

# 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	Graphene-Based Nanomaterials for Catalysis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 3477-3502.	3.7	234
2	Cubic gauche polymeric nitrogen under ambient conditions. <i>Nature Communications</i> , 2017, 8, 930.	12.8	88
3	Ru-Co(III)-Cu(II)/SAC catalyst for acetylene hydrochlorination. <i>Applied Catalysis B: Environmental</i> , 2016, 189, 56-64.	20.2	83
4	Hydrodeoxygenation of model compounds and catalytic systems for pyrolysis bio-oils upgrading. <i>Catalysis for Sustainable Energy</i> , 2012, 1, .	0.7	73
5	Highly effective hydrodeoxygenation of guaiacol on Pt/TiO <sub>2</sub> : Promoter effects. <i>Catalysis Today</i> , 2018, 302, 136-145.	4.4	52
6	Characterization techniques for graphene-based materials in catalysis. <i>AIMS Materials Science</i> , 2017, 4, 755-788.	1.4	52
7	N <sub>8</sub> <sup>+</sup> Polynitrogen Stabilized on Boron-Doped Graphene as Metal-Free Electrocatalysts for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2020, 10, 160-167.	11.2	49
8	Effect of the transition metal oxide supports on hydrogen production from bio-ethanol reforming. <i>Catalysis Today</i> , 2012, 194, 2-8.	4.4	47
9	Catalytic reduction for water treatment. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	6.0	43
10	Cation Movements during Dehydration and NO <sub>2</sub> Desorption in a Ba <sup>Y</sup> FAU Zeolite: An in Situ Time-Resolved X-ray Diffraction Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3915-3922.	3.1	36
11	Enhancement mechanism of hydroxyapatite for photocatalytic degradation of gaseous formaldehyde over TiO <sub>2</sub> /hydroxyapatite. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 85, 91-97.	5.3	36
12	In-situ characterization of water-gas shift catalysts using time-resolved X-ray diffraction. <i>Catalysis Today</i> , 2009, 145, 188-194.	4.4	32
13	Enhancement of Nitrite Reduction Kinetics on Electrospun Pd-Carbon Nanomaterial Catalysts for Water Purification. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17739-17744.	8.0	32
14	Preparation and high performance of rare earth modified Pt/MCM-41 for benzene catalytic combustion. <i>Catalysis Communications</i> , 2017, 94, 52-55.	3.3	31
15	N <sub>8</sub> <sup>+</sup> Polynitrogen Stabilized on Multi-Wall Carbon Nanotubes for Oxygen-Reduction Reactions at Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12555-12559.	13.8	30
16	Recovering Magnetic Fe <sub>3</sub> O <sub>4</sub> -ZnO Nanocomposites from Algal Biomass Based on Hydrophobicity Shift under UV Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 11677-11682.	8.0	30
17	Catalytic combustion of volatile organic compounds on pillared interlayered clay (PILC)-based catalysts. <i>Current Opinion in Chemical Engineering</i> , 2018, 20, 93-98.	7.8	30
18	Boron-doped graphene nanosheet-supported Pt: a highly active and selective catalyst for low temperature H <sub>2</sub> -SCR. <i>Nanoscale</i> , 2018, 10, 10203-10212.	5.6	29

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19	Highly selective catalytic hydrodeoxygenation of guaiacol to cyclohexane over Pt/TiO <sub>2</sub> and NiMo/Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Frontiers of Chemical Science and Engineering</i> , 2014, 8, 369-377.	4.4	28
20	Interaction of H <sub>2</sub> O and NO <sub>2</sub> with BaY Faujasite: A Complex Contraction/Expansion Behavior of the Zeolite Unit Cell. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16613-16616.	2.6	25
21	Required catalytic properties for alkane production from carboxylic acids: Hydrodeoxygenation of acetic acid. <i>Journal of Energy Chemistry</i> , 2013, 22, 883-894.	12.9	24
22	Renewable energy and fuel production over transition metal oxides: The role of oxygen defects and acidity. <i>Catalysis Today</i> , 2015, 240, 220-228.	4.4	23
23	Hydrogen storage in hierarchical nanoporous silicon-carbon nanotube architectures. <i>International Journal of Energy Research</i> , 2013, 37, 754-760.	4.5	22
24	Metal-free, carbon-based catalysts for oxygen reduction reactions. <i>Frontiers of Chemical Science and Engineering</i> , 2015, 9, 280-294.	4.4	22
25	Efficient and Environmentally Friendly Synthesis of AlFe-PILC-Supported MnCe Catalysts for Benzene Combustion. <i>ACS Omega</i> , 2017, 2, 5179-5186.	3.5	19
26	Fundamental understanding of the role of potassium on the activity of Pt/CeO <sub>2</sub> for the hydrogen production from ethanol. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 11132-11140.	7.1	17
27	Effect of N <sub>3</sub> <sup>+</sup> species on selective acetylene hydrogenation over Pd/SAC catalysts. <i>Catalysis Today</i> , 2016, 263, 98-104.	4.4	17
28	N <sub>8</sub> stabilized single-atom Pd for highly selective hydrogenation of acetylene. <i>Journal of Catalysis</i> , 2021, 395, 46-53.	6.2	16
29	Recent progress in electrochemical reduction of carbon dioxide on metal single-atom catalysts. <i>Energy Science and Engineering</i> , 2022, 10, 1584-1600.	4.0	11
30	Pd Nanoparticle Catalysts Supported on Nitrogen-Functionalized Activated Carbon for Oxyanion Hydrogenation and Water Purification. <i>ACS Applied Nano Materials</i> , 2018, 1, 6580-6586.	5.0	10
31	Electrodeposition of Ni on MWNTs as a promising catalyst for CO <sub>2</sub> RR. <i>Energy Science and Engineering</i> , 2021, 9, 1042-1047.	4.0	10
32	Study of Catalytic Combustion of Chlorobenzene and Temperature Programmed Reactions over CrCeO <sub>x</sub> /AlFe Pillared Clay Catalysts. <i>Materials</i> , 2019, 12, 728.	2.9	8
33	Intrinsic properties of active sites for hydrogen production from alcohols without coke formation. <i>Journal of Energy Chemistry</i> , 2013, 22, 436-445.	12.9	6
34	Structure and Thermal Stability of (H <sub>2</sub> O) <sub>4</sub> Tetrahedron and (H <sub>2</sub> O) <sub>6</sub> Hexagon Adsorbed on NaY Zeolite Studied by Synchrotron-Based Time-Resolved X-ray Diffraction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 4988-4995.	3.7	5
35	Synthesis and Stabilization of Cubic Gauche Polynitrogen under Radio-Frequency Plasma. <i>Chemistry of Materials</i> , 2022, 34, 4712-4720.	6.7	5
36	Promotional Effect of CO <sub>2</sub> on Desulfation Processes for Pre-Sulfated Pt-BaO/Al <sub>2</sub> O <sub>3</sub> Lean NO <sub>x</sub> Trap Catalysts. <i>Topics in Catalysis</i> , 2009, 52, 1719-1722.	2.8	3

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37	Hydrocarbon Production from Carboxylic Acids via Catalytic Deoxygenation: Required Catalytic Properties. ACS Symposium Series, 2013, , 301-329.	0.5	3
38	Rational Synthesis of Polymeric Nitrogen $N_8$ 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
39	Predicting the crystal structure of $N_5$ high energy density material using ab initio evolutionary algorithms. Scientific Reports, 2021, 11, 7874.	3.3	2
40	A practical way to enhance the synthesis of $N_8$ from an $N_3$ precursor, studied by both computational and experimental methods. Physical Chemistry Chemical Physics, 2021, 23, 15713-15718.	2.8	1
41	Synthesis of polymeric nitrogen with non-thermal radio frequency plasma. Catalysis Today, 2022, , .	4.4	1
42	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