

Xiaohong Li

List of Publications by Year in descending order

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43
papers

3,701
citations

201385

27
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243296

44
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46
all docs

46
docs citations

46
times ranked

4815
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in redox flow batteries, remaining challenges and their applications in energy storage. RSC Advances, 2012, 2, 10125.	1.7	778
2	Electrodeposited lead dioxide coatings. Chemical Society Reviews, 2011, 40, 3879.	18.7	310
3	Nickel based electrocatalysts for oxygen evolution in high current density, alkaline water electrolyzers. Physical Chemistry Chemical Physics, 2011, 13, 1162-1167.	1.3	282
4	Prospects for alkaline zero gap water electrolyzers for hydrogen production. International Journal of Hydrogen Energy, 2011, 36, 15089-15104.	3.8	274
5	Three-dimensional graphene oxide/polypyrrole composite electrodes fabricated by one-step electrodeposition for high performance supercapacitors. Journal of Materials Chemistry A, 2015, 3, 14445-14457.	5.2	212
6	Synthesis and characterization of M ₃ V ₂ O ₈ (M = Ni or Co) based nanostructures: a new family of high performance pseudocapacitive materials. Journal of Materials Chemistry A, 2014, 2, 4919.	5.2	161
7	Labeling the Defects of Single-Walled Carbon Nanotubes Using Titanium Dioxide Nanoparticles. Journal of Physical Chemistry B, 2003, 107, 2453-2458.	1.2	160
8	The specific capacitance of sol-gel synthesised spinel MnCo ₂ O ₄ in an alkaline electrolyte. Electrochimica Acta, 2014, 115, 22-27.	2.6	128
9	A novel flow battery: A lead acid battery based on an electrolyte with soluble lead(II). Electrochimica Acta, 2009, 54, 4688-4695.	2.6	118
10	Materials and fabrication of electrode scaffolds for deposition of MnO ₂ and their true performance in supercapacitors. Journal of Power Sources, 2015, 293, 657-674.	4.0	93
11	Preparation and characterization of pyrrole/aniline copolymer nanofibrils using the template-synthesis method. Journal of Applied Polymer Science, 2001, 81, 3002-3007.	1.3	92
12	A novel flow battery: A lead acid battery based on an electrolyte with soluble lead(II) Part VIII. The cycling of a 10cm ² –10cm flow cell. Journal of Power Sources, 2010, 195, 1731-1738.	4.0	79
13	The characteristics and performance of hybrid redox flow batteries with zinc negative electrodes for energy storage. Renewable and Sustainable Energy Reviews, 2018, 90, 992-1016.	8.2	77
14	3D Hierarchically Structured CoS Nanosheets: Li ⁺ Storage Mechanism and Application of the High-Performance Lithium-Ion Capacitors. ACS Applied Materials & Interfaces, 2020, 12, 3709-3718.	4.0	72
15	A novel flow battery: A lead acid battery based on an electrolyte with soluble lead(II). Part IX: Electrode and electrolyte conditioning with hydrogen peroxide. Journal of Power Sources, 2010, 195, 2975-2978.	4.0	70
16	A comparison of cathodes for zero gap alkaline water electrolyzers for hydrogen production. International Journal of Hydrogen Energy, 2012, 37, 7429-7435.	3.8	69
17	Comparison of the Spinel Co ₃ O ₄ and NiCo ₂ O ₄ as Bifunctional Oxygen Catalysts in Alkaline Media. Electrochimica Acta, 2016, 188, 286-293.	2.6	65
18	Development of Ni-Fe based ternary metal hydroxides as highly efficient oxygen evolution catalysts in AEM water electrolysis for hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 24232-24247.	3.8	55

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19	Screening of effective electrolyte additives for zinc-based redox flow battery systems. <i>Journal of Power Sources</i> , 2019, 412, 44-54.	4.0	54
20	A Sol-Gel Process for the Synthesis of NiCo ₂ O ₄ Having Improved Specific Capacitance and Cycle Stability for Electrochemical Capacitors. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1262-A1266.	1.3	53
21	Optimization of the Electrodeposition Process of High-Performance Bismuth Antimony Telluride Compounds for Thermoelectric Applications. <i>Langmuir</i> , 2010, 26, 16980-16985.	1.6	41
22	High Volumetric Energy Density Capacitors Based on New Electrode Material Lanthanum Nitride. <i>ACS Energy Letters</i> , 2017, 2, 336-341.	8.8	41
23	Enhancement of Oxygen Transfer by Design Nickel Foam Electrode for Zinc-Air Battery. <i>Journal of the Electrochemical Society</i> , 2018, 165, A809-A818.	1.3	41
24	A novel bifunctional oxygen GDE for alkaline secondary batteries. <i>Electrochemistry Communications</i> , 2013, 34, 228-230.	2.3	35
25	The fabrication of a bifunctional oxygen electrode without carbon components for alkaline secondary batteries. <i>Journal of Power Sources</i> , 2014, 259, 43-49.	4.0	35
26	High density p-type Bi _{0.5} Sb _{1.5} Te ₃ nanowires by electrochemical templating through ion-track lithography. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3584.	1.3	32
27	Superior photoelectrocatalytic performance of ternary structural BiVO ₄ /GQD/g-C ₃ N ₄ heterojunction. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 785-796.	5.0	32
28	Ni ₃ S ₂ nanostrips@FeNi-NiFe ₂ O ₄ nanoparticles embedded in N-doped carbon microsphere: An improved electrocatalyst for oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 617, 1-10.	5.0	25
29	Electrodeposition of mesoporous CdTe films with the aid of citric acid from lyotropic liquid crystalline phases. <i>Journal of Materials Chemistry</i> , 2006, 16, 3207.	6.7	24
30	Density Functional Theory Study of NiFeCo Ternary Oxy-Hydroxides for an Efficient and Stable Oxygen Evolution Reaction Catalyst. <i>ACS Omega</i> , 2020, 5, 20517-20524.	1.6	24
31	Laser Assisted Solution Synthesis of High Performance Graphene Supported Electrocatalysts. <i>Advanced Functional Materials</i> , 2020, 30, 2001756.	7.8	23
32	Carbon Materials as Positive Electrodes in Bromine-Based Flow Batteries. <i>ChemPlusChem</i> , 2022, 87, e202100441.	1.3	23
33	Polymerization of short single-walled carbon nanotubes into large strands. <i>Carbon</i> , 2003, 41, 598-601.	5.4	20
34	Direct electrodeposition of PbTe thin films on n-type silicon. <i>Electrochemistry Communications</i> , 2008, 10, 363-366.	2.3	18
35	A study on Pb ²⁺ /Pb electrodes for soluble lead redox flow cells prepared with methanesulfonic acid and recycled lead. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 861-868.	1.5	18
36	Influence of synthesis parameters on amorphous manganese dioxide catalyst electrocatalytic performance. <i>Electrochimica Acta</i> , 2017, 245, 615-624.	2.6	13

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37	Assembling flower-on-sheet CoP@NiCoP nano hybrids as efficient self-supported electrocatalysts for hydrogen evolution reaction in both acidic and alkaline media. <i>Journal of Materials Science</i> , 2021, 56, 3375-3386.	1.7	10
38	High-Density Growth of Single-Wall Carbon Nanotubes on Silicon by Fabrication of Nanosized Catalyst Thin Films. <i>Chemistry of Materials</i> , 2002, 14, 4262-4266.	3.2	9
39	The effect of electrolyte and additive concentration on zinc-nickel flow cell performance. <i>Electrochimica Acta</i> , 2021, 367, 137479.	2.6	8
40	High surface area coatings for hydrogen evolution cathodes prepared by magnetron sputtering. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2452-2459.	3.8	7
41	The influence of zinc electrode substrate, electrolyte flow rate and current density on zinc-nickel flow cell performance. <i>Electrochimica Acta</i> , 2021, 373, 137890.	2.6	7
42	Nanotemplated lead telluride thin films. <i>Microporous and Mesoporous Materials</i> , 2009, 118, 403-407.	2.2	5
43	Selection of oxygen reduction catalysts for secondary tri-electrode zinc-air batteries. <i>Scientific Reports</i> , 2022, 12, 6696.	1.6	4