Gibaek Lee

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8481576/publications.pdf

Version: 2024-02-01

35	988	393982	433756
papers	citations	19 h-index	31 g-index

37	37	37	1096
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superior durability and stability of Pt electrocatalyst on N-doped graphene-TiO2 hybrid material for oxygen reduction reaction and polymer electrolyte membrane fuel cells. Applied Catalysis B: Environmental, 2020, 268, 118414.	10.8	85
2	SiO₂/TiO₂ Composite Film for High Capacity and Excellent Cycling Stability in Lithiumâ€ion Battery Anodes. Advanced Functional Materials, 2017, 27, 1703538.	7.8	82
3	Electrochemical properties of an aluminum anode in an ionic liquid electrolyte for rechargeable aluminum-ion batteries. Physical Chemistry Chemical Physics, 2017, 19, 8653-8656.	1.3	74
4	Designing a smart heterojunction coupling of cobalt-iron layered double hydroxide on nickel selenide nanosheets for highly efficient overall water splitting kinetics. Applied Catalysis B: Environmental, 2022, 308, 121221.	10.8	69
5	Superior fast-charging capability of graphite anode via facile surface treatment for lithium-ion batteries. Microporous and Mesoporous Materials, 2020, 305, 110325.	2.2	59
6	Simultaneous co-doping of RuO2 and IrO2 into anodic TiO2 nanotubes: A binary catalyst for electrochemical water splitting. International Journal of Hydrogen Energy, 2017, 42, 6657-6664.	3.8	48
7	Highly Ordered TiO₂ Microcones with High Rate Performance for Enhanced Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2016, 8, 14558-14563.	4.0	39
8	Tunable Synthesis of N,C-Codoped Ti³⁺-Enriched Titanium Oxide Support for Highly Durable PEMFC Cathode. ACS Catalysis, 2020, 10, 12080-12090.	5.5	39
9	Mo-incorporated three-dimensional hierarchical ternary nickel-cobalt-molybdenum layer double hydroxide for high-efficiency water splitting. International Journal of Hydrogen Energy, 2021, 46, 22463-22477.	3.8	39
10	Elucidating the structural redox behaviors of nanostructured expanded graphite anodes toward fast-charging and high-performance lithium-ion batteries. Carbon, 2021, 175, 187-201.	5.4	37
11	Hierarchically designed CoMo marigold flower-like 3D nano-heterostructure as an efficient electrocatalyst for oxygen and hydrogen evolution reactions. Applied Surface Science, 2021, 546, 149072.	3.1	35
12	High-Defect-Density Graphite for Superior-Performance Aluminum-Ion Batteries with Ultra-Fast Charging and Stable Long Life. Nano-Micro Letters, 2021, 13, 171.	14.4	35
13	Hypostatic instability of aluminum anode in acidic ionic liquid for aluminum-ion battery. Nanotechnology, 2018, 29, 36LT01.	1.3	31
14	A perylene-based aromatic polyimide with multiple carbonyls enabling high-capacity and stable organic lithium and sodium ion batteries. Sustainable Energy and Fuels, 2021, 5, 175-187.	2.5	31
15	In situ polymerized solid electrolytes for superior safety and stability of flexible solid-state Al-ion batteries. Energy Storage Materials, 2021, 40, 229-238.	9.5	30
16	High-performance bipolar plate of thin IrO x -coated TiO 2 nanotubes in vanadium redox flow batteries. Catalysis Today, 2017, 295, 132-139.	2.2	26
17	Large Ï€-Conjugated Condensed Perylene-Based Aromatic Polyimide as Organic Cathode for Lithium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 6511-6524.	2.5	26
18	One-dimensional hierarchical nanostructures of NiCo₂O₄, NiCo₂S₄ and NiCo₂Se₄ with superior electrocatalytic activities toward efficient oxygen evolution reaction. Nanotechnology, 2020, 31, 295405.	1.3	22

#	Article	IF	Citations
19	Stability of Metallic Current Collectors in Acidic Ionic Liquid for Rechargeable Aluminumâ€ion Batteries. ChemElectroChem, 2018, 5, 3348-3352.	1.7	21
20	Fastâ€Charging and High Volumetric Capacity Anode Based on Co₃O₄/CuO@TiO₂ Composites for Lithiumâ€ion Batteries. Chemistry - A European Journal, 2018, 24, 19045-19052.	1.7	20
21	Binder-free SnO₂â€“TiO₂ composite anode with high durability for lithium-ion batteries. RSC Advances, 2019, 9, 6589-6595.	1.7	20
22	Nitrogen-doped TiO₂(B) nanobelts enabling enhancement of electronic conductivity and efficiency of lithium-ion storage. Nanotechnology, 2020, 31, 415401.	1.3	20
23	RuO₂-Doped Anodic TiO₂Nanotubes for Water Oxidation: Single-Step Anodization vs Potential Shock Method. Journal of the Electrochemical Society, 2017, 164, H104-H111.	1.3	16
24	Boost charging lithium-ion battery using expanded graphite anode with enhanced performance. Materials Letters, 2021, 299, 130077.	1.3	16
25	In situ durability of various carbon supports against carbon corrosion during fuel starvation in a PEM fuel cell cathode. Nanotechnology, 2019, 30, 085402.	1.3	14
26	RGO-Coated TiO₂ Microcones for High-Rate Lithium-Ion Batteries. ACS Omega, 2018, 3, 10205-10210.	1.6	10
27	Electrochemical characteristics of plasma-etched black silicon as anodes for Li-ion batteries. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, 061202.	0.9	8
28	Key Anodization Factors for Determining the Formation of TiO₂Microcones vs Nanotubes. Journal of the Electrochemical Society, 2017, 164, D640-D644.	1.3	7
29	Electrochemically Surfaceâ€modified Aluminum Electrode Enabling High Performance and Ultraâ€long Cycling Life Alâ€ion Batteries. Electroanalysis, 2022, 34, 1308-1317.	1.5	7
30	Microstructural characterization of Li insertion in individual silicon nanowires. Applied Physics A: Materials Science and Processing, 2014, 117, 973-979.	1.1	6
31	CMOS-compatible metal-stabilized nanostructured Si as anodes for lithium-ion microbatteries. Nanoscale Research Letters, 2014, 9, 613.	3.1	6
32	Nb-doped TiO₂ support with enhanced durability as a cathode for polymer electrolyte membrane fuel cells. Nanotechnology, 2020, 31, 03LT01.	1.3	5
33	Fast charging with high capacity for aluminum rechargeable batteries using organic additive in an ionic liquid electrolyte. Physical Chemistry Chemical Physics, 2020, 22, 27525-27528.	1.3	5
34	Stability of Metallic Current Collectors in Acidic Ionic Liquid for Rechargeable Aluminumâ€ion Batteries. ChemElectroChem, 2018, 5, 3334-3334.	1.7	0
35	Batteries and charge storage devices based on Ï€-conjugated polymeric materials. , 2022, , 1-53.		0