

Yijin Kang

List of Publications by Year in descending order

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papers

6,203
citations

172457

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docs citations

44
times ranked

8741
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Crystalline Multimetallic Nanoframes with Three-Dimensional Electrocatalytic Surfaces. <i>Science</i> , 2014, 343, 1339-1343.	12.6	2,376
2	Two-dimensional copper nanosheets for electrochemical reduction of carbon monoxide to acetate. <i>Nature Catalysis</i> , 2019, 2, 423-430.	34.4	368
3	Synthesis and Electrocatalytic Properties of Cubic Mn [~] Pt Nanocrystals (Nanocubes). <i>Journal of the American Chemical Society</i> , 2010, 132, 7568-7569.	13.7	341
4	Synthesis, Shape Control, and Methanol Electro-oxidation Properties of Pt ₃ Zn Alloy and Pt ₃ Zn Intermetallic Nanocrystals. <i>ACS Nano</i> , 2012, 6, 5642-5647.	14.6	273
5	Size- and Shape-Selective Synthesis of Metal Nanocrystals and Nanowires Using CO as a Reducing Agent. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6156-6159.	13.8	195
6	Design of Pt-Pd Binary Superlattices Exploiting Shape Effects and Synergistic Effects for Oxygen Reduction Reactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 42-45.	13.7	180
7	Highly Active Pt ₃ Pb and Core-Shell Pt ₃ Pb-Pt Electrocatalysts for Formic Acid Oxidation. <i>ACS Nano</i> , 2012, 6, 2818-2825.	14.6	177
8	Promoting Formation of Oxygen Vacancies in Two-Dimensional Cobalt-Doped Ceria Nanosheets for Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020, 142, 6461-6466.	13.7	168
9	Synthesis and Oxygen Storage Capacity of Two-Dimensional Ceria Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4378-4381.	13.8	164
10	Shape-Controlled Synthesis of Pt Nanocrystals: The Role of Metal Carbonyls. <i>ACS Nano</i> , 2013, 7, 645-653.	14.6	162
11	Atomic Fe Dispersed Hierarchical Mesoporous Fe-N-C Nanostructures for an Efficient Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2021, 11, 74-81.	11.2	147
12	Alternative route for electrochemical ammonia synthesis by reduction of nitrate on copper nanosheets. <i>Applied Materials Today</i> , 2020, 19, 100620.	4.3	144
13	Hierarchical Mesoporous MXene-NiCoP Electrocatalyst for Water-Splitting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18570-18577.	8.0	137
14	Shaping electrocatalysis through tailored nanomaterials. <i>Nano Today</i> , 2016, 11, 587-600.	11.9	133
15	Engineering Catalytic Contacts and Thermal Stability: Gold/Iron Oxide Binary Nanocrystal Superlattices for CO Oxidation. <i>Journal of the American Chemical Society</i> , 2013, 135, 1499-1505.	13.7	122
16	Heterogeneous Catalysts Need Not Be so Heterogeneous: Monodisperse Pt Nanocrystals by Combining Shape-Controlled Synthesis and Purification by Colloidal Recrystallization. <i>Journal of the American Chemical Society</i> , 2013, 135, 2741-2747.	13.7	105
17	Phosphorized MXene-Phase Molybdenum Carbide as an Earth-Abundant Hydrogen Evolution Electrocatalyst. <i>ACS Applied Energy Materials</i> , 2018, 1, 7206-7212.	5.1	88
18	Optimizing the Spin States of Mesoporous Co ₃ O ₄ Nanorods through Vanadium Doping for Long-Lasting and Flexible Rechargeable Zn-Air Batteries. <i>ACS Catalysis</i> , 2021, 11, 8097-8103.	11.2	84

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19	Interlayered Dendrite-Free Lithium Plating for High-Performance Lithium-Metal Batteries. <i>Advanced Materials</i> , 2019, 31, e1901662.	21.0	78
20	Multifunctional covalent organic frameworks for high capacity and dendrite-free lithium metal batteries. <i>Energy Storage Materials</i> , 2020, 25, 334-341.	18.0	77
21	Sodium Deposition with a Controlled Location and Orientation for Dendrite-Free Sodium Metal Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2002308.	19.5	69
22	SnO ₂ Quantum Dots Enabled Site-Directed Sodium Deposition for Stable Sodium Metal Batteries. <i>Nano Letters</i> , 2021, 21, 816-822.	9.1	46
23	Advances in the Interfacial Assembly of Mesoporous Silica on Magnetite Particles. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15804-15817.	13.8	45
24	Interfacial engineering of Ni/V ₂ O ₃ for hydrogen evolution reaction. <i>Nano Research</i> , 2020, 13, 2407-2412.	10.4	41
25	Catalyst design by scanning probe block copolymer lithography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3764-3769.	7.1	40
26	Nanoporous V-Doped Ni ₅ P ₄ Microsphere: A Highly Efficient Electrocatalyst for Hydrogen Evolution Reaction at All pH. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37092-37099.	8.0	40
27	Scalable Chemical Interface Confinement Reduction BiOBr to Bismuth Porous Nanosheets for Electroreduction of Carbon Dioxide to Liquid Fuel. <i>Advanced Functional Materials</i> , 2022, 32, 2107182.	14.9	40
28	Three-dimensional carbon material as stable host for dendrite-free lithium metal anodes. <i>Electrochimica Acta</i> , 2019, 301, 251-257.	5.2	32
29	Electrochemical biomass upgrading on CoOOH nanosheets in a hybrid water electrolyzer. <i>Green Chemistry</i> , 2021, 23, 2525-2530.	9.0	31
30	Exploiting dynamic water structure and structural sensitivity for nanoscale electrocatalyst design. <i>Nano Energy</i> , 2019, 64, 103963.	16.0	30
31	Nanoscale Chemical and Structural Analysis during <i>In Situ</i> Scanning/Transmission Electron Microscopy in Liquids. <i>ACS Nano</i> , 2021, 15, 10228-10240.	14.6	29
32	Electrochemical reduction of CO ₂ towards multi-carbon products <i>via</i> a two-step process. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 612-628.	3.7	28
33	Decomposition of Hydrogen Peroxide Catalyzed by AuPd Nanocatalysts during Methane Oxidation to Methanol. <i>ACS Catalysis</i> , 2020, 10, 5115-5123.	11.2	25
34	Thermodynamic Regulation of Dendrite-Free Li Plating on Li ₃ Bi for Stable Lithium Metal Batteries. <i>Nano Letters</i> , 2021, 21, 8664-8670.	9.1	25
35	Two-Dimensional Pd Rafts Confined in Copper Nanosheets for Selective Semihydrogenation of Acetylene. <i>Nano Letters</i> , 2021, 21, 5620-5626.	9.1	18
36	V ₂ O ₃ /MnS Arrays as Bifunctional Air Electrode for Long-Lasting and Flexible Rechargeable Zn-Air Batteries. <i>Small</i> , 2022, 18, e2104411.	10.0	16

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37	Can carbon sponge be used as separator in Li metal batteries?. <i>Energy Storage Materials</i> , 2021, 36, 108-114.	18.0	14
38	Multifunctional Yolk-Shell Structured Magnetic Mesoporous Polydopamine/Carbon Microspheres for Photothermal Therapy and Heterogenous Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23888-23895.	8.0	14
39	Mechanism and Kinetics of Methane Oxidation to Methanol Catalyzed by AuPd Nanocatalysts at Low Temperature. <i>ACS Catalysis</i> , 2021, 11, 2837-2845.	11.2	12
40	Chemical upgrade of carbon monoxide to acetate on an atomically dispersed copper catalyst via CO-insertion. <i>Materials Today Physics</i> , 2021, 19, 100418.	6.0	12
41	Alternately Dipping Method to Prepare Graphene Fiber Electrodes for Ultra-high-Capacitance Fiber Supercapacitors. <i>IScience</i> , 2020, 23, 101396.	4.1	10
42	Low-Temperature Molten Salt Synthesis for Ligand-Free Transition Metal Oxide Nanoparticles. <i>ACS Applied Energy Materials</i> , 2020, 3, 3984-3990.	5.1	6