

Sang Woo Joo

List of Publications by Year in descending order

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251
papers

7,812
citations

81900

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times ranked

8977
citing authors

#	ARTICLE	IF	CITATIONS
1	Dendrimers: synthesis, applications, and properties. <i>Nanoscale Research Letters</i> , 2014, 9, 247.	5.7	880
2	Carbon nanotubes: properties, synthesis, purification, and medical applications. <i>Nanoscale Research Letters</i> , 2014, 9, 393.	5.7	865
3	Hierarchically structured ternary heterojunctions based on Ce ³⁺ /Ce ⁴⁺ modified Fe ₃ O ₄ nanoparticles anchored onto graphene oxide sheets as magnetic visible-light-active photocatalysts for decontamination of oxytetracycline. <i>Journal of Hazardous Materials</i> , 2019, 376, 200-211.	12.4	284
4	Sonochemical synthesis of Pr-doped ZnO nanoparticles for sonocatalytic degradation of Acid Red 17. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 371-381.	8.2	236
5	Synthesis and Characterization of Dysprosium-Doped ZnO Nanoparticles for Photocatalysis of a Textile Dye under Visible Light Irradiation. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1924-1932.	3.7	182
6	Oxygen Vacancy-Induced Structural, Optical, and Enhanced Supercapacitive Performance of Zinc Oxide Anchored Graphitic Carbon Nanofiber Hybrid Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5025-5039.	8.0	165
7	Effects of Electroosmotic Flow on Ionic Current Rectification in Conical Nanopores. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3883-3890.	3.1	164
8	Sonocatalytic degradation of a textile dye over Gd-doped ZnO nanoparticles synthesized through sonochemical process. <i>Ultrasonics Sonochemistry</i> , 2015, 23, 219-230.	8.2	162
9	Cerium doped magnetite nanoparticles for highly sensitive detection of metronidazole via chemiluminescence assay. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 234, 118272.	3.9	135
10	Recent developments in TiO ₂ as n- and p-type transparent semiconductors: synthesis, modification, properties, and energy-related applications. <i>Journal of Materials Science</i> , 2015, 50, 7495-7536.	3.7	114
11	Field Effect Control of Surface Charge Property and Electroosmotic Flow in Nanofluidics. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4209-4216.	3.1	100
12	Synthesis of pyrrolidinone derivatives from aniline, an aldehyde and diethyl acetylenedicarboxylate in an ethanolic citric acid solution under ultrasound irradiation. <i>Green Chemistry</i> , 2016, 18, 3582-3593.	9.0	100
13	Green synthesis of Ni-Cu-Zn ferrite nanoparticles using tragacanth gum and their use as an efficient catalyst for the synthesis of polyhydroquinoline derivatives. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3823.	3.5	81
14	Ultrasonics in isocyanide-based multicomponent reactions: A new, efficient and fast method for the synthesis of fully substituted 1,3,4-oxadiazole derivatives under ultrasound irradiation. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 391-396.	8.2	77
15	Green oxidation of alcohols by using hydrogen peroxide in water in the presence of magnetic Fe ₃ O ₄ nanoparticles as recoverable catalyst. <i>Green Chemistry Letters and Reviews</i> , 2014, 7, 257-264.	4.7	75
16	Heterogeneous sono-Fenton process using pyrite nanorods prepared by non-thermal plasma for degradation of an anthraquinone dye. <i>Ultrasonics Sonochemistry</i> , 2016, 32, 357-370.	8.2	72
17	Transient electrophoretic motion of a charged particle through a converging-diverging microchannel: Effect of direct current dielectrophoretic force. <i>Electrophoresis</i> , 2009, 30, 2499-2506.	2.4	66
18	dc electrokinetic transport of cylindrical cells in straight microchannels. <i>Biomicrofluidics</i> , 2009, 3, 44110.	2.4	63

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19	Catalyst-free sonosynthesis of highly substituted propanamide derivatives in water. Ultrasonics Sonochemistry, 2016, 28, 393-399.	8.2	63
20	Sonocatalytic performance of Er-doped ZnO for degradation of a textile dye. Ultrasonics Sonochemistry, 2015, 27, 379-388.	8.2	61
21	Removal of a hazardous heavy metal from aqueous solution using functionalized graphene and boron nitride nanosheets: Insights from simulations. Journal of Molecular Graphics and Modelling, 2015, 61, 13-20.	2.4	57
22	Sonocatalytic degradation of Acid Blue 92 using sonochemically prepared samarium doped zinc oxide nanostructures. Ultrasonics Sonochemistry, 2016, 29, 27-38.	8.2	57
23	Improved electrochemical properties of morphology-controlled titania/titanate nanostructures prepared by in-situ hydrothermal surface modification of self-source Ti substrate for high-performance supercapacitors. Scientific Reports, 2017, 7, 13227.	3.3	51
24	Kinetics and Mechanism of Enhanced Photocatalytic Activity under Visible Light Using Synthesized PrCdSe Nanoparticles. Industrial & Engineering Chemistry Research, 2013, 52, 13357-13369.	3.7	50
25	An Enhanced One-Layer Passive Microfluidic Mixer With an Optimized Lateral Structure With the Dean Effect. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.5	49
26	Direct patterning of conductive carbon nanotube/polystyrene sulfonate composites via electrohydrodynamic jet printing for use in organic field-effect transistors. Journal of Materials Chemistry C, 2016, 4, 4912-4919.	5.5	49
27	Self-assembled and highly faceted growth of Mo and V doped ZnO nanoflowers for high-performance supercapacitors. Journal of Alloys and Compounds, 2021, 886, 161234.	5.5	49
28	Diffusiophoresis of an Elongated Cylindrical Nanoparticle along the Axis of a Nanopore. ChemPhysChem, 2010, 11, 3281-3290.	2.1	47
29	Functionalized graphene as a nanostructured membrane for removal of copper and mercury from aqueous solution: A molecular dynamics simulation study. Journal of Molecular Graphics and Modelling, 2014, 53, 112-117.	2.4	47
30	Magnetic nickel ferrite nanoparticles as an efficient catalyst for the preparation of polyhydroquinoline derivatives under microwave irradiation in solvent-free conditions. Research on Chemical Intermediates, 2016, 42, 2487-2500.	2.7	47
31	Dewetting of Stable Thin Polymer Films Induced by a Poor Solvent: Role of Polar Interactions. Macromolecules, 2012, 45, 6628-6633.	4.8	46
32	One-step multiplexed detection of foodborne pathogens: Combining a quantum dot-mediated reverse assaying strategy and magnetic separation. Biosensors and Bioelectronics, 2016, 86, 996-1002.	10.1	46
33	An Enhanced Electroosmotic Micromixer with an Efficient Asymmetric Lateral Structure. Micromachines, 2016, 7, 218.	2.9	45
34	Biowaste-derived carbon black applied to polyaniline-based high-performance supercapacitor microelectrodes: Sustainable materials for renewable energy applications. Electrochimica Acta, 2019, 316, 202-218.	5.2	45
35	DNA Electrokinetic Translocation through a Nanopore: Local Permittivity Environment Effect. Journal of Physical Chemistry C, 2012, 116, 4793-4801.	3.1	44
36	Conversion of Natural Clinoptilolite Microparticles to Nanorods by Glow Discharge Plasma: A Novel Fe-Impregnated Nanocatalyst for the Heterogeneous Fenton Process. Industrial & Engineering Chemistry Research, 2013, 52, 18225-18233.	3.7	44

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37	Dielectrophoretic choking phenomenon in a converging-diverging microchannel. <i>Biomicrofluidics</i> , 2010, 4, 013201.	2.4	43
38	Photocatalytic Degradation of Organic Dye by Sol-Gel-Derived Gallium-Doped Anatase Titanium Oxide Nanoparticles for Environmental Remediation. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-14.	2.7	42
39	Synthesis of amorphous manganese oxide nanoparticles “to” crystalline nanorods through a simple wet-chemical technique using K^{+} ions as a “growth director”™ and their morphology-controlled high performance supercapacitor applications. <i>RSC Advances</i> , 2016, 6, 78887-78908.	3.6	41
40	Eu-doped ZnO nanoparticles: Sonochemical synthesis, characterization, and sonocatalytic application. <i>Ultrasonics Sonochemistry</i> , 2020, 67, 102822.	8.2	41
41	A ratiometric fluorescent probe based on carbon dots and gold nanocluster encapsulated metal-organic framework for detection of cephalixin residues in milk. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 262, 120089.	3.9	41
42	Sonochemical syntheses of two new flower-like nano-scale high coordinated lead(II) supramolecular coordination polymers. <i>Ultrasonics Sonochemistry</i> , 2015, 23, 282-288.	8.2	40
43	A numerical study on the dynamics of droplet formation in a microfluidic double T-junction. <i>Biomicrofluidics</i> , 2015, 9, 024107.	2.4	39
44	Synthesis of Cu-Doped Mn_3O_4 @Mn-Doped CuO Nanostructured Electrode Materials by a Solution Process for High-Performance Electrochemical Pseudocapacitors. <i>ACS Omega</i> , 2020, 5, 22356-22366.	3.5	39
45	Ultrasound and modulation assisted synthesis of $\{[Cu(BDC-NH)(dabco)]DMF.3HO\}$ nanostructures; New precursor to prepare nanorods and nanotubes of copper(II) oxide. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 349-358.	8.2	38
46	Comparative removal of two textile dyes from aqueous solution by adsorption onto marine-source waste shell: Kinetic and isotherm studies. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 1451-1459.	2.7	37
47	Anchoring Mechanism of ZnO Nanoparticles on Graphitic Carbon Nanofiber Surfaces through a Modified Co-Precipitation Method to Improve Interfacial Contact and Photocatalytic Performance. <i>ChemPhysChem</i> , 2015, 16, 3214-3232.	2.1	37
48	The Mechanism of Size-Based Particle Separation by Dielectrophoresis in the Viscoelastic Flows. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018, 140, .	1.5	37
49	Architecture of superior hybrid electrode by the composition of Cu ₂ O nanoflakes, novel cadmium ferrite (CdFe ₂ O ₄) nanoparticles, and g-C ₃ N ₄ sheets for symmetric and asymmetric supercapacitors. <i>Journal of Energy Storage</i> , 2021, 43, 103302.	8.1	37
50	Ultrasound-assisted fabrication of a new nano-rods 3D copper(II)-organic coordination supramolecular compound. <i>Ultrasonics Sonochemistry</i> , 2016, 31, 201-205.	8.2	35
51	Superior peroxidase mimetic activity of tungsten disulfide nanosheets/silver nanoclusters composite: Colorimetric, fluorometric and electrochemical studies. <i>Journal of Colloid and Interface Science</i> , 2018, 515, 39-49.	9.4	35
52	Microfluidic electrical sorting of particles based on shape in a spiral microchannel. <i>Biomicrofluidics</i> , 2014, 8, 014101.	2.4	34
53	Synthesis and characterization of nano-peanuts of lead(II) coordination polymer $[Pb(qcnh)(NO_3)_2]_n$ with ultrasonic assistance: A new precursor for the preparation of pure-phase nano-sized PbO. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 255-261.	8.2	34
54	Gold nanostar-enhanced electrochemiluminescence immunosensor for highly sensitive detection of cancer stem cells using CD133 membrane biomarker. <i>Bioelectrochemistry</i> , 2021, 137, 107633.	4.6	34

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55	An unexpected particle oscillation for electrophoresis in viscoelastic fluids through a microchannel constriction. <i>Biomicrofluidics</i> , 2014, 8, 021802.	2.4	33
56	Fe(SCN) ₃ induced structural, optical, and dielectric behavior of cetyltrimethyl ammonium bromide stabilized strontium stannate nanoparticles synthesized by a facile wet chemistry route. <i>RSC Advances</i> , 2015, 5, 17202-17209.	3.6	33
57	Effects of Junction Angle and Viscosity Ratio on Droplet Formation in Microfluidic Cross-Junction. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016, 138, .	1.5	33
58	One-step preparation of nanostructured martite catalyst and graphite electrode by glow discharge plasma for heterogeneous electro-Fenton like process. <i>Journal of Environmental Management</i> , 2017, 199, 31-45.	7.8	33
59	Template-free synthesis of two-dimensional titania/titanate nanosheets as electrodes for high-performance supercapacitor applications. <i>Journal of Power Sources</i> , 2017, 372, 227-234.	7.8	33
60	Dielectrophoretic choking phenomenon of a deformable particle in a converging&diverging microchannel. <i>Electrophoresis</i> , 2018, 39, 590-596.	2.4	32
61	Urea-assisted hydrothermal synthesis of MnMoO ₄ /MnCO ₃ hybrid electrochemical electrode and fabrication of high-performance asymmetric supercapacitor. <i>Journal of Materials Science and Technology</i> , 2022, 96, 332-344.	10.7	32
62	Bioinspired tailoring of nanoarchitected nickel sulfide@nickel permeated carbon composite as highly durable and redox chemistry enabled battery-type electrode for hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25208-25219.	10.3	32
63	Development of an empirical kinetic model for sonocatalytic process using neodymium doped zinc oxide nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2016, 29, 146-155.	8.2	30
64	Polarization Effect of a Dielectric Membrane on the Ionic Current Rectification in a Conical Nanopore. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24951-24959.	3.1	29
65	The toxic effects of L-Cysteine-capped cadmium sulfide nanoparticles on the aquatic plant <i>Spirodela polyrrhiza</i> . <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	29
66	New Flower-Shaped Lead(II) Coordination Polymer at the Nano Scale: Synthesis, Structural Characterization and DFT Calculations of [Pb(o-phen)(N ₃) ₂] _n Containing the Pb-($\frac{1}{4}$ 1,1-N ₃)($\frac{1}{4}$ 1,3-N ₃) Motif. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013, 23, 751-757.	3.7	28
67	Preparation of a Novel Nano-scale Lead (II) Zig-Zag Metal-Organic Coordination Polymer with Ultrasonic Assistance: Synthesis, Crystal Structure, Thermal Properties, and NBO Analysis of [Pb($\frac{1}{4}$ -2-pinh) ₂ N ₃ H ₂ O] _n . <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016, 26, 819-828.	3.7	28
68	Molecular dynamics simulations of trihalomethanes removal from water using boron nitride nanosheets. <i>Journal of Molecular Modeling</i> , 2016, 22, 82.	1.8	28
69	Sonochemical Synthesis, Characterization and Sonocatalytic Performance of Terbium-Doped CdS Nanoparticles. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016, 26, 623-631.	3.7	28
70	Annealing-Free Synthesis of K-doped Mixed-Phase TiO ₂ Nanofibers on Ti Foil for Electrochemical Supercapacitor. <i>Electrochimica Acta</i> , 2017, 253, 563-571.	5.2	28
71	Removal of heavy metals from water through armchair carbon and boron nitride nanotubes: a computer simulation study. <i>RSC Advances</i> , 2015, 5, 25097-25104.	3.6	27
72	Flow-injection chemiluminescence analysis for sensitive determination of atenolol using cadmium sulfide quantum dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 157, 88-95.	3.9	27

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73	Ultrasound-assisted fabrication of a novel nickel(II)-bis-pyrazolyl borate two-nuclear discrete nano-structured coordination compound. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 519-524.	8.2	27
74	Efficient heat transfer enhancement by elastic turbulence with polymer solution in a curved microchannel. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	27
75	Construction of Functionalized Carbon Nanofiber@ $\text{g-C}_3\text{N}_4$ and TiO_2 Spheres as a Nanostructured Hybrid Electrode for High-Performance Supercapacitors. <i>Energy & Fuels</i> , 2021, 35, 1796-1809.	5.1	27
76	Analytical Prediction of Flow Field in Magnetohydrodynamic-Based Microfluidic Devices. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2008, 130, .	1.5	26
77	Ti-MnO_2 nanorod/boron nitride nanoplatelet composites for high-performance nanoscale dielectric pseudocapacitor applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 79, 115-123.	5.8	26
78	Synthesis of novel Co_3O_4 nanocubes- NiO octahedral hybrids for electrochemical energy storage supercapacitors. <i>Journal of Environmental Management</i> , 2021, 298, 113484.	7.8	26
79	Synthesis of N-acylurea derivatives from carboxylic acids and N,N'-dialkyl carbodiimides in water. <i>Journal of Chemical Sciences</i> , 2015, 127, 2269-2282.	1.5	25
80	Nonstoichiometry-Induced Enhancement of Electrochemical Capacitance in Anodic TiO_2 Nanotubes with Controlled Pore Diameter. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9569-9580.	3.1	25
81	A Ca^{2+} selective membrane electrode based on calcium-imprinted polymeric nanoparticles. <i>New Journal of Chemistry</i> , 2016, 40, 8479-8487.	2.8	25
82	A novel scalable microfluidic load sensor based on electrokinetic phenomena. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	25
83	The Effect of Axial Concentration Gradient on Electrophoretic Motion of a Charged Spherical Particle in a Nanopore. <i>Microgravity Science and Technology</i> , 2010, 22, 329-338.	1.4	24
84	Removal of trihalomethanes from aqueous solution through armchair carbon nanotubes: A molecular dynamics study. <i>Journal of Molecular Graphics and Modelling</i> , 2015, 57, 70-75.	2.4	24
85	Viscoelastic effects on electrokinetic particle focusing in a constricted microchannel. <i>Biomicrofluidics</i> , 2015, 9, 014108.	2.4	24
86	Preparation of nanostructured pyrite with N_2 glow discharge plasma and the study of its catalytic performance in the heterogeneous Fenton process. <i>New Journal of Chemistry</i> , 2016, 40, 5221-5230.	2.8	24
87	Photo-assisted electrochemical abatement of trifluralin using a cathode containing a C_{60} -carbon nanotubes composite. <i>Chemosphere</i> , 2018, 199, 510-523.	8.2	24
88	Sonochemical Synthesis and Structural Characterization and DFT Calculations of a Novel Nano Flower Pb(II) Coordination Compound $[\text{Pb}(\text{phen})_2(4\text{-abs})_2]_n$. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2012, 22, 1397-1403.	3.7	23
89	Sonocatalysis of a sulfa drug using neodymium-doped lead selenide nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2015, 27, 345-358.	8.2	23
90	Efficient and selective oxidation of alcohols in water employing palladium supported nanomagnetic Fe_3O_4 @hyperbranched polyethylenimine (Fe_3O_4 @HPEI.Pd) as a new organic-inorganic hybrid nanocatalyst. <i>Applied Organometallic Chemistry</i> , 2018, 32, e3908.	3.5	23

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91	Superior energy&power performance of N&doped carbon nano&ions&based asymmetric and symmetric supercapacitor devices. International Journal of Energy Research, 2022, 46, 1234-1249.	4.5	23
92	Quantum size effect in the photoluminescence properties of p-type semiconducting transparent CuAlO ₂ nanoparticles. Journal of Applied Physics, 2012, 112, .	2.5	22
93	Instabilities in free-surface electroosmotic flows. Theoretical and Computational Fluid Dynamics, 2012, 26, 311-318.	2.2	22
94	Thermolysis synthesis of pure phase NiO from novel sonochemical synthesized Ni(II) nano metal-organic supramolecular architecture. Ultrasonics Sonochemistry, 2017, 37, 430-435.	8.2	22
95	<i>In Situ</i> Construction of Binder-Free Stable Battery-Type Copper Cobaltite and Copper Oxide Composite Electrodes for All-Solid-State Asymmetric Supercapacitors: Cation Concentration and Morphology-Dependent Electrochemical Performance. Energy & Fuels, 2022, 36, 5965-5978.	5.1	22
96	Synthesis, Structural Investigation and DFT Calculations of Cadmium (II) Fluorine-Substituted Î ² -Diketonate: A Precursor to Producing Pure Phase Nano-Sized Cadmium (II) Oxide. Journal of Inorganic and Organometallic Polymers and Materials, 2012, 22, 816-821.	3.7	21
97	Applications of nanoparticle systems in gene delivery and gene therapy. Artificial Cells, Nanomedicine and Biotechnology, 2016, 44, 581-587.	2.8	21
98	A flow injection chemiluminescence method for determination of nalidixic acid based on KMnO ₄ &morin sensitized with CdS quantum dots. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 154, 243-251.	3.9	21
99	Photocatalytic hydrogen production from dye contaminated water and electrochemical supercapacitors using carbon nanohorns and TiO ₂ nanoflower heterogeneous catalysts. Journal of Environmental Management, 2021, 277, 111433.	7.8	21
100	Emerging electrochemical sensing and biosensing approaches for detection of Fumonisin in food samples. Critical Reviews in Food Science and Nutrition, 2022, 62, 8761-8776.	10.3	21
101	Pseudocapacitive Performance of Freestanding Ni ₃ V ₂ O ₈ Nanosheets for High Energy and Power Density Asymmetric Supercapacitors. ACS Applied Energy Materials, 2022, 5, 5561-5578.	5.1	21
102	Sonochemical temperature controlled synthesis of pellet-, laminate- and rice grain-like morphologies of a Cu(II) porous metal&organic framework nano-structures. Ultrasonics Sonochemistry, 2014, 21, 1430-1434.	8.2	20
103	A Convenient and Efficient Protocol for the Synthesis of HBIW Catalyzed by Silica Nanoparticles under Ultrasound Irradiation. Journal of Energetic Materials, 2014, 32, 300-305.	2.0	20
104	AC dielectrophoretic deformable particle&particle interactions and their relative motions. Electrophoresis, 2020, 41, 952-958.	2.4	20
105	A calcium doped binary strontium-copper oxide electrode material for high-performance supercapacitors. Materials Science in Semiconductor Processing, 2019, 90, 245-251.	4.0	19
106	Electro-magnetic-field-induced flow and interfacial instabilities in confined stratified liquid layers. Theoretical and Computational Fluid Dynamics, 2012, 26, 23-28.	2.2	18
107	Effects of Halogen Bonding in Chemical Activity of Lead(II) Electron Pair: Sonochemical Synthesis, Structural Studies, and Thermal Analysis of Novel Lead(II) Nano Coordination Polymer. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 2466-2472.	1.2	18
108	Enhanced chemiluminescence of carminic acid-permanganate by CdS quantum dots and its application for sensitive quenchometric flow injection assays of cloxacillin. Talanta, 2016, 152, 171-178.	5.5	18

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109	Enhanced electrochemical performance of morphology-controlled titania-reduced graphene oxide nanostructures fabricated via a combined anodization-hydrothermal process. <i>RSC Advances</i> , 2016, 6, 12571-12583.	3.6	18
110	Dielectrophoretic choking phenomenon in a converging&diverging microchannel for Janus particles. <i>Electrophoresis</i> , 2019, 40, 993-999.	2.4	18
111	Nanoreactors Technology in Green Organic Synthesis. <i>Current Organic Synthesis</i> , 2017, 14, 810-864.	1.3	18
112	Facile construction and controllable design of CoTiO ₃ @Co ₃ O ₄ /N CNO hybrid heterojunction nanocomposite electrode for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2022, 407, 139868.	5.2	18
113	Field emission characterization of vertically oriented uniformly grown nickel nanorod arrays on metal-coated silicon substrate. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	17
114	Deformability-Based Electrokinetic Particle Separation. <i>Micromachines</i> , 2016, 7, 170.	2.9	17
115	One-pot three-component syntheses of β -aminophosphonates from a primary amine, quinoline-4-carbaldehyde and a phosphite in the presence of MCM-41@PEI as an efficient nanocatalyst. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2017, 192, 776-781.	1.6	17
116	Boosting the Electrochemical Performance of Mn-doped CuCo ₂ O ₄ /CuO Heterostructures for All-Solid-State Asymmetric Battery-type Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2022, 169, 060549.	2.9	17
117	Two reversible transformable mercury(^{II}) coordination polymers as efficient adsorbents for removal of dibenzothiophene. <i>RSC Advances</i> , 2015, 5, 81356-81361.	3.6	16
118	A new hydrogen cyanide chemiresistor gas sensor based on graphene quantum dots. <i>International Journal of Environmental Analytical Chemistry</i> , 2016, 96, 763-775.	3.3	16
119	β -Cyclodextrin nano-reactor-catalyzed synthesis of 2 <i>H</i> -chromene-2,3-dicarboxylates from in-situ-generated stabilized phosphorus ylides via intramolecular Wittig reaction in water. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2016, 191, 354-358.	1.6	16
120	Kinetic modeling of sonocatalytic performance of Gd-doped CdSe nanoparticles for degradation of Acid Blue 5. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 344-353.	8.2	16
121	A novel hybridized needle-like Co ₃ O ₄ /N-CNO composite for superior energy storage asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2022, 908, 164447.	5.5	16
122	The Effect of Stirring on the Morphology of Birnessite Nanoparticles. <i>Journal of Nanomaterials</i> , 2008, 2008, 1-9.	2.7	15
123	Electrohydrodynamic repulsion of droplets falling on an insulating substrate in an electric field. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	15
124	Substrate Heterogeneity Induced Instability and Slip in Polymer Thin Films: Dewetting on Silanized Surfaces with Variable Grafting Density. <i>Macromolecules</i> , 2010, 43, 7759-7762.	4.8	15
125	Binary strontium&copper oxide nanostructures doped with potassium as electrode material for supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 21269-21277.	2.2	15
126	A new hydrodynamic instability in ultra-thin film flows induced by electro-osmosis. <i>Journal of Mechanical Science and Technology</i> , 2008, 22, 382-386.	1.5	14

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127	A New Method of Synthesizing Black Birnessite Nanoparticles: From Brown to Black Birnessite with Nanostructures. <i>Journal of Nanomaterials</i> , 2008, 2008, 1-8.	2.7	14
128	Sonochemical Syntheses of a One-Dimensional Mg(II) Metal-Organic Framework: A New Precursor for Preparation of MgO One-Dimensional Nanostructure. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-7.	2.7	14
129	Numerical simulation of heat transfer enhancement by elastic turbulence in a curvy channel. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	14
130	Promoting rebound of impinging viscoelastic droplets on heated superhydrophobic surfaces. <i>New Journal of Physics</i> , 2020, 22, 123001.	2.9	14
131	Growth of Noncircular and Faceted Holes in Liquid—Liquid Dewetting of Thin Polymer Bilayers. <i>Macromolecules</i> , 2011, 44, 9335-9340.	4.8	13
132	A cell electrofusion microfluidic chip with micro-cavity microelectrode array. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 151-160.	2.2	13
133	Synthesis of 1,3,4-oxadiazoles from the reaction of <i>N</i> -isocyaniminotriphenylphosphorane (NICITPP) with cyclohexanone, a primary amine and an aromatic carboxylic acid <i>via</i> intramolecular <i>aza</i> -Wittig reaction of <i>in situ</i> generated iminophosphoranes. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2016, 191, 1057-1062.	1.6	13
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