Bin Zhang

List of Publications by Citations

52 papers	2,897 citations	29 h-index	53 g-index
53 ext. papers	3,407 ext. citations	9.2 avg, IF	5.33 L-index

#	Paper	IF	Citations
52	Thermally stable single atom Pt/m-AlO for selective hydrogenation and CO oxidation. *Nature Communications*, **2017**, 8, 16100	17.4	390
51	Synthesis of electromagnetic functionalized nickel/polypyrrole core/shell composites. *Journal of Physical Chemistry B*, **2008**, 112, 10443-8	3.4	308
50	Stabilizing a Platinum1 Single-Atom Catalyst on Supported Phosphomolybdic Acid without Compromising Hydrogenation Activity. *Angewandte Chemie - International Edition*, **2016**, 55, 8319-23	16.4	294
49	The support effect on the size and catalytic activity of thiolated Au nanoclusters as precatalysts. *Nanoscale*, **2015**, 7, 6325-33	7.7	122
48	Aqueous-phase hydrodeoxygenation of carboxylic acids to alcohols or alkanes over supported Ru catalysts. *Journal of Molecular Catalysis A*, **2011**, 351, 217-227		120
47	Selective conversion of furfuryl alcohol to 1,2-pentanediol over a Ru/MnOx catalyst in aqueous phase. *Green Chemistry*, **2012**, 14, 3402	10	99
46	Alternate nonmagnetic and magnetic multilayer nanofilms deposited on carbon nanocoils by atomic layer deposition to tune microwave absorption property. *Carbon*, **2016**, 98, 196-203	10.4	95
45	Multiply Confined Nickel Nanocatalysts Produced by Atomic Layer Deposition for Hydrogenation Reactions. *Angewandte Chemie - International Edition*, **2015**, 54, 9006-10	16.4	89
44	Ni nanoparticles supported on CNTs with excellent activity produced by atomic layer deposition for hydrogen generation from the hydrolysis of ammonia borane. *Catalysis Science and Technology*, **2016**, 6, 2112-2119	5.5	83
43	A Tandem Catalyst with Multiple Metal Oxide Interfaces Produced by Atomic Layer Deposition. *Angewandte Chemie - International Edition*, **2016**, 55, 7081-5	16.4	74
42	Interface Tailoring of Heterogeneous Catalysts by Atomic Layer Deposition. *ACS Catalysis*, **2018**, 8, 10064-10081	13.1	71
41	Highly Efficient Microwave Absorption of Magnetic Nanospindle-Conductive Polymer Hybrids by Molecular Layer Deposition. *ACS Applied Materials & Interfaces*, **2017**, 9, 11116-11125	9.5	70
40	High Efficiency Cu-ZnO Hydrogenation Catalyst: The Tailoring of Cu-ZnO Interface Sites by Molecular Layer Deposition. *ACS Catalysis*, **2015**, 5, 5567-5573	13.1	70
39	Aqueous-Phase Hydrogenolysis of Glycerol to 1,3-propanediol Over Pt-H4SiW12O40/SiO2. *Catalysis Letters*, **2012**, 142, 267-274	2.8	68
38	Coaxial multi-interface hollow Ni-Al2O3-ZnO nanowires tailored by atomic layer deposition for selective-frequency absorptions. *Nano Research*, **2017**, 10, 1595-1607	10	62
37	Wire-in-tube ZnO@carbon by molecular layer deposition: Accurately tunable electromagnetic parameters and remarkable microwave absorption. *Chemical Engineering Journal*, **2020**, 382, 122860	14.7	61
36	Bifunctional Nitrogen and Cobalt Codoped Hollow Carbon for Electrochemical Syngas Production. *Advanced Science*, **2018**, 5, 1800177	13.6	60

35	Porous TiO2/Pt/TiO2 Sandwich Catalyst for Highly Selective Semihydrogenation of Alkyne to Olefin. *ACS Catalysis*, **2017**, 7, 6567-6572	13.1	55
34	Tailoring Pt□Fe2O3 Interfaces for Selective Reductive Coupling Reaction To Synthesize Imine. *ACS Catalysis*, **2016**, 6, 6560-6566	13.1	54
33	Modification of the supported Cu/SiO2 catalyst by alkaline earth metals in the selective conversion of 1,4-butanediol to □butyrolactone. *Applied Catalysis A: General*, **2012**, 443-444, 191-201	5.1	53
32	Functionalization of multiwalled carbon nanotubes with uniform polyurea coatings by molecular layer deposition. *Carbon*, **2015**, 82, 470-478	10.4	35
31	Photocatalytic conversion of CO2 into light olefins over TiO2 nanotube confined Cu clusters with high ratio of Cu+. *Applied Catalysis B: Environmental*, **2020**, 263, 118133	21.8	33
30	Graphene coated with controllable N-doped carbon layer by molecular layer deposition as electrode materials for supercapacitors. *Journal of Power Sources*, **2016**, 315, 254-260	8.9	31
29	Thermally-assisted photocatalytic CO2 reduction to fuels. *Chemical Engineering Journal*, **2021**, 408, 127280	14.7	31
28	Silicon nanowires loaded with iron phosphide for effective solar-driven hydrogen production. *Journal of Materials Chemistry A*, **2015**, 3, 17669-17675	13	30
27	Styrene hydrogenation performance of Pt nanoparticles with controlled size prepared by atomic layer deposition. *Catalysis Science and Technology*, **2015**, 5, 4218-4223	5.5	30
26	Distance Effect of Ni-Pt Dual Sites for Active Hydrogen Transfer in Tandem Reaction. *Innovation(China)*, **2020**, 1, 100029	17.8	30
25	Encapsulation of Homogeneous Catalysts in Mesoporous Materials Using Diffusion-Limited Atomic Layer Deposition. *Angewandte Chemie - International Edition*, **2018**, 57, 1091-1095	16.4	30
24	Covalent-bonding to irreducible SiO2 leads to high-loading and atomically dispersed metal catalysts. *Journal of Catalysis*, **2017**, 353, 315-324	7.3	29
23	Ultrathin Coating of Confined Pt Nanocatalysts by Atomic Layer Deposition for Enhanced Catalytic Performance in Hydrogenation Reactions. *Chemistry - A European Journal*, **2016**, 22, 8438-43	4.8	28
22	Controllable deposition of Pt nanoparticles into a KL zeolite by atomic layer deposition for highly efficient reforming of n-heptane to aromatics. *Catalysis Science and Technology*, **2017**, 7, 1342-1350	5.5	27
21	Structure and reactivity of single site Ti catalysts for propylene epoxidation. *Journal of Catalysis*, **2019**, 377, 419-428	7.3	22
20	The effect of Mg(OH)2 on furfural oxidation with H2O2. *Catalysis Communications*, **2016**, 86, 41-45	3.2	21
19	Highly Dispersed Single-Atom Pt and Pt Clusters in the Fe-Modified KL Zeolite with Enhanced Selectivity for -Heptane Aromatization. *ACS Applied Materials & Interfaces*, **2019**, 11, 29858-29867	9.5	21
18	Transesterification of dimethyl carbonate with tetrahydrofurfuryl alcohol on the K2CO3/ZrO2 catalyst□unction of the surface carboxylate species. *Applied Catalysis B: Environmental*, **2014**, 152-153, 226-232	21.8	20

17	Catalytic degradation of oxygenates in Fischer□ropsch aqueous phase effluents to fuel gas via hydrodeoxygenation over Ru/AC catalyst. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 112-122	3.5	19
16	Tailoring Pt locations in KL zeolite by improved atomic layer deposition for excellent performance in n-heptane aromatization. *Journal of Catalysis*, **2018**, 365, 163-173	7.3	18
15	Multiply Confined Nickel Nanocatalysts Produced by Atomic Layer Deposition for Hydrogenation Reactions. *Angewandte Chemie*, **2015**, 127, 9134-9138	3.6	18
14	A Tandem Catalyst with Multiple Metal Oxide Interfaces Produced by Atomic Layer Deposition. *Angewandte Chemie*, **2016**, 128, 7197-7201	3.6	18
13	Pt/HZSM-5 catalyst synthesized by atomic layer deposition for aqueous-phase hydrogenation of levulinic acid to valeric acid. *Journal of Fuel Chemistry and Technology*, **2017**, 45, 714-722	1.8	17
12	Turning the product selectivity of nitrile hydrogenation from primary to secondary amines by precise modification of Pd/SiC catalysts using NiO nanodots. *Catalysis Science and Technology*, **2019**, 9, 2266-2272	5.5	16
11	High photocatalytic activity of a NiO nanodot-decorated Pd/SiC catalyst for the Suzuki-Miyaura cross-coupling of aryl bromides and chlorides in air under visible light. *Journal of Catalysis*, **2020**, 389, 517-524	7.3	16
10	InGaN/GaN Multiple Quantum Well Photoanode Modified with Cobalt Oxide for Water Oxidation. *ACS Applied Energy Materials*, **2018**, 1, 6417-6424	6.1	15
9	Rational construction of porous N-doped FeO films on porous graphene foams by molecular layer deposition for tunable microwave absorption. *Journal of Colloid and Interface Science*, **2021**, 598, 45-55	9.3	13
8	N-doped carbon modified Pt/CNTs synthesized by atomic layer deposition with enhanced activity and stability for methanol electrooxidation. *Chinese Journal of Catalysis*, **2018**, 39, 1038-1043	11.3	11
7	Encapsulation of Homogeneous Catalysts in Mesoporous Materials Using Diffusion-Limited Atomic Layer Deposition. *Angewandte Chemie*, **2018**, 130, 1103-1107	3.6	7
6	The selective deposition of Fe species inside ZSM-5 for the oxidation of cyclohexane to cyclohexanone. *Science China Chemistry*, **2021**, 64, 1088-1095	7.9	4
5	Strong Co-O-Si bonded ultra-stable single-atom Co/SBA-15 catalyst for selective hydrogenation of CO2 to CO. *Chem Catalysis*, **2022**, 2, 610-621		4
4	Synthesis of Tetrahydropyran from Tetrahydrofurfuryl Alcohol over Cu□no/Al2O3 under a Gaseous-Phase Condition. *Catalysts*, **2018**, 8, 105	4	3
3	Encapsulation of atomically dispersed Pt clusters in porous TiO for semi-hydrogenation of phenylacetylene.. *Chemical Communications*, **2022**,	5.8	1
2	Synthesis of ZIF-8-coated Pt/SiO2 by vapor deposition for alkyne semi-hydrogenation. *Journal of Fuel Chemistry and Technology*, **2021**, 49, 1316-1325	1.8	1
1	Surface isolation of single metal complexes or clusters by a coating sieving layer via atomic layer deposition. *Cell Reports Physical Science*, **2022**, 3, 100787	6.1	0