Xuguang Liu

List of Publications by Year
in descending order

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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	<scp>Singleâ€Molecule</scp> Confinement Induced Intrinsic <scp>Multiâ€Electron Redoxâ€Activity</scp> to Enhance Supercapacitor Performance. Energy and Environmental Materials, 2023, 6, .	12.8	5
2	Inorganic gas sensing performance of Ï‡3-borophene and the van der Waals heterostructure. Applied Surface Science, 2022, 581, 151906.	6.1	18
3	Designing and optimizing Î²1-borophene organic gas sensor: A theoretical study. Surface Science, 2022, 719, 122030.	1.9	8
4	Solar-driven simultaneous desalination and power generation enabled by graphene oxide nanoribbon papers. Journal of Materials Chemistry A, 2022, 10, 9184-9194.	10.3	17
5	Highly flexible interconnected Li+ ion-sieve porous hydrogels with self-regulating nanonetwork structure for marine lithium recovery. Chemical Engineering Journal, 2022, 445, 136780.	12.7	24
6	Orange-emissive carbon quantum dots for ligand-directed Golgi apparatus-targeting and in vivo imaging. Biomaterials Science, 2022, 10, 4345-4355.	5.4	14
7	Highly anisotropic gas sensing of atom-thin borophene: a first-principles study. Journal of Materials Chemistry C, 2021, 9, 1069-1076.	5.5	28
8	N, B-Codoping Induces High-Efficiency Solid-State Fluorescence and Dual Emission of Yellow/Orange Carbon Dots. ACS Sustainable Chemistry and Engineering, 2021, 9, 2224-2236.	6.7	76
9	An acid induction strategy to construct an ultralight and durable amino-functionalized graphene oxide aerogel for enhanced quinoline pollutants extraction from coking wastewater. Chemical Engineering Journal, 2021, 412, 128686.	12.7	27
10	Preparation of nitrogen-doped hollow carbon nanosphere/graphene composite aerogel for efficient removal of quinoline from wastewater. Journal of Hazardous Materials, 2021, 417, 126160.	12.4	17
11	Magnetic carbon nanospheres: Synthesis, characterization, and adsorbability towards quinoline from coking wastewater. Chemical Engineering Journal, 2020, 382, 122995.	12.7	31
12	The gas sensing performance of borophene/MoS2 heterostructure. Applied Surface Science, 2020, 504, 144412.	6.1	59
13	Development of polyoxometalate-anchored 3D hybrid hydrogel for high-performance flexible pseudo-solid-state supercapacitor. Electrochimica Acta, 2020, 329, 135181.	5.2	28
14	The synthesis and luminescent properties of bonded Eu(III) polymer phosphors for white lightâ€emitting diode. Journal of Heterocyclic Chemistry, 2020, 57, 627-634.	2.6	0
15	Selective recovery of Li+ in acidic environment based on one novel electroactive Li+-imprinted graphene-based hybrid aerogel. Chemical Engineering Journal, 2020, 385, 123948.	12.7	29
16	Solid-state fluorescent carbon dots: quenching resistance strategies, high quantum efficiency control, multicolor tuning, and applications. Materials Advances, 2020, 1, 3122-3142.	5.4	39
17	Revealing the Interfacial Photoreduction of MoO₃ with P3HT from the Molecular Weight-Dependent â€œBurn-Inâ€•Degradation of P3HT:PC₆₁BM Solar Cells. ACS Applied Energy Materials, 2020, 3, 9714-9723.	5.1	13
18	A novel robust adsorbent for efficient oil/water separation: Magnetic carbon nanospheres/graphene composite aerogel. Journal of Hazardous Materials, 2020, 392, 122499.	12.4	92

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19	The interfacial degradation mechanism of polymer:fullerene bis-adduct solar cells and their stability improvement. Materials Advances, 2020, 1, 1307-1317.	5.4	9
20	Facile Preparation of Stable Solid-State Carbon Quantum Dots with Multi-Peak Emission. Nanomaterials, 2020, 10, 303.	4.1	23
21	Ultrafast synthesis of magnetic hollow carbon nanospheres for the adsorption of quinoline from coking wastewater. New Journal of Chemistry, 2020, 44, 7490-7500.	2.8	18
22	Confinement of single polyoxometalate clusters in molecular-scale cages for improved flexible solid-state supercapacitors. Nanoscale, 2020, 12, 11887-11898.	5.6	31
23	Improving performance of perovskite solar cells based on ZnO nanorods via rod-length control and sulfidation treatment. Materials Science in Semiconductor Processing, 2020, 117, 105205.	4.0	22
24	Direct blending of multicolor carbon quantum dots into fluorescent films for white light emitting diodes with an adjustable correlated color temperature. Journal of Materials Chemistry C, 2019, 7, 1502-1509.	5.5	55
25	Tailoring perovskite conversion and grain growth by in situ solvent assisted crystallization and compositional variation for highly efficient perovskite solar cells. Organic Electronics, 2019, 69, 208-215.	2.6	10
26	Simultaneous performance and stability improvement of polymer:fullerene solar cells by doping with piperazine. Journal of Materials Chemistry A, 2019, 7, 7099-7108.	10.3	20
27	One-step hydrothermal synthesis of fluorescence carbon quantum dots with high product yield and quantum yield. Nanotechnology, 2019, 30, 085406.	2.6	32
28	Application advances of carbon quantum dots in optoelectronic devices. Chinese Science Bulletin, 2019, 64, 1441-1455.	0.7	3
29	Towards understanding the initial performance improvement of PbS quantum dot solar cells upon short-term air exposure. RSC Advances, 2018, 8, 15149-15157.	3.6	19
30	Ultrahigh Brightness Carbon Dotâ€“Based Blue Electroluminescent LEDs by Hostâ€“Guest Energy Transfer Emission Mechanism. Advanced Optical Materials, 2018, 6, 1800181.	7.3	51
31	Efficient resistance against solid-state quenching of carbon dots towards white light emitting diodes by physical embedding into silica. Carbon, 2018, 126, 426-436.	10.3	109
32	Ion-Imprinted Polymers Modified Sensor for Electrochemical Detection of Cu2+. Nano, 2018, 13, 1850140.	1.0	16
33	Carbon dot-based white and yellow electroluminescent light emitting diodes with a record-breaking brightness. Nanoscale, 2018, 10, 11211-11221.	5.6	67
34	Enhanced device performance and stability of perovskite solar cells with low-temperature ZnO/TiO2 bilayered electron transport layers. RSC Advances, 2018, 8, 23019-23026.	3.6	17
35	Accelerated formation and improved performance of CH₃NH₃PbI₃-based perovskite solar cells via solvent coordination and anti-solvent extraction. Journal of Materials Chemistry A, 2017, 5, 4190-4198.	10.3	65
36	External load-dependent degradation of P3HT:PC₆₁BM solar cells: behavior, mechanism, and method of suppression. Journal of Materials Chemistry A, 2017, 5, 10010-10020.	10.3	26

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37	Synthesis of short-chain passivated carbon quantum dots as the light emitting layer towards electroluminescence. RSC Advances, 2017, 7, 28754-28762.	3.6	77
38	Recognition of 5â€fluorouracil by thermosensitive magnetic surface molecularly imprinted microspheres designed using a computational approach. Journal of Applied Polymer Science, 2017, 134, 45468.	2.6	12
39	Photoluminescent carbon quantum dots as a directly film-forming phosphor towards white LEDs. Nanoscale, 2016, 8, 8618-8632.	5.6	129
40	Temperature and magnetism bi-responsive molecularly imprinted polymers: Preparation, adsorption mechanism and properties as drug delivery system for sustained release of 5-fluorouracil. Materials Science and Engineering C, 2016, 61, 158-168.	7.3	88
41	Water-compatible surface molecularly imprinted polymers with synergy of bi-functional monomers for enhanced selective adsorption of bisphenol A from aqueous solution. Environmental Science: Nano, 2016, 3, 213-222.	4.3	62
42	Thermoresponsive hollow magnetic microspheres with hyperthermia and controlled release properties. Journal of Applied Polymer Science, 2015, 132, .	2.6	9
43	Functional monomer screening and preparation of dibenzothiophene-imprinted polymers on the surface of carbon microsphere. Monatshefte FÃ¼r Chemie, 2015, 146, 449-458.	1.8	15
44	Preparation and characterization of 5-fluorouracil surface-imprinted thermosensitive magnetic microspheres. Monatshefte FÃ¼r Chemie, 2015, 146, 441-447.	1.8	7
45	Preparation and characterization of thermosensitive core/shell microgels with carbon microsphere cores. Journal of Materials Research, 2014, 29, 1153-1161.	2.6	8
46	Magnetic thermosensitive core/shell microspheres: synthesis, characterization and performance in hyperthermia and drug delivery. RSC Advances, 2014, 4, 46806-46812.	3.6	35
47	Preparation and Evaluation of Water-Compatible Surface Molecularly Imprinted Polymers for Selective Adsorption of Bisphenol A from Aqueous Solution. Industrial & Engineering Chemistry Research, 2014, 53, 14291-14300.	3.7	47
48	Reactive carbon microspheres prepared by surface-grafting 4-(chloromethyl)phenyltrimethoxysilane for preparing molecularly imprinted polymer. Applied Surface Science, 2013, 277, 146-154.	6.1	26