

Xu Liu

List of Publications by Year in descending order

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44
papers

2,375
citations

236833

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254106

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docs citations

46
times ranked

3264
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Insight into Microstructural and Dynamical Heterogeneities in Magnesium Ionic Liquid Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 105-111.	2.1	8
2	Challenges and Strategies for High-Energy Aqueous Electrolyte Rechargeable Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 598-616.	7.2	272
3	Wässrige Hochleistungsbatterien: Herausforderungen und Strategien. <i>Angewandte Chemie</i> , 2021, 133, 608-626.	1.6	14
4	An Alternative Charge-Storage Mechanism for High-Performance Sodium-Ion and Potassium-Ion Anodes. <i>ACS Energy Letters</i> , 2021, 6, 915-924.	8.8	21
5	Unveiling the Intricate Intercalation Mechanism in Manganese Sesquioxide as Positive Electrode in Aqueous Zn-Metal Battery. <i>Advanced Energy Materials</i> , 2021, 11, 2100962.	10.2	39
6	Highly Reversible Sodiation of Tin in Glyme Electrolytes: The Critical Role of the Solid Electrolyte Interphase and Its Formation Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3697-3708.	4.0	37
7	Highly Concentrated KTFSA-Glyme Electrolytes for K/Bilayered V_2O_5 Batteries, Batteries and Supercaps, 2020, 3, 261-267.	2.4	25
8	Cathode-Electrolyte Interphase in a LiTFSI/Tetraglyme Electrolyte Promoting the Cyclability of V_2O_5 . <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54782-54790.	4.0	12
9	<i>Operando</i> pH Measurements Decipher H^{+}/Zn^{2+} Intercalation Chemistry in High-Performance Aqueous Zn/V_2O_5 Batteries. <i>ACS Energy Letters</i> , 2020, 5, 2979-2986.	8.8	126
10	Evaluation of counter and reference electrodes for the investigation of Ca battery materials. <i>Journal of Power Sources Advances</i> , 2020, 2, 100008.	2.6	14
11	Potassium sulphate (K_2SO_4) activation of chestnut shell to oxygen-enriched porous carbons with enhanced capacitive properties. <i>International Journal of Energy Research</i> , 2020, 44, 5385-5396.	2.2	8
12	High-Voltage Operation of a V_2O_5 Cathode in a Concentrated Gel Polymer Electrolyte for High-Energy Aqueous Zinc Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15305-15312.	4.0	45
13	Alkoxy-functionalized ionic liquid electrolytes: understanding ionic coordination of calcium ion speciation for the rational design of calcium electrolytes. <i>Energy and Environmental Science</i> , 2020, 13, 2559-2569.	15.6	36
14	Electrochemical intercalation of anions in graphite for high-voltage aqueous zinc battery. <i>Journal of Power Sources</i> , 2020, 449, 227594.	4.0	52
15	High-Power Na-Ion and K-Ion Hybrid Capacitors Exploiting Cointercalation in Graphite Negative Electrodes. <i>ACS Energy Letters</i> , 2019, 4, 2675-2682.	8.8	88
16	Calcium vanadate sub-microfibers as highly reversible host cathode material for aqueous zinc-ion batteries. <i>Chemical Communications</i> , 2019, 55, 2265-2268.	2.2	111
17	Prototype rechargeable magnesium batteries using ionic liquid electrolytes. <i>Journal of Power Sources</i> , 2019, 423, 52-59.	4.0	48
18	Glyme-Based Electrolyte for Na/Bilayered- V_2O_5 Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 2786-2793.	2.5	20

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19	From Water and Ni Foam to a Ni(OH) ₂ @Ni Foam Binder-Free Supercapacitor Electrode: A Green Corrosion Route. <i>ChemElectroChem</i> , 2018, 5, 409-409.	1.7	4
20	Portably colorimetric paper sensor based on ZnS quantum dots for semi-quantitative detection of Co ²⁺ through the measurement of grey level. <i>Sensors and Actuators B: Chemical</i> , 2018, 260, 1068-1075.	4.0	24
21	Grey level replaces fluorescent intensity: Fluorescent paper sensor based on ZnO nanoparticles for quantitative detection of Cu ²⁺ without photoluminescence spectrometer. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2356-2366.	4.0	24
22	From Water and Ni Foam to a Ni(OH) ₂ @Ni Foam Binder-Free Supercapacitor Electrode: A Green Corrosion Route. <i>ChemElectroChem</i> , 2018, 5, 434-444.	1.7	12
23	TiO ₂ nanoparticles functionalized by Pd nanoparticles for gas-sensing application with enhanced butane response performances. <i>Scientific Reports</i> , 2017, 7, 7692.	1.6	35
24	Combustion synthesized hierarchically porous Mn ₃ O ₄ for catalytic degradation of methyl orange. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 643-647.	0.9	6
25	Acetone sensing performances based on nanoporous TiO ₂ synthesized by a facile hydrothermal method. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 491-500.	4.0	115
26	A general nonaqueous sol-gel route to g-C ₃ N ₄ -coupling photocatalysts: the case of Z-scheme g-C ₃ N ₄ /TiO ₂ with enhanced photodegradation toward RhB under visible-light. <i>Scientific Reports</i> , 2016, 6, 39531.	1.6	85
27	The xylene sensing performance of WO ₃ decorated anatase TiO ₂ nanoparticles as a sensing material for a gas sensor at a low operating temperature. <i>RSC Advances</i> , 2016, 6, 49692-49701.	1.7	53
28	Ni ₃ S ₂ @Ni foam 3D electrode prepared via chemical corrosion by sodium sulfide and using in hydrazine electro-oxidation. <i>Electrochimica Acta</i> , 2016, 213, 730-739.	2.6	69
29	Macro-/nanoporous Al-doped ZnO via self-sustained decomposition of metal-organic complexes for application in degradation of Congo red. <i>Ceramics International</i> , 2016, 42, 18914-18924.	2.3	14
30	Ag-Functionalized macro-/mesoporous AZO synthesized by solution combustion for VOCs gas sensing application. <i>RSC Advances</i> , 2016, 6, 101304-101312.	1.7	20
31	A high response butanol gas sensor based on ZnO hollow spheres. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 423-430.	4.0	137
32	A one-step nonaqueous sol-gel route to mixed-phase TiO ₂ with enhanced photocatalytic degradation of Rhodamine B under visible light. <i>CrystEngComm</i> , 2016, 18, 1964-1975.	1.3	33
33	Binder-free NiO@MnO ₂ core-shell electrode: Rod-like NiO core prepared through corrosion by oxalic acid and enhanced pseudocapacitance with sphere-like MnO ₂ shell. <i>Electrochimica Acta</i> , 2016, 189, 83-92.	2.6	47
34	Controllable synthesis and change of emission color from green to orange of ZnO quantum dots using different solvents. <i>New Journal of Chemistry</i> , 2015, 39, 2881-2888.	1.4	50
35	Facile Preparation of Well-Dispersed GO-SPEEK Composite Membranes by Electrospun for Fuel Cell Applications. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1735, 32.	0.1	0
36	A high-performance n-butanol gas sensor based on ZnO nanoparticles synthesized by a low-temperature solvothermal route. <i>RSC Advances</i> , 2015, 5, 54372-54378.	1.7	74

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37	Ag@ZnO heterostructure nanoparticles with plasmon-enhanced catalytic degradation for Congo red under visible light. RSC Advances, 2015, 5, 34456-34465.	1.7	65
38	Nanoparticle cluster gas sensor: Pt activated SnO ₂ nanoparticles for NH ₃ detection with ultrahigh sensitivity. Nanoscale, 2015, 7, 14872-14880.	2.8	284
39	Microstructure and properties of novel SPEEK/PVDF-g-PSSA blends for proton exchange membrane with improved compatibility. RSC Advances, 2015, 5, 69621-69628.	1.7	25
40	Butane detection: W-doped TiO ₂ nanoparticles for a butane gas sensor with high sensitivity and fast response/recovery. RSC Advances, 2015, 5, 96539-96546.	1.7	26
41	Combustion synthesis of porous Pt-functionalized SnO ₂ sheets for isopropanol gas detection with a significant enhancement in response. Journal of Materials Chemistry A, 2014, 2, 20089-20095.	5.2	106
42	Optical and gas sensing properties of Al-doped ZnO transparent conducting films prepared by sol-gel method under different heat treatments. Ceramics International, 2014, 40, 9931-9939.	2.3	43
43	Simple point contact WO ₃ sensor for NO ₂ sensing and relevant impedance analysis. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 1142-1148.	2.4	9
44	Niobium Doping Effects on Performance of BaCo _{0.7} Fe _{0.3} Nb _x O ₃ Perovskite. Journal of Physical Chemistry C, 2010, 114, 22338-22345.	1.5	39