

# Le He

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4559573/le-he-publications-by-year.pdf>  
**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
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	Stable Cu Catalysts Supported by Two-dimensional SiO with Strong Metal-Support Interaction.. <i>Advanced Science</i> , <b>2022</b> , e2104972	13.6	3
106	Wafer-Scale Fabrication of Silicon Nanocones via Controlling Catalyst Evolution in All-Wet Metal-Assisted Chemical Etching.. <i>ACS Omega</i> , <b>2022</b> , 7, 2234-2243	3.9	2
105	Stabilization of Exposed Metal Nanocrystals in High-temperature Heterogeneous Catalysis. <i>Advanced Materials</i> , <b>2021</b> , e2108727	24	2
104	Ru-Catalyzed Reverse Water Gas Shift Reaction with Near-Unity Selectivity and Superior Stability. <b>2021</b> , 3, 1652-1659		4
103	A core-shell catalyst design boosts the performance of photothermal reverse water gas shift catalysis. <i>Science China Materials</i> , <b>2021</b> , 64, 2212-2220	7.1	6
102	Cobalt-Sputtered Anodic Aluminum Oxide Membrane for Efficient Photothermal CO <sub>2</sub> Hydrogenation. <i>ChemNanoMat</i> , <b>2021</b> , 7, 1008-1012	3.5	2
101	Greenhouse-inspired supra-photothermal CO <sub>2</sub> catalysis. <i>Nature Energy</i> , <b>2021</b> , 6, 807-814	62.3	36
100	All-Earth-Abundant Photothermal Silicon Platform for CO <sub>2</sub> Catalysis with Nearly 100% Sunlight Harvesting Ability. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000387	7.1	8
99	Co <sub>9</sub> S <sub>8</sub> Nanoparticles for Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 1776-1785	5.6	8
98	Magnetic assembly and manipulation of Janus photonic crystal supraparticles from a colloidal mixture of spheres and ellipsoids. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 11788-11793	7.1	1
97	Niobium and Titanium Carbides (MXenes) as Superior Photothermal Supports for CO Photocatalysis. <i>ACS Nano</i> , <b>2021</b> , 15, 5696-5705	16.7	44
96	CO Footprint of Thermal Versus Photothermal CO Catalysis. <i>Small</i> , <b>2021</b> , 17, e2007025	11	8
95	Emerging applications of MXene materials in CO <sub>2</sub> photocatalysis. <i>FlatChem</i> , <b>2021</b> , 28, 100252	5.1	8
94	Experimentally unveiling the origin of tunable selectivity for CO <sub>2</sub> hydrogenation over Ni-based catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 292, 120191	21.8	18
93	Cobalt Plasmonic Superstructures Enable Almost 100% Broadband Photon Efficient CO Photocatalysis. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000014	24	55
92	Oxygen-producing catalase-based prodrug nanoparticles overcoming resistance in hypoxia-mediated chemo-photodynamic therapy. <i>Acta Biomaterialia</i> , <b>2020</b> , 112, 234-249	10.8	38
91	Solution-Liquid-Solid Growth and Catalytic Applications of Silica Nanorod Arrays. <i>Advanced Science</i> , <b>2020</b> , 7, 2000310	13.6	8

90	Enhancing photothermal CO <sub>2</sub> catalysis by thermal insulating substrates. <i>Rare Metals</i> , <b>2020</b> , 39, 881-886	5.5	27
89	Ultraminiaturized Stretchable Strain Sensors Based on Single Silicon Nanowires for Imperceptible Electronic Skins. <i>Nano Letters</i> , <b>2020</b> , 20, 2478-2485	11.5	34
88	Ruthenium Nanoparticles Supported on Mg(OH) <sub>2</sub> Microflowers as Catalysts for Photothermal Carbon Dioxide Hydrogenation. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 3028-3033	5.6	15
87	Promises of Main Group Metal-Based Nanostructured Materials for Electrochemical CO <sub>2</sub> Reduction to Formate. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902338	21.8	187
86	Silica Nanocapsules with Unusual Shapes Accessed by Simultaneous Growth of the Template and Silica Nanostructure. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 575-581	9.6	11
85	Photonic nanostructures of nanodiscs with multiple magneto-optical properties. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 16067-16072	7.1	4
84	One-step growth of large-area silicon nanowire fabrics for high-performance multifunctional wearable sensors. <i>Nano Research</i> , <b>2019</b> , 12, 2723-2728	10	7
83	Salt-templated growth of monodisperse hollow nanostructures. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 1404-1409	13	23
82	Oxygen Microbubble Generator Enabled by Tunable Catalytic Microtubes. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 2431-2434	4.5	5
81	Single-Stimulus-Induced Modulation of Multiple Optical Properties. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900388	3.8	27
80	Channel-restricted meniscus self-assembly for uniformly aligned growth of single-crystal arrays of organic semiconductors. <i>Materials Today</i> , <b>2019</b> , 24, 17-25	21.8	75
79	Heterostructure Engineering of a Reverse Water Gas Shift Photocatalyst. <i>Advanced Science</i> , <b>2019</b> , 6, 1902170	1.6	12
78	Radioiodinated tyrosine based carbon dots with efficient renal clearance for single photon emission computed tomography of tumor. <i>Nano Research</i> , <b>2019</b> , 12, 3037-3043	10	8
77	A Step-by-Step Strategy for Controlled Preparations of Complex Heterostructured Colloids. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9513-9521	9.6	6
76	Design of magnetic nanoparticles with high magnetic separation efficiencies and durability for Cu adsorption. <i>Nanotechnology</i> , <b>2019</b> , 31, 085710	3.4	1
75	Rugby-ball-like photonic crystal supraparticles with non-close-packed structures and multiple magneto-optical responses. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 15042-15048	7.1	5
74	Local-Curvature-Controlled Non-Epitaxial Growth of Hierarchical Nanostructures. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 3834-3838	3.6	5
73	Photocatalytic Hydrogenation of Carbon Dioxide with High Selectivity to Methanol at Atmospheric Pressure. <i>Joule</i> , <b>2018</b> , 2, 1369-1381	27.8	100

72	Local-Curvature-Controlled Non-Epitaxial Growth of Hierarchical Nanostructures. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 3772-3776	16.4	15
71	Porous hollow palladium nanoplatform for imaging-guided trimodal chemo-, photothermal-, and radiotherapy. <i>Nano Research</i> , <b>2018</b> , 11, 2796-2808	10	26
70	Promoting Charge Separation in Semiconductor Nanocrystal Superstructures for Enhanced Photocatalytic Activity. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701694	4.6	25
69	A general and mild route to highly dispersible anisotropic magnetic colloids for sensing weak magnetic fields. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 5528-5535	7.1	17
68	Tailoring Surface Frustrated Lewis Pairs of InO (OH) for Gas-Phase Heterogeneous Photocatalytic Reduction of CO by Isomorphous Substitution of In with Bi. <i>Advanced Science</i> , <b>2018</b> , 5, 1700732	13.6	60
67	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 12360-12364	16.4	133
66	A mechanistic study of silica-etching by hot water. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 1440-1446	4.6	13
65	Anomalous effect of the aging degree on the ionic permeability of silica shells.. <i>RSC Advances</i> , <b>2018</b> , 8, 38499-38505	3.7	1
64	Fully Alloying AuAg Nanorods in a Photothermal Nano-Oven: Superior Plasmonic Property and Enhanced Chemical Stability. <i>ACS Omega</i> , <b>2018</b> , 3, 18623-18629	3.9	8
63	A general and facile approach to disperse hydrophobic nanocrystals in water with enhanced long-term stability. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 3065-3071	7.1	5
62	Dispersing hydrophilic nanoparticles in nonaqueous solvents with superior long-term stability. <i>RSC Advances</i> , <b>2017</b> , 7, 25535-25541	3.7	5
61	Breath-Taking Patterns: Discontinuous Hydrophilic Regions for Photonic Crystal Beads Assembly and Patterns Revisualization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38117-38124	9.5	41
60	Centimeter-Long Single-Crystalline Si Nanowires. <i>Nano Letters</i> , <b>2017</b> , 17, 7323-7329	11.5	23
59	Formation of colloidal nanocrystal clusters of iron oxide by controlled ligand stripping. <i>Chemical Communications</i> , <b>2016</b> , 52, 128-31	5.8	11
58	Visible and Near-Infrared Photothermal Catalyzed Hydrogenation of Gaseous CO over Nanostructured Pd@NbO. <i>Advanced Science</i> , <b>2016</b> , 3, 1600189	13.6	82
57	Gram-scale synthesis of superparamagnetic FeO nanocrystal clusters with long-term charge stability for highly stable magnetically responsive photonic crystals. <i>Nanoscale</i> , <b>2016</b> , 8, 19036-19042	7.7	15
56	Heterogeneous reduction of carbon dioxide by hydride-terminated silicon nanocrystals. <i>Nature Communications</i> , <b>2016</b> , 7, 12553	17.4	73
55	Effect of Precursor Selection on the Photocatalytic Performance of Indium Oxide Nanomaterials for Gas-Phase CO <sub>2</sub> Reduction. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4160-4168	9.6	36

54	The diameter-dependent photoelectrochemical performance of silicon nanowires. <i>Chemical Communications</i> , <b>2016</b> , 52, 1369-72	5.8	14
53	Carrier dynamics and the role of surface defects: Designing a photocatalyst for gas-phase CO <sub>2</sub> reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E8011-E8020	11.5	73
52	Dye colour switching by hydride-terminated silicon particles and its application as an oxygen indicator. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 4577-4583	7.1	7
51	The role of adsorption in photocatalytic degradation of ibuprofen under visible light irradiation by BiOBr microspheres. <i>Chemical Engineering Journal</i> , <b>2016</b> , 297, 139-147	14.7	54
50	Spatial Separation of Charge Carriers in In <sub>2</sub> O <sub>3</sub> -x(OH) <sub>y</sub> Nanocrystal Superstructures for Enhanced Gas-Phase Photocatalytic Activity. <i>ACS Nano</i> , <b>2016</b> , 10, 5578-86	16.7	95
49	Morphology-controlled In <sub>2</sub> O <sub>3</sub> nanostructures enhance the performance of photoelectrochemical water oxidation. <i>Nanoscale</i> , <b>2015</b> , 7, 3683-93	7.7	28
48	Magnetically responsive photonic films with high tunability and stability. <i>Nano Research</i> , <b>2015</b> , 8, 611-620	20	21
47	Magnetic assembly and field-tuning of ellipsoidal-nanoparticle-based colloidal photonic crystals. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 7077-81	16.4	110
46	Tuning the colloidal crystal structure of magnetic particles by external field. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 1803-7	16.4	30
45	Tuning the Colloidal Crystal Structure of Magnetic Particles by External Field. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 1823-1827	3.6	2
44	Magnetochromatic thin-film microplates. <i>Advanced Materials</i> , <b>2015</b> , 27, 86-92	24	24
43	Magnetic Assembly and Field-Tuning of Ellipsoidal-Nanoparticle-Based Colloidal Photonic Crystals. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 7183-7187	3.6	5
42	Nanocrystalline TiO <sub>2</sub> -catalyzed photoreversible color switching. <i>Nano Letters</i> , <b>2014</b> , 14, 1681-6	11.5	71
41	Magnetically actuated liquid crystals. <i>Nano Letters</i> , <b>2014</b> , 14, 3966-71	11.5	96
40	Photocatalytic colour switching of redox dyes for ink-free light-printable rewritable paper. <i>Nature Communications</i> , <b>2014</b> , 5, 5459	17.4	140
39	Magnetic tuning of plasmonic excitation of gold nanorods. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 15302-5	16.4	77
38	Magnetically rewritable photonic ink based on superparamagnetic nanochains. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 6151	7.1	47
37	Magnetic assembly and patterning of general nanoscale materials through nonmagnetic templates. <i>Nano Letters</i> , <b>2013</b> , 13, 264-71	11.5	37

36	Photonic labyrinths: two-dimensional dynamic magnetic assembly and in situ solidification. <i>Nano Letters</i> , <b>2013</b> , 13, 1770-5	11.5	44
35	Magnetic field guided colloidal assembly. <i>Materials Today</i> , <b>2013</b> , 16, 110-116	21.8	153
34	Monitoring the Shape Evolution of Silver Nanoplates: A Marker Study. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 567-570	3.6	8
33	Monitoring the shape evolution of silver nanoplates: a marker study. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 552-5	16.4	58
32	Charge stabilization of superparamagnetic colloids for high-performance responsive photonic structures. <i>Small</i> , <b>2012</b> , 8, 3795-9	11	30
31	Colloidal crystallization and structural changes in suspensions of silica/magnetite core-shell nanoparticles. <i>Langmuir</i> , <b>2012</b> , 28, 14777-83	4	42
30	Lithographic compartmentalization of emulsion droplet templates for microparticles with multiple nanostructured compartments. <i>Chemical Communications</i> , <b>2012</b> , 48, 6091-3	5.8	12
29	Determination of solvation layer thickness by a magnetophotonic approach. <i>ACS Nano</i> , <b>2012</b> , 6, 4196-2026.7	26.7	40
28	Magnetic assembly route to colloidal responsive photonic nanostructures. <i>Accounts of Chemical Research</i> , <b>2012</b> , 45, 1431-40	24.3	265
27	Thermoresponsive Assembly of Charged Gold Nanoparticles and Their Reversible Tuning of Plasmon Coupling. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 6479-6483	3.6	22
26	Thermoresponsive assembly of charged gold nanoparticles and their reversible tuning of plasmon coupling. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 6373-7	16.4	129
25	Self-assembly and magnetically induced phase transition of three-dimensional colloidal photonic crystals. <i>Nanoscale</i> , <b>2012</b> , 4, 4438-42	7.7	41
24	Magnetic field control of fluorescent polymer nanorods. <i>Nanotechnology</i> , <b>2011</b> , 22, 455704	3.4	5
23	Assembly and photonic properties of superparamagnetic colloids in complex magnetic fields. <i>Langmuir</i> , <b>2011</b> , 27, 13444-50	4	32
22	MAGNETICALLY TUNABLE COLLOIDAL PHOTONIC CRYSTALS <b>2011</b> , 1-35		
21	Magnetically induced colloidal assembly into field-responsive photonic structures. <i>Nanoscale</i> , <b>2011</b> , 3, 177-83	7.7	71
20	Real-time optofluidic synthesis of magnetochromatic microspheres for reversible structural color patterning. <i>Small</i> , <b>2011</b> , 7, 1163-8	11	51
19	Magnetochromatic Microspheres: Real-Time Optofluidic Synthesis of Magnetochromatic Microspheres for Reversible Structural Color Patterning (Small 9/2011). <i>Small</i> , <b>2011</b> , 7, 1142-1142	11	1

18	Magnetically Responsive Photonic Nanochains. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 3831-3834	3.6	20
17	Rektitlebild: Magnetically Responsive Photonic Nanochains (Angew. Chem. 16/2011). <i>Angewandte Chemie</i> , <b>2011</b> , 123, 3900-3900	3.6	
16	Magnetically responsive photonic nanochains. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 3747-3750	15.4	126
15	Back Cover: Magnetically Responsive Photonic Nanochains (Angew. Chem. Int. Ed. 16/2011). <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 3816-3816	16.4	
14	Exploration of possible binding sites of nanoparticles on protein by cross-linking chemistry coupled with mass spectrometry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 6929-34	7.8	14
13	Probing nanoparticle--protein interaction by capillary electrophoresis. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 7460-6	7.8	76
12	Mesoporous TiO(2) nanocrystal clusters for selective enrichment of phosphopeptides. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 7249-58	7.8	108
11	Superparamagnetic Magnetite Nanoparticle Superstructures for Optical Modulation/Chopping. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 17868-17873	3.8	6
10	Manipulating graphene mobility and charge neutral point with ligand-bound nanoparticles as charge reservoir. <i>Nano Letters</i> , <b>2010</b> , 10, 4989-93	11.5	37
9	Magnetic assembly of nonmagnetic particles into photonic crystal structures. <i>Nano Letters</i> , <b>2010</b> , 10, 4708-14	11.5	79
8	Epitaxial growth of shape-controlled Bi <sub>2</sub> Te <sub>3</sub> -Te heterogeneous nanostructures. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 17316-24	16.4	83
7	Superparamagnetic nanocrystal clusters for enrichment of low-abundance peptides and proteins. <i>Chemical Communications</i> , <b>2010</b> , 46, 6174-6	5.8	26
6	Self-assembly of superparamagnetic magnetite particles into peapod-like structures and their application in optical modulation. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 7965		52
5	Magnetically recoverable core-shell nanocomposites with enhanced photocatalytic activity. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 6243-50	4.8	285
4	Rewritable Photonic Paper with Hygroscopic Salt Solution as Ink. <i>Advanced Materials</i> , <b>2009</b> , 21, 4259-4264	24	204
3	Assembly of magnetically tunable photonic crystals in nonpolar solvents. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 3484-6	16.4	155
2	Magnetochromatic microspheres: rotating photonic crystals. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15687-94	16.4	214
1	Improving Structural and Moisture Stability of P2-Layered Cathode Materials for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> ,	6.1	4

