

Fei Lu

List of Publications by Year in descending order

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58
papers

1,390
citations

361413

20
h-index

361022

35
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all docs

58
docs citations

58
times ranked

2041
citing authors

#	ARTICLE	IF	CITATIONS
1	Polysulfide Regulation by the Zwitterionic Barrier toward Durable Lithium–Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2020, 142, 3583-3592.	13.7	174
2	Alkaline Double-Network Hydrogels with High Conductivities, Superior Mechanical Performances, and Antifreezing Properties for Solid-State Zinc–Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11778-11788.	8.0	116
3	Lithium-Containing Zwitterionic Poly(Ionic Liquid)s as Polymer Electrolytes for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17756-17763.	3.1	58
4	CRISPR/Cas-Based In Vitro Diagnostic Platforms for Cancer Biomarker Detection. <i>Analytical Chemistry</i> , 2021, 93, 11899-11909.	6.5	54
5	Engineering Platinum–Oxygen Dual Catalytic Sites via Charge Transfer towards Highly Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17712-17718.	13.8	53
6	Facile synthesis of gold and gold-based alloy nanowire networks using wormlike micelles as soft templates. <i>Chemical Communications</i> , 2015, 51, 843-846.	4.1	47
7	Protein-Decorated Reduced Oxide Graphene Composite and its Application to SERS. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3278-3284.	8.0	46
8	Nanostructured Aqueous Lithium-Ion Conductors Formed by the Self-Assembly of Imidazolium-Type Zwitterions. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 13312-13317.	8.0	42
9	Photoresponsive Self-Assembly of Surface Active Ionic Liquid. <i>Langmuir</i> , 2016, 32, 8163-8170.	3.5	41
10	Preparation and Characterization of Nonaqueous Proton-Conducting Membranes with Protic Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7626-7632.	8.0	39
11	Nanostructured Proton Conductors Formed via in Situ Polymerization of Ionic Liquid Crystals. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21970-21977.	8.0	39
12	Improved cycling stability of NiS ₂ cathodes through designing a “hollow structure. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11978-11984.	10.3	37
13	Low-Molecular-Weight Supramolecular Ionogel Based on Host–Guest Interaction. <i>Langmuir</i> , 2017, 33, 13982-13989.	3.5	36
14	Coassembly of Polyoxometalates and Zwitterionic Amphiphiles into Supramolecular Hydrogels: From Crystalline Fibrillar to Amorphous Micellar Networks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4025-4029.	13.8	30
15	Spontaneous wormlike micelles formed in a single-tailed zwitterionic surface-active ionic liquid aqueous solution. <i>Soft Matter</i> , 2017, 13, 2543-2548.	2.7	27
16	A portable point-of-care testing system to diagnose lung cancer through the detection of exosomal miRNA in urine and saliva. <i>Chemical Communications</i> , 2020, 56, 8968-8971.	4.1	26
17	ATP-triggered mitochondrial cascade reactions for cancer therapy with nanoscale zeolitic imidazole framework-90. <i>Theranostics</i> , 2021, 11, 7869-7878.	10.0	25
18	Chemical modification of Nafion membranes by protic ionic liquids: the key role of ionomer–cation interactions. <i>Soft Matter</i> , 2014, 10, 7819-7825.	2.7	24

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19	Engineering Platinum-Oxygen Dual Catalytic Sites via Charge Transfer towards Highly Efficient Hydrogen Evolution. <i>Angewandte Chemie</i> , 2020, 132, 17865-17871.	2.0	24
20	Polyoxometalate-Based Nanomaterials Toward Efficient Cancer Diagnosis and Therapy. <i>Chemistry - A European Journal</i> , 2021, 27, 6422-6434.	3.3	22
21	Aqueous dispersion of graphene sheets stabilized by ionic liquid-based polyether. <i>Colloid and Polymer Science</i> , 2012, 290, 1785-1791.	2.1	21
22	Anion exchange membranes with well-defined ion transporting nanochannels via self-assembly of polymerizable ionic liquids. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13316-13323.	10.3	21
23	Slot Antenna Integrated Re-Entrant Resonator Based Wireless Pressure Sensor for High-Temperature Applications. <i>Sensors</i> , 2017, 17, 1963.	3.8	21
24	Controlled synthesis of Fe ₂ O ₃ nanostructures with the assistance of ionic liquid and their distinct photocatalytic performance under visible-light irradiation. <i>CrystEngComm</i> , 2015, 17, 1210-1218.	2.6	20
25	Enhancing Capacitance of Nickel Cobalt Chalcogenide via Interface Structural Design. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2082-2092.	8.0	20
26	A dual-catalytic nanoreactor for synergistic chemodynamic-starvation therapy toward tumor metastasis suppression. <i>Biomaterials Science</i> , 2021, 9, 3814-3820.	5.4	20
27	Aggregation behavior of alkyl triphenyl phosphonium bromides in aprotic and protic ionic liquids. <i>Colloid and Polymer Science</i> , 2013, 291, 2375-2384.	2.1	19
28	Dispersion of multiwalled carbon nanotubes (MWCNTs) by ionic liquid-based Gemini pyrrolidinium surfactants in aqueous solution. <i>Colloid and Polymer Science</i> , 2011, 289, 1815-1819.	2.1	18
29	Temperature-responsive proton-conductive liquid crystals formed by the self-assembly of zwitterionic ionic liquids. <i>RSC Advances</i> , 2015, 5, 63732-63737.	3.6	18
30	Rapid Preparation of Au-Se Peptide Nanoprobe Based on a Freezing Method for Bioimaging. <i>Analytical Chemistry</i> , 2019, 91, 15982-15987.	6.5	16
31	Hybrid Poly(ionic liquid) Membranes with in Situ Grown Layered Double Hydroxide and Preserved Liquid Crystal Morphology for Hydroxide Transport. <i>ACS Applied Nano Materials</i> , 2018, 1, 4537-4547.	5.0	15
32	Substrate Integrated Waveguide (SIW)-Based Wireless Temperature Sensor for Harsh Environments. <i>Sensors</i> , 2018, 18, 1406.	3.8	15
33	Anion exchange membrane electrolyte preserving inverse la ₃ bicontinuous cubic phase: Effect of microdomain morphology on selective ion transport. <i>Journal of Membrane Science</i> , 2020, 605, 116113.	8.2	15
34	The facile construction of an anion exchange membrane with 3D interconnected ionic nano-channels. <i>Chemical Communications</i> , 2017, 53, 767-770.	4.1	14
35	Fast production of zinc-hexamethylenetetramine complex microflowers as an advanced sulfur reservoir for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5062-5069.	10.3	14
36	Aggregation behavior of zwitterionic surface active ionic liquids with different counterions, cations, and alkyl chains. <i>RSC Advances</i> , 2016, 6, 27370-27377.	3.6	13

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37	Photo and Humidity Responsive Mesoporous Poly(ionic Liquid) Membrane for Selective Dye Adsorption. <i>ChemistrySelect</i> , 2017, 2, 1878-1884.	1.5	13
38	Al ₂ O ₃ -Based a-IGZO Schottky Diodes for Temperature Sensing. <i>Sensors</i> , 2019, 19, 224.	3.8	12
39	Enhanced Li ⁺ Ion Storage Performance of MoS ₂ through Multistage Structural Design. <i>ChemElectroChem</i> , 2019, 6, 1475-1484.	3.4	12
40	Engineering C ⁺ N Moieties in Branched Nitrogen-Doped Graphite Tubular Foam toward Stable Li ⁺ Storage at Low Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5858-5864.	3.7	12
41	A hybridization-based dual-colorimetric kit for circulating cancer miRNA detection. <i>Chemical Communications</i> , 2021, 57, 6058-6061.	4.1	12
42	Coassembly of Polyoxometalates and Zwitterionic Amphiphiles into Supramolecular Hydrogels: From Crystalline Fibrillar to Amorphous Micellar Networks. <i>Angewandte Chemie</i> , 2018, 130, 4089-4093.	2.0	11
43	Facile one-step preparation of hierarchical Fe ₂ O ₃ nanostructures with enhanced performance in energy and environmentally related applications. <i>CrystEngComm</i> , 2014, 16, 9727-9734.	2.6	10
44	Facile preparation of supramolecular ionogels exhibiting high temperature durability as solid electrolytes. <i>New Journal of Chemistry</i> , 2016, 40, 1169-1174.	2.8	10
45	Delivery nanoplatfoms based on dynamic covalent chemistry. <i>Chemical Communications</i> , 2021, 57, 7067-7082.	4.1	10
46	Nanostructured proton-conducting membranes based on polymerizable zwitterionic ionic liquid microemulsions. <i>New Journal of Chemistry</i> , 2016, 40, 7580-7586.	2.8	7
47	A biomimetic ZIF nanoagent for synergistic regulation of glutamine metabolism and intracellular acidosis of cancer. <i>Chemical Communications</i> , 2022, 58, 1554-1557.	4.1	7
48	Imidazolium ionic liquid induced one-step synthesis of Fe ₂ O ₃ nanorods and nanorod assemblies for lithium-ion battery. <i>APL Materials</i> , 2016, 4, .	5.1	6
49	Preparation and characterization of composite membranes with Brønsted acidic ionic liquid. <i>Colloid and Polymer Science</i> , 2014, 292, 2831-2839.	2.1	5
50	Formation of supermolecular chiral gels from l-aspartic acid-based perylenebisimides and benzene dicarboxylic acids. <i>New Journal of Chemistry</i> , 2017, 41, 7643-7649.	2.8	5
51	Improved performance of IT-SOFC by negative thermal expansion Sm _{0.85} Zn _{0.15} MnO ₃ addition in Ba _{0.5} Sr _{0.5} Fe _{0.8} Cu _{0.1} Ti _{0.1} O ₃ cathode. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 184001.	1.8	5
52	Refractive index profiles of LiB ₃ O ₅ waveguides formed by MeV He ion irradiation. <i>Journal of Applied Physics</i> , 2002, 92, 3551-3553.	2.5	4
53	Wormlike micelle templated synthesis of mono- and bi-metallic nanochain networks with adjustable structure and constituents. <i>RSC Advances</i> , 2016, 6, 67495-67501.	3.6	4
54	Cyclic chain displacement amplification-based dual-miRNA detection: a triple-line lateral flow strip for the diagnosis of lung cancer. <i>Chemical Communications</i> , 2021, 57, 12301-12304.	4.1	4

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55	Construction of pH-Responsive Supramolecular Assemblies Based on Dynamic Covalent Bonds for Tunable Drug Release. Journal of Surfactants and Detergents, 2018, 21, 593-600.	2.1	1
56	Depth distribution of Bi ³⁺ and Fe ³⁺ implanted into polyimide (C ₂₂ H ₁₀ N ₂ O ₅) _n . Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 2946-2949.	2.1	0
57	Research and simulation on minimized common-mode voltage based on SVPWM modulation algorithm. , 2012, , .		0
58	Frontispiece: Polyoxometalate-Based Nanomaterials Toward Efficient Cancer Diagnosis and Therapy. Chemistry - A European Journal, 2021, 27, .	3.3	0