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List of Publications by Year in descending order

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106
papers

6,721
citations

53794

45
h-index

62596

80
g-index

111
all docs

111
docs citations

111
times ranked

7953
citing authors

#	ARTICLE	IF	CITATIONS
1	Promises of Main Group Metal-Based Nanostructured Materials for Electrochemical CO ₂ Reduction to Formate. <i>Advanced Energy Materials</i> , 2020, 10, 1902338.	19.5	384
2	Magnetic Assembly Route to Colloidal Responsive Photonic Nanostructures. <i>Accounts of Chemical Research</i> , 2012, 45, 1431-1440.	15.6	327
3	Magnetically Recoverable Core-Shell Nanocomposites with Enhanced Photocatalytic Activity. <i>Chemistry - A European Journal</i> , 2010, 16, 6243-6250.	3.3	310
4	Magnetochromatic Microspheres: Rotating Photonic Crystals. <i>Journal of the American Chemical Society</i> , 2009, 131, 15687-15694.	13.7	246
5	Rewritable Photonic Paper with Hygroscopic Salt Solution as Ink. <i>Advanced Materials</i> , 2009, 21, 4259-4264.	21.0	232
6	Greenhouse-inspired supra-photothermal CO ₂ catalysis. <i>Nature Energy</i> , 2021, 6, 807-814.	39.5	198
7	Magnetic field guided colloidal assembly. <i>Materials Today</i> , 2013, 16, 110-116.	14.2	192
8	Photocatalytic colour switching of redox dyes for ink-free light-printable rewritable paper. <i>Nature Communications</i> , 2014, 5, 5459.	12.8	183
9	Assembly of Magnetically Tunable Photonic Crystals in Nonpolar Solvents. <i>Journal of the American Chemical Society</i> , 2009, 131, 3484-3486.	13.7	172
10	Niobium and Titanium Carbides (MXenes) as Superior Photothermal Supports for CO ₂ Photocatalysis. <i>ACS Nano</i> , 2021, 15, 5696-5705.	14.6	164
11	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12360-12364.	13.8	160
12	Thermoresponsive Assembly of Charged Gold Nanoparticles and Their Reversible Tuning of Plasmon Coupling. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6373-6377.	13.8	151
13	Photocatalytic Hydrogenation of Carbon Dioxide with High Selectivity to Methanol at Atmospheric Pressure. <i>Joule</i> , 2018, 2, 1369-1381.	24.0	148
14	Magnetically Responsive Photonic Nanochains. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3747-3750.	13.8	145
15	Magnetic Assembly and Field-Tuning of Ellipsoidal Nanoparticle-Based Colloidal Photonic Crystals. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7077-7081.	13.8	135
16	Visible and Near-Infrared Photothermal Catalyzed Hydrogenation of Gaseous CO ₂ over Nanostructured Pd@Nb ₂ O ₅ . <i>Advanced Science</i> , 2016, 3, 1600189.	11.2	133
17	Magnetically Actuated Liquid Crystals. <i>Nano Letters</i> , 2014, 14, 3966-3971.	9.1	125
18	Spatial Separation of Charge Carriers in In ₂ O ₃ (OH) Nanocrystal Superstructures for Enhanced Gas-Phase Photocatalytic Activity. <i>ACS Nano</i> , 2016, 10, 5578-5586.	14.6	118

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19	Mesoporous TiO ₂ Nanocrystal Clusters for Selective Enrichment of Phosphopeptides. <i>Analytical Chemistry</i> , 2010, 82, 7249-7258.	6.5	114
20	Cobalt Plasmonic Superstructures Enable Almost 100% Broadband Photon Efficient CO ₂ Photocatalysis. <i>Advanced Materials</i> , 2020, 32, e2000014.	21.0	109
21	Magnetic Assembly of Nonmagnetic Particles into Photonic Crystal Structures. <i>Nano Letters</i> , 2010, 10, 4708-4714.	9.1	100
22	Magnetic Tuning of Plasmonic Excitation of Gold Nanorods. <i>Journal of the American Chemical Society</i> , 2013, 135, 15302-15305.	13.7	98
23	Channel-restricted meniscus self-assembly for uniformly aligned growth of single-crystal arrays of organic semiconductors. <i>Materials Today</i> , 2019, 24, 17-25.	14.2	98
24	Heterogeneous reduction of carbon dioxide by hydride-terminated silicon nanocrystals. <i>Nature Communications</i> , 2016, 7, 12553.	12.8	93
25	Tailoring Surface Frustrated Lewis Pairs of In ₂ O ₃ (OH) _y for Gas-Phase Heterogeneous Photocatalytic Reduction of CO ₂ by Isomorphous Substitution of In ³⁺ with Bi ³⁺ . <i>Advanced Science</i> , 2018, 5, 1700732.	11.2	91
26	Nanocrystalline TiO ₂ -Catalyzed Photoreversible Color Switching. <i>Nano Letters</i> , 2014, 14, 1681-1686.	9.1	90
27	Carrier dynamics and the role of surface defects: Designing a photocatalyst for gas-phase CO ₂ reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8011-E8020.	7.1	89
28	Epitaxial Growth of Shape-Controlled Bi ₂ Te ₃ Te Heterogeneous Nanostructures. <i>Journal of the American Chemical Society</i> , 2010, 132, 17316-17324.	13.7	87
29	Magnetically induced colloidal assembly into field-responsive photonic structures. <i>Nanoscale</i> , 2011, 3, 177-183.	5.6	87
30	Probing Nanoparticle-Protein Interaction by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2010, 82, 7460-7466.	6.5	82
31	The role of adsorption in photocatalytic degradation of ibuprofen under visible light irradiation by BiOBr microspheres. <i>Chemical Engineering Journal</i> , 2016, 297, 139-147.	12.7	73
32	Oxygen-producing catalase-based prodrug nanoparticles overcoming resistance in hypoxia-mediated chemo-photodynamic therapy. <i>Acta Biomaterialia</i> , 2020, 112, 234-249.	8.3	69
33	Experimentally unveiling the origin of tunable selectivity for CO ₂ hydrogenation over Ni-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120191.	20.2	66
34	Monitoring the Shape Evolution of Silver Nanoplates: A Marker Study. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 552-555.	13.8	63
35	Magnetically rewritable photonic ink based on superparamagnetic nanochains. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6151.	5.5	58
36	Enhancing photothermal CO ₂ catalysis by thermal insulating substrates. <i>Rare Metals</i> , 2020, 39, 881-886.	7.1	57

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37	Self-assembly of superparamagnetic magnetite particles into peapod-like structures and their application in optical modulation. <i>Journal of Materials Chemistry</i> , 2010, 20, 7965.	6.7	55
38	Real-time Optofluidic Synthesis of Magnetochromatic Microspheres for Reversible Structural Color Patterning. <i>Small</i> , 2011, 7, 1163-1168.	10.0	54
39	Self-assembly and magnetically induced phase transition of three-dimensional colloidal photonic crystals. <i>Nanoscale</i> , 2012, 4, 4438.	5.6	52
40	Photonic Labyrinths: Two-Dimensional Dynamic Magnetic Assembly and <i>in Situ</i> Solidification. <i>Nano Letters</i> , 2013, 13, 1770-1775.	9.1	52
41	Effect of Precursor Selection on the Photocatalytic Performance of Indium Oxide Nanomaterials for Gas-Phase CO ₂ Reduction. <i>Chemistry of Materials</i> , 2016, 28, 4160-4168.	6.7	52
42	Ultraminiaturized Stretchable Strain Sensors Based on Single Silicon Nanowires for Imperceptible Electronic Skins. <i>Nano Letters</i> , 2020, 20, 2478-2485.	9.1	51
43	Colloidal Crystallization and Structural Changes in Suspensions of Silica/Magnetite Core-Shell Nanoparticles. <i>Langmuir</i> , 2012, 28, 14777-14783.	3.5	46
44	Magnetic Assembly and Patterning of General Nanoscale Materials through Nonmagnetic Templates. <i>Nano Letters</i> , 2013, 13, 264-271.	9.1	46
45	Breath-Taking Patterns: Discontinuous Hydrophilic Regions for Photonic Crystal Beads Assembly and Patterns Revisualization. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38117-38124.	8.0	46
46	Manipulating Graphene Mobility and Charge Neutral Point with Ligand-Bound Nanoparticles as Charge Reservoir. <i>Nano Letters</i> , 2010, 10, 4989-4993.	9.1	45
47	Assembly and Photonic Properties of Superparamagnetic Colloids in Complex Magnetic Fields. <i>Langmuir</i> , 2011, 27, 13444-13450.	3.5	45
48	Determination of Solvation Layer Thickness by a Magnetophotonic Approach. <i>ACS Nano</i> , 2012, 6, 4196-4202.	14.6	44
49	Porous hollow palladium nanoplatform for imaging-guided trimodal chemo-, photothermal-, and radiotherapy. <i>Nano Research</i> , 2018, 11, 2796-2808.	10.4	41
50	Tuning the Colloidal Crystal Structure of Magnetic Particles by External Field. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1803-1807.	13.8	39
51	Single-Stimulus-Induced Modulation of Multiple Optical Properties. <i>Advanced Materials</i> , 2019, 31, e1900388.	21.0	39
52	Charge Stabilization of Superparamagnetic Colloids for High-Performance Responsive Photonic Structures. <i>Small</i> , 2012, 8, 3795-3799.	10.0	38
53	Morphology-controlled In ₂ O ₃ nanostructures enhance the performance of photoelectrochemical water oxidation. <i>Nanoscale</i> , 2015, 7, 3683-3693.	5.6	37
54	CO ₂ Footprint of Thermal Versus Photothermal CO ₂ Catalysis. <i>Small</i> , 2021, 17, e2007025.	10.0	35

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55	Promoting Charge Separation in Semiconductor Nanocrystal Superstructures for Enhanced Photocatalytic Activity. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701694.	3.7	33
56	Salt-templated growth of monodisperse hollow nanostructures. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1404-1409.	10.3	33
57	Co ⁹ S ⁸ Nanoparticles for Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2021, 4, 1776-1785.	5.0	33
58	Emerging applications of MXene materials in CO ₂ photocatalysis. <i>FlatChem</i> , 2021, 28, 100252.	5.6	31
59	Magnetically responsive photonic films with high tunability and stability. <i>Nano Research</i> , 2015, 8, 611-620.	10.4	30
60	Gram-scale synthesis of superparamagnetic Fe ₃ O ₄ nanocrystal clusters with long-term charge stability for highly stable magnetically responsive photonic crystals. <i>Nanoscale</i> , 2016, 8, 19036-19042.	5.6	29
61	Centimeter-Long Single-Crystalline Si Nanowires. <i>Nano Letters</i> , 2017, 17, 7323-7329.	9.1	29
62	Local Curvature-Controlled Non-Epitaxial Growth of Hierarchical Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3772-3776.	13.8	28
63	Superparamagnetic nanocrystal clusters for enrichment of low-abundance peptides and proteins. <i>Chemical Communications</i> , 2010, 46, 6174.	4.1	27
64	Magnetochromatic Thin-Film Microplates. <i>Advanced Materials</i> , 2015, 27, 86-92.	21.0	27
65	Ruthenium Nanoparticles Supported on Mg(OH) ₂ Microflowers as Catalysts for Photothermal Carbon Dioxide Hydrogenation. <i>ACS Applied Nano Materials</i> , 2020, 3, 3028-3033.	5.0	25
66	Stable Cu Catalysts Supported by Two-dimensional SiO ₂ with Strong Metal-Support Interaction. <i>Advanced Science</i> , 2022, 9, e2104972.	11.2	25
67	Ru-Catalyzed Reverse Water Gas Shift Reaction with Near-Unity Selectivity and Superior Stability. , 2021, 3, 1652-1659.		24
68	Solution-Liquid-Solid Growth and Catalytic Applications of Silica Nanorod Arrays. <i>Advanced Science</i> , 2020, 7, 2000310.	11.2	22
69	Stabilization of Exposed Metal Nanocrystals in High-Temperature Heterogeneous Catalysis. <i>Advanced Materials</i> , 2022, 34, e2108727.	21.0	22
70	A general and mild route to highly dispersible anisotropic magnetic colloids for sensing weak magnetic fields. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5528-5535.	5.5	21
71	All-Earth-Abundant Photothermal Silicon Platform for CO ₂ Catalysis with Nearly 100% Sunlight Harvesting Ability. <i>Solar Rrl</i> , 2021, 5, 2000387.	5.8	21
72	A core-shell catalyst design boosts the performance of photothermal reverse water gas shift catalysis. <i>Science China Materials</i> , 2021, 64, 2212-2220.	6.3	21

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73	Improving Structural and Moisture Stability of P2-Layered Cathode Materials for Sodium-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 1252-1261.	5.1	21
74	Heterostructure Engineering of a Reverse Water Gas Shift Photocatalyst. Advanced Science, 2019, 6, 1902170.	11.2	20
75	The diameter-dependent photoelectrochemical performance of silicon nanowires. Chemical Communications, 2016, 52, 1369-1372.	4.1	19
76	Local Curvature Controlled Non-Epitaxial Growth of Hierarchical Nanostructures. Angewandte Chemie, 2018, 130, 3834-3838.	2.0	19
77	Silica Nanocapsules with Unusual Shapes Accessed by Simultaneous Growth of the Template and Silica Nanostructure. Chemistry of Materials, 2020, 32, 575-581.	6.7	18
78	Formation of colloidal nanocrystal clusters of iron oxide by controlled ligand stripping. Chemical Communications, 2016, 52, 128-131.	4.1	17
79	A mechanistic study of silica-etching by hot water. Physical Chemistry Chemical Physics, 2018, 20, 1440-1446.	2.8	17
80	Exploration of Possible Binding Sites of Nanoparticles on Protein by Cross-Linking Chemistry Coupled with Mass Spectrometry. Analytical Chemistry, 2011, 83, 6929-6934.	6.5	15
81	Rugby-ball-like photonic crystal supraparticles with non-close-packed structures and multiple magneto-optical responses. Journal of Materials Chemistry C, 2019, 7, 15042-15048.	5.5	15
82	Radioiodinated tyrosine based carbon dots with efficient renal clearance for single photon emission computed tomography of tumor. Nano Research, 2019, 12, 3037-3043.	10.4	14
83	Lithographic compartmentalization of emulsion droplet templates for microparticles with multiple nanostructured compartments. Chemical Communications, 2012, 48, 6091.	4.1	12
84	One-step growth of large-area silicon nanowire fabrics for high-performance multifunctional wearable sensors. Nano Research, 2019, 12, 2723-2728.	10.4	11
85	Cobalt Sputtered Anodic Aluminum Oxide Membrane for Efficient Photothermal CO ₂ Hydrogenation. ChemNanoMat, 2021, 7, 1008-1012.	2.8	11
86	Fully Alloying AuAg Nanorods in a Photothermal Nano-Oven: Superior Plasmonic Property and Enhanced Chemical Stability. ACS Omega, 2018, 3, 18623-18629.	3.5	10
87	Dye colour switching by hydride-terminated silicon particles and its application as an oxygen indicator. Journal of Materials Chemistry C, 2016, 4, 4577-4583.	5.5	9
88	A general and facile approach to disperse hydrophobic nanocrystals in water with enhanced long-term stability. Journal of Materials Chemistry C, 2017, 5, 3065-3071.	5.5	9
89	Photonic nanostructures of nanodiscs with multiple magneto-optical properties. Journal of Materials Chemistry C, 2020, 8, 16067-16072.	5.5	9
90	Dispersing hydrophilic nanoparticles in nonaqueous solvents with superior long-term stability. RSC Advances, 2017, 7, 25535-25541.	3.6	8

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91	Oxygen Microbubble Generator Enabled by Tunable Catalytic Microtubes. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2431-2434.	3.3	8
92	Magnetic assembly and manipulation of Janus photonic crystal supraparticles from a colloidal mixture of spheres and ellipsoids. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11788-11793.	5.5	8
93	Superparamagnetic Magnetite Nanoparticle Superstructures for Optical Modulation/Chopping. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17868-17873.	3.1	7
94	A Step-by-Step Strategy for Controlled Preparations of Complex Heterostructured Colloids. <i>Chemistry of Materials</i> , 2019, 31, 9513-9521.	6.7	7
95	Wafer-Scale Fabrication of Silicon Nanocones via Controlling Catalyst Evolution in All-Wet Metal-Assisted Chemical Etching. <i>ACS Omega</i> , 2022, 7, 2234-2243.	3.5	7
96	Magnetic field control of fluorescent polymer nanorods. <i>Nanotechnology</i> , 2011, 22, 455704.	2.6	6
97	Magnetic Assembly and Field-Tuning of Ellipsoidal Nanoparticle-Based Colloidal Photonic Crystals. <i>Angewandte Chemie</i> , 2015, 127, 7183-7187.	2.0	5
98	Design of magnetic nanoparticles with high magnetic separation efficiencies and durability for Cu ²⁺ adsorption. <i>Nanotechnology</i> , 2020, 31, 085710.	2.6	5
99	Anomalous effect of the aging degree on the ionic permeability of silica shells. <i>RSC Advances</i> , 2018, 8, 38499-38505.	3.6	4
100	Magnetically responsive photonic nanostructures: making color using magnets. , 2011, , .		2
101	Magnetochromatic Microspheres: Real-Time Optofluidic Synthesis of Magnetochromatic Microspheres for Reversible Structural Color Patterning (<i>Small</i> 9/2011). <i>Small</i> , 2011, 7, 1142-1142.	10.0	1
102	Editorial: Recent Advances in Responsive Optical Nanomaterials. <i>Frontiers in Chemistry</i> , 2021, 9, 760187.	3.6	1
103	Shear-induced alignment of low-aspect-ratio nanorods for modulations of multiple optical properties. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9478-9483.	5.5	1
104	MAGNETICALLY TUNABLE COLLOIDAL PHOTONIC CRYSTALS. , 2011, , 1-35.		0
105	Titelbild: Magnetically Responsive Photonic Nanochains (<i>Angew. Chem.</i> 16/2011). <i>Angewandte Chemie</i> , 2011, 123, 3900-3900.	2.0	0
106	Back Cover: Magnetically Responsive Photonic Nanochains (<i>Angew. Chem. Int. Ed.</i> 16/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3816-3816.	13.8	0