Le He

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107 papers	4,817 citations	39 h-index	67 g-index
111 ext. papers	5,804 ext. citations	11.1 avg, IF	5.79 L-index

#	Paper	IF	Citations
107	Magnetically recoverable core-shell nanocomposites with enhanced photocatalytic activity. *Chemistry - A European Journal*, **2010**, 16, 6243-50	4.8	285
106	Magnetic assembly route to colloidal responsive photonic nanostructures. *Accounts of Chemical Research*, **2012**, 45, 1431-40	24.3	265
105	Magnetochromatic microspheres: rotating photonic crystals. *Journal of the American Chemical Society*, **2009**, 131, 15687-94	16.4	214
104	Rewritable Photonic Paper with Hygroscopic Salt Solution as Ink. *Advanced Materials*, **2009**, 21, 4259-4264	24	204
103	Promises of Main Group Metal-Based Nanostructured Materials for Electrochemical CO2 Reduction to Formate. *Advanced Energy Materials*, **2020**, 10, 1902338	21.8	187
102	Assembly of magnetically tunable photonic crystals in nonpolar solvents. *Journal of the American Chemical Society*, **2009**, 131, 3484-6	16.4	155
101	Magnetic field guided colloidal assembly. *Materials Today*, **2013**, 16, 110-116	21.8	153
100	Photocatalytic colour switching of redox dyes for ink-free light-printable rewritable paper. *Nature Communications*, **2014**, 5, 5459	17.4	140
99	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. *Angewandte Chemie - International Edition*, **2018**, 57, 12360-12364	16.4	133
98	Thermoresponsive assembly of charged gold nanoparticles and their reversible tuning of plasmon coupling. *Angewandte Chemie - International Edition*, **2012**, 51, 6373-7	16.4	129
97	Magnetically responsive photonic nanochains. *Angewandte Chemie - International Edition*, **2011**, 50, 3747-50	16.4	126
96	Magnetic assembly and field-tuning of ellipsoidal-nanoparticle-based colloidal photonic crystals. *Angewandte Chemie - International Edition*, **2015**, 54, 7077-81	16.4	110
95	Mesoporous TiO(2) nanocrystal clusters for selective enrichment of phosphopeptides. *Analytical Chemistry*, **2010**, 82, 7249-58	7.8	108
94	Photocatalytic Hydrogenation of Carbon Dioxide with High Selectivity to Methanol at Atmospheric Pressure. *Joule*, **2018**, 2, 1369-1381	27.8	100
93	Magnetically actuated liquid crystals. *Nano Letters*, **2014**, 14, 3966-71	11.5	96
92	Spatial Separation of Charge Carriers in In2O3-x(OH)y Nanocrystal Superstructures for Enhanced Gas-Phase Photocatalytic Activity. *ACS Nano*, **2016**, 10, 5578-86	16.7	95
91	Epitaxial growth of shape-controlled Bi2Te3-Te heterogeneous nanostructures. *Journal of the American Chemical Society*, **2010**, 132, 17316-24	16.4	83

90	Visible and Near-Infrared Photothermal Catalyzed Hydrogenation of Gaseous CO over Nanostructured Pd@NbO. *Advanced Science*, **2016**, 3, 1600189	13.6	82
89	Magnetic assembly of nonmagnetic particles into photonic crystal structures. *Nano Letters*, **2010**, 10, 4708-14	11.5	79
88	Magnetic tuning of plasmonic excitation of gold nanorods. *Journal of the American Chemical Society* , **2013**, 135, 15302-5	16.4	77
87	Probing nanoparticle--protein interaction by capillary electrophoresis. *Analytical Chemistry*, **2010**, 82, 7460-6	7.8	76
86	Channel-restricted meniscus self-assembly for uniformly aligned growth of single-crystal arrays of organic semiconductors. *Materials Today*, **2019**, 24, 17-25	21.8	75
85	Heterogeneous reduction of carbon dioxide by hydride-terminated silicon nanocrystals. *Nature Communications*, **2016**, 7, 12553	17.4	73
84	Carrier dynamics and the role of surface defects: Designing a photocatalyst for gas-phase CO2 reduction. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E8011-E8020	11.5	73
83	Nanocrystalline TiO□catalyzed photoreversible color switching. *Nano Letters*, **2014**, 14, 1681-6	11.5	71
82	Magnetically induced colloidal assembly into field-responsive photonic structures. *Nanoscale*, **2011**, 3, 177-83	7.7	71
81	Tailoring Surface Frustrated Lewis Pairs of InO (OH) for Gas-Phase Heterogeneous Photocatalytic Reduction of CO by Isomorphous Substitution of In with Bi. *Advanced Science*, **2018**, 5, 1700732	13.6	60
80	Monitoring the shape evolution of silver nanoplates: a marker study. *Angewandte Chemie - International Edition*, **2012**, 51, 552-5	16.4	58
79	Cobalt Plasmonic Superstructures Enable Almost 100% Broadband Photon Efficient CO Photocatalysis. *Advanced Materials*, **2020**, 32, e2000014	24	55
78	The role of adsorption in photocatalytic degradation of ibuprofen under visible light irradiation by BiOBr microspheres. *Chemical Engineering Journal*, **2016**, 297, 139-147	14.7	54
77	Self-assembly of superparamagnetic magnetite particles into peapod-like structures and their application in optical modulation. *Journal of Materials Chemistry*, **2010**, 20, 7965		52
76	Real-time optofluidic synthesis of magnetochromatic microspheres for reversible structural color patterning. *Small*, **2011**, 7, 1163-8	11	51
75	Magnetically rewritable photonic ink based on superparamagnetic nanochains. *Journal of Materials Chemistry C*, **2013**, 1, 6151	7.1	47
74	Photonic labyrinths: two-dimensional dynamic magnetic assembly and in situ solidification. *Nano Letters*, **2013**, 13, 1770-5	11.5	44
73	Niobium and Titanium Carbides (MXenes) as Superior Photothermal Supports for CO Photocatalysis. *ACS Nano*, **2021**, 15, 5696-5705	16.7	44

72	Colloidal crystallization and structural changes in suspensions of silica/magnetite core-shell nanoparticles. *Langmuir*, **2012**, 28, 14777-83	4	42
71	Breath-Taking Patterns: Discontinuous Hydrophilic Regions for Photonic Crystal Beads Assembly and Patterns Revisualization. *ACS Applied Materials & Interfaces*, **2017**, 9, 38117-38124	9.5	41
70	Self-assembly and magnetically induced phase transition of three-dimensional colloidal photonic crystals. *Nanoscale*, **2012**, 4, 4438-42	7.7	41
69	Determination of solvation layer thickness by a magnetophotonic approach. *ACS Nano*, **2012**, 6, 4196-202	16.7	40
68	Oxygen-producing catalase-based prodrug nanoparticles overcoming resistance in hypoxia-mediated chemo-photodynamic therapy. *Acta Biomaterialia*, **2020**, 112, 234-249	10.8	38
67	Magnetic assembly and patterning of general nanoscale materials through nonmagnetic templates. *Nano Letters*, **2013**, 13, 264-71	11.5	37
66	Manipulating graphene mobility and charge neutral point with ligand-bound nanoparticles as charge reservoir. *Nano Letters*, **2010**, 10, 4989-93	11.5	37
65	Effect of Precursor Selection on the Photocatalytic Performance of Indium Oxide Nanomaterials for Gas-Phase CO2 Reduction. *Chemistry of Materials*, **2016**, 28, 4160-4168	9.6	36
64	Greenhouse-inspired supra-photothermal CO2 catalysis. *Nature Energy*, **2021**, 6, 807-814	62.3	36
63	Ultraminiaturized Stretchable Strain Sensors Based on Single Silicon Nanowires for Imperceptible Electronic Skins. *Nano Letters*, **2020**, 20, 2478-2485	11.5	34
62	Assembly and photonic properties of superparamagnetic colloids in complex magnetic fields. *Langmuir*, **2011**, 27, 13444-50	4	32
61	Tuning the colloidal crystal structure of magnetic particles by external field. *Angewandte Chemie - International Edition*, **2015**, 54, 1803-7	16.4	30
60	Charge stabilization of superparamagnetic colloids for high-performance responsive photonic structures. *Small*, **2012**, 8, 3795-9	11	30
59	Morphology-controlled In2O3 nanostructures enhance the performance of photoelectrochemical water oxidation. *Nanoscale*, **2015**, 7, 3683-93	7.7	28
58	Single-Stimulus-Induced Modulation of Multiple Optical Properties. *Advanced Materials*, **2019**, 31, e1900388	24	27
57	Enhancing photothermal CO2 catalysis by thermal insulating substrates. *Rare Metals*, **2020**, 39, 881-886	5.5	27
56	Porous hollow palladium nanoplatform for imaging-guided trimodal chemo-, photothermal-, and radiotherapy. *Nano Research*, **2018**, 11, 2796-2808	10	26
55	Superparamagnetic nanocrystal clusters for enrichment of low-abundance peptides and proteins. *Chemical Communications*, **2010**, 46, 6174-6	5.8	26

54	Promoting Charge Separation in Semiconductor Nanocrystal Superstructures for Enhanced Photocatalytic Activity. *Advanced Materials Interfaces*, **2018**, 5, 1701694	4.6	25
53	Magnetochromatic thin-film microplates. *Advanced Materials*, **2015**, 27, 86-92	24	24
52	Salt-templated growth of monodisperse hollow nanostructures. *Journal of Materials Chemistry A*, **2019**, 7, 1404-1409	13	23
51	Centimeter-Long Single-Crystalline Si Nanowires. *Nano Letters*, **2017**, 17, 7323-7329	11.5	23
50	Thermoresponsive Assembly of Charged Gold Nanoparticles and Their Reversible Tuning of Plasmon Coupling. *Angewandte Chemie*, **2012**, 124, 6479-6483	3.6	22
49	Magnetically responsive photonic films with high tunability and stability. *Nano Research*, **2015**, 8, 611-620	10	21
48	Magnetically Responsive Photonic Nanochains. *Angewandte Chemie*, **2011**, 123, 3831-3834	3.6	20
47	Experimentally unveiling the origin of tunable selectivity for CO2 hydrogenation over Ni-based catalysts. *Applied Catalysis B: Environmental*, **2021**, 292, 120191	21.8	18
46	A general and mild route to highly dispersible anisotropic magnetic colloids for sensing weak magnetic fields. *Journal of Materials Chemistry C*, **2018**, 6, 5528-5535	7.1	17
45	Ruthenium Nanoparticles Supported on Mg(OH)2 Microflowers as Catalysts for Photothermal Carbon Dioxide Hydrogenation. *ACS Applied Nano Materials*, **2020**, 3, 3028-3033	5.6	15
44	Local-Curvature-Controlled Non-Epitaxial Growth of Hierarchical Nanostructures. *Angewandte Chemie - International Edition*, **2018**, 57, 3772-3776	16.4	15
43	Gram-scale synthesis of superparamagnetic FeO nanocrystal clusters with long-term charge stability for highly stable magnetically responsive photonic crystals. *Nanoscale*, **2016**, 8, 19036-19042	7.7	15
42	The diameter-dependent photoelectrochemical performance of silicon nanowires. *Chemical Communications*, **2016**, 52, 1369-72	5.8	14
41	Exploration of possible binding sites of nanoparticles on protein by cross-linking chemistry coupled with mass spectrometry. *Analytical Chemistry*, **2011**, 83, 6929-34	7.8	14
40	A mechanistic study of silica-etching by hot water. *Physical Chemistry Chemical Physics*, **2018**, 20, 1440-1446	3.6	13
39	Heterostructure Engineering of a Reverse Water Gas Shift Photocatalyst. *Advanced Science*, **2019**, 6, 1902170	15.8	12
38	Lithographic compartmentalization of emulsion droplet templates for microparticles with multiple nanostructured compartments. *Chemical Communications*, **2012**, 48, 6091-3	5.8	12
37	Formation of colloidal nanocrystal clusters of iron oxide by controlled ligand stripping. *Chemical Communications*, **2016**, 52, 128-31	5.8	11

36	Silica Nanocapsules with Unusual Shapes Accessed by Simultaneous Growth of the Template and Silica Nanostructure. *Chemistry of Materials*, **2020**, 32, 575-581	9.6	11
35	Solution-Liquid-Solid Growth and Catalytic Applications of Silica Nanorod Arrays. *Advanced Science*, **2020**, 7, 2000310	13.6	8
34	Radioiodinated tyrosine based carbon dots with efficient renal clearance for single photon emission computed tomography of tumor. *Nano Research*, **2019**, 12, 3037-3043	10	8
33	Monitoring the Shape Evolution of Silver Nanoplates: A Marker Study. *Angewandte Chemie*, **2012**, 124, 567-570	3.6	8
32	All-Earth-Abundant Photothermal Silicon Platform for CO2 Catalysis with Nearly 100% Sunlight Harvesting Ability. *Solar Rrl*, **2021**, 5, 2000387	7.1	8
31	Co9S8 Nanoparticles for Hydrogen Evolution. *ACS Applied Nano Materials*, **2021**, 4, 1776-1785	5.6	8
30	CO Footprint of Thermal Versus Photothermal CO Catalysis. *Small*, **2021**, 17, e2007025	11	8
29	Fully Alloying AuAg Nanorods in a Photothermal Nano-Oven: Superior Plasmonic Property and Enhanced Chemical Stability. *ACS Omega*, **2018**, 3, 18623-18629	3.9	8
28	Emerging applications of MXene materials in CO2 photocatalysis. *FlatChem*, **2021**, 28, 100252	5.1	8
27	One-step growth of large-area silicon nanowire fabrics for high-performance multifunctional wearable sensors. *Nano Research*, **2019**, 12, 2723-2728	10	7
26	Dye colour switching by hydride-terminated silicon particles and its application as an oxygen indicator. *Journal of Materials Chemistry C*, **2016**, 4, 4577-4583	7.1	7
25	A Step-by-Step Strategy for Controlled Preparations of Complex Heterostructured Colloids. *Chemistry of Materials*, **2019**, 31, 9513-9521	9.6	6
24	Superparamagnetic Magnetite Nanoparticle Superstructures for Optical Modulation/Chopping. *Journal of Physical Chemistry C*, **2010**, 114, 17868-17873	3.8	6
23	A core-shell catalyst design boosts the performance of photothermal reverse water gas shift catalysis. *Science China Materials*, **2021**, 64, 2212-2220	7.1	6
22	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	7.1	5
21	Dispersing hydrophilic nanoparticles in nonaqueous solvents with superior long-term stability. *RSC Advances*, **2017**, 7, 25535-25541	3.7	5
20	Oxygen Microbubble Generator Enabled by Tunable Catalytic Microtubes. *Chemistry - an Asian Journal*, **2019**, 14, 2431-2434	4.5	5
19	Local-Curvature-Controlled Non-Epitaxial Growth of Hierarchical Nanostructures. *Angewandte Chemie*, **2018**, 130, 3834-3838	3.6	5

18	Magnetic Assembly and Field-Tuning of Ellipsoidal-Nanoparticle-Based Colloidal Photonic Crystals. *Angewandte Chemie*, **2015**, 127, 7183-7187	3.6	5
17	Magnetic field control of fluorescent polymer nanorods. *Nanotechnology*, **2011**, 22, 455704	3.4	5
16	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	7.1	5
15	Improving Structural and Moisture Stability of P2-Layered Cathode Materials for Sodium-Ion Batteries. *ACS Applied Energy Materials*,	6.1	4
14	Ru-Catalyzed Reverse Water Gas Shift Reaction with Near-Unity Selectivity and Superior Stability. **2021**, 3, 1652-1659		4
13	Photonic nanostructures of nanodiscs with multiple magneto-optical properties. *Journal of Materials Chemistry C*, **2020**, 8, 16067-16072	7.1	4
12	Stable Cu Catalysts Supported by Two-dimensional SiO with Strong Metal-Support Interaction.. *Advanced Science*, **2022**, e2104972	13.6	3
11	Tuning the Colloidal Crystal Structure of Magnetic Particles by External Field. *Angewandte Chemie*, **2015**, 127, 1823-1827	3.6	2
10	Wafer-Scale Fabrication of Silicon Nanocones via Controlling Catalyst Evolution in All-Wet Metal-Assisted Chemical Etching.. *ACS Omega*, **2022**, 7, 2234-2243	3.9	2
9	Stabilization of Exposed Metal Nanocrystals in High-temperature Heterogeneous Catalysis. *Advanced Materials*, **2021**, e2108727	24	2
8	Cobalt-Sputtered Anodic Aluminum Oxide Membrane for Efficient Photothermal CO2 Hydrogenation. *ChemNanoMat*, **2021**, 7, 1008-1012	3.5	2
7	Magnetochromatic Microspheres: Real-Time Optofluidic Synthesis of Magnetochromatic Microspheres for Reversible Structural Color Patterning (Small 9/2011). *Small*, **2011**, 7, 1142-1142	11	1
6	Design of magnetic nanoparticles with high magnetic separation efficiencies and durability for Cu adsorption. *Nanotechnology*, **2019**, 31, 085710	3.4	1
5	Magnetic assembly and manipulation of Janus photonic crystal supraparticles from a colloidal mixture of spheres and ellipsoids. *Journal of Materials Chemistry C*, **2021**, 9, 11788-11793	7.1	1
4	Anomalous effect of the aging degree on the ionic permeability of silica shells.. *RSC Advances*, **2018** , 8, 38499-38505	3.7	1
3	MAGNETICALLY TUNABLE COLLOIDAL PHOTONIC CRYSTALS **2011**, 1-35		
2	R□ktitelbild: Magnetically Responsive Photonic Nanochains (Angew. Chem. 16/2011). *Angewandte Chemie*, **2011**, 123, 3900-3900	3.6	
1	Back Cover: Magnetically Responsive Photonic Nanochains (Angew. Chem. Int. Ed. 16/2011). *Angewandte Chemie - International Edition*, **2011**, 50, 3816-3816	16.4	