Jun Zhang

List of Publications by Year
in descending order

33 papers	1,812 citations	279701 23 h-index	395590 33 g-index
33 all docs	33 docs citations	33 times ranked	2988 citing authors

#	Article	IF	Citations
1	Solutionâ€Based Evolution and Enhanced Methanol Oxidation Activity of Monodisperse Platinumâ€“Copper Nanocubes. Angewandte Chemie - International Edition, 2009, 48, 4217-4221.	7.2	367
2	Enhancing by Weakening: Electrooxidation of Methanol on Pt₃Co and Pt Nanocubes. Angewandte Chemie - International Edition, 2010, 49, 6848-6851.	7.2	183
3	Investigation of catalytic mechanism of formaldehyde oxidation over three-dimensionally ordered macroporous Au/CeO2 catalyst. Applied Catalysis B: Environmental, 2012, 111-112, 467-475.	10.8	118
4	Three-dimensionally ordered macroporous Au/CeO2â€“Co3O4 catalysts with mesoporous walls for enhanced CO preferential oxidation in H2-rich gases. Journal of Catalysis, 2012, 296, 65-76.	3.1	105
5	Novel recyclable dual-heterostructured Fe₃O₄@CeO₂/M (M = Pt,) Tj ETQq1 1 0.784314 rgBT /O Materials Chemistry A, 2015, 3, 139-147.	5.2	103
6	Hierarchical structure based on Pd(Au) nanoparticles grafted onto magnetite cores and double layered shells: enhanced activity for catalytic applications. Journal of Materials Chemistry A, 2013, 1, 12732.	5.2	88
7	Universal Strategy to Fabricate a Two-Dimensional Layered Mesoporous Mo₂C Electrocatalyst Hybridized on Graphene Sheets with High Activity and Durability for Hydrogen Generation. ACS Applied Materials & Interfaces, 2016, 8, 18107-18118.	4.0	71
8	Improvement of catalytic performance of preferential oxidation of CO in H2-rich gases on three-dimensionally ordered macro- and meso-porous Ptâ€“Au/CeO2 catalysts. Applied Catalysis B: Environmental, 2013, 142-143, 615-625.	10.8	62
9	2D Layered non-precious metal mesoporous electrocatalysts for enhanced oxygen reduction reaction. Journal of Materials Chemistry A, 2017, 5, 4868-4878.	5.2	59
10	Understanding the forces acting in self-assembly and the implications for constructing three-dimensional (3D) supercrystals. Nano Research, 2015, 8, 2445-2466.	5.8	51
11	Recent advances in synergistic effect promoted catalysts for preferential oxidation of carbon monoxide. Catalysis Science and Technology, 2020, 10, 919-934.	2.1	51
12	Three dimensionally ordered macroporous Au/CeO2 catalysts synthesized via different methods for enhanced CO preferential oxidation in H2-rich gases. RSC Advances, 2014, 4, 5975.	1.7	50
13	Metal-organic-framework derived controllable synthesis of mesoporous copper-cerium oxide composite catalysts for the preferential oxidation of carbon monoxide. Fuel, 2018, 229, 217-226.	3.4	50
14	Rareâ€Earthâ€Based Metalâ€“Organic Frameworks as Multifunctional Platforms for Catalytic Conversion. Small, 2021, 17, e2005371.	5.2	47
15	Boosting Cu-Ce interaction in CuxO/CeO2 nanocube catalysts for enhanced catalytic performance of preferential oxidation of CO in H2-rich gases. Molecular Catalysis, 2017, 436, 90-99.	1.0	42
16	Variation of redox activity and synergistic effect for improving the preferential oxidation of CO in H₂-rich gases in porous Pt/CeO₂â€“Co₃O₄ catalysts. Catalysis Science and Technology, 2015, 5, 5139-5152.	2.1	41
17	A dendritic coreâ€“shell Cu@PtCu alloy electrocatalyst resulting in an enhanced electron transfer ability and boosted surface active sites for an improved methanol oxidation reaction. Chemical Communications, 2017, 53, 7457-7460.	2.2	40
18	Novel highly active and self-healing Co(CO₃)_xOH_y cocatalysts on BiVO₄ photoanodes for effective solar water oxidation. Journal of Materials Chemistry A, 2020, 8, 2563-2570.	5.2	40

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19	0D/2D heterojunctions of molybdenum carbide-tungsten carbide quantum dots/N-doped graphene nanosheets as superior and durable electrocatalysts for hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 18494-18501.	5.2	39
20	Directed self-assembly pathways of three-dimensional Pt/Pd nanocrystal superlattice electrocatalysts for enhanced methanol oxidationÂreaction. Journal of Materials Chemistry A, 2018, 6, 12759-12767.	5.2	31
21	Spatial confinement and electron transfer moderating Mo N bond strength for superior ammonia decomposition catalysis. Applied Catalysis B: Environmental, 2021, 294, 120254.	10.8	31
22	Boosting the stability of BiVO₄ photoanodes: in situ cocatalyst passivation and immobilization by functional fluorine anions. Journal of Materials Chemistry A, 2021, 9, 6298-6305.	5.2	28
23	A General Method for Constructing Two-Dimensional Layered Mesoporous Mono- and Binary-Transition-Metal Nitride/Graphene as an Ultra-Efficient Support to Enhance Its Catalytic Activity and Durability for Electrocatalytic Application. ACS Applied Materials & Interfaces, 2016, 8, 18770-18787.	4.0	28
24	Development of a Wattecs parallel autoclave system synthesis technique for tailoring surface compositions and valence states of Ptâ€“Fe alloys to realize bifunctional electrocatalysis. CrystEngComm, 2017, 19, 7322-7331.	1.3	13
25	Cytotoxicity of Ultrafine Monodispersed Nanoceria on Human Gastric Cancer Cells. Journal of Biomedical Nanotechnology, 2014, 10, 1231-1241.	0.5	12
26	Unexpected catalytic performance of Feâ€“Mâ€“C (M = N, P, and S) electrocatalysts towards oxygen reduction reaction: surface heteroatoms boost the activity of Fe₂M/graphene nanocomposites. Dalton Transactions, 2017, 46, 16885-16894.	1.6	12
27	Modulating the operation temperature window of CO preferential oxidation in H 2 -rich gases on three dimensionally ordered macroporous CeO 2 â€“CuO catalysts by tuning their composition and incooperating Fe 2 O 3 and Co 3 O 4. International Journal of Hydrogen Energy, 2015, 40, 878-890.	3.8	10
28	A flexible non-precious metal Fe-N/C catalyst for highly efficient oxygen reduction reaction. Nanotechnology, 2019, 30, 144001.	1.3	9
29	An integrated electrode based on nanoflakes of MoS2 on carbon cloth for enhanced lithium storage. RSC Advances, 2020, 10, 9335-9340.	1.7	8
30	The correlation between multiple variable factors and the autocatalytic properties of cerium oxide nanoparticles based on cell viability. New Journal of Chemistry, 2018, 42, 9975-9986.	1.4	7
31	Self-assembly of Pt nanocrystals into three-dimensional superlattices results in enhanced electrocatalytic performance for methanol oxidation. CrystEngComm, 2019, 21, 411-419.	1.3	7
32	Pt Nanoparticles Supported on Nitrogen-Doped Carbon-TiO2 Composite as a High-Performance Electrocatalyst for Methanol Oxidation. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	1.1	5
33	Synergy of facet control and surface metalloid modification on hierarchical Ptâ€“Ni nanoroses toward high electrocatalytic activity. CrystEngComm, 2017, 19, 4964-4971.	1.3	4