

Mingxing Gong

List of Publications by Year in descending order

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40
papers

2,076
citations

172457

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315739

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40
all docs

40
docs citations

40
times ranked

2487
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances of Structurally Ordered Intermetallic Nanoparticles for Electrocatalysis. ACS Catalysis, 2018, 8, 3237-3256.	11.2	245
2	Autocatalysis and Selective Oxidative Etching Induced Synthesis of Platinum-Copper Bimetallic Alloy Nanodendrites Electrocatalysts. ACS Applied Materials & Interfaces, 2014, 6, 7301-7308.	8.0	166
3	One-Nanometer-Thick Pt ₃ Ni Bimetallic Alloy Nanowires Advanced Oxygen Reduction Reaction: Integrating Multiple Advantages into One Catalyst. ACS Catalysis, 2019, 9, 4488-4494.	11.2	126
4	Optimizing the ORR activity of Pd based nanocatalysts by tuning their strain and particle size. Journal of Materials Chemistry A, 2017, 5, 9867-9872.	10.3	98
5	Golden Palladium Zinc Ordered Intermetallics as Oxygen Reduction Electrocatalysts. ACS Nano, 2019, 13, 5968-5974.	14.6	83
6	Structure evolution of PtCu nanoframes from disordered to ordered for the oxygen reduction reaction. Applied Catalysis B: Environmental, 2021, 282, 119617.	20.2	80
7	Turning Waste into Treasure: Regulating the Oxygen Corrosion on Fe Foam for Efficient Electrocatalysis. Small, 2020, 16, e2000663.	10.0	76
8	Tailoring the Antipoisoning Performance of Pd for Formic Acid Electrooxidation via an Ordered PdBi Intermetallic. ACS Catalysis, 2020, 10, 9977-9985.	11.2	75
9	Sulphur modulated Ni ₃ FeN supported on N/S co-doped graphene boosts rechargeable/flexible Zn-air battery performance. Applied Catalysis B: Environmental, 2020, 274, 119086.	20.2	73
10	Hierarchical Bimetallic Ni-Co-P Microflowers with Ultrathin Nanosheet Arrays for Efficient Hydrogen Evolution Reaction over All pH Values. ACS Applied Materials & Interfaces, 2019, 11, 42233-42242.	8.0	70
11	Transforming Damage into Benefit: Corrosion Engineering Enabled Electrocatalysts for Water Splitting. Advanced Functional Materials, 2021, 31, 2009032.	14.9	70
12	Atomic rearrangement from disordered to ordered Pd-Fe nanocatalysts with trace amount of Pt decoration for efficient electrocatalysis. Nano Energy, 2018, 50, 70-78.	16.0	66
13	Self-Optimized Ligand Effect in L1 ₂ -PtPdFe Intermetallic for Efficient and Stable Alkaline Hydrogen Oxidation Reaction. ACS Catalysis, 2020, 10, 15207-15216.	11.2	64
14	In situ coupling of NiFe nanoparticles with N-doped carbon nanofibers for Zn-air batteries driven water splitting. Applied Catalysis B: Environmental, 2021, 285, 119856.	20.2	60
15	Highly active and durable platinum-lead bimetallic alloy nanoflowers for formic acid electrooxidation. Nanoscale, 2015, 7, 4894-4899.	5.6	50
16	Bimetallic Nanoparticle Oxidation in Three Dimensions by Chemically Sensitive Electron Tomography and <i>In Situ</i> Transmission Electron Microscopy. ACS Nano, 2018, 12, 7866-7874.	14.6	49
17	Highly active N-doped carbon encapsulated Pd-Fe intermetallic nanoparticles for the oxygen reduction reaction. Nano Research, 2020, 13, 2365-2370.	10.4	44
18	Facile self-template fabrication of hierarchical nickel-cobalt phosphide hollow nanoflowers with enhanced hydrogen generation performance. Science Bulletin, 2019, 64, 1675-1684.	9.0	43

#	ARTICLE	IF	CITATIONS
19	Recent advances on metal alkoxide-based electrocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10130-10149.	10.3	43
20	Tuning the electrocatalytic activity of Pt by structurally ordered PdFe/C for the hydrogen oxidation reaction in alkaline media. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11346-11352.	10.3	41
21	3D Spatial Combination of CN Vacancy-Mediated NiFe@PBA with N-Doped Carbon Nanofibers Network Toward Free-Standing Bifunctional Electrode for Zn-Air Batteries. <i>Advanced Science</i> , 2022, 9, e2105925.	11.2	40
22	Electronic structure and oxophilicity optimization of mono-layer Pt for efficient electrocatalysis. <i>Nano Energy</i> , 2020, 74, 104877.	16.0	39
23	Molybdenum-doped titanium dioxide supported low-Pt electrocatalyst for highly efficient and stable hydrogen evolution reaction. <i>Chinese Chemical Letters</i> , 2021, 32, 765-769.	9.0	38
24	Kinetically Accelerated Lithium Storage in High-Entropy (LiMgCoNiCuZn)O Enabled By Oxygen Vacancies. <i>Small</i> , 2022, 18, e2200524.	10.0	37
25	Boosting alkaline hydrogen electrooxidation on an unconventional fcc-Ru polycrystal. <i>Journal of Energy Chemistry</i> , 2021, 61, 15-22.	12.9	36
26	Revealing the role of mo doping in promoting oxygen reduction reaction performance of Pt ₃ Co nanowires. <i>Journal of Energy Chemistry</i> , 2022, 66, 16-23.	12.9	36
27	Ultrafine Ni-B nanoparticles for efficient hydrogen evolution reaction. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1867-1873.	14.0	33
28	Optimizing PtFe intermetallics for oxygen reduction reaction: from DFT screening to <i>in situ</i> XAFS characterization. <i>Nanoscale</i> , 2019, 11, 20301-20306.	5.6	33
29	Hollow and porous palladium nanocrystals: synthesis and electrocatalytic application. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21995-21999.	10.3	31
30	Surface engineering of PdFe ordered intermetallics for efficient oxygen reduction electrocatalysis. <i>Chemical Engineering Journal</i> , 2021, 408, 127297.	12.7	27
31	Platinum-copper alloy nanocrystals supported on reduced graphene oxide: One-pot synthesis and electrocatalytic applications. <i>Carbon</i> , 2015, 91, 338-345.	10.3	20
32	Optimizing Formic Acid Electro-oxidation Performance by Restricting the Continuous Pd Sites in Pd-Sn Nanocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12239-12247.	6.7	20
33	Corrosion-assisted large-scale production of hierarchical iron rusts/Ni(OH) ₂ nanosheet-on-microsphere arrays for efficient electrocatalysis. <i>Electrochimica Acta</i> , 2020, 353, 136478.	5.2	17
34	Regulated iron corrosion towards fabricating large-area self-supporting electrodes for efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 0, , .	10.3	14
35	Engineering Location and Supports of Atomically Ordered <i>L1</i> -PdFe Intermetallics for Ultra-Anticorrosion Electrocatalysis. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	11
36	Coupling isolated Ni single atoms with sub-10 nm Pd nanocrystals embedded in porous carbon frameworks to boost oxygen electrocatalysis for Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6086-6095.	10.3	9

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37	Facile synthesis and electrocatalytic application of phosphonate functionalized platinum nanodendrites. CrystEngComm, 2013, 15, 8929.	2.6	6
38	Ethylenediamine tetramethylene phosphonic acid assisted synthesis of palladium nanocubes and their electrocatalysis of formic acid oxidation. Journal of Solid State Electrochemistry, 2017, 21, 1297-1303.	2.5	4
39	Atomic Modulation Engineering of Hexagon-Shaped CeO ₂ Nanocrystals by <i>In Situ</i> Sculpturing of an Electron Beam. Journal of Physical Chemistry C, 2020, 124, 17006-17014.	3.1	3
40	Electron Tomography Reveals Porosity Degradation Spatially on Individual Pt-Based Nanocatalysts. ACS Applied Materials & Interfaces, 2022, 14, 25366-25373.	8.0	0