

Junshen Li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2043202/publications.pdf>

Version: 2024-02-01

98
papers

3,652
citations

168829

31
h-index

162838

57
g-index

99
all docs

99
docs citations

99
times ranked

5612
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent-Mediated Synthesis of Hierarchical MOFs and Derived Urchin-Like Pd@SC/HfO ₂ with High Catalytic Activity and Stability. ACS Applied Materials & Interfaces, 2022, 14, 5887-5896.	4.0	12
2	Synergistic Capture and Conversion of Soluble Polysulfides in Li-S Batteries with Composite Freestanding Carbonaceous Interlayers. ACS Applied Materials & Interfaces, 2022, 14, 9231-9241.	4.0	11
3	Boosting photocatalytic hydrogen evolution of covalent organic frameworks by introducing 2D conductive metal-organic frameworks as noble metal-free co-catalysts. Catalysis Science and Technology, 2022, 12, 3158-3164.	2.1	9
4	Host-guest interactions promoted formation of Fe-N ₄ active site toward efficient oxygen reduction reaction catalysis. Journal of Colloid and Interface Science, 2022, 621, 195-204.	5.0	7
5	A Novel Tri-Layer Cellulose-Based Membrane for the Capture and Analysis of Mainstream Smoke of Tobacco. Applied Sciences (Switzerland), 2022, 12, 4196.	1.3	0
6	Simultaneously suppressing the dendritic lithium growth and polysulfides migration by a polyethyleneimine grafted bacterial cellulose membrane in lithium-sulfur batteries. Applied Surface Science, 2022, , 153683.	3.1	9
7	Activating the hydrogen evolution activity of Pt electrode via synergistic interaction with NiS ₂ . Journal of Colloid and Interface Science, 2021, 582, 591-597.	5.0	29
8	Cellulose-based material in lithium-sulfur batteries: A review. Carbohydrate Polymers, 2021, 255, 117469.	5.1	57
9	Efficient removal of Congo red with graphene aerogel derived from recycled anode of lithium-ion battery. International Journal of Environmental Science and Technology, 2021, 18, 3995-4006.	1.8	5
10	Simultaneous phase control and carbon intercalation of MoS ₂ for electrochemical hydrogen evolution catalysis. Materials Advances, 2021, 2, 7482-7489.	2.6	2
11	Adsorptive Behavior of Methyl Blue on Graphene Aerogel: A Mechanism Study. Journal Wuhan University of Technology, Materials Science Edition, 2021, 36, 239-242.	0.4	5
12	Catalyst-Support interactions enhanced electrochemical nitrogen reduction on Au/ZrO ₂ . Electrochimica Acta, 2021, 381, 138222.	2.6	6
13	Solid-state fabrication of CNT-threaded Fe ₁ -S@N-doped carbon composite as high-rate anodes for sodium-ion batteries and hybrid capacitors. Journal of Alloys and Compounds, 2021, 869, 159303.	2.8	8
14	Tuning the Intrinsic Activity and Electrochemical Surface Area of MoS ₂ via Tiny Zn Doping: Toward an Efficient Hydrogen Evolution Reaction (HER) Catalyst. Chemistry - A European Journal, 2021, 27, 15992-15999.	1.7	19
15	Heat Triggered Release Behavior of Eugenol from Tobacco Leaf. Applied Sciences (Switzerland), 2021, 11, 8642.	1.3	1
16	The impacts of nitrogen doping on the electrochemical hydrogen storage in a carbon. International Journal of Energy Research, 2021, 45, 9326-9339.	2.2	20
17	In Situ Fabrication of Porous MOF/COF Hybrid Photocatalysts for Visible-Light-Driven Hydrogen Evolution. ACS Applied Materials & Interfaces, 2021, 13, 59915-59924.	4.0	33
18	Oxidative desulfurization of fuels at room temperature using ordered meso/macroporous H ₃ PW ₁₂ O ₄₀ /SiO ₂ catalyst with high specific surface areas. Arabian Journal of Chemistry, 2020, 13, 2649-2658.	2.3	19

#	ARTICLE	IF	CITATIONS
19	Self-assembled N-doped carbon with a tube-in-tube nanostructure for lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 244-253.	5.0	20
20	A synergistic modification of polypropylene separator toward stable lithium-sulfur battery. <i>Journal of Membrane Science</i> , 2020, 597, 117646.	4.1	47
21	Air-stable red phosphorus anode for potassium/sodium-ion batteries enabled through dual-protection design. <i>Nano Energy</i> , 2020, 69, 104451.	8.2	70
22	Synthesis of carbon-SiO ₂ hybrid layer @ SiO ₂ @ CNT coaxial nanotube and its application in lithium storage. <i>Electrochimica Acta</i> , 2020, 354, 136726.	2.6	30
23	3D Coral-like LLZO/PVDF Composite Electrolytes with Enhanced Ionic Conductivity and Mechanical Flexibility for Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52652-52659.	4.0	81
24	Thermal Triggered Release of Menthol from Different Carriers: A Comparative Study. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1677.	1.3	5
25	Multifunctional Polypropylene Separator via Cooperative Modification and Its Application in the Lithium-Sulfur Battery. <i>Langmuir</i> , 2020, 36, 11147-11153.	1.6	27
26	Ionic liquid-based 3DOM meso/macroporous Mo/TiO ₂ materials with superior oxidation desulfurization performance at room temperature. <i>Materials Research Bulletin</i> , 2020, 126, 110849.	2.7	10
27	Rational design of perfluorinated sulfonic acid ionic sieve modified separator for high-performance Li-S battery. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 771-779.	1.2	2
28	Evaporation-induced formation of hollow bismuth@N-doped carbon nanorods for enhanced electrochemical potassium storage. <i>Applied Surface Science</i> , 2020, 514, 145947.	3.1	47
29	Size-dependent electrochemical nitrogen reduction catalyzed by monodisperse Au nanoparticles. <i>Electrochimica Acta</i> , 2020, 335, 135708.	2.6	29
30	Integrated 3D electrodes based on metal-nitrogen-doped graphitic ordered mesoporous carbon and carbon paper for high-loading lithium-sulfur batteries. <i>Nano Energy</i> , 2020, 73, 104763.	8.2	44
31	Polymer carriers for controlled fragrance release. <i>Materials Research Express</i> , 2020, 7, 082001.	0.8	20
32	Three-dimensional ordered macroporous HPW/titania-alumina catalysts for catalytic oxidative desulfurization of fuels. <i>Journal of Porous Materials</i> , 2019, 26, 133-144.	1.3	14
33	Recent Advances in Oxygen Electrocatalysts Based on Perovskite Oxides. <i>Nanomaterials</i> , 2019, 9, 1161.	1.9	58
34	Hydrogen ion supercapacitor cell construction and rational design of cell structure. <i>International Journal of Energy Research</i> , 2019, 43, 8439.	2.2	1
35	Improving catalytic activity of metal telluride by hybridization: An efficient Ni ₃ Te ₂ -CoTe composite electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2019, 490, 516-521.	3.1	38
36	Synthesis of MOF-74-derived carbon/ZnCo ₂ O ₄ nanoparticles@CNT-nest hybrid material and its application in lithium ion batteries. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 1103-1112.	1.5	20

#	ARTICLE	IF	CITATIONS
37	An efficient bifunctional electrocatalyst derived from layer-by-layer self-assembly of a three-dimensional porous Co-N-C@graphene. <i>Science Bulletin</i> , 2019, 64, 968-975.	4.3	31
38	A hybrid supercapacitor constructed by graphene wrapped ordered meso-porous Si based electrode. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 576, 15-21.	2.3	6
39	A Bioinspired Functionalization of Polypropylene Separator for Lithium-Sulfur Battery. <i>Polymers</i> , 2019, 11, 728.	2.0	11
40	Suppressed polysulfide shuttling and improved Li ⁺ transport in Li S batteries enabled by NbN modified PP separator. <i>Journal of Power Sources</i> , 2019, 423, 98-105.	4.0	62
41	POSS-Derived Synthesis and Full Life Structural Analysis of Si@C as Anode Material in Lithium Ion Battery. <i>Polymers</i> , 2019, 11, 576.	2.0	11
42	A single-step fabrication of CoTe ₂ nanofilm electrode toward efficient overall water splitting. <i>Electrochimica Acta</i> , 2019, 307, 451-458.	2.6	46
43	Electrochemical hydrogen storage in iron nitrogen dual-doped ordered mesoporous carbon. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7326-7336.	3.8	16
44	Formation of thin layer graphite wrapped meso-porous SiO _x and its lithium storage application. <i>Ceramics International</i> , 2019, 45, 24707-24716.	2.3	7
45	Lithium ion supercapacitor composed by Si-based anode and hierarchal porous carbon cathode with super long cycle life. <i>Applied Surface Science</i> , 2019, 463, 879-888.	3.1	21
46	Facile fabrication of Pt@Ni alloy nanoparticles supported on reduced graphene oxide as excellent electrocatalysts for hydrogen evolution reaction in alkaline environment. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	0.8	35
47	Slippery Lubricant-Infused Surfaces: Properties and Emerging Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1802317.	7.8	172
48	Self-assembled 3DOM macro-/mesoporous TiO ₂ photoanode for dye-sensitized solar cells. <i>Applied Surface Science</i> , 2018, 439, 1026-1033.	3.1	20
49	Reduced graphene-oxide/highly ordered mesoporous SiO _x hybrid material as an anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2018, 273, 26-33.	2.6	45
50	Three-dimensional ordered phosphotungstic acid/TiO ₂ with superior catalytic activity for oxidative desulfurization. <i>Fuel</i> , 2018, 226, 148-155.	3.4	53
51	MOF@Cellulose Derived Co@Ni@C Nanowire Network as an Advanced Reversible Oxygen Electrocatalyst for Rechargeable Zinc-Air Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 1060-1068.	2.5	43
52	Oxidation Desulfurization of Fuels by Using Amphiphilic Hierarchically Meso/Macroporous Phosphotungstic Acid/SiO ₂ Catalysts. <i>Catalysis Letters</i> , 2018, 148, 1100-1109.	1.4	23
53	Fe and N co-doped carbon with three-dimensional ordered macropores and ordered mesopores as an efficient tri-iodide reduction catalyst for dye sensitized solar cell. <i>Journal of Alloys and Compounds</i> , 2018, 742, 641-647.	2.8	10
54	SnO ₂ Functionalized Polyethylene Separator with Enhanced Thermal Stability for High Performance Lithium Ion Battery. <i>ChemistrySelect</i> , 2018, 3, 911-916.	0.7	34

#	ARTICLE	IF	CITATIONS
55	Hierarchical ordered meso/macroporous H ₃ PW ₁₂ O ₄₀ /SiO ₂ catalysts with superior oxidative desulfurization activity. <i>Journal of Porous Materials</i> , 2018, 25, 727-734.	1.3	21
56	Direct synthesis of ordered meso/macroporous phosphotungstic acid/SiO ₂ by EISA method and its catalytic performance of fuel oil. <i>Materials Research Bulletin</i> , 2018, 97, 42-48.	2.7	29
57	Ordered Iron- and Nitrogen-Doped Carbon Framework as a Carbon Monoxide-Tolerant Alkaline Anion-Exchange Membrane Fuel Cell Catalyst. <i>Energy Technology</i> , 2018, 6, 1003-1010.	1.8	5
58	Performances of Platinum and nitrogen Dual-Doped Ordered Mesoporous Carbon as Sulfur Host for Li-S Battery. <i>International Journal of Electrochemical Science</i> , 2018, 13, 11294-11322.	0.5	6
59	An active oxygen reduction electrocatalyst derived from bio-inspired tannic acid-Fe assembly. <i>Materials Research Express</i> , 2018, 5, 095505.	0.8	1
60	Highly efficient deep desulfurization of fuels by meso/macroporous H ₃ PW ₁₂ O ₄₀ /TiO ₂ at room temperature. <i>Materials Research Bulletin</i> , 2018, 105, 210-219.	2.7	34
61	Electrochemical hydrogen storage in a nitrogen-doped uniformed microporous carbon. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14096-14102.	3.8	17
62	Improving the Electrochemical Performance of Polypropylene Separator through Instantaneous Photo-Induced Functionalization. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1909-A1914.	1.3	11
63	Electrospun Polyethylene Terephthalate Nonwoven Reinforced Polypropylene Separator: Scalable Synthesis and Its Lithium Ion Battery Performance. <i>Polymers</i> , 2018, 10, 574.	2.0	30
64	Confining nano-sized platinum in nitrogen doped ordered mesoporous carbon: An effective approach toward efficient and robust hydrogen evolution electrocatalyst. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 595-602.	5.0	30
65	Three-dimensionally Ordered Macroporous Phosphotungstic Acid/SiO ₂ for Efficient Catalytic Oxidative Desulfurization. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018, 33, 849-854.	0.4	6
66	Interfacing soluble polysulfides with a SnO ₂ functionalized separator: An efficient approach for improving performance of Li-S battery. <i>Journal of Membrane Science</i> , 2018, 563, 380-387.	4.1	64
67	Self-assembly synthesis of a unique stable cocoon-like hematite @C nanoparticle and its application in lithium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2017, 495, 157-167.	5.0	21
68	Bio-inspired strategy for controlled dopamine polymerization in basic solutions. <i>Polymer Chemistry</i> , 2017, 8, 2145-2151.	1.9	44
69	Fe and N Co-doped Carbons Derived from an Ionic Liquid as Active Bifunctional Oxygen Catalysts. <i>ChemElectroChem</i> , 2017, 4, 1148-1153.	1.7	17
70	Controlled carbon coating of Fe ₂ O ₃ nanotube with tannic acid: A bio-inspired approach toward high performance lithium-ion battery anode. <i>Journal of Alloys and Compounds</i> , 2017, 719, 347-352.	2.8	28
71	Electrochemical Hydrogen Storage in Facile Synthesized Co@N-Doped Carbon Nanoparticle Composites. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41332-41338.	4.0	19
72	Self-assembled meso/macroporous phosphotungstic acid/TiO ₂ as an efficient catalyst for oxidative desulfurization of fuels. <i>Journal of Porous Materials</i> , 2017, 24, 531-539.	1.3	22

#	ARTICLE	IF	CITATIONS
73	Nitrogen Doped Carbon Wrapped Fe ₃ O ₄ as an Efficient Bifunctional Oxygen Electrocatalyst. International Journal of Electrochemical Science, 2017, , 6129-6136.	0.5	1
74	(Co _{0.94} Fe _{0.06}) ₃ O ₄ Nanoparticles Embedded Porous Hollow Carbon Nanowire Derived from Co-based metal-organic Frameworks and Its Capacitive Behavior. International Journal of Electrochemical Science, 2016, 11, 9216-9227.	0.5	6
75	Facile Synthesis of Fe ₃ C@Graphene Hybrid Nanorods as an Efficient and Robust Catalyst for Oxygen Reduction Reaction. ChemPlusChem, 2016, 81, 646-651.	1.3	12
76	Synthesis of ordered meso/macroporous H ₃ PW ₁₂ O ₄₀ /SiO ₂ and its catalytic performance in oxidative desulfurization. RSC Advances, 2016, 6, 53860-53866.	1.7	30
77	Nitrogen and sulfur co-doped carbon with three-dimensional ordered macroporosity: An efficient metal-free oxygen reduction catalyst derived from ionic liquid. Journal of Power Sources, 2016, 323, 90-96.	4.0	47
78	Advanced Separators for Lithium-Ion and Lithium-Sulfur Batteries: A Review of Recent Progress. ChemSusChem, 2016, 9, 3023-3039.	3.6	299
79	Collaborative Action of Surface Chemistry and Topography in the Regulation of Mesenchymal and Epithelial Markers and the Shape of Cancer Cells. ACS Applied Materials & Interfaces, 2016, 8, 28554-28565.	4.0	11
80	Reversible and Rewritable Surface Functionalization and Patterning via Photodynamic Disulfide Exchange. Advanced Materials, 2015, 27, 4997-5001.	11.1	69
81	Highly ordered 3D macroporous scaffold supported Pt/C oxygen electrodes with superior gas-proton transportation properties and activities for fuel cells. Journal of Materials Chemistry A, 2015, 3, 15001-15007.	5.2	16
82	The application of thermal analysis, XRD and SEM to study the hydration behavior of tricalcium silicate in the presence of a polycarboxylate superplasticizer. Thermochimica Acta, 2015, 613, 54-60.	1.2	50
83	Reactive Superhydrophobic Surface and Its Photoinduced Disulfide-ene and Thiol-ene (Bio)functionalization. Nano Letters, 2015, 15, 675-681.	4.5	86
84	Surface Patterning via Thiol-ene Click Chemistry: An Extremely Fast and Versatile Approach to Superhydrophilic/Superhydrophobic Micropatterns. Advanced Materials Interfaces, 2014, 1, 1400269.	1.9	127
85	Nanostructure-Based Proton Exchange Membrane for Fuel Cell Applications at High Temperature. Journal of Nanoscience and Nanotechnology, 2014, 14, 1181-1193.	0.9	7
86	UV-Triggered Dopamine Polymerization: Control of Polymerization, Surface Coating, and Photopatterning. Advanced Materials, 2014, 26, 8029-8033.	11.1	307
87	Direct UV-Induced Functionalization of Surface Hydroxy Groups by Thiol-OI Chemistry. Angewandte Chemie - International Edition, 2014, 53, 3835-3839.	7.2	29
88	Approaching high temperature performance for proton exchange membrane fuel cells with 3D ordered silica/Cs _{2.5} H _{0.5} PW electrolytes. Journal of Materials Chemistry A, 2014, 2, 753-760.	5.2	28
89	Direct three-dimensional imaging of polymer-water interfaces by nanoscale hard X-ray phase tomography. Soft Matter, 2014, 10, 2982-2990.	1.2	10
90	Hydrogen crossover through perfluorosulfonic acid membranes with variable side chains and its influence in fuel cell lifetime. International Journal of Hydrogen Energy, 2014, 39, 15989-15995.	3.8	36

#	ARTICLE	IF	CITATIONS
91	Hydrophobic Liquid-Infused Porous Polymer Surfaces for Antibacterial Applications. ACS Applied Materials & Interfaces, 2013, 5, 6704-6711.	4.0	187
92	Porous poly(2-octyl cyanoacrylate): a facile one-step preparation of superhydrophobic coatings on different substrates. Journal of Materials Chemistry A, 2013, 1, 1026-1029.	5.2	30
93	Physically stable and high performance Aquivion/ePTFE composite membrane for high temperature fuel cell application. Journal of Membrane Science, 2013, 442, 65-71.	4.1	56
94	Formation of a Polymer Surface with a Gradient of Pore Size Using a Microfluidic Chip. Langmuir, 2013, 29, 3797-3804.	1.6	19
95	Slippery Liquid-Infused Porous Surfaces Showing Marine Antibiofouling Properties. ACS Applied Materials & Interfaces, 2013, 5, 10074-10080.	4.0	251
96	Microfluidic Chip for Generating Gradient Polymer Films for Biological Applications. Procedia Engineering, 2012, 47, 458-461.	1.2	0
97	Morphology change of biaxially oriented polytetrafluoroethylene membranes caused by solvent soakage. Journal of Applied Polymer Science, 2011, 121, 1464-1468.	1.3	11
98	Durable and high performance Nafion membrane prepared through high-temperature annealing methodology. Journal of Membrane Science, 2010, 361, 38-42.	4.1	61