Xiaoming Ge

List of Publications by Year
in descending order

47 papers	6,400 citations	186265 28 h-index	214800 47 g-index
47 all docs	47 docs citations	47 times ranked	9423 citing authors

#	ARTICLE	IF	CITATIONS
1	Molybdenum phosphide as an efficient electrocatalyst for the hydrogen evolution reaction. Energy and Environmental Science, 2014, 7, 2624-2629.	30.8	1,164
2	Oxygen Reduction in Alkaline Media: From Mechanisms to Recent Advances of Catalysts. ACS Catalysis, 2015, 5, 4643-4667.	11.2	1,022
3	Facile synthesis of low crystalline MoS2 nanosheet-coated CNTs for enhanced hydrogen evolution reaction. Nanoscale, 2013, 5, 7768.	5.6	426
4	Ultrathin MoS₂ Nanoplates with Rich Active Sites as Highly Efficient Catalyst for Hydrogen Evolution. ACS Applied Materials & Interfaces, 2013, 5, 12794-12798.	8.0	392
5	Novel Molybdenum Carbideâ€"Tungsten Carbide Composite Nanowires and Their Electrochemical Activation for Efficient and Stable Hydrogen Evolution. Advanced Functional Materials, 2015, 25, 1520-1526.	14.9	325
6	Dual-Phase Spinel MnCo₂O₄and Spinel MnCo₂O₄/Nanocarbon Hybrids for Electrocatalytic Oxygen Reduction and Evolution. ACS Applied Materials & Interfaces, 2014, 6, 12684-12691.	8.0	322
7	A metal-free ORR/OER bifunctional electrocatalyst derived from metal-organic frameworks for rechargeable Zn-Air batteries. Carbon, 2017, 111, 641-650.	10.3	304
8	A Flexible Electrode Based on Iron Phosphide Nanotubes for Overall Water Splitting. Chemistry - A European Journal, 2015, 21, 18062-18067.	3.3	228
9	Co₃O₄ nanoparticles decorated carbon nanofiber mat as binder-free air-cathode for high performance rechargeable zinc-air batteries. Nanoscale, 2015, 7, 1830-1838.	5.6	226
10	Investigation of molybdenum carbide nano-rod as an efficient and durable electrocatalyst for hydrogen evolution in acidic and alkaline media. Applied Catalysis B: Environmental, 2014, 154-155, 232-237.	20.2	183
11	Construction of Efficient 3D Gas Evolution Electrocatalyst for Hydrogen Evolution: Porous FeP Nanowire Arrays on Graphene Sheets. Advanced Science, 2015, 2, 1500120.	11.2	163
12	A Robust Hybrid Zn-Battery with Ultralong Cycle Life. Nano Letters, 2017, 17, 156-163.	9.1	138
13	Ag nanoparticle-modified MnO2 nanorods catalyst for use as an air electrode in zincâ€"air battery. Electrochimica Acta, 2013, 114, 598-604.	5.2	134
14	Durable rechargeable zinc-air batteries with neutral electrolyte and manganese oxide catalyst. Journal of Power Sources, 2016, 332, 330-336.	7.8	129
15	A Near-Neutral Chloride Electrolyte for Electrically Rechargeable Zinc-Air Batteries. Journal of the Electrochemical Society, 2014, 161, A2080-A2086.	2.9	121
16	Mussel-inspired one-pot synthesis of transition metal and nitrogen co-doped carbon (M/Nâ€"C) as efficient oxygen catalysts for Zn-air batteries. Nanoscale, 2016, 8, 5067-5075.	5.6	109
17	Eggplant-derived microporous carbon sheets: towards mass production of efficient bifunctional oxygen electrocatalysts at low cost for rechargeable Znâ€"air batteries. Chemical Communications, 2015, 51, 8841-8844.	4.1	104
18	Efficient and durable oxygen reduction and evolution of a hydrothermally synthesized La(Co_{0.55}Mn_{0.45})_{0.99}O_{3âˆ'Î´} nanorod/graphene hybrid in alkaline media. Nanoscale, 2015, 7, 9046-9054.	5.6	86

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19	Co@Co₃O₄@PPD Core@bishell Nanoparticleâ€Based Composite as an Efficient Electrocatalyst for Oxygen Reduction Reaction. Small, 2016, 12, 2580-2587.	10.0	86
20	Acrylamide-derived freestanding polymer gel electrolyte for flexible metal-air batteries. Journal of Power Sources, 2018, 400, 566-571.	7.8	83
21	Pd Nanoparticles on Carbon Nitrideâ€“Graphene for the Selective Electro-Oxidation of Glycerol in Alkaline Solution. ACS Catalysis, 2015, 5, 3174-3180.	11.2	80
22	Manganese Oxide Catalyst Grown on Carbon Paper as an Air Cathode for Highâ€Performance Rechargeable Zincâ€“Air Batteries. ChemPlusChem, 2015, 80, 1341-1346.	2.8	65
23	Intrinsically Conductive Perovskite Oxides with Enhanced Stability and Electrocatalytic Activity for Oxygen Reduction Reactions. ACS Catalysis, 2016, 6, 7865-7871.	11.2	51
24	Invisible growth of microstructural defects in graphene chemical vapor deposition on copper foil. Carbon, 2016, 96, 237-242.	10.3	43
25	Progress in development of flexible metalâ€“air batteries. Functional Materials Letters, 2016, 09, 1630001.	1.2	41
26	Facile One-Pot Synthesis of CoFe Alloy Nanoparticles Decorated N-Doped Carbon for High-Performance Rechargeable Zincâ€“Air Battery Stacks. ACS Sustainable Chemistry and Engineering, 2018, 6, 7743-7751.	6.7	41
27	Co₃O₄nanoparticles grown on N-doped Vulcan carbon as a scalable bifunctional electrocatalyst for rechargeable zincâ€“air batteries. RSC Advances, 2015, 5, 75773-75780.	3.6	39
28	Ni/NiO_x-decorated carbon nanofibers with enhanced oxygen evolution activity for rechargeable zincâ€“air batteries. Materials Chemistry Frontiers, 2017, 1, 677-682.	5.9	29
29	Robust solid oxide cells for alternate power generation and carbon conversion. RSC Advances, 2011, 1, 715.	3.6	28
30	Copperâ€Modified Gold Nanoparticles as Highly Selective Catalysts for Glycerol Electroâ€Oxidation in Alkaline Solution. ChemCatChem, 2016, 8, 3272-3278.	3.7	28
31	Sheetâ€onâ€Sheet Hierarchical Nanostructured C@MnO₂ for Znâ€Air and Znâ€MnO₂ Batteries. ChemNanoMat, 2017, 3, 401-405.	2.8	24
32	Improving the Electrochemical Oxygen Reduction Activity of Manganese Oxide Nanosheets with Sulfurizationâ€Induced Nanopores. ChemCatChem, 2018, 10, 422-429.	3.7	23
33	Double layer capacitance of anode/solid-electrolyte interfaces. Physical Chemistry Chemical Physics, 2011, 13, 15134.	2.8	22
34	Selective electro-oxidation of glycerol over Au supported on extended poly(4-vinylpyridine) functionalized graphene. Applied Catalysis B: Environmental, 2015, 166-167, 25-31.	20.2	21
35	Mechanism of SiOx particles formation during CVD graphene growth on Cu substrates. Carbon, 2018, 139, 989-998.	10.3	21
36	H2 and CH4 oxidation on Gd0.2Ce0.8O1.9 infiltrated SrMoO3â€“yttria-stabilized zirconia anode for solid oxide fuel cells. International Journal of Hydrogen Energy, 2012, 37, 18349-18356.	7.1	16

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37	Sr1â^'Ca MoO3â€“Gd0.2Ce0.8O1.9 as the anode in solid oxide fuel cells: Effects of Mo precipitation. Journal of Alloys and Compounds, 2014, 587, 326-331.	5.5	16
38	Edge morphology evolution of graphene domains during chemical vapor deposition cooling revealed through hydrogen etching. Nanoscale, 2016, 8, 4145-4150.	5.6	16
39	Effects of carbon-based impurities on graphene growth. Physical Chemistry Chemical Physics, 2018, 20, 15419-15423.	2.8	11
40	Porous calciumâ€“manganese oxide/carbon nanotube microspheres as efficient oxygen reduction catalysts for rechargeable zincâ€“air batteries. Inorganic Chemistry Frontiers, 2021, 8, 2052-2060.	6.0	10
41	Three phase boundaries and electrochemically active zones of lanthanum strontium vanadateâ€“yttria-stabilized zirconia anodes in solid oxide fuel cells. Electrochimica Acta, 2011, 56, 5947-5953.	5.2	9
42	Nanostructured Perovskite LaCo_{1-x}Mn_xO₃ as Bifunctional Catalysts for Rechargeable Metalâ€“Air Batteries. Journal of Molecular and Engineering Materials, 2015, 03, 1540006.	1.8	5
43	Double layer structure in solid oxide fuel cell anode/electrolyte interfaces: A Monte Carlo study. Electrochemistry Communications, 2011, 13, 792-795.	4.7	4
44	Thermal-assisted direct transfer of graphene onto flexible substrates. Materials Letters, 2018, 229, 252-255.	2.6	4
45	A nanostructured nickel/carbon matrix as an efficient oxygen evolution reaction electrocatalyst for rechargeable zincâ€“air batteries. Inorganic Chemistry Frontiers, 2019, 6, 1873-1880.	6.0	4
46	Impedance Identification of Lanthanum Strontium Vanadate Anode in H2-H2O-He Atmosphere. ECS Transactions, 2009, 25, 2249-2258.	0.5	2
47	Re-nucleation and Etching of Graphene During the Cooling Stage of Chemical Vapor Deposition. Journal of Electronic Materials, 2019, 48, 1740-1745.	2.2	2