Bo-Qing Xu

List of Publications by Citations

116	6,870	48	80
papers	citations	h-index	g-index
118	7,313	6.3	6.02
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
116	Sustainable production of acrolein: investigation of solid acid–base catalysts for gas-phase dehydration of glycerol. *Green Chemistry*, **2007**, 9, 1130	10	304
115	Catalysis by gold: isolated surface Au3+ ions are active sites for selective hydrogenation of 1,3-butadiene over Au/ZrO2 catalysts. *Angewandte Chemie - International Edition*, **2005**, 44, 7132-5	16.4	274
114	Remarkable support effect of SWNTs in Pt catalyst for methanol electrooxidation. *Electrochemistry Communications*, **2005**, 7, 1237-1243	5.1	261
113	Sustainable production of acrolein: Gas-phase dehydration of glycerol over Nb2O5 catalyst. *Journal of Catalysis*, **2007**, 250, 342-349	7.3	225
112	Enhanced photocatalytic performance of nanosized coupled ZnO/SnO2 photocatalysts for methyl orange degradation. *Journal of Photochemistry and Photobiology A: Chemistry*, **2004**, 168, 47-52	4.7	225
111	Effect of electrochemical polarization of PtRu/C catalysts on methanol electrooxidation. *Electrochimica Acta*, **2004**, 50, 1-10	6.7	202
110	Enhancement of Pt utilization in electrocatalysts by using gold nanoparticles. *Angewandte Chemie - International Edition*, **2006**, 45, 4955-9	16.4	196
109	Nano-MgO: novel preparation and application as support of Ni catalyst for CO2 reforming of methane. *Catalysis Today*, **2001**, 68, 217-225	5.3	192
108	Durable Ni/MgO catalysts for CO2 reforming of methane: Activity and metal–support interaction. *Journal of Molecular Catalysis A*, **2009**, 299, 44-52		191
107	Remarkable nanosize effect of zirconia in Au/ZrO2 catalyst for CO oxidation. *Journal of Physical Chemistry B*, **2005**, 109, 9678-83	3.4	157
106	Highly active and stable Ni/ZrO2 catalyst for syngas production by CO2 reforming of methane. *Applied Catalysis A: General*, **2000**, 196, L167-L172	5.1	157
105	Preparation and photocatalytic activity of ZnO/TiO2/SnO2 mixture. *Journal of Solid State Chemistry*, **2005**, 178, 3500-3506	3.3	156
104	Catalytic Pt-on-Au nanostructures: why Pt becomes more active on smaller Au particles. *ACS Nano*, **2012**, 6, 2226-36	16.7	151
103	Carbon nanotube supported Pt electrodes for methanol oxidation: A comparison between multi- and single-walled carbon nanotubes. *Journal of Power Sources*, **2007**, 174, 148-158	8.9	151
102	Sustainable production of acrolein: gas-phase dehydration of glycerol over 12-tungstophosphoric acid supported on ZrO2 and SiO2. *Green Chemistry*, **2008**, 10, 1087	10	142
101	Polyaniline-carbon composite films as supports of Pt and PtRu particles for methanol electrooxidation. *Carbon*, **2005**, 43, 2579-2587	10.4	139
100	Methanol electrooxidation on Pt particles dispersed into PANI/SWNT composite films. *Journal of Power Sources*, **2006**, 155, 118-127	8.9	117

99	Sustainable production of acrolein: Preparation and characterization of zirconia-supported 12-tungstophosphoric acid catalyst for gas-phase dehydration of glycerol. *Applied Catalysis A: General*, **2009**, 353, 213-222	5.1	116
98	Synergy between Pt and Au in Pt-on-Au Nanostructures for Chemoselective Hydrogenation Catalysis. *ACS Catalysis*, **2011**, 1, 1336-1346	13.1	113
97	Specific Selectivity of Au-Catalyzed Oxidation of Glycerol and Other C3-Polyols in Water without the Presence of a Base. *ACS Catalysis*, **2014**, 4, 2226-2230	13.1	111
96	Synthesis of chloroanilines: selective hydrogenation of the nitro in chloronitrobenzenes over zirconia-supported gold catalyst. *Green Chemistry*, **2007**, 9, 849	10	106
95	Preparation and characterization of nanosized anatase TiO2 cuboids for photocatalysis. *Applied Catalysis B: Environmental*, **2005**, 59, 139-146	21.8	103
94	Size Limit of Support Particles in an Oxide-Supported Metal Catalyst: Nanocomposite Ni/ZrO2 for Utilization of Natural Gas. *Journal of Physical Chemistry B*, **2003**, 107, 5203-5207	3.4	99
93	Electro-catalytic oxidation of CO on Pt catalyst supported on carbon nanotubes pretreated with oxidative acids. *Carbon*, **2006**, 44, 2973-2983	10.4	89
92	Comparative study of Au/ZrO2 catalysts in CO oxidation and 1,3-butadiene hydrogenation. *Catalysis Today*, **2007**, 122, 330-337	5.3	85
91	Mesoporous carbon material co-doped with nitrogen and iron (Fe/N/C): high-performance cathode catalyst for oxygen reduction reaction in alkaline electrolyte. *Journal of Materials Chemistry A*, **2014**, 2, 8617-8622	13	80
90	Sustainable Production of Acrylic Acid: Catalytic Performance of Hydroxyapatites for Gas-Phase Dehydration of Lactic Acid. *ACS Catalysis*, **2014**, 4, 1931-1943	13.1	80
89	Reforming of methane and coalbed methane over nanocomposite Ni/ZrO2 catalyst. *Catalysis Today*, **2004**, 98, 601-605	5.3	76
88	Platinum covering of gold nanoparticles for utilization enhancement of Pt in electrocatalysts. *Physical Chemistry Chemical Physics*, **2006**, 8, 5106-14	3.6	75
87	Alkane isomerization over sulfated zirconia and other solid acids. *Topics in Catalysis*, **1998**, 6, 61-76	2.3	74
86	Impacts of Organic Stabilizers on Catalysis of Au Nanoparticles from Colloidal Preparation. *ACS Catalysis*, **2014**, 4, 3982-3993	13.1	72
85	Sustainable production of acrolein: Acidic binary metal oxide catalysts for gas-phase dehydration of glycerol. *Catalysis Today*, **2010**, 158, 310-316	5.3	70
84	Core–Shell Nanostructured Au@NimPt2Electrocatalysts with Enhanced Activity and Durability for Oxygen Reduction Reaction. *ACS Catalysis*, **2016**, 6, 1680-1690	13.1	67
83	Effects of preparation methods of ZrO2 support on catalytic performances of Ni/ZrO2 catalysts in methane partial oxidation to syngas. *Applied Catalysis A: General*, **2008**, 337, 19-28	5.1	66
82	Vital roles of hydroxyl groups and gold oxidation states in Au/ZrO2 catalysts for 1,3-butadiene hydrogenation. *Journal of Catalysis*, **2011**, 279, 75-87	7.3	65

81	Silk-Derived Highly Active Oxygen Electrocatalysts for Flexible and Rechargeable Zn–Air Batteries. *Chemistry of Materials*, **2019**, 31, 1023-1029	9.6	65
80	An exceptionally active and selective Pt–Au/TiO2 catalyst for hydrogenation of the nitro group in chloronitrobenzene. *Green Chemistry*, **2012**, 14, 111-116	10	63
79	Gold Nano-size Effect in Au/SiO2 for Selective Ethanol Oxidation in Aqueous Solution. *Catalysis Letters*, **2008**, 124, 238-242	2.8	63
78	Pt Flecks on Colloidal Au (Pt?Au) as Nanostructured Anode Catalysts for Electrooxidation of Formic Acid. *Journal of Physical Chemistry C*, **2009**, 113, 20903-20911	3.8	59
77	Manipulation of Pt?Ag Nanostructures for Advanced Electrocatalyst. *Journal of Physical Chemistry C* , **2009**, 113, 1242-1250	3.8	58
76	Surprisingly strong effect of stabilizer on the properties of Au nanoparticles and Pt^Au nanostructures in electrocatalysis. *Nanoscale*, **2010**, 2, 2798-804	7.7	57
75	Carbon-supported Pt^Ag nanostructures as cathode catalysts for oxygen reduction reaction. *Physical Chemistry Chemical Physics*, **2011**, 13, 3863-72	3.6	57
74	Sustainable production of acrolein: catalytic performance of hydrated tantalum oxides for gas-phase dehydration of glycerol. *Green Chemistry*, **2013**, 15, 696	10	56
73	Promotion by hydrous ruthenium oxide of platinum for methanol electro-oxidation. *Journal of Catalysis*, **2010**, 275, 34-44	7.3	56
72	Nanosized Ru on high-surface-area superbasic ZrO2-KOH for efficient generation of hydrogen via ammonia decomposition. *Applied Catalysis A: General*, **2006**, 301, 202-210	5.1	56
71	Carbon Dioxide Reforming of Methane Over Nanocomposite Ni/ZrO2 Catalysts. *Topics in Catalysis*, **2003**, 22, 77-85	2.3	55
70	Immobilized PVA-stabilized gold nanoparticles on silica show an unusual selectivity in the hydrogenation of cinnamaldehyde. *Catalysis Communications*, **2008**, 9, 1949-1954	3.2	51
69	Tri-reforming of Methane over Ni Catalysts for CO2 Conversion to Syngas With Desired H2/CO Ratios Using Flue Gas of Power Plants Without CO2 Separation. *Studies in Surface Science and Catalysis*, **2004**, 153, 315-322	1.8	48
68	Catalysis by Gold: Isolated Surface Au3+ Ions are Active Sites for Selective Hydrogenation of 1,3-Butadiene over Au/ZrO2 Catalysts. *Angewandte Chemie*, **2005**, 117, 7294-7297	3.6	48
67	Fully dispersed Pt entities on nano-Au dramatically enhance the activity of gold for chemoselective hydrogenation catalysis. *Chemical Communications*, **2011**, 47, 1300-2	5.8	46
66	Comparison of catalytic combustion of carbon monoxide and formaldehyde over Au/ZrO2 catalysts. *Catalysis Today*, **2010**, 158, 415-422	5.3	46
65	Sustainable production of acrylic acid: alkali-ion exchanged beta zeolite for gas-phase dehydration of lactic acid. *ChemSusChem*, **2014**, 7, 1568-78	8.3	45
64	Proper alloying of Pt with underlying Ag nanoparticles leads to dramatic activity enhancement of Pt electrocatalyst. *Electrochemistry Communications*, **2008**, 10, 884-887	5.1	41

63	Dealloyed carbon-supported PtAg nanostructures: Enhanced electrocatalytic activity for oxygen reduction reaction. *Electrochemistry Communications*, **2010**, 12, 1191-1194	5.1	39
62	Enhancement of Pt Utilization in Electrocatalysts by Using Gold Nanoparticles. *Angewandte Chemie*, **2006**, 118, 5077-5081	3.6	38
61	Rh/NaY: A Selective Catalyst for Direct Synthesis of Acetic Acid from Syngas. *Journal of Catalysis*, **1998**, 180, 194-206	7.3	37
60	Gas phase beckmann rearrangement of cyclohexanone oxime over zirconia-supported boria catalyst. *Applied Catalysis A: General*, **1999**, 188, 361-368	5.1	37
59	Visible-light-driven MWCNT@TiO2 core□shell nanocomposites and the roles of MWCNTs on the surface chemistry, optical properties and reactivity in CO2 photoreduction. *RSC Advances*, **2014**, 4, 24007-24013	3.7	35
58	Formation of 2,3-diaminophenazines and their self-assembly into nanobelts in aqueous medium. *European Polymer Journal*, **2007**, 43, 3703-3709	5.2	34
57	Potassium-Ion-Exchanged Zeolites for Sustainable Production of Acrylic Acid by Gas-Phase Dehydration of Lactic Acid. *ACS Catalysis*, **2017**, 7, 538-550	13.1	33
56	Sustainable production of acrolein: Catalytic gas-phase dehydration of glycerol over dispersed tungsten oxides on alumina, zirconia and silica. *Catalysis Today*, **2014**, 234, 215-222	5.3	33
55	Stabilizer substitution and its effect on the hydrogenation catalysis by Au nanoparticles from colloidal synthesis. *Catalysis Science and Technology*, **2013**, 3, 3013	5.5	33
54	Shape-controlled synthesis of Pt nanocrystals: an evolution of the tetrahedral shape. *Applied Organometallic Chemistry*, **2006**, 20, 638-647	3.1	30
53	On the preparation of high-surface-area nano-zirconia by reflux-digestion of hydrous zirconia gel in basic solution. *ChemPhysChem*, **2003**, 4, 277-81	3.2	30
52	Acid-Base Bifunctional Behavior of ZrC2in Dual Adsorption of CO2and NH3. *Chemistry Letters*, **1988**, 17, 1663-1666	1.7	30
51	A key to the storage stability of Au/TiO(2) catalyst. *Physical Chemistry Chemical Physics*, **2008**, 10, 6399-404	3.6	28
50	Acid-base property of the supporting material controls the selectivity of Au catalyst for glycerol oxidation in base-free water. *Chinese Journal of Catalysis*, **2015**, 36, 1543-1551	11.3	27
49	Pd-on-Si catalysts prepared via galvanic displacement for the selective hydrogenation of para-chloronitrobenzene. *Chemical Communications*, **2016**, 52, 3026-9	5.8	26
48	Unusual selectivity of oxygenate synthesis: Formation of acetic acid from syngas over unpromoted Rh in NaY zeolite. *Catalysis Today*, **2000**, 63, 453-460	5.3	26
47	Nanocomposite Ni/ZrO2: Highly active and stable catalyst for H2 production via cyclic stepwise methane reforming reactions. *International Journal of Hydrogen Energy*, **2012**, 37, 11735-11747	6.7	25
46	Single-phase titania nanocrystallites and nanofibers from titanium tetrachloride in acetone and other ketones. *Inorganic Chemistry*, **2007**, 46, 5093-9	5.1	25

45	Performance of Ni/MgO-AN catalyst in high pressure CO2 reforming of methane. *Topics in Catalysis*, **2005**, 32, 109-116	2.3	25
44	Pt-FeOx/SiO2 catalysts prepared by galvanic displacement show high selectivity for cinnamyl alcohol production in the chemoselective hydrogenation of cinnamaldehyde. *Catalysis Science and Technology*, **2016**, 6, 7033-7037	5.5	25
43	Performance of polyaniline-derived Fe-N-C catalysts for oxygen reduction reaction in alkaline electrolyte. *Chinese Journal of Catalysis*, **2013**, 34, 1992-1997	11.3	24
42	Sustainable production of acrolein: effects of reaction variables, modifiers doping and ZrO2 origin on the performance of WO3/ZrO2 catalyst for the gas-phase dehydration of glycerol. *RSC Advances*, **2014**, 4, 4619-4630	3.7	23
41	Transfer hydrogenation of cinnamaldehyde with 2-propanol on Al2O3 and SiO2-Al2O3 catalysts: role of Lewis and Br-sted acidic sites. *Catalysis Science and Technology*, **2017**, 7, 4511-4519	5.5	23
40	Catalytic performance of Nafion/SiO2 nanocomposites for the synthesis of -tocopherol. *Applied Catalysis A: General*, **2004**, 275, 247-255	5.1	23
39	B2O3/ZrO2 for Beckmann rearrangement of cyclohexanone oxime: optimizing of the catalyst and reaction atmosphere. *Catalysis Today*, **2000**, 63, 275-282	5.3	23
38	A Crucial Step to Platinum Nanocrystals with Special Surfaces: Control of Aquo/Chloro Ligand Exchange in Aqueous PtCl62- Solution. *Journal of Physical Chemistry C*, **2007**, 111, 18563-18567	3.8	22
37	Sustainable production of acrylic acid: Rb+- and Cs+-exchanged Beta zeolite catalysts for catalytic gas-phase dehydration of lactic acid. *Catalysis Today*, **2016**, 269, 65-73	5.3	21
36	Comparative study of atmospheric and high pressure CO2 reforming of methane over Ni/MgO-AN catalyst. *Catalysis Letters*, **2005**, 99, 89-96	2.8	19
35	Mononuclear Fe in N-doped carbon: computational elucidation of active sites for electrochemical oxygen reduction and oxygen evolution reactions. *Catalysis Science and Technology*, **2020**, 10, 1006-1014	5.5	18
34	Nonpyrolyzed Fe-N Coordination-Based Iron Triazolate Framework: An Efficient and Stable Electrocatalyst for Oxygen Reduction Reaction. *ChemSusChem*, **2019**, 12, 200-207	8.3	18
33	CO2 reforming of methane over coke-resistant Ni-Co/Si3N4 catalyst prepared via reactions between silicon nitride and metal halides. *Catalysis Communications*, **2016**, 73, 54-57	3.2	16
32	Water effects on the acidic property of typical solid acid catalysts by 3,3-dimethylbut-1-ene isomerization and 2-propanol dehydration reactions. *Catalysis Today*, **2017**, 295, 110-118	5.3	15
31	Effects of support pre-calcination on the NOx storage and reduction performance of Pt-BaO/Al2O3 catalysts. *Catalysis Science and Technology*, **2013**, 3, 2062	5.5	15
30	Characteristics of low platinum Pt-BaO catalysts for NOx storage and reduction. *Catalysis Today*, **2010**, 153, 103-110	5.3	15
29	Nano-size effect of Au catalyst for electrochemical reduction of oxygen in alkaline electrolyte. *Chinese Journal of Catalysis*, **2013**, 34, 942-948	11.3	14
28	Cataluminescence and catalytic reactions of ethanol oxidation over nanosized Ce1-ZrxO2 (0 ? x ? 1) catalysts. *Catalysis Communications*, **2006**, 7, 589-592	3.2	14

27	Is Ammonium Peroxydisulate Indispensable for Preparation of Aniline-Derived Iron-Nitrogen-Carbon Electrocatalysts?. *ChemSusChem*, **2016**, 9, 2301-6	8.3	14
26	NaOH alone can be a homogeneous catalyst for selective aerobic oxidation of alcohols in water. *Journal of Catalysis*, **2017**, 353, 37-43	7.3	13
25	High temperature calcination for a highly efficient and regenerable B2O3/ZrO2 catalyst for the synthesis of ε-caprolactam. *Chemical Communications*, **2000**, 1121-1122	5.8	13
24	Solvothermal synthesis of TiO2: anatase nanocrystals and rutile nanofibres from TiCl4 in acetone. *Applied Organometallic Chemistry*, **2007**, 21, 146-149	3.1	12
23	Stable Ni/ZrO2 catalyst for carbon dioxide reforming of methane. *Studies in Surface Science and Catalysis*, **2000**, 130, 3687-3692	1.8	12
22	Comparison of gas-phase dehydration of propane polyols over solid acid–base catalysts. *Catalysis Today*, **2014**, 234, 237-244	5.3	11
21	Catalytic Pd-on-Au nanostructures with improved Pd activity for formic acid electro-oxidation. *RSC Advances*, **2013**, 3, 1748	3.7	11
20	NOx storage and reduction performance of Pt–CoOx–BaO/Al2O3 catalysts: Effects of cobalt loading and calcination temperature. *Catalysis Today*, **2010**, 158, 432-438	5.3	11
19	Core@shell nanostructured Au-d@NimPtm for electrochemical oxygen reduction reaction: effect of the core size and shell thickness. *Catalysis Science and Technology*, **2019**, 9, 4668-4677	5.5	10
18	Synthesis and aggregation behavior of chitooligosaccharide-based biodegradable graft copolymers. *Journal of Polymer Science Part A*, **2008**, 46, 4889-4904	2.5	10
17	Do Olefin Hydrogenation Reactions Remain Structure Insensitive over Pt in Nanostructured Pt-on-Au Catalyst?. *ACS Catalysis*, **2018**, 8, 10254-10260	13.1	10
16	Acrylic Acid Production by Gas-Phase Dehydration of Lactic Acid over K+-Exchanged ZSM-5: Reaction Variable Effects, Kinetics, and New Evidence for Cooperative Acid–Base Bifunctional Catalysis. *Industrial & Engineering Chemistry Research*, **2020**, 59, 17417-17428	3.9	8
15	Synthesis and optical absorption property of the Zn2TixSn1−xO4 (0?x?1) solid solutions. *Journal of Solid State Chemistry*, **2004**, 177, 3448-3453	3.3	7
14	Noble-metal efficient Pt-Ir-Co/SiO2 catalyst for selective hydrogenolytic ring opening of methylcyclopentane. *Catalysis Today*, **2018**, 316, 162-170	5.3	6
13	A milestone in methane conversion. *National Science Review*, **2014**, 1, 325-326	10.8	6
12	Coprecipitation synthesis and optical absorption property of Zn2TixSn1−xO4 (0 ≤ x ≤ 1) solid solutions. *Journal of Materials Science*, **2009**, 44, 919-925	4.3	5
11	Efficient Hydrogen Production via Stepwised Steam Reforming of Methane Using Nanocomposite Ni/ZrO2 Catalyst. *Studies in Surface Science and Catalysis*, **2007**, 172, 473-476	1.8	5
10	Comparative study of gas-phase dehydration of alkyl lactates and lactic acid for acrylic acid production over hydroxyapatite catalysts. *Molecular Catalysis*, **2020**, 494, 111098	3.3	5

9	Performance Improvement of NO x -Storage BaO/Al2O3 by Using Barium Peroxide as the Precursor of BaO. *Catalysis Letters*, **2009**, 132, 189-196	2.8	4
8	3D Quantification of Low-Coordinate Surface Atom Density: Bridging Catalytic Activity to Concave Facets of Nanocatalysts in Fuel Cells. *Small*, **2016**, 12, 6332-6337	11	4
7	Removal of Residual Poly(vinylpyrrolidone) from Gold Nanoparticles Immobilized on SiO2 by Ultraviolet□Ozone Treatment. *ACS Applied Nano Materials*, **2019**, 2, 5720-5729	5.6	3
6	Engineering Pt Nanoparticles with Fe and N Codoped Carbon to Boost Oxygen Reduction Catalytic Performance in Acidic Electrolyte. *Energy Technology*, **2020**, 8, 2000393	3.5	3
5	Spontaneous formation of giant vesicles with tunable sizes based on jellyfish-like graft copolymers. *RSC Advances*, **2014**, 4, 59323-59330	3.7	3
4	Solvothermal Synthesis of Nanostructured PtnNi Tetrahedrons with Enhanced Platinum Utilization and Activity toward Oxygen Reduction Electrocatalysis. *Journal of Physical Chemistry C*, **2021**, 125, 27199-27206	3.8	3
3	A general template for synthesis of hollow microsphere with well-defined structure. *Journal of Applied Polymer Science*, **2012**, 128, n/a-n/a	2.9	1
2	Performance Control of □rogenation Catalysis by Tuning the Percentage of Cationic Gold in Au/ZrO2 Catalyst. *Studies in Surface Science and Catalysis*, **2007**, 172, 481-484	1.8	1
1	On the Preparation of High-Surface-Area Nano-Zirconia by Reflux-Digestion of Hydrous Zirconia Gel in Basic Solution. *ChemPhysChem*, **2003**, 4, 539-539	3.2	