

Chi Ho Lee

List of Publications by Year in descending order

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papers

2,128
citations

279701

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docs citations

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times ranked

2729
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical investigations into the hydrogen evolution reaction of the carbon schwarzites: From electronics to structure-catalytic activity relationship. <i>Carbon</i> , 2022, 190, 136-141.	5.4	9
2	Designing and Tuning the Electronic Structure of Nickel-Vanadium Layered Double Hydroxides for Highly Efficient Oxygen Evolution Electrocatalysis. <i>ACS Catalysis</i> , 2022, 12, 3821-3831.	5.5	58
3	Hybridized heterostructure of CoS and MoS ₂ nanoparticles for highly-efficient and robust bifunctional water electrolysis. <i>Applied Surface Science</i> , 2022, 592, 153196.	3.1	17
4	Structural and Electronic Modulations of Imidazolium Covalent Organic Framework-Derived Electrocatalysts for Oxygen Redox Reactions in Rechargeable Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24404-24414.	4.0	12
5	SAXS-guided unbiased coarse-grained Monte Carlo simulation for identification of self-assembly nanostructures and dimensions. <i>Soft Matter</i> , 2022, 18, 5282-5292.	1.2	6
6	Single-atom oxygen reduction reaction electrocatalysts of Fe, Si, and N co-doped carbon with 3D interconnected mesoporosity. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4297-4309.	5.2	43
7	State of charge dependent ordered and disordered phases in a Li[Ni _{1/3} Co _{1/3} Mn _{1/3}]O ₂ cathode material. <i>Materials Advances</i> , 2021, 2, 3965-3970.	2.6	2
8	Bifunctional Covalent Organic Framework-Derived Electrocatalysts with Modulated <i>d</i> -Band Centers for Rechargeable Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101727.	7.8	76
9	Ampere-hour-scale zinc-air pouch cells. <i>Nature Energy</i> , 2021, 6, 592-604.	19.8	149
10	Nanoporous Titanium-Oxo Molecular Cluster for CO ₂ Selective Adsorption. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 1014-1019.	1.0	2
11	Experimental and Theoretical Insights into the Borohydride-Based Reduction-Induced Metal Interdiffusion in Fe-Oxide@NiCo ₂ O ₄ for Enhanced Oxygen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53725-53735.	4.0	32
12	Experimental and Theoretical Insights into Transition-Metal (Mo, Fe) Codoping in a Bifunctional Nickel Phosphide Microsphere Catalyst for Enhanced Overall Water Splitting. <i>ACS Applied Energy Materials</i> , 2021, 4, 14169-14179.	2.5	39
13	Temperature-dependent lithium diffusion in phagraphene: Insights from molecular dynamics simulation. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 287-293.	2.9	10
14	Rational design of a PC ₃ monolayer: A high-capacity, rapidly charging anode material for sodium-ion batteries. <i>Carbon</i> , 2020, 157, 420-426.	5.4	49
15	Role of Transition Metals in Layered Double Hydroxides for Differentiating the Oxygen Evolution and Nonenzymatic Glucose Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6193-6204.	4.0	48
16	A Robust Nonprecious CuFe Composite as a Highly Efficient Bifunctional Catalyst for Overall Electrochemical Water Splitting. <i>Small</i> , 2020, 16, e1905884.	5.2	63
17	Tuning d-band centers by coupling PdO nanoclusters to WO ₃ nanosheets to promote the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13490-13500.	5.2	33
18	Complementary Hybrid Semiconducting Superlattices with Multiple Channels and Mutual Stabilization. <i>Nano Letters</i> , 2020, 20, 4864-4871.	4.5	13

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19	Molecular engineering of nanostructures and activities on bifunctional oxygen electrocatalysts for Zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118869.	10.8	34
20	Densely colonized isolated Cu-N single sites for efficient bifunctional electrocatalysts and rechargeable advanced Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118746.	10.8	110
21	Designing a high-performance nitrogen-doped titanium dioxide anode material for lithium-ion batteries by unravelling the nitrogen doping effect. <i>Nano Energy</i> , 2020, 74, 104829.	8.2	38
22	Bias-Dependent Multichannel Transport in Grapheneâ€“Boron Nitride Heterojunction Nanoribbons. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1449-1458.	2.0	1
23	Phographene as a High-Performance Anode Material with High Specific Capacity and Fast Li Diffusion: From Structural, Electronic, and Mechanical Properties to LIB Applications. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21345-21352.	1.5	43
24	Unraveling the controversy over a catalytic reaction mechanism using a new theoretical methodology: One probe and non-equilibrium surface Green's function. <i>Nano Energy</i> , 2019, 63, 103863.	8.2	7
25	Enhanced catalytic activity of SO _x -incorporated graphene for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22615-22620.	5.2	4
26	Unveiling dual-linkage 3D hexaminobenzene metalâ€“organic frameworks towards long-lasting advanced reversible Znâ€“air batteries. <i>Energy and Environmental Science</i> , 2019, 12, 727-738.	15.6	300
27	B ₃ S monolayer: prediction of a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12706-12712.	5.2	59
28	Two-dimensional haeckelite h567: A promising high capacity and fast Li diffusion anode material for lithium-ion batteries. <i>Carbon</i> , 2019, 148, 344-353.	5.4	59
29	Metal-Free Oxygen Evolution and Oxygen Reduction Reaction Bifunctional Electrocatalyst in Alkaline Media: From Mechanisms to Structureâ€“Catalytic Activity Relationship. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 4973-4980.	3.2	62
30	Three-dimensional evaluation of compositional and structural changes in cycled LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ by atom probe tomography. <i>Journal of Power Sources</i> , 2018, 379, 160-166.	4.0	23
31	Hierarchically Designed 3D Holey C ₂ N Aerogels as Bifunctional Oxygen Electrodes for Flexible and Rechargeable Zn-Air Batteries. <i>ACS Nano</i> , 2018, 12, 596-608.	7.3	159
32	Adjustable Intermolecular Interactions Allowing 2D Transition Metal Dichalcogenides with Prolonged Scavenging Activity for Reactive Oxygen Species. <i>Small</i> , 2018, 14, e1800026.	5.2	30
33	Molecular layer deposition of charge-transfer complex thin films with visible-light absorption. <i>Organic Electronics</i> , 2018, 52, 237-242.	1.4	4
34	Environmental Stimuliâ€“responsive Longâ€“Term Radical Scavenging of 2D Transition Metal Dichalcogenides through Defectâ€“Mediated Hydrogen Atom Transfer in Aqueous Media. <i>Advanced Functional Materials</i> , 2018, 28, 1802737.	7.8	9
35	2D transition metal dichalcogenides with glucan multivalency for antibody-free pathogen recognition. <i>Nature Communications</i> , 2018, 9, 2549.	5.8	44
36	Solidâ€“State Rechargeable Zincâ€“Air Battery with Long Shelf Life Based on Nanoengineered Polymer Electrolyte. <i>ChemSusChem</i> , 2018, 11, 3215-3224.	3.6	55

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37	Efficiency Tuning of UVA/UVB Absorbance through Control over the Intramolecular Hydrogen Bonding of Triazine Derivatives. Bulletin of the Korean Chemical Society, 2018, 39, 858-863.	1.0	1
38	p- and n-type Doping Effects on the Electrical and Ionic Conductivities of Li ₄ Ti ₅ O ₁₂ Anode Materials. Journal of Physical Chemistry C, 2018, 122, 15155-15162.	1.5	10
39	Scalable 3-D Carbon Nitride Sponge as an Efficient Metal-Free Bifunctional Oxygen Electrocatalyst for Rechargeable Zn-Air Batteries. ACS Nano, 2017, 11, 347-357.	7.3	369
40	Theoretical evaluation of the structure-activity relationship in graphene-based electrocatalysts for hydrogen evolution reactions. RSC Advances, 2017, 7, 27033-27039.	1.7	21
41	Deciphering the Electrocatalytic Activity of Nitrogen-Doped Carbon Embedded with Cobalt Nanoparticles and the Reaction Mechanism of Triiodide Reduction in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2017, 121, 27332-27343.	1.5	18
42	Theoretical Basis of Electrocatalysis. , 0, , .		5