ Thin Films on Si(111) Substrates Without Buffer Layer. Journal of the American Ceramic Society, 2014, 97, 1383-1385.	3.8	3
130	Influence of the discharge time of solution plasma process on the formation of gold nanoparticles in alginate matrix. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 3099-3103.	5.3	10
131	Depolymerization of chitosanâ€“metal complexes via a solution plasma technique. Carbohydrate Polymers, 2014, 102, 504-512.	10.2	34
132	A phonon thermodynamics approach of gold nanofluids synthesized in solution plasma. Applied Physics Letters, 2014, 104, 111902.	3.3	14
133	X-ray analysis of strain distribution in two-step grown epitaxial SrTiO3 thin films. Applied Physics Letters, 2014, 105, 051911.	3.3	2
134	The role of the central Fe atom in the N4-macrocyclic structure for the enhancement of oxygen reduction reaction in a heteroatom nitrogenâ€“carbon nanosphere. Physical Chemistry Chemical Physics, 2014, 16, 14905.	2.8	54
135	Solution plasma exfoliation of graphene flakes from graphite electrodes. RSC Advances, 2014, 4, 51758-51765.	3.6	50
136	In situ solution plasma synthesis of nitrogen-doped carbon nanoparticles as metal-free electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 18677-18686.	10.3	96
137	Effect of growth temperature on structural and morphological evolution of epitaxial SrTiO3 thin films grown on LaAlO3 (001) substrates by ion beam sputter deposition. Vacuum, 2014, 109, 175-179.	3.5	8
138	A novel one-step synthesis of gold nanoparticles in an alginate gel matrix by solution plasma sputtering. RSC Advances, 2014, 4, 1622-1629.	3.6	54
139	Plasma-Induced Synthesis of CuO Nanofibers and ZnO Nanoflowers in Water. Plasma Chemistry and Plasma Processing, 2014, 34, 1129-1139.	2.4	47
140	Hierarchical mesoâ€“macro structure porous carbon black as electrode materials in Liâ€“air battery. Journal of Power Sources, 2014, 261, 156-161.	7.8	79
141	Controlled crystalline orientation of SrTiO3 thin films grown on Pt(111)/Ti/Î±-Al2O3(0001) substrates: Effect of growth temperature and Ti layer thickness. Applied Surface Science, 2014, 309, 95-105.	6.1	3
142	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
143	Solution Plasma Synthesis of Nitrogen-Doped Carbon Nanoballs as Effective Metal-Free Electrocatalysts for Oxygen Reduction Reaction. Materials Research Society Symposia Proceedings, 2014, 1641, 1.	0.1	1
144	Synthesis of gold nanoparticles by solution plasma sputtering in various solvents. Journal of Physics: Conference Series, 2013, 417, 012030.	0.4	16

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145	One-step synthesis of gold bimetallic nanoparticles with various metal-compositions. Journal of Alloys and Compounds, 2013, 562, 74-83.	5.5	37
146	Nanomechanical Properties of Amorphous and Polycrystalline SrTiO3 Transparent Thin Films Prepared by Ion Beam Sputtering. Journal of Materials Engineering and Performance, 2013, 22, 863-868.	2.5	4
147	Degradation of Î²-chitosan by solution plasma process (SPP). Polymer Degradation and Stability, 2013, 98, 2089-2093.	5.8	53
148	Fabrication and characterization of epitaxial SrTiO3/Nb-doped SrTiO3 superlattices by double ECR ion beam sputter deposition. Vacuum, 2013, 89, 35-39.	3.5	4
149	Growth of highly (110)- and (111)-textured SrTiO3 thin films on Pt(111)/Î±-Al2O3(0001) substrates by ECR ion beam sputter deposition. Solid State Communications, 2013, 158, 65-69.	1.9	6
150	Functionalization of Multiwalled Carbon Nanotubes by Solution Plasma Processing in Ammonia Aqueous Solution and Preparation of Composite Material with Polyamide 6. Japanese Journal of Applied Physics, 2013, 52, 125101.	1.5	35
151	Facile fabrication of PtAu alloy clusters using solution plasma sputtering and their electrocatalytic activity. Journal of Alloys and Compounds, 2013, 552, 351-355.	5.5	60
152	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
153	The Role of Activated Nitrogen Species on Double-folded Screen Nitriding Process. Journal of Physics: Conference Series, 2013, 417, 012023.	0.4	7
154	Synthesis of structure-controlled carbon nano spheres by solution plasma process. Carbon, 2013, 60, 292-298.	10.3	128
155	Discharge time dependence of a solution plasma process for colloidal copper nanoparticle synthesis and particle characteristics. Nanotechnology, 2013, 24, 055604.	2.6	54
156	A simple synthesis method for nano-metal catalyst supported on mesoporous carbon: the solution plasma process. Nanoscale, 2013, 5, 6874.	5.6	74
157	Charge Doping of Large-Area Graphene by Gold-Alloy Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 26804-26810.	3.1	24
158	Highly efficient treatment of industrial wastewater by solution plasma with low environmental load. Water Science and Technology, 2013, 68, 923-928.	2.5	3
159	In situ Preparation of Gold Nanoparticles in Alginate Gel Matrix by Solution Plasma Sputtering Process. Materials Research Society Symposia Proceedings, 2013, 1569, 151-155.	0.1	1
160	Simple Synthesis of Platinum Nanoparticles by Plasma Sputtering in Water. Japanese Journal of Applied Physics, 2013, 52, 01AN05.	1.5	26
161	Crosslinking of a Gelatin Solutions Induced by Pulsed Electrical Discharges in Solutions. Plasma Processes and Polymers, 2013, 10, 792-797.	3.0	29
162	Epitaxial growth of (111)-oriented BaTiO₃/SrTiO₃ perovskite superlattices on Pt(111)/Ti/Al₂O₃(0001) substrates. Applied Physics Letters, 2013, 103, 112902.	3.3	15

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163	Gold Nanoparticle Synthesis Using Three-Dimensionally Integrated Micro-Solution Plasmas. Japanese Journal of Applied Physics, 2013, 52, 126202.	1.5	20
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