

Lehui Lu

List of Publications by Year in descending order

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79
papers

13,723
citations

66234

42
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66788

78
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all docs

82
docs citations

82
times ranked

19657
citing authors

#	ARTICLE	IF	CITATIONS
1	Polydopamine and Its Derivative Materials: Synthesis and Promising Applications in Energy, Environmental, and Biomedical Fields. <i>Chemical Reviews</i> , 2014, 114, 5057-5115.	23.0	3,865
2	Dopamine-Melanin Colloidal Nanospheres: An Efficient Near-Infrared Photothermal Therapeutic Agent for In Vivo Cancer Therapy. <i>Advanced Materials</i> , 2013, 25, 1353-1359.	11.1	1,688
3	Sp ² -Dominant N-Doped Carbon Sub-micrometer Spheres with a Tunable Size: A Versatile Platform for Highly Efficient Oxygen-Reduction Catalysts. <i>Advanced Materials</i> , 2013, 25, 998-1003.	11.1	798
4	Magnetite/reduced graphene oxide nanocomposites: One step solvothermal synthesis and use as a novel platform for removal of dye pollutants. <i>Nano Research</i> , 2011, 4, 550-562.	5.8	588
5	A Superhydrophobic Sponge with Excellent Absorbency and Flame Retardancy. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5556-5560.	7.2	428
6	Comprehensive Insights into the Multi-Antioxidative Mechanisms of Melanin Nanoparticles and Their Application To Protect Brain from Injury in Ischemic Stroke. <i>Journal of the American Chemical Society</i> , 2017, 139, 856-862.	6.6	404
7	MoS ₂ Nanosheets with Widened Interlayer Spacing for High-Efficiency Removal of Mercury in Aquatic Systems. <i>Advanced Functional Materials</i> , 2016, 26, 5542-5549.	7.8	362
8	High-Rate Oxygen Electroreduction over Graphitic-N Species Exposed on 3D Hierarchically Porous Nitrogen-Doped Carbons. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9503-9507.	7.2	355
9	Large-Area Silver-Coated Silicon Nanowire Arrays for Molecular Sensing Using Surface-Enhanced Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2008, 18, 2348-2355.	7.8	354
10	A High-Performance Ytterbium-Based Nanoparticulate Contrast Agent for In Vivo X-Ray Computed Tomography Imaging. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1437-1442.	7.2	317
11	Large-Scale Synthesis of Bi ₂ S ₃ Nanodots as a Contrast Agent for In Vivo X-Ray Computed Tomography Imaging. <i>Advanced Materials</i> , 2011, 23, 4886-4891.	11.1	308
12	Targeted polydopamine nanoparticles enable photoacoustic imaging guided chemo-photothermal synergistic therapy of tumor. <i>Acta Biomaterialia</i> , 2017, 47, 124-134.	4.1	216
13	A novel strategy for making soluble reduced graphene oxide sheets cheaply by adopting an endogenous reducing agent. <i>Journal of Materials Chemistry</i> , 2011, 21, 3365-3370.	6.7	208
14	Polydopamine-based coordination nanocomplex for T1/T2 dual mode magnetic resonance imaging-guided chemo-photothermal synergistic therapy. <i>Biomaterials</i> , 2016, 77, 198-206.	5.7	187
15	Seed-mediated growth of large, monodisperse core-shell gold-silver nanoparticles with Ag-like optical properties. <i>Chemical Communications</i> , 2002, , 144-145.	2.2	179
16	Structural effects of a carbon matrix in non-precious metal O ₂ -reduction electrocatalysts. <i>Chemical Society Reviews</i> , 2016, 45, 2396-2409.	18.7	175
17	Multifunctional envelope-type mesoporous silica nanoparticles for pH-responsive drug delivery and magnetic resonance imaging. <i>Biomaterials</i> , 2015, 60, 111-120.	5.7	171
18	Preparation, Structure, and Properties of Three-Dimensional Ordered γ -Fe ₂ O ₃ Nanoparticulate Film. <i>Chemistry of Materials</i> , 2000, 12, 790-794.	3.2	166

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19	Bacteria promoted hierarchical carbon materials for high-performance supercapacitor. <i>Energy and Environmental Science</i> , 2012, 5, 6206.	15.6	163
20	Controlled Fabrication of Gold-Coated 3D Ordered Colloidal Crystal Films and Their Application in Surface-Enhanced Raman Spectroscopy. <i>Chemistry of Materials</i> , 2005, 17, 5731-5736.	3.2	147
21	Defect Engineering Enables Synergistic Action of Enzyme-Mimicking Active Centers for High-Efficiency Tumor Therapy. <i>Journal of the American Chemical Society</i> , 2021, 143, 8855-8865.	6.6	146
22	Transition metal-“nitrogen”-carbon nanostructured catalysts for the oxygen reduction reaction: From mechanistic insights to structural optimization. <i>Nano Research</i> , 2017, 10, 1449-1470.	5.8	144
23	Ordered Macroporous Bimetallic Nanostructures: Design, Characterization, and Applications. <i>Accounts of Chemical Research</i> , 2008, 41, 244-253.	7.6	143
24	Fabrication of core-shell Au-Pt nanoparticle film and its potential application as catalysis and SERS substrate. Electronic supplementary information (ESI) available: AFM image and line scans of core-shell Au-Pt nanoparticle film (colour version of Fig. 4). See http://www.rsc.org/suppdata/jm/b3/b314868h/ . <i>Journal of Materials Chemistry</i> , 2004, 14, 1005.	6.7	141
25	Plasmonic titanium nitride nanoparticles for in vivo photoacoustic tomography imaging and photothermal cancer therapy. <i>Biomaterials</i> , 2017, 132, 37-47.	5.7	136
26	Monitoring catalytic degradation of dye molecules on silver-coated ZnO nanowire arrays by surface-enhanced Raman spectroscopy. <i>Journal of Materials Chemistry</i> , 2009, 19, 5547.	6.7	129
27	Environmentally Friendly Synthesis of Highly Monodisperse Biocompatible Gold Nanoparticles with Urchin-like Shape. <i>Langmuir</i> , 2008, 24, 1058-1063.	1.6	120
28	Biomass-derived carbon materials for high-performance supercapacitor electrodes. <i>RSC Advances</i> , 2014, 4, 30887.	1.7	95
29	Glycyl Glycine Templating Synthesis of Single-Crystal Silver Nanoplates. <i>Crystal Growth and Design</i> , 2006, 6, 2155-2158.	1.4	70
30	Improved size control of large palladium nanoparticles by a seeding growth method. <i>Journal of Materials Chemistry</i> , 2002, 12, 156-158.	6.7	69
31	A Superhydrophobic Sponge with Excellent Absorbency and Flame Retardancy. <i>Angewandte Chemie</i> , 2014, 126, 5662-5666.	1.6	69
32	Inorganic layered ion-exchangers for decontamination of toxic metal ions in aquatic systems. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19593-19606.	5.2	68
33	Flame-retardant porous hexagonal boron nitride for safe and effective radioactive iodine capture. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16850-16858.	5.2	66
34	A C ₅ N ₂ Nanoparticle Based Direct Nucleus Delivery Platform for Synergistic Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6290-6294.	7.2	63
35	Multiplex electrochemiluminescence DNA sensor for determination of hepatitis B virus and hepatitis C virus based on multicolor quantum dots and Au nanoparticles. <i>Analytica Chimica Acta</i> , 2016, 916, 92-101.	2.6	62
36	Facile preparation and performance of mesoporous manganese oxide for supercapacitors utilizing neutral aqueous electrolytes. <i>RSC Advances</i> , 2012, 2, 3298.	1.7	61

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37	An ultrasmall and metabolizable PEGylated NaGdF ₄ :Dy nanoprobe for high-performance T ₁ /T ₂ -weighted MR and CT multimodal imaging. <i>Nanoscale</i> , 2015, 7, 15680-15688.	2.8	58
38	Synergistic Tailoring of Electrostatic and Hydrophobic Interactions for Rapid and Specific Recognition of Lysophosphatidic Acid, an Early-Stage Ovarian Cancer Biomarker. <i>Journal of the American Chemical Society</i> , 2017, 139, 11616-11621.	6.6	58
39	Wearable and Biodegradable Sensors for Human Health Monitoring. <i>ACS Applied Bio Materials</i> , 2021, 4, 122-139.	2.3	52
40	Targeted Engineering of Medicinal Chemistry for Cancer Therapy: Recent Advances and Perspectives. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5626-5643.	7.2	47
41	Multi-positively charged dendrimeric nanoparticles induced fluorescence quenching of graphene quantum dots for heparin and chondroitin sulfate detection. <i>Biosensors and Bioelectronics</i> , 2015, 74, 284-290.	5.3	45
42	Host-guest interaction-mediated nanointerface engineering for radioiodine capture. <i>Nano Today</i> , 2021, 36, 101034.	6.2	45
43	Nanoparticulate X-ray CT contrast agents. <i>Science China Chemistry</i> , 2015, 58, 753-760.	4.2	43
44	Hydrogen bond-mediated strong adsorbent- ³⁺ interactions enable high-efficiency radioiodine capture. <i>Materials Horizons</i> , 2019, 6, 1517-1525.	6.4	43
45	An enhanced electrochemical platform based on graphene-polyoxometalate nanomaterials for sensitive determination of diphenolic compounds. <i>Analytical Methods</i> , 2011, 3, 1587.	1.3	42
46	Revisiting the Structure of Graphene Oxide for Preparing New-Style Graphene-Based Ultraviolet Absorbers. <i>Advanced Functional Materials</i> , 2012, 22, 2542-2549.	7.8	41
47	Achieving ultrasensitive <i>in vivo</i> detection of bone crack with polydopamine-capsulated surface-enhanced Raman nanoparticle. <i>Biomaterials</i> , 2017, 114, 54-61.	5.7	40
48	An All-in-One Organic Semiconductor for Targeted Photooxidation Catalysis in Hypoxic Tumor. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16641-16648.	7.2	36
49	Targeted Imaging of Damaged Bone <i>in Vivo</i> with Gemstone Spectral Computed Tomography. <i>ACS Nano</i> , 2016, 10, 4164-4172.	7.3	35
50	Si-assisted N, P Co-doped room temperature phosphorescent carbonized polymer Dots: Information Encryption, graphic Anti-counterfeiting and biological imaging. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 279-288.	5.0	35
51	A novel aptamer-mediated CuInS ₂ quantum dots@graphene oxide nanocomposites-based fluorescence "turn off" nanosensor for highly sensitive and selective detection of kanamycin. <i>RSC Advances</i> , 2016, 6, 10205-10214.	1.7	30
52	A new type of nanoscale coordination particles: toward modification-free detection of hydrogen sulfide gas. <i>Journal of Materials Chemistry</i> , 2012, 22, 18418.	6.7	24
53	A Versatile and Scalable Approach toward Robust Superhydrophobic Porous Materials with Excellent Absorbency and Flame Retardancy. <i>Scientific Reports</i> , 2016, 6, 31233.	1.6	23
54	CO ₂ -based amphiphilic polycarbonate micelles enable a reliable and efficient platform for tumor imaging. <i>Theranostics</i> , 2017, 7, 4689-4698.	4.6	23

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55	Direct monitoring of trace water in Li-ion batteries using <i>in operando</i> fluorescence spectroscopy. <i>Chemical Science</i> , 2018, 9, 231-237.	3.7	22
56	Nanoscaled porphyrinic metal-organic framework for photodynamic/photothermal therapy of tumor. <i>Electrophoresis</i> , 2019, 40, 2204-2210.	1.3	22
57	Cotton-assisted preparation of mesoporous manganese oxide for supercapacitors. <i>RSC Advances</i> , 2012, 2, 6741.	1.7	20
58	Porous β -cyclodextrin nanotubular assemblies enable high-efficiency removal of bisphenol micropollutants from aquatic systems. <i>Nano Research</i> , 2020, 13, 1933-1942.	5.8	20
59	In situ synthesis of monodisperse luminescent terbium complex-silica nanocomposites. <i>Journal of Materials Chemistry</i> , 2004, 14, 2760.	6.7	19
60	Delineating the tumor margin with intraoperative surface-enhanced Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 3993-4006.	1.9	19
61	Polypyrrole-based double rare earth hybrid nanoparticles for multimodal imaging and photothermal therapy. <i>Journal of Materials Chemistry B</i> , 2020, 8, 426-437.	2.9	18
62	Selective Crystallization of BaF ₂ under a Compressed Langmuir Monolayer of Behenic Acid. <i>Chemistry of Materials</i> , 2001, 13, 325-328.	3.2	16
63	Mitochondria-Targeting Enhanced Phototherapy by Intrinsic Characteristics Engineered "One-for-All" Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35568-35578.	4.0	16
64	Point-and-Shoot Strategy for Identification of Alcoholic Beverages. <i>Analytical Chemistry</i> , 2018, 90, 9838-9844.	3.2	14
65	A C 5 N 2 Nanoparticle Based Direct Nucleus Delivery Platform for Synergistic Cancer Therapy. <i>Angewandte Chemie</i> , 2019, 131, 6356-6360.	1.6	12
66	On-demand degradable magnetic resonance imaging nanoprobes. <i>Science Bulletin</i> , 2021, 66, 676-684.	4.3	12
67	Metal-Phenolic Encapsulated Mesoporous Silica Nanoparticles for pH-Responsive Drug Delivery and Magnetic Resonance Imaging. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 1733-1740.	1.4	11
68	Unveiling the Role of Hydroxyl Architecture on Polysulfide Trapping for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 4023-4032.	2.5	11
69	An All-in-One Organic Semiconductor for Targeted Photooxidation Catalysis in Hypoxic Tumor. <i>Angewandte Chemie</i> , 2021, 133, 16777-16784.	1.6	9
70	Dual-responsive nano-prodrug micelles for MRI-guided tumor PDT and immune synergistic therapy. <i>Journal of Materials Chemistry B</i> , 2022, 10, 4261-4273.	2.9	9
71	Nanoparticles: Untying the Gordian Knot in Conventional Computed Tomography Imaging. <i>CCS Chemistry</i> , 2021, 3, 1242-1257.	4.6	5
72	Molecular construction of oriented crystalline NaMnF ₃ and KMnF ₃ with perovskite structures at room temperature. <i>Journal of Colloid and Interface Science</i> , 2003, 266, 115-119.	5.0	4

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73	Zielgerichtete Wirkstoffe für die Krebstherapie: Aktuelle Entwicklungen und Perspektiven. <i>Angewandte Chemie</i> , 2021, 133, 5686-5705.	1.6	3
74	Hierarchically porous polymers with ultra-high affinity for bisphenol A enables high efficient water purification. <i>Science China Chemistry</i> , 2021, 64, 1389-1400.	4.2	3
75	Bioinspired nanostructured spiderweb for high-efficiency capturing and killing of bacteria. <i>Science China Materials</i> , 2022, 65, 518-526.	3.5	2
76	Organic template-directed crystallization of the complex fluoride NH_4MnF_3 with perovskite structure. <i>Chemical Communications</i> , 2001, , 1342-1343.	2.2	1
77	Self-organization of BaF_2 Single Crystal Film under a Compressed Langmuir Monolayer. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 371, 45-48.	0.3	0
78	New researches of State Key Laboratories in Analytical Chemistry. <i>Science China Chemistry</i> , 2016, 59, 781-782.	4.2	0
79	Imaging Probes Offer New Opportunities for Understanding Cancer. <i>Journal of Analysis and Testing</i> , 2018, 2, 1-1.	2.5	0