

Shuzhou Li

List of Publications by Year in descending order

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210
papers

16,639
citations

12330

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17105

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all docs

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216
times ranked

20937
citing authors

#	ARTICLE	IF	CITATIONS
1	Lead-free germanium iodide perovskite materials for photovoltaic applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23829-23832.	10.3	841
2	Synergy of Dopants and Defects in Graphitic Carbon Nitride with Exceptionally Modulated Band Structures for Efficient Photocatalytic Oxygen Evolution. <i>Advanced Materials</i> , 2019, 31, e1903545.	21.0	604
3	Surface Plasmon Resonance Enhanced Light Absorption and Photothermal Therapy in the Second Near-Infrared Window. <i>Journal of the American Chemical Society</i> , 2014, 136, 15684-15693.	13.7	575
4	Synthesis of hexagonal close-packed gold nanostructures. <i>Nature Communications</i> , 2011, 2, 292.	12.8	553
5	Methods for Describing the Electromagnetic Properties of Silver and Gold Nanoparticles. <i>Accounts of Chemical Research</i> , 2008, 41, 1710-1720.	15.6	457
6	Isolated single atom cobalt in Bi ₃ O ₄ Br atomic layers to trigger efficient CO ₂ photoreduction. <i>Nature Communications</i> , 2019, 10, 2840.	12.8	327
7	Covalency competition dominates the water oxidation structure-activity relationship on spinel oxides. <i>Nature Catalysis</i> , 2020, 3, 554-563.	34.4	284
8	Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmon-Induced Electron Transfer Processes. <i>Advanced Functional Materials</i> , 2013, 23, 2932-2940.	14.9	270
9	Selective electrocatalytic synthesis of urea with nitrate and carbon dioxide. <i>Nature Sustainability</i> , 2021, 4, 868-876.	23.7	264
10	From Discrete Electronic States to Plasmons: TDDFT Optical Absorption Properties of Ag _n (n = 10, 20, 35, 56, 84, 120) Tetrahedral Clusters. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11272-11279.	3.1	252
11	Rb as an Alternative Cation for Templating Inorganic Lead-Free Perovskites for Solution Processed Photovoltaics. <i>Chemistry of Materials</i> , 2016, 28, 7496-7504.	6.7	249
12	Remarkable SERS Activity Observed from Amorphous ZnO Nanocages. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9851-9855.	13.8	238
13	Electrical promotion of spatially photoinduced charge separation via interfacial-built-in quasi-alloying effect in hierarchical Zn ₂ In ₂ S ₅ /Ti ₃ C ₂ (O, OH) _x hybrids toward efficient photocatalytic hydrogen evolution and environmental remediation. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 290-301.	20.2	229
14	Crystal phase-based epitaxial growth of hybrid noble metal nanostructures on 4H/fcc Au nanowires. <i>Nature Chemistry</i> , 2018, 10, 456-461.	13.6	220
15	Photogenerated charge transfer via interfacial internal electric field for significantly improved photocatalysis in direct Z-scheme oxygen-doped carbon nitrogen/CoAl-layered double hydroxide heterojunction. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 530-540.	20.2	219
16	Synthesis and Structure Characterization of a Stable Nonatwistacene. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6094-6098.	13.8	199
17	Broadband Extrinsic Self-Trapped Exciton Emission in Sn-Doped 2D Lead-Halide Perovskites. <i>Advanced Materials</i> , 2019, 31, e1806385.	21.0	198
18	Stereodefined Codoping of sp-N and S Atoms in Few-Layer Graphdiyne for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2019, 141, 7240-7244.	13.7	198

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19	Surface modification-induced phase transformation of hexagonal close-packed gold square sheets. <i>Nature Communications</i> , 2015, 6, 6571.	12.8	195
20	Gram-Positive Antimicrobial Activity of Amino Acid-Based Hydrogels. <i>Advanced Materials</i> , 2015, 27, 648-654.	21.0	188
21	Modeling the Effect of Small Gaps in Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1627-1637.	3.1	179
22	Defect and pyridinic nitrogen engineering of carbon-based metal-free nanomaterial toward oxygen reduction. <i>Nano Energy</i> , 2018, 52, 307-314.	16.0	176
23	Donor-Acceptor Fluorophores for Energy-Transfer-Mediated Photocatalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 13719-13725.	13.7	174
24	Bismuth vacancy mediated single unit cell Bi ₂ WO ₆ nanosheets for boosting photocatalytic oxygen evolution. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 119-125.	20.2	173
25	Engineering Interfacial Photo-Induced Charge Transfer Based on Nanobamboo Array Architecture for Efficient Solar-to-Chemical Energy Conversion. <i>Advanced Materials</i> , 2015, 27, 2207-2214.	21.0	172
26	Interfacing Epitaxial Dinickel Phosphide to 2D Nickel Thiophosphate Nanosheets for Boosting Electrocatalytic Water Splitting. <i>ACS Nano</i> , 2019, 13, 7975-7984.	14.6	171
27	Yin-Yang Harmony: Metal and Nonmetal Dual-Doping Boosts Electrocatalytic Activity for Alkaline Hydrogen Evolution. <i>ACS Energy Letters</i> , 2018, 3, 2750-2756.	17.4	154
28	A systems approach towards the stoichiometry-controlled hetero-assembly of nanoparticles. <i>Nature Communications</i> , 2010, 1, 87.	12.8	152
29	Plasmon-Mediated Synthesis of Silver Triangular Bipyramids. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7787-7791.	13.8	151
30	Programmable Photo-Electrochemical Hydrogen Evolution Based on Multi-Segmented CdS-Au Nanorod Arrays. <i>Advanced Materials</i> , 2014, 26, 3506-3512.	21.0	150
31	Direct evidence of plasmon enhancement on photocatalytic hydrogen generation over Au/Pt-decorated TiO ₂ nanofibers. <i>Nanoscale</i> , 2014, 6, 5217-5222.	5.6	143
32	Bismuth Vacancy-Tuned Bismuth Oxybromide Ultrathin Nanosheets toward Photocatalytic CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30786-30792.	8.0	140
33	Machine Learning: An Advanced Platform for Materials Development and State Prediction in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2022, 34, e2101474.	21.0	140
34	Investigating the Effects of Solid Surfaces on Ice Nucleation. <i>Langmuir</i> , 2012, 28, 10749-10754.	3.5	139
35	Monodisperse Dual Plasmonic Au@Cu ₂ S (E= S, Se) Core@Shell Supraparticles: Aqueous Fabrication, Multimodal Imaging, and Tumor Therapy at <i>in Vivo</i> Level. <i>ACS Nano</i> , 2017, 11, 8273-8281.	14.6	139
36	Optimizing Electromagnetic Hotspots in Plasmonic Bowtie Nanoantennae. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 496-501.	4.6	138

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37	Nanoscale surface chemistry directs the tunable assembly of silver octahedra into three two-dimensional plasmonic superlattices. <i>Nature Communications</i> , 2015, 6, 6990.	12.8	137
38	Synthesis, Full Characterization, and Field Effect Transistor Behavior of a Stable Pyrene-Fused <i>N</i> -Heteroacene with Twelve Linearly Annulated Six-Membered Rings. <i>Chemistry of Materials</i> , 2017, 29, 4172-4175.	6.7	131
39	Engineering "Hot" Nanoparticles for Surface-Enhanced Raman Scattering by Embedding Reporter Molecules in Metal Layers. <i>Small</i> , 2012, 8, 246-251.	10.0	128
40	Correlated Optical Measurements and Plasmon Mapping of Silver Nanorods. <i>Nano Letters</i> , 2011, 11, 3482-3488.	9.1	125
41	Achieving highly efficient electrocatalytic oxygen evolution with ultrathin 2D Fe-doped nickel thiophosphate nanosheets. <i>Nano Energy</i> , 2018, 47, 257-265.	16.0	122
42	Poor Photovoltaic Performance of Cs ₃ Bi ₂ I ₉ : An Insight through First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17062-17067.	3.1	121
43	Unconventional Oxygen Reduction Reaction Mechanism and Scaling Relation on Single-Atom Catalysts. <i>ACS Catalysis</i> , 2020, 10, 4313-4318.	11.2	119
44	Cobalt nitride as a novel cocatalyst to boost photocatalytic CO ₂ reduction. <i>Nano Energy</i> , 2021, 79, 105429.	16.0	117
45	Atomic Pd on Graphdiyne/Graphene Heterostructure as Efficient Catalyst for Aromatic Nitroreduction. <i>Advanced Functional Materials</i> , 2019, 29, 1905423.	14.9	112
46	Approaching a stable, green twisted heteroacene through "clean reaction" strategy. <i>Chemical Communications</i> , 2012, 48, 5974.	4.1	110
47	Surface Local Polarization Induced by Bismuth Oxygen Vacancy Pairs Tuning Non-Covalent Interaction for CO ₂ Photoreduction. <i>Advanced Energy Materials</i> , 2021, 11, 2102389.	19.5	109
48	A Defect Engineered Electrocatalyst that Promotes High-Efficiency Urea Synthesis under Ambient Conditions. <i>ACS Nano</i> , 2022, 16, 8213-8222.	14.6	109
49	Direct Experimental Observation of Facet-Dependent SERS of Cu ₂ O Polyhedra. <i>Small</i> , 2018, 14, 1703274.	10.0	108
50	Hierarchically porous Cu/Zn bimetallic catalysts for highly selective CO ₂ electroreduction to liquid C ₂ products. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118800.	20.2	108
51	Defect engineering in atomically-thin bismuth oxychloride towards photocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14144-14151.	10.3	107
52	Chemical Fabrication of Heterometallic Nanogaps for Molecular Transport Junctions. <i>Nano Letters</i> , 2009, 9, 3974-3979.	9.1	105
53	Metamaterials-Based Label-Free Nanosensor for Conformation and Affinity Biosensing. <i>ACS Nano</i> , 2013, 7, 7583-7591.	14.6	104
54	Incorporation of clusters within inorganic materials through their addition during nucleation steps. <i>Nature Chemistry</i> , 2019, 11, 839-845.	13.6	104

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55	Gap Structure Effects on Surface-Enhanced Raman Scattering Intensities for Gold Gapped Rods. Nano Letters, 2010, 10, 1722-1727.	9.1	103
56	van der Waals Heterojunction between a Bottom-Up Grown Doped Graphene Quantum Dot and Graphene for Photoelectrochemical Water Splitting. ACS Nano, 2020, 14, 1185-1195.	14.6	100
57	Surprisingly Long-Range Surface-Enhanced Raman Scattering (SERS) on Au-Ni Multisegmented Nanowires. Angewandte Chemie - International Edition, 2009, 48, 4210-4212.	13.8	90
58	Tertiary amine mediated aerobic oxidation of sulfides into sulfoxides by visible-light photoredox catalysis on TiO ₂ . Chemical Science, 2015, 6, 5000-5005.	7.4	89
59	An electron deficiency strategy for enhancing hydrogen evolution on CoP nano-electrocatalysts. Nano Energy, 2018, 50, 273-280.	16.0	89
60	Boosting Electrocatalytic Ammonia Production through Mimicking "Back-Donation". Chem, 2020, 6, 2690-2702.	11.7	88
61	Graphdiyne/Graphene Heterostructure: A Universal 2D Scaffold Anchoring Monodispersed Transition-Metal Phthalocyanines for Selective and Durable CO ₂ Electroreduction. Journal of the American Chemical Society, 2021, 143, 8679-8688.	13.7	87
62	Highly-sensitive optical organic vapor sensor through polymeric swelling induced variation of fluorescent intensity. Nature Communications, 2018, 9, 3799.	12.8	86
63	Realizing a Record Photothermal Conversion Efficiency of Spiky Gold Nanoparticles in the Second Near-Infrared Window by Structure-Based Rational Design. Chemistry of Materials, 2018, 30, 2709-2718.	6.7	85
64	Target-Triggered Catalytic Hairpin Assembly-Induced Core-Satellite Nanostructures for High-Sensitive "Off-to-On" SERS Detection of Intracellular MicroRNA. Analytical Chemistry, 2018, 90, 10591-10599.	6.5	85
65	Core-Shell Triangular Bifrustums. Nano Letters, 2009, 9, 3038-3041.	9.1	84
66	Strain-Engineering of Bi ₁₂ O ₁₇ Br ₂ Nanotubes for Boosting Photocatalytic CO ₂ Reduction. , 2020, 2, 1025-1032.		82
67	Highly efficient and durable MoNiNC catalyst for hydrogen evolution reaction. Nano Energy, 2017, 37, 1-6.	16.0	79
68	Electron-beam mapping of plasmon resonances in electromagnetically interacting gold nanorods. Physical Review B, 2009, 80, .	3.2	78
69	Thermal-Disrupting Interface Mitigates Intercellular Cohesion Loss for Accurate Topical Antibacterial Therapy. Advanced Materials, 2020, 32, e1907030.	21.0	75
70	Elevated Ag nanohole arrays for high performance plasmonic sensors based on extraordinary optical transmission. Journal of Materials Chemistry, 2012, 22, 8903.	6.7	73
71	Alcohol-Mediated Resistance-Switching Behavior in Metal-Organic Framework-Based Electronic Devices. Angewandte Chemie - International Edition, 2016, 55, 8884-8888.	13.8	72
72	One-Dimensional "d Conjugated Coordination Polymer for Electrochromic Energy Storage Device with Exceptionally High Performance. Advanced Science, 2020, 7, 1903109.	11.2	72

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73	Product-Specific Active Site Motifs of Cu for Electrochemical CO ₂ Reduction. <i>CheM</i> , 2021, 7, 406-420.	11.7	72
74	Rattle-type Au@Cu ₂ S hollow mesoporous nanocrystals with enhanced photothermal efficiency for intracellular oncogenic microRNA detection and chemo-photothermal therapy. <i>Biomaterials</i> , 2018, 158, 23-33.	11.4	68
75	First-Principles Study on Structural, Electronic, and Optical Properties of Inorganic Ge-Based Halide Perovskites. <i>Inorganic Chemistry</i> , 2019, 58, 4134-4140.	4.0	68
76	Vibrational Spectral Diffusion of Azide in Water. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18933-18938.	2.6	66
77	Approaches for the calculation of vibrational frequencies in liquids: Comparison to benchmarks for azide/water clusters. <i>Journal of Chemical Physics</i> , 2006, 124, 204110.	3.0	66
78	Confining Standing Waves in Optical Corrals. <i>ACS Nano</i> , 2009, 3, 615-620.	14.6	66
79	Dually Ordered Porous TiO ₂ @GO Composites with Controllable Light Absorption Properties for Efficient Solar Energy Conversion. <i>Advanced Materials</i> , 2017, 29, 1604795.	21.0	66
80	Dynamic Restructuring of Cu-Doped SnS ₂ Nanoflowers for Highly Selective Electrochemical CO ₂ Reduction to Formate. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26233-26237.	13.8	66
81	Exploring Peltier effect in organic thermoelectric films. <i>Nature Communications</i> , 2018, 9, 3586.	12.8	65
82	Al ₂ O ₃ Surface Complexation for Photocatalytic Organic Transformations. <i>Journal of the American Chemical Society</i> , 2017, 139, 269-276.	13.7	64
83	Broadband high-performance electromagnetic wave absorption of Co-doped NiZn ferrite/polyaniline on MXenes. <i>Ceramics International</i> , 2020, 46, 10006-10015.	4.8	64
84	Reversible Al Metal Anodes Enabled by Amorphization for Aqueous Aluminum Batteries. <i>Journal of the American Chemical Society</i> , 2022, 144, 11444-11455.	13.7	63
85	Patterning of Plasmonic Nanoparticles into Multiplexed One-Dimensional Arrays Based on Spatially Modulated Electrostatic Potential. <i>ACS Nano</i> , 2011, 5, 8288-8294.	14.6	62
86	Site-Selective Catalysis of a Multifunctional Linear Molecule: The Steric Hindrance of Metal-Organic Framework Channels. <i>Advanced Materials</i> , 2018, 30, e1800643.	21.0	62
87	Surface Plasmon-Mediated Energy Transfer in Heterogap Au~Ag Nanowires. <i>Nano Letters</i> , 2008, 8, 3446-3449.	9.1	59
88	Ultrahigh Enhancement of Electromagnetic Fields by Exciting Localized with Extended Surface Plasmons. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19382-19389.	3.1	59
89	Ultrannarrow Graphene Nanoribbons toward Oxygen Reduction and Evolution Reactions. <i>Advanced Science</i> , 2018, 5, 1801375.	11.2	59
90	Oxygen vacancy mediated bismuth stannate ultra-small nanoparticle towards photocatalytic CO ₂ -to-CO conversion. <i>Applied Catalysis B: Environmental</i> , 2020, 276, 119156.	20.2	59

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91	Triphenylamine based conjugated microporous polymers for selective photoreduction of CO ₂ to CO under visible light. <i>Green Chemistry</i> , 2019, 21, 6606-6610.	9.0	58
92	Mosaic-Structured Cobalt Nickel Thiophosphate Nanosheets Incorporated N-doped Carbon for Efficient and Stable Electrocatalytic Water Splitting. <i>Advanced Functional Materials</i> , 2018, 28, 1805075.	14.9	57
93	Mechano-regulated metal-organic framework nanofilm for ultrasensitive and anti-jamming strain sensing. <i>Nature Communications</i> , 2018, 9, 3813.	12.8	57
94	Selective hydrogenation of phenol to cyclohexanone by SiO ₂ -supported rhodium nanoparticles under mild conditions. <i>Journal of Catalysis</i> , 2018, 364, 354-365.	6.2	57
95	Synergistic effect of Ru-N ₄ sites and Cu-N ₃ sites in carbon nitride for highly selective photocatalytic reduction of CO ₂ to methane. <i>Applied Catalysis B: Environmental</i> , 2022, 307, 121154.	20.2	57
96	Free-Standing Bimetallic Nanorings and Nanoring Arrays Made by On-Wire Lithography. <i>ACS Nano</i> , 2010, 4, 7676-7682.	14.6	55
97	Interfacial Lattice-Strain-Driven Generation of Oxygen Vacancies in an Aerobic-Annealed TiO ₂ (B) Electrode. <i>Advanced Materials</i> , 2019, 31, e1906156.	21.0	53
98	Plasmonic Focusing in Rod-in-Sheath Heteronanostructures. <i>ACS Nano</i> , 2009, 3, 87-92.	14.6	51
99	Synergistic Modulation of Surface Interaction to Assemble Metal Nanoparticles into Two-Dimensional Arrays with Tunable Plasmonic Properties. <i>Small</i> , 2014, 10, 609-616.	10.0	51
100	Data-Driven Materials Innovation and Applications. <i>Advanced Materials</i> , 2022, 34, e2104113.	21.0	51
101	Silver-Based Nanodisk Codes. <i>ACS Nano</i> , 2010, 4, 5446-5452.	14.6	49
102	Solution Adsorption Formation of a Conjugated Polymer/Graphene Composite for High-Performance Field-Effect Transistors. <i>Advanced Materials</i> , 2018, 30, 1705377.	21.0	48
103	Orthogonally Engineering Matrix Topography and Rigidity to Regulate Multicellular Morphology. <i>Advanced Materials</i> , 2014, 26, 5786-5793.	21.0	47
104	Synergistic Effects of Water and Oxygen Molecule Co-adsorption on (001) Surfaces of Tetragonal CH ₃ NH ₃ PbI ₃ : A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28448-28455.	3.1	47
105	Remarkable SERS Activity Observed from Amorphous ZnO Nanocages. <i>Angewandte Chemie</i> , 2017, 129, 9983-9987.	2.0	47
106	Vacancy-Driven Stabilization of the Cubic Perovskite Polymorph of CsPbI ₃ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 9735-9744.	3.1	47
107	Chirality Evolution from Sub-1 Nanometer Nanowires to the Macroscopic Helical Structure. <i>Journal of the American Chemical Society</i> , 2020, 142, 1375-1381.	13.7	47
108	Octahedral Coordinated Trivalent Cobalt Enriched Multimetal Oxygen-Evolution Catalysts. <i>Advanced Energy Materials</i> , 2020, 10, 2002593.	19.5	47

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109	Unconventional Nucleation and Oriented Growth of ZIF-8 Crystals on Non-Polar Surface. <i>Advanced Materials</i> , 2012, 24, 5954-5958.	21.0	46
110	Free-standing one-dimensional plasmonic nanostructures. <i>Nanoscale</i> , 2012, 4, 66-75.	5.6	46
111	Creating two self-assembly micro-environments to achieve supercrystals with dual structures using polyhedral nanoparticles. <i>Nature Communications</i> , 2018, 9, 2769.	12.8	46
112	Enhanced Photoresponse of Conductive Polymer Nanowires Embedded with Au Nanoparticles. <i>Advanced Materials</i> , 2016, 28, 2978-2982.	21.0	45
113	Synthesis of Spiky Ag-Au Octahedral Nanoparticles and Their Tunable Optical Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16640-16649.	3.1	44
114	Synthesis of Fivefold Stellate Polyhedral Gold Nanoparticles with {110} Facets via a Seed-Mediated Growth Method. <i>Small</i> , 2013, 9, 705-710.	10.0	43
115	Large-volume hot spots in gold spiky nanoparticle dimers for high-performance surface-enhanced spectroscopy. <i>Nanoscale</i> , 2014, 6, 12921-12928.	5.6	42
116	Tailoring Alphabetical Metamaterials in Optical Frequency: Plasmonic Coupling, Dispersion, and Sensing. <i>ACS Nano</i> , 2014, 8, 3796-3806.	14.6	42
117	Periodic Electric Field Enhancement Along Gold Rods with Nanogaps. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 78-82.	13.8	41
118	2,4,6-Triphenyl-1,3,5-Triazine Based Covalent Organic Frameworks for Photoelectrochemical H ₂ Evolution. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002191.	3.7	40
119	An All-Inorganic Colloidal Nanocrystal Flexible Polarizer. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8730-8735.	13.8	39
120	Electronegativity-Induced Charge Balancing to Boost Stability and Activity of Amorphous Electrocatalysts. <i>Advanced Materials</i> , 2022, 34, e2100537.	21.0	39
121	Efficient CO ₂ Electroreduction to Ethanol by Cu ₃ Sn Catalyst. <i>Small Methods</i> , 2022, 6, e2101334.	8.6	39
122	Ru@UiO-66(Ce) catalyzed acceptorless dehydrogenation of primary amines to nitriles: the roles of Lewis acid-base pairs in the reaction. <i>Green Chemistry</i> , 2019, 21, 5386-5393.	9.0	37
123	Vibrational energy relaxation of azide in water. <i>Journal of Chemical Physics</i> , 2006, 125, 244507.	3.0	36
124	Refractive index dependent real-time plasmonic nanoprobe on a single silver nanocube for ultrasensitive detection of the lung cancer-associated miRNAs. <i>Chemical Communications</i> , 2015, 51, 294-297.	4.1	35
125	3d Transition-Metal-Mediated Columbite Nanocatalysts for Decentralized Electrosynthesis of Hydrogen Peroxide. <i>Small</i> , 2021, 17, e2007249.	10.0	35
126	Activation Effect of Electrochemical Cycling on Gold Nanoparticles towards the Hydrogen Evolution Reaction in Sulfuric Acid. <i>Electrochimica Acta</i> , 2016, 209, 440-447.	5.2	32

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127	Structures and Antifouling Properties of Self-Assembled Zwitterionic Peptide Monolayers: Effects of Peptide Charge Distributions and Divalent Cations. <i>Biomacromolecules</i> , 2020, 21, 2087-2095.	5.4	32
128	Surface-Enhanced Raman Scattering of Ag@Au Nanodisk Heterodimers. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10390-10395.	3.1	31
129	Identifying Enclosed Chemical Reaction and Dynamics at the Molecular Level Using Shell-Isolated Miniaturized Plasmonic Liquid Marble. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1501-1506.	4.6	30
130	Lattice strain and atomic replacement of CoO ₆ octahedra in layered sodium cobalt oxide for boosted water oxidation electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120477.	20.2	30
131	Engineering plasmonic nanorod arrays for colon cancer marker detection. <i>Biosensors and Bioelectronics</i> , 2015, 63, 472-477.	10.1	29
132	Electrochemical Approach to and the Physical Consequences of Preparing Nanostructures from Gold Nanorods with Smooth Ends. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15729-15734.	3.1	28
133	Template-free synthesis of large anisotropic gold nanostructures on reduced graphene oxide. <i>Nanoscale</i> , 2012, 4, 3055.	5.6	28
134	Optimal Interparticle Gap for Ultrahigh Field Enhancement by LSP Excitation via ESPs and Confirmation Using SERS. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28735-28742.	3.1	28
135	Performance-improved Li-O ₂ batteries by tailoring the phases of Mo _x C porous nanorods as an efficient cathode. <i>Nanoscale</i> , 2018, 10, 14877-14884.	5.6	28
136	3D Printed Smart Windows for Adaptive Solar Modulations. <i>Advanced Optical Materials</i> , 2020, 8, 2000013.	7.3	28
137	Empirical structural design of core@shell Au@Ag nanoparticles for SERS applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6649-6656.	5.5	27
138	Structural Effects in the Electromagnetic Enhancement Mechanism of Surface-Enhanced Raman Scattering: Dipole Reradiation and Rectangular Symmetry Effects for Nanoparticle Arrays. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17318-17327.	3.1	26
139	Metal-Ion Oligomerization Inside Electrified Carbon Micropores and its Effect on Capacitive Charge Storage. <i>Advanced Materials</i> , 2022, 34, e2107439.	21.0	24
140	Directing the Architecture of Surface-Clean Cu ₂ O for CO Electroreduction. <i>Journal of the American Chemical Society</i> , 2022, 144, 12410-12420.	13.7	24
141	Spatially Probed Plasmonic Photothermic Nanoheater Enhanced Hybrid Polymeric@Metallic PVDF@Ag Nanogenerator. <i>Small</i> , 2018, 14, 1702268.	10.0	23
142	Widening the Spectral Range of Ultrahigh Field Enhancement by Efficient Coupling of Localized to Extended Plasmons and Cavity Resonances in Grating Geometry. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27612-27623.	3.1	22
143	Dependence of Plasmonic Properties on Electron Densities for Various Coupled Au Nanostructures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27531-27538.	3.1	21
144	Intelligent and Ultrasensitive Analysis of Mercury Trace Contaminants via Plasmonic Metamaterial-Based Surface-Enhanced Raman Spectroscopy. <i>Small</i> , 2014, 10, 3252-3256.	10.0	20

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145	Alcohol-Mediated Resistance-Switching Behavior in Metal-Organic Framework-Based Electronic Devices. <i>Angewandte Chemie</i> , 2016, 128, 9030-9034.	2.0	19
146	Revealing Cation-Exchange-Induced Phase Transformations in Multielemental Chalcogenide Nanoparticles. <i>Chemistry of Materials</i> , 2017, 29, 9192-9199.	6.7	19
147	Self curing and voltage activated catechol adhesives. <i>Chemical Communications</i> , 2019, 55, 10076-10079.	4.1	19
148	Understanding the Activity of Carbon-Based Single-Atom Electrocatalysts from <i>Ab Initio</i> Simulations. , 2021, 3, 110-120.		19
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