Xianqin Wang

List of Publications by Year
in descending order

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42 papers	1,310 citations	304743 22 h-index	345221 36 g-index
46 all docs	46 docs citations	46 times ranked	2057 citing authors

#	Article	IF	Citations
1	Recent progress in electrochemical reduction of carbon dioxide on metal singleâ€atom catalysts. Energy Science and Engineering, 2022, 10, 1584-1600.	4.0	11
2	Synthesis of polymeric nitrogen with non-thermal radio frequency plasma. Catalysis Today, 2022, , .	4.4	1
3	Synthesis and Stabilization of Cubic Gauche Polynitrogen under Radio-Frequency Plasma. Chemistry of Materials, 2022, 34, 4712-4720.	6.7	5
4	A practical way to enhance the synthesis of N8â^' from an N3â^' precursor, studied by both computational and experimental methods. Physical Chemistry Chemical Physics, 2021, 23, 15713-15718.	2.8	1
5	N8 stabilized single-atom Pd for highly selective hydrogenation of acetylene. Journal of Catalysis, 2021, 395, 46-53.	6.2	16
6	Electrodeposition of Ni on MWNTs as a promising catalyst for CO₂RR. Energy Science and Engineering, 2021, 9, 1042-1047.	4.0	10
7	Predicting the crystal structure of $$hbox {N}_5hbox {AsF}_6$$ high energy density material using ab initio evolutionary algorithms. Scientific Reports, 2021, 11, 7874.	3.3	2
8	Rational Synthesis of Polymeric Nitrogen N₈^{â€“} with Ultraviolet Irradiation and Its Oxygen Reduction Reaction Mechanism Study with In Situ Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy. ACS Catalysis, 2021, 11, 13034-13040.	11.2	3
9	N₈^{â€“} Polynitrogen Stabilized on Boron-Doped Graphene as Metal-Free Electrocatalysts for Oxygen Reduction Reaction. ACS Catalysis, 2020, 10, 160-167.	11.2	49
10	Study of Catalytic Combustion of Chlorobenzene and Temperature Programmed Reactions over CrCeOx/AlFe Pillared Clay Catalysts. Materials, 2019, 12, 728.	2.9	8
11	Catalytic combustion of volatile organic compounds on pillared interlayered clay (PILC)-based catalysts. Current Opinion in Chemical Engineering, 2018, 20, 93-98.	7.8	30
12	Enhancement mechanism of hydroxyapatite for photocatalytic degradation of gaseous formaldehyde over TiO2/hydroxyapatite. Journal of the Taiwan Institute of Chemical Engineers, 2018, 85, 91-97.	5.3	36
13	Boron-doped graphene nanosheet-supported Pt: a highly active and selective catalyst for low temperature H₂-SCR. Nanoscale, 2018, 10, 10203-10212.	5.6	29
14	Structure and Thermal Stability of (H₂O)₄ Tetrahedron and (H₂O)₆ Hexagon Adsorbed on NaY Zeolite Studied by Synchrotron-Based Time-Resolved X-ray Diffraction. Industrial & Engineering Chemistry Research, 2018, 57, 4988-4995.	3.7	5
15	Highly effective hydrodeoxygenation of guaiacol on Pt/TiO2: Promoter effects. Catalysis Today, 2018, 302, 136-145.	4.4	52
16	Catalytic reduction for water treatment. Frontiers of Environmental Science and Engineering, 2018, 12, 1.	6.0	43
17	Pd Nanoparticle Catalysts Supported on Nitrogen-Functionalized Activated Carbon for Oxyanion Hydrogenation and Water Purification. ACS Applied Nano Materials, 2018, 1, 6580-6586.	5.0	10
18	Preparation and high performance of rare earth modified Pt/MCM-41 for benzene catalytic combustion. Catalysis Communications, 2017, 94, 52-55.	3.3	31

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19	Graphene-Based Nanomaterials for Catalysis. Industrial & Engineering Chemistry Research, 2017, 56, 3477-3502.	3.7	234
20	Cubic gauche polymeric nitrogen under ambient conditions. Nature Communications, 2017, 8, 930.	12.8	88
21	Efficient and Environmentally Friendly Synthesis of AlFe-PILC-Supported MnCe Catalysts for Benzene Combustion. ACS Omega, 2017, 2, 5179-5186.	3.5	19
22	Characterization techniques for graphene-based materials in catalysis. AIMS Materials Science, 2017, 4, 755-788.	1.4	52
23	Enhancement of Nitrite Reduction Kinetics on Electrospun Pd-Carbon Nanomaterial Catalysts for Water Purification. ACS Applied Materials & Interfaces, 2016, 8, 17739-17744.	8.0	32
24	Ru-Co(III)-Cu(II)/SAC catalyst for acetylene hydrochlorination. Applied Catalysis B: Environmental, 2016, 189, 56-64.	20.2	83
25	Effect of N 3 â^' species on selective acetylene hydrogenation over Pd/SAC catalysts. Catalysis Today, 2016, 263, 98-104.	4.4	17
26	Recovering Magnetic Fe₃O₄â€“ZnO Nanocomposites from Algal Biomass Based on Hydrophobicity Shift under UV Irradiation. ACS Applied Materials & Interfaces, 2015, 7, 11677-11682.	8.0	30
27	Special Issue in Honor of Professor S. Ted Oyama: 2014 ACS Distinguished Researcher Award in Petroleum Chemistry and Storch Award in Fuel Science. Topics in Catalysis, 2015, 58, 191-193.	2.8	0
28	Metal-free, carbon-based catalysts for oxygen reduction reactions. Frontiers of Chemical Science and Engineering, 2015, 9, 280-294.	4.4	22
29	Renewable energy and fuel production over transition metal oxides: The role of oxygen defects and acidity. Catalysis Today, 2015, 240, 220-228.	4.4	23
30	Highly selective catalytic hydrodeoxygenation of guaiacol to cyclohexane over Pt/TiO2 and NiMo/Al2O3 catalysts. Frontiers of Chemical Science and Engineering, 2014, 8, 369-377.	4.4	28
31	N₈^{â^'} Polynitrogen Stabilized on Multiâ€Wall Carbon Nanotubes for Oxygenâ€Reduction Reactions at Ambient Conditions. Angewandte Chemie - International Edition, 2014, 53, 12555-12559.	13.8	30
32	Intrinsic properties of active sites for hydrogen production from alcohols without coke formation. Journal of Energy Chemistry, 2013, 22, 436-445.	12.9	6
33	Hydrogen storage in hierarchical nanoporous silicon-carbon nanotube architectures. International Journal of Energy Research, 2013, 37, 754-760.	4.5	22
34	Required catalytic properties for alkane production from carboxylic acids: Hydrodeoxygenation of acetic acid. Journal of Energy Chemistry, 2013, 22, 883-894.	12.9	24
35	Hydrocarbon Production from Carboxylic Acids via Catalytic Deoxygenation: Required Catalytic Properties. ACS Symposium Series, 2013, , 301-329.	0.5	3
36	Cation Movements during Dehydration and NO₂ Desorption in a Baâ€“Y,FAU Zeolite: An in Situ Time-Resolved X-ray Diffraction Study. Journal of Physical Chemistry C, 2013, 117, 3915-3922.	3.1	36

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37	Hydrodeoxygenation of model compounds and catalytic systems for pyrolysis bio-oils upgrading. Catalysis for Sustainable Energy, 2012, 1, .	0.7	73
38	Effect of the transition metal oxide supports on hydrogen production from bio-ethanol reforming. Catalysis Today, 2012, 194, 2-8.	4.4	47
39	Fundamental understanding of the role of potassium on the activity of Pt/CeO2 for the hydrogen production from ethanol. International Journal of Hydrogen Energy, 2012, 37, 11132-11140.	7.1	17
40	Promotional Effect of CO2 on Desulfation Processes for Pre-Sulfated Pt-BaO/Al2O3 Lean NOx Trap Catalysts. Topics in Catalysis, 2009, 52, 1719-1722.	2.8	3
41	In-situ characterization of waterâ€“gas shift catalysts using time-resolved X-ray diffraction. Catalysis Today, 2009, 145, 188-194.	4.4	32
42	Interaction of H2O and NO2with BaY Faujasite:Â Complex Contraction/Expansion Behavior of the Zeolite Unit Cell. Journal of Physical Chemistry B, 2004, 108, 16613-16616.	2.6	25