Enbo Zhu

List of Publications by Year in Descending Order

37 papers	5,881 citations	24 h-index	39 g-index
39 ext. papers	6,870 ext. citations	16.8 avg, IF	5.48 L-index

#	Paper	IF	Citations
37	Optimized MoP with Pseudo-Single-Atom Tungsten for Efficient Hydrogen Electrocatalysis. *Chemistry of Materials*, **2021**, 33, 3639-3649	9.6	4
36	Direct correlation of oxygen adsorption on platinum-electrolyte interfaces with the activity in the oxygen reduction reaction. *Science Advances*, **2021**, 7,	14.3	11
35	Atomic Regulation of PGM Electrocatalysts for the Oxygen Reduction Reaction. *Frontiers in Chemistry*, **2021**, 9, 699861	5	1
34	Highly Reliable Low-Voltage Memristive Switching and Artificial Synapse Enabled by van der Waals Integration. *Matter*, **2020**, 2, 965-976	12.7	22
33	Tungsten as Adhesive in Pt2CuW0.25 Ternary Alloy for Highly Durable Oxygen Reduction Electrocatalysis. *Advanced Functional Materials*, **2020**, 30, 1908230	15.6	32
32	Heterojunction-Type Photocatalytic System Based on Inorganic Halide Perovskite CsPbBr3 *Chinese Journal of Chemistry*, **2020**, 38, 1718-1722	4.9	9
31	Enhancement of oxygen reduction reaction activity by grain boundaries in platinum nanostructures. *Nano Research*, **2020**, 13, 3310-3314	10	8
30	Peptide-Assisted 2-D Assembly toward Free-Floating Ultrathin Platinum Nanoplates as Effective Electrocatalysts. *Nano Letters*, **2019**, 19, 3730-3736	11.5	31
29	Hollow Loofah-Like N, O-Co-Doped Carbon Tube for Electrocatalysis of Oxygen Reduction. *Advanced Functional Materials*, **2019**, 29, 1900015	15.6	44
28	Long-Range Hierarchical Nanocrystal Assembly Driven by Molecular Structural Transformation. *Journal of the American Chemical Society*, **2019**, 141, 1498-1505	16.4	14
27	Maximizing the Current Output in Self-Aligned Graphene-InAs-Metal Vertical Transistors. *ACS Nano*, **2019**, 13, 847-854	16.7	14
26	Monolayer atomic crystal molecular superlattices. *Nature*, **2018**, 555, 231-236	50.4	220
25	Few-Layer GeAs Field-Effect Transistors and Infrared Photodetectors. *Advanced Materials*, **2018**, 30, e1705934	24	69
24	Building two-dimensional materials one row at a time: Avoiding the nucleation barrier. *Science*, **2018**, 362, 1135-1139	33.3	105
23	Approaching the Schottky-Mott limit in van der Waals metal-semiconductor junctions. *Nature*, **2018**, 557, 696-700	50.4	766
22	Pushing the Performance Limit of Sub-100 nm Molybdenum Disulfide Transistors. *Nano Letters*, **2016**, 16, 6337-6342	11.5	91
21	Ultrafine jagged platinum nanowires enable ultrahigh mass activity for the oxygen reduction reaction. *Science*, **2016**, 354, 1414-1419	33.3	986

20	In situ development of highly concave and composition-confined PtNi octahedra with high oxygen reduction reaction activity and durability. *Nano Research*, **2016**, 9, 149-157	10	52
19	Morphology and Phase Controlled Construction of Pt-Ni Nanostructures for Efficient Electrocatalysis. *Nano Letters*, **2016**, 16, 2762-7	11.5	150
18	Toward barrier free contact to molybdenum disulfide using graphene electrodes. *Nano Letters*, **2015**, 15, 3030-4	11.5	286
17	Pt x Cu y nanocrystals with hexa-pod morphology and their electrocatalytic performances towards oxygen reduction reaction. *Nano Research*, **2015**, 8, 3342-3352	10	16
16	Seedless Growth of Palladium Nanocrystals with Tunable Structures: From Tetrahedra to Nanosheets. *Nano Letters*, **2015**, 15, 7519-25	11.5	68
15	Near-Infrared Plasmonic-Enhanced Solar Energy Harvest for Highly Efficient Photocatalytic Reactions. *Nano Letters*, **2015**, 15, 6295-301	11.5	202
14	ELECTROCHEMISTRY. High-performance transition metal-doped PtNi octahedra for oxygen reduction reaction. *Science*, **2015**, 348, 1230-4	33.3	1307
13	Synthesis of Stable Shape-Controlled Catalytically Active Palladium Hydride. *Journal of the American Chemical Society*, **2015**, 137, 15672-5	16.4	75
12	A rational design of carbon-supported dispersive Pt-based octahedra as efficient oxygen reduction reaction catalysts. *Energy and Environmental Science*, **2014**, 7, 2957-2962	35.4	147
11	Graphene-hemin hybrid material as effective catalyst for selective oxidation of primary C-H bond in toluene. *Scientific Reports*, **2013**, 3,	4.9	40
10	Gold clusters alloyed to nanoporous palladium surfaces as highly active bimetallic oxidation catalysts. *ChemSusChem*, **2013**, 6, 1868-72	8.3	2
9	Biomimetic synthesis of an ultrathin platinum nanowire network with a high twin density for enhanced electrocatalytic activity and durability. *Angewandte Chemie - International Edition*, **2013**, 52, 12577-81	16.4	164
8	Monodisperse Cu@PtCu nanocrystals and their conversion into hollow-PtCu nanostructures for methanol oxidation. *Journal of Materials Chemistry A*, **2013**, 1, 14449	13	57
7	Palladium-based nanostructures with highly porous features and perpendicular pore channels as enhanced organic catalysts. *Angewandte Chemie - International Edition*, **2013**, 52, 2520-4	16.4	135
6	A facile strategy to Pt3Ni nanocrystals with highly porous features as an enhanced oxygen reduction reaction catalyst. *Advanced Materials*, **2013**, 25, 2974-9	24	211
5	Tailoring molecular specificity toward a crystal facet: a lesson from biorecognition toward Pt{111}. *Nano Letters*, **2013**, 13, 840-6	11.5	95
4	Biomimetic Synthesis of an Ultrathin Platinum Nanowire Network with a High Twin Density for Enhanced Electrocatalytic Activity and Durability. *Angewandte Chemie*, **2013**, 125, 12809-12813	3.6	18
3	Stabilization of high-performance oxygen reduction reaction Pt electrocatalyst supported on reduced graphene oxide/carbon black composite. *Journal of the American Chemical Society*, **2012**, 134, 12326-9	16.4	400

2	Spontaneous crystallization of a new chiral open-framework borophosphate in the ionothermal system. *Dalton Transactions*, **2010**, 39, 1713-5	4.3	24
1	Stability of Platinum-Group-Metal-based Electrocatalysts in Proton Exchange Membrane Fuel Cells. *Advanced Functional Materials*,2203883	15.6	0