

Xuguang Liu

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,633
citations

257450

24
h-index

302126

39
g-index

48
all docs

48
docs citations

48
times ranked

2187
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoluminescent carbon quantum dots as a directly film-forming phosphor towards white LEDs. <i>Nanoscale</i> , 2016, 8, 8618-8632.	5.6	129
2	Efficient resistance against solid-state quenching of carbon dots towards white light emitting diodes by physical embedding into silica. <i>Carbon</i> , 2018, 126, 426-436.	10.3	109
3	A novel robust adsorbent for efficient oil/water separation: Magnetic carbon nanospheres/graphene composite aerogel. <i>Journal of Hazardous Materials</i> , 2020, 392, 122499.	12.4	92
4	Temperature and magnetism bi-responsive molecularly imprinted polymers: Preparation, adsorption mechanism and properties as drug delivery system for sustained release of 5-fluorouracil. <i>Materials Science and Engineering C</i> , 2016, 61, 158-168.	7.3	88
5	Synthesis of short-chain passivated carbon quantum dots as the light emitting layer towards electroluminescence. <i>RSC Advances</i> , 2017, 7, 28754-28762.	3.6	77
6	N, B-Codoping Induces High-Efficiency Solid-State Fluorescence and Dual Emission of Yellow/Orange Carbon Dots. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2224-2236.	6.7	76
7	Carbon dot-based white and yellow electroluminescent light emitting diodes with a record-breaking brightness. <i>Nanoscale</i> , 2018, 10, 11211-11221.	5.6	67
8	Accelerated formation and improved performance of CH ₃ NH ₃ PbI ₃ -based perovskite solar cells via solvent coordination and anti-solvent extraction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4190-4198.	10.3	65
9	Water-compatible surface molecularly imprinted polymers with synergy of bi-functional monomers for enhanced selective adsorption of bisphenol A from aqueous solution. <i>Environmental Science: Nano</i> , 2016, 3, 213-222.	4.3	62
10	The gas sensing performance of borophene/MoS ₂ heterostructure. <i>Applied Surface Science</i> , 2020, 504, 144412.	6.1	59
11	Direct blending of multicolor carbon quantum dots into fluorescent films for white light emitting diodes with an adjustable correlated color temperature. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1502-1509.	5.5	55
12	Ultrahigh Brightness Carbon Dot-Based Blue Electroluminescent LEDs by Host-Guest Energy Transfer Emission Mechanism. <i>Advanced Optical Materials</i> , 2018, 6, 1800181.	7.3	51
13	Preparation and Evaluation of Water-Compatible Surface Molecularly Imprinted Polymers for Selective Adsorption of Bisphenol A from Aqueous Solution. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 14291-14300.	3.7	47
14	Solid-state fluorescent carbon dots: quenching resistance strategies, high quantum efficiency control, multicolor tuning, and applications. <i>Materials Advances</i> , 2020, 1, 3122-3142.	5.4	39
15	Magnetic thermosensitive core/shell microspheres: synthesis, characterization and performance in hyperthermia and drug delivery. <i>RSC Advances</i> , 2014, 4, 46806-46812.	3.6	35
16	One-step hydrothermal synthesis of fluorescence carbon quantum dots with high product yield and quantum yield. <i>Nanotechnology</i> , 2019, 30, 085406.	2.6	32
17	Magnetic carbon nanospheres: Synthesis, characterization, and adsorbability towards quinoline from coking wastewater. <i>Chemical Engineering Journal</i> , 2020, 382, 122995.	12.7	31
18	Confinement of single polyoxometalate clusters in molecular-scale cages for improved flexible solid-state supercapacitors. <i>Nanoscale</i> , 2020, 12, 11887-11898.	5.6	31

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19	Selective recovery of Li ⁺ in acidic environment based on one novel electroactive Li ⁺ -imprinted graphene-based hybrid aerogel. <i>Chemical Engineering Journal</i> , 2020, 385, 123948.	12.7	29
20	Development of polyoxometalate-anchored 3D hybrid hydrogel for high-performance flexible pseudo-solid-state supercapacitor. <i>Electrochimica Acta</i> , 2020, 329, 135181.	5.2	28
21	Highly anisotropic gas sensing of atom-thin borophene: a first-principles study. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1069-1076.	5.5	28
22	An acid induction strategy to construct an ultralight and durable amino-functionalized graphene oxide aerogel for enhanced quinoline pollutants extraction from coking wastewater. <i>Chemical Engineering Journal</i> , 2021, 412, 128686.	12.7	27
23	Reactive carbon microspheres prepared by surface-grafting 4-(chloromethyl)phenyltrimethoxysilane for preparing molecularly imprinted polymer. <i>Applied Surface Science</i> , 2013, 277, 146-154.	6.1	26
24	External load-dependent degradation of P3HT:PC ₆₁ /BM solar cells: behavior, mechanism, and method of suppression. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10010-10020.	10.3	26
25	Highly flexible interconnected Li ⁺ ion-sieve porous hydrogels with self-regulating nanonetwork structure for marine lithium recovery. <i>Chemical Engineering Journal</i> , 2022, 445, 136780.	12.7	24
26	Facile Preparation of Stable Solid-State Carbon Quantum Dots with Multi-Peak Emission. <i>Nanomaterials</i> , 2020, 10, 303.	4.1	23
27	Improving performance of perovskite solar cells based on ZnO nanorods via rod-length control and sulfidation treatment. <i>Materials Science in Semiconductor Processing</i> , 2020, 117, 105205.	4.0	22
28	Simultaneous performance and stability improvement of polymer:fullerene solar cells by doping with piperazine. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7099-7108.	10.3	20
29	Towards understanding the initial performance improvement of PbS quantum dot solar cells upon short-term air exposure. <i>RSC Advances</i> , 2018, 8, 15149-15157.	3.6	19
30	Ultrafast synthesis of magnetic hollow carbon nanospheres for the adsorption of quinoline from coking wastewater. <i>New Journal of Chemistry</i> , 2020, 44, 7490-7500.	2.8	18
31	Inorganic gas sensing performance of $\sqrt{3}$ -borophene and the van der Waals heterostructure. <i>Applied Surface Science</i> , 2022, 581, 151906.	6.1	18
32	Enhanced device performance and stability of perovskite solar cells with low-temperature ZnO/TiO ₂ bilayered electron transport layers. <i>RSC Advances</i> , 2018, 8, 23019-23026.	3.6	17
33	Preparation of nitrogen-doped hollow carbon nanosphere/graphene composite aerogel for efficient removal of quinoline from wastewater. <i>Journal of Hazardous Materials</i> , 2021, 417, 126160.	12.4	17
34	Solar-driven simultaneous desalination and power generation enabled by graphene oxide nanoribbon papers. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9184-9194.	10.3	17
35	Ion-Imprinted Polymers Modified Sensor for Electrochemical Detection of Cu ²⁺ . <i>Nano</i> , 2018, 13, 1850140.	1.0	16
36	Functional monomer screening and preparation of dibenzothiophene-imprinted polymers on the surface of carbon microsphere. <i>Monatshefte für Chemie</i> , 2015, 146, 449-458.	1.8	15

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37	Orange-emissive carbon quantum dots for ligand-directed Golgi apparatus-targeting and <i>in vivo</i> imaging. <i>Biomaterials Science</i> , 2022, 10, 4345-4355.	5.4	14
38	Revealing the Interfacial Photoreduction of MoO ₃ with P3HT from the Molecular Weight-Dependent α -Burn-In Degradation of P3HT:PC ₆₁ BM Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 9714-9723.	5.1	13
39	Recognition of 5-fluorouracil by thermosensitive magnetic surface molecularly imprinted microspheres designed using a computational approach. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45468.	2.6	12
40	Tailoring perovskite conversion and grain growth by in situ solvent assisted crystallization and compositional variation for highly efficient perovskite solar cells. <i>Organic Electronics</i> , 2019, 69, 208-215.	2.6	10
41	Thermoresponsive hollow magnetic microspheres with hyperthermia and controlled release properties. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	9
42	The interfacial degradation mechanism of polymer:fullerene bis-adduct solar cells and their stability improvement. <i>Materials Advances</i> , 2020, 1, 1307-1317.	5.4	9
43	Preparation and characterization of thermosensitive core/shell microgels with carbon microsphere cores. <i>Journal of Materials Research</i> , 2014, 29, 1153-1161.	2.6	8
44	Designing and optimizing ¹²¹ B-orophene organic gas sensor: A theoretical study. <i>Surface Science</i> , 2022, 719, 122030.	1.9	8
45	Preparation and characterization of 5-fluorouracil surface-imprinted thermosensitive magnetic microspheres. <i>Monatshefte für Chemie</i> , 2015, 146, 441-447.	1.8	7
46	Single-Molecule Confinement Induced Intrinsic Multi-Electron Redox Activity to Enhance Supercapacitor Performance. <i>Energy and Environmental Materials</i> , 2023, 6, .	12.8	5
47	Application advances of carbon quantum dots in optoelectronic devices. <i>Chinese Science Bulletin</i> , 2019, 64, 1441-1455.	0.7	3
48	The synthesis and luminescent properties of bonded Eu(III) polymer phosphors for white light-emitting diode. <i>Journal of Heterocyclic Chemistry</i> , 2020, 57, 627-634.	2.6	0