

Kai Chen

List of Publications by Year in descending order

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40
papers

1,853
citations

331670

21
h-index

289244

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41
all docs

41
docs citations

41
times ranked

1998
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymmetric Neutralâ€¦Alkaline Microbial Electrolysis Cells for Hydrogen Production. ChemElectroChem, 2022, 9, .	3.4	2
2	Oxygen Vacancyâ€¦Enhanced Ternary Nickelâ€¦Tungstenâ€¦Cerium Metal Alloyâ€¦Oxides for Efficient Alkaline Electrochemical Full Cell Water Splitting Using Anion Exchange Membrane. ChemElectroChem, 2022, 9, .	3.4	6
3	Oxygen vacancy defect tungsten-oxide-quantum-dot-modified nitrogen-doped graphene with interfacial tiny primitives to boost oxygen reduction reaction. Journal of Alloys and Compounds, 2022, 908, 164588.	5.5	5
4	High Entropy Alloy Electrocatalytic Electrode toward Alkaline Glycerol Valorization Coupling with Acidic Hydrogen Production. Journal of the American Chemical Society, 2022, 144, 7224-7235.	13.7	156
5	Holey amorphous FeCoO-coated black phosphorus for robust polysulfide adsorption and catalytic conversion in lithiumâ€¦sulfur batteries. Journal of Materials Chemistry A, 2022, 10, 11676-11683.	10.3	13
6	Enhancing ORR/OER active sites through lattice distortion of Fe-enriched FeNi ₃ intermetallic nanoparticles doped N-doped carbon for high-performance rechargeable Zn-air battery. Journal of Colloid and Interface Science, 2021, 582, 977-990.	9.4	99
7	MOFâ€¦derived Coreâ€¦Shell CoP@NC@TiO ₂ Composite as a Highâ€¦Performance Anode Material for Liâ€¦ion Batteries. Chemistry - an Asian Journal, 2021, 16, 322-328.	3.3	20
8	Ultrasonic Plasma Engineering Toward Facile Synthesis of Single-Atom M-N ₄ /N-Doped Carbon (M=Fe), Tj ETQq0 0 0 rgBT /Ove 13, 60.	27.0	63
9	Hierarchical Carbon/Metal Nanostructure with a Combination of 0D Nanoparticles, 1D Nanofibers, and 2D Nanosheets: An Efficient Bifunctional Catalyst for Zincâ€¦Air Batteries. ChemElectroChem, 2021, 8, 1107-1116.	3.4	7
10	Engineering of Amorphous PtO _x Interface on Pt/WO ₃ Nanosheets for Ethanol Oxidation Electrocatalysis. Advanced Functional Materials, 2021, 31, 2100982.	14.9	63
11	Strategic Structure Tuning of Yolkâ€¦Shell Microcages for Efficient Nitrogen Fixation. ChemSusChem, 2021, 14, 2521-2528.	6.8	4
12	Electron Matters: Recent Advances in Passivation and Applications of Black Phosphorus. Advanced Materials, 2021, 33, e2005924.	21.0	29
13	Manipulation of the Magnetic Properties of Janus WSSe Monolayer by the Adsorption of Transition Metal Atoms. Nanoscale Research Letters, 2021, 16, 104.	5.7	5
14	Highâ€¦Performance Flow Alkaliâ€¦Al/Acid Hybrid Fuel Cell for Highâ€¦Rate H ₂ Generation. Advanced Functional Materials, 2021, 31, 2103248.	14.9	7
15	Scalable Synthesis of Tungsten Disulfide Nanosheets for Alkaliâ€¦Acid Electrocatalytic Sulfion Recycling and H ₂ Generation. Angewandte Chemie - International Edition, 2021, 60, 21550-21557.	13.8	82
16	Mo ₂ C/C Hierarchical Doubleâ€¦Shelled Hollow Spheres as Sulfur Host for Advanced Liâ€¦S Batteries. Angewandte Chemie, 2021, 133, 21682-21690.	2.0	21
17	Scalable Synthesis of Tungsten Disulfide Nanosheets for Alkaliâ€¦Acid Electrocatalytic Sulfion Recycling and H ₂ Generation. Angewandte Chemie, 2021, 133, 21720-21727.	2.0	4
18	Mo ₂ C/C Hierarchical Doubleâ€¦Shelled Hollow Spheres as Sulfur Host for Advanced Liâ€¦S Batteries. Angewandte Chemie - International Edition, 2021, 60, 21512-21520.	13.8	76

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19	N/B Co-doped carbon as metal-free cathode catalyst for high-performance asymmetric neutral-alkaline microbial fuel cell. <i>Electrochimica Acta</i> , 2021, 389, 138518.	5.2	10
20	Core-double shells heterostructure $\text{Fe}_3\text{-Fe}_2\text{O}_3\text{@FeS}_2\text{@C}$ nanocubics with energy level matching double interfaces to boost the oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021, 885, 160986.	5.5	13
21	Polyaniline Encapsulated Amorphous V_2O_5 Nanowire-Modified Multi-Functional Separators for Lithium-Sulfur Batteries. <i>Small Methods</i> , 2021, 5, e2001056.	8.6	86
22	Promoting water splitting on arrayed molybdenum carbide nanosheets with electronic modulation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21440-21447.	10.3	21
23	Dual Porous 3D Zinc Anodes toward Dendrite-Free and Long Cycle Life Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54990-54996.	8.0	30
24	Graphitic carbon nanochambers interweaved porous yolk-shell skeleton for long-lifespan lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 898, 162831.	5.5	5
25	High-Voltage Rechargeable Alkali-Acid Zn-PbO_2 Hybrid Battery. <i>Angewandte Chemie</i> , 2020, 132, 23799-23803.	2.0	16
26	Hybrid Molybdenum Carbide/Heteroatom-Doped Carbon Electrocatalyst for Advanced Oxygen Evolution Reaction in Hydrogen Production. <i>Catalysts</i> , 2020, 10, 1290.	3.5	10
27	High-Voltage Rechargeable Alkali-Acid Zn-PbO_2 Hybrid Battery. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23593-23597.	13.8	44
28	Double-shelled hollow carbon nanospheres as enclosed electrochemical reactors to enhance the lithium storage performance of silicon nanodots. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12502-12517.	10.3	37
29	In-situ Fabrication of Bone-Like CoSe_2 Nano-Thorn Loaded on Porous Carbon Cloth as a Flexible Electrode for Na-Ion Storage. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1493-1499.	3.3	22
30	The encapsulation of MnFe_2O_4 nanoparticles into the carbon framework with superior rate capability for lithium-ion batteries. <i>Nanoscale</i> , 2020, 12, 4445-4451.	5.6	18
31	Iron-incorporated nitrogen-doped carbon materials as oxygen reduction electrocatalysts for zinc-air batteries. <i>Chinese Journal of Catalysis</i> , 2020, 41, 858-867.	14.0	41
32	A multidimensional and hierarchical carbon-confined cobalt phosphide nanocomposite as an advanced anode for lithium and sodium storage. <i>Nanoscale</i> , 2019, 11, 968-985.	5.6	50
33	Tailored Ni_2P nanoparticles supported on N-doped carbon as a superior anode material for Li-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1881-1889.	6.0	22
34	Reversible Zn-quinone battery with harvesting electrochemical neutralization energy. <i>Journal of Power Sources</i> , 2019, 428, 37-43.	7.8	17
35	Core-shell MOF-derived N-doped yolk-shell carbon nanocages homogeneously filled with ZnSe and CoSe_2 nanodots as excellent anode materials for lithium- and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11016-11037.	10.3	173
36	A new generation of high performance anode materials with semiconductor heterojunction structure of $\text{SnSe/SnO}_2\text{@Gr}$ in lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2018, 347, 552-562.	12.7	91

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37	High performance carbon-coated hollow Ni ₁₂ P ₅ nanocrystals decorated on GNS as advanced anodes for lithium and sodium storage. Journal of Materials Chemistry A, 2017, 5, 22316-22324.	10.3	65
38	Rational Design of Three-Dimensional Graphene Encapsulated with Hollow FeP@Carbon Nanocomposite as Outstanding Anode Material for Lithium Ion and Sodium Ion Batteries. ACS Nano, 2017, 11, 11602-11616.	14.6	315
39	A biocompatible and novel-defined Al-HAP adsorption membrane for highly effective removal of fluoride from drinking water. Journal of Colloid and Interface Science, 2017, 490, 97-107.	9.4	64
40	High efficient removal of fluoride from aqueous solution by a novel hydroxyl aluminum oxalate adsorbent. Journal of Colloid and Interface Science, 2016, 464, 238-245.	9.4	41