Lu Gao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5806983/publications.pdf

Version: 2024-02-01

41 papers	1,711 citations	304602 22 h-index	289141 40 g-index
42 all docs	42 docs citations	42 times ranked	3289 citing authors

#	Article	IF	Citations
1	Evaluating the Stability of Co₂P Electrocatalysts in the Hydrogen Evolution Reaction for Both Acidic and Alkaline Electrolytes. ACS Energy Letters, 2018, 3, 1360-1365.	8.8	291
2	Efficiency Enhancement of InP Nanowire Solar Cells by Surface Cleaning. Nano Letters, 2013, 13, 4113-4117.	4.5	134
3	Efficient water reduction with gallium phosphide nanowires. Nature Communications, 2015, 6, 7824.	5.8	123
4	Photoelectrochemical Hydrogen Production on InP Nanowire Arrays with Molybdenum Sulfide Electrocatalysts. Nano Letters, 2014, 14, 3715-3719.	4.5	106
5	CO2 activation of ordered porous carbon CMK-1 for hydrogen storage. International Journal of Hydrogen Energy, 2008, 33, 116-123.	3.8	71
6	Highâ€Efficiency InPâ€Based Photocathode for Hydrogen Production by Interface Energetics Design and Photon Management. Advanced Functional Materials, 2016, 26, 679-686.	7.8	69
7	Influence of Rh nanoparticle size and composition on the photocatalytic water splitting performance of Rh/graphitic carbon nitride. International Journal of Hydrogen Energy, 2014, 39, 11537-11546.	3.8	67
8	A dual-templating synthesis strategy to hierarchical ZSM-5 zeolites as efficient catalysts for the methanol-to-hydrocarbons reaction. Journal of Catalysis, 2018, 361, 135-142.	3.1	66
9	Degradation Mechanisms of C6/LiFePO4 Batteries: Experimental Analyses of Calendar Aging. Electrochimica Acta, 2016, 190, 1124-1133.	2.6	65
10	Enhanced Photoresponse of FeS₂ Films: The Role of Marcasiteâ€“Pyrite Phase Junctions. Advanced Materials, 2016, 28, 9602-9607.	11.1	64
11	Enhancing the electrocatalytic activity of 2H-WS₂ for hydrogen evolution via defect engineering. Physical Chemistry Chemical Physics, 2019, 21, 6071-6079.	1.3	60
12	Temperature-dependent cycling performance and ageing mechanisms of C6/LiNi1/3Mn1/3Co1/3O2 batteries. Journal of Power Sources, 2018, 396, 444-452.	4.0	55
13	Degradation Mechanisms of C6/LiFePO4 Batteries: Experimental Analyses of Cycling-induced Aging. Electrochimica Acta, 2016, 210, 445-455.	2.6	53
14	Degradation mechanisms of C6/LiNi0.5Mn0.3Co0.2O2 Li-ion batteries unraveled by non-destructive and post-mortem methods. Journal of Power Sources, 2019, 416, 163-174.	4.0	40
15	Hemoglobin niobate composite based biosensor for efficient determination of hydrogen peroxide in a broad pH range. Biosensors and Bioelectronics, 2007, 22, 1454-1460.	5.3	37
16	Carbon-coated coreâ€“shell Li₂S@C nanocomposites as high performance cathode materials for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 1428-1433.	5.2	36
17	Degradation Mechanisms of the Graphite Electrode in C₆/LiFePO₄Batteries Unraveled by a Non-Destructive Approach. Journal of the Electrochemical Society, 2016, 163, A3016-A3021.	1.3	35
18	Stability of CoP_x Electrocatalysts in Continuous and Interrupted Acidic Electrolysis of Water. ChemElectroChem, 2018, 5, 1230-1239.	1.7	35

#	Article	IF	Citations
19	Direct synthesis of hierarchical ZSM-5 zeolite using cetyltrimethylammonium as structure directing agent for methanol-to-hydrocarbons conversion. Catalysis Science and Technology, 2017, 7, 4520-4533.	2.1	34
20	Immobilization of hemoglobin at the galleries of layered niobate HCaNbO. Biomaterials, 2005, 26, 5267-5275.	5.7	30
21	Origin of Degradation in Siâ€Based Allâ€Solidâ€State Liâ€Ion Microbatteries. Advanced Energy Materials, 2018, 8, 1801430.	10.2	29
22	Nitrogen-doping of bulk and nanotubular TiO2 photocatalysts by plasma-assisted atomic layer deposition. Applied Surface Science, 2015, 330, 476-486.	3.1	24
23	Mechanistic aspects of n-paraffins hydrocracking: Influence of zeolite morphology and acidity of Pd(Pt)/ZSM-5 catalysts. Journal of Catalysis, 2020, 389, 544-555.	3.1	24
24	Towards a quantitative determination of strain in Bragg Coherent X-ray Diffraction Imaging: artefacts and sign convention in reconstructions. Scientific Reports, 2019, 9, 17357.	1.6	23
25	BSAâ€“rGO nanocomposite hydrogel formed by UV polymerization and in situ reduction applied as biosensor electrode. Journal of Materials Chemistry B, 2013, 1, 5393.	2.9	22
26	Preparation and photoelectrochemical properties of nitrogen doped nanotubular TiO2 arrays. Applied Surface Science, 2013, 282, 174-180.	3.1	20
27	Selective Determination of Dopamine in the Presence of Ascorbic Acid at Porousâ€Carbonâ€Modified Glassy Carbon Electrodes. Electroanalysis, 2008, 20, 1159-1166.	1.5	16
28	On the origin of the photocurrent of electrochemically passivated p-InP(100) photoelectrodes. Physical Chemistry Chemical Physics, 2018, 20, 14242-14250.	1.3	14
29	Crystallographic orientation of facets and planar defects in functional nanostructures elucidated by nano-focused coherent diffractive X-ray imaging. Nanoscale, 2018, 10, 4833-4840.	2.8	14
30	Twin boundary migration in an individual platinum nanocrystal during catalytic CO oxidation. Nature Communications, 2021, 12, 5385.	5.8	14
31	In situstructural evolution of single particle model catalysts under ambient pressure reaction conditions. Nanoscale, 2019, 11, 331-338.	2.8	10
32	Reactor for nano-focused x-ray diffraction and imaging under catalytic in situ conditions. Review of Scientific Instruments, 2017, 88, 093902.	0.6	7
33	A novel kind of porous carbon nitride using H-magadiite as the template. Materials Letters, 2008, 62, 2520-2523.	1.3	5
34	Cu Electrodeposition on Nanostructured MoS₂ and WS₂ and Implications for HER Active Site Determination. Journal of the Electrochemical Society, 2020, 167, 116517.	1.3	5
35	Size dependence of photocatalytic oxidation reactions of Rh nanoparticles dispersed on (Ga1-xZnx)(N1-xOx) support. Chinese Journal of Catalysis, 2014, 35, 1944-1954.	6.9	4
36	Facetâ€Dependent Strain Determination in Electrochemically Synthetized Platinum Model Catalytic Nanoparticles. Small, 2021, 17, e2007702.	5.2	4

#	Article	IF	Citations
37	Hemoglobinâ€Titanate Composite Based Biosensor for the Amperometric Determination of Hydrogen Peroxide in Acidic Medium. Electroanalysis, 2009, 21, 904-908.	1.5	2
38	Co-intercalation of myoglobin and Eu3+ ions into the gallery of layered titanate: Preparation, structures as well as enzymatic and photoluminescent properties. Microporous and Mesoporous Materials, 2008, 109, 12-20.	2.2	1
39	Kinetic Study of Homogeneously Mediated Electrode Reactions in Glucose-Based BioFuel Cells. ECS Transactions, 2014, 48, 59-71.	0.3	1
40	Immobilization of Hemoglobin at the Galleries of Layered Lepidocrocite-Related Potassium Lithium Titanate. Journal of Nanoscience and Nanotechnology, 2009, 9, 1615-1618.	0.9	0
41	Photoelectrochemistry: Enhanced Photoresponse of FeS2 Films: The Role of Marcasite-Pyrite Phase Junctions (Adv. Mater. 43/2016). Advanced Materials, 2016, 28, 9656-9656.	11.1	0