

# Yang Xiao

## List of Publications by Year in descending order

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25  
papers

1,185  
citations

623188

14  
h-index

580395

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1271  
citing authors

#	ARTICLE	IF	CITATIONS
1	One-step solution combustion synthesis of micro-nano-scale porous Cu/CeO <sub>2</sub> with enhanced photocatalytic properties. <i>Journal of Rare Earths</i> , 2023, 41, 250-258.	2.5	7
2	Guaiacol Hydrodeoxygenation and Hydrogenation over Bimetallic Pt-M (Nb, W, Zr)/KIT-6 Catalysts with Tunable Acidity. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4831-4838.	3.2	16
3	Imidazolium ionic liquid functionalized UiO-66-NH <sub>2</sub> as highly efficient catalysts for chemical fixation of CO <sub>2</sub> into cyclic carbonates. <i>Microporous and Mesoporous Materials</i> , 2021, 310, 110578.	2.2	61
4	Hydrogenolysis of glycerol to propanediols over silicotungstic acid catalysts intercalated with CuZnFe hydroxalate-like compounds. <i>Catalysis Today</i> , 2021, 368, 224-231.	2.2	15
5	One-step combustion synthesis of carbon-coated NiO/Ni composites for lithium and sodium storage. <i>Journal of Alloys and Compounds</i> , 2021, 884, 160927.	2.8	9
6	Direct methane activation by atomically thin platinum nanolayers on two-dimensional metal carbides. <i>Nature Catalysis</i> , 2021, 4, 882-891.	16.1	63
7	Ordered mesoporous Ag/CeO <sub>2</sub> nanocrystalline via silica-templated solution combustion for enhanced photocatalytic performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 604, 125301.	2.3	16
8	Insights into the Influence of CeO <sub>2</sub> Crystal Facet on CO <sub>2</sub> Hydrogenation to Methanol over Pd/CeO <sub>2</sub> Catalysts. <i>ACS Catalysis</i> , 2020, 10, 11493-11509.	5.5	391
9	Refinement of the kinetic model for guaiacol hydrodeoxygenation over platinum catalysts. <i>AIChE Journal</i> , 2020, 66, e16913.	1.8	4
10	Identification of the structure of the Bi promoted Pt non-oxidative coupling of methane catalyst: a nanoscale Pt <sub>3</sub> Bi intermetallic alloy. <i>Catalysis Science and Technology</i> , 2019, 9, 1349-1356.	2.1	31
11	Sustainable value-added C <sub>3</sub> chemicals from glycerol transformations: A mini review for heterogeneous catalytic processes. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1536-1542.	1.7	47
12	Role of Bismuth in the Stability of Pt-Bi Bimetallic Catalyst for Methane Mediated Deoxygenation of Guaiacol, an APXPS Study. <i>ACS Catalysis</i> , 2019, 9, 3694-3699.	5.5	11
13	Highly Selective Nonoxidative Coupling of Methane over Pt-Bi Bimetallic Catalysts. <i>ACS Catalysis</i> , 2018, 8, 2735-2740.	5.5	89
14	Bi <sub>5</sub> O <sub>7</sub> NO <sub>3</sub> and Ag/Bi <sub>5</sub> O <sub>7</sub> NO <sub>3</sub> composites: one-step solution combustion synthesis, characterization and photocatalytic properties. <i>CrystEngComm</i> , 2018, 20, 7536-7542.	1.3	8
15	Bio-Oil Upgrading Using Methane: A Mechanistic Study of Reactions of Model Compound Guaiacol over Pt-Bi Bimetallic Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 17368-17375.	3.2	6
16	Low-temperature selective oxidation of methanol over Pt-Bi bimetallic catalysts. <i>Journal of Catalysis</i> , 2018, 363, 144-153.	3.1	17
17	Kinetics of guaiacol deoxygenation using methane over the Pt-Bi catalyst. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 36-43.	1.9	8
18	Kinetics of glycerol conversion to hydrocarbon fuels over Pd/HZSM-5 catalyst. <i>AIChE Journal</i> , 2017, 63, 5445-5451.	1.8	7

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19	An experimental and theoretical study of glycerol oxidation to 1,3-dihydroxyacetone over bimetallic Pt-Bi catalysts. <i>AIChE Journal</i> , 2017, 63, 705-715.	1.8	60
20	Conversion of Glycerol to Hydrocarbon Fuels via Bifunctional Catalysts. <i>ACS Energy Letters</i> , 2016, 1, 963-968.	8.8	41
21	Guaiacol Hydrodeoxygenation over Platinum Catalyst: Reaction Pathways and Kinetics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 10638-10644.	1.8	88
22	Catalytic Deoxygenation of Guaiacol Using Methane. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2606-2610.	3.2	18
23	A Universal Procedure for Crude Glycerol Purification from Different Feedstocks in Biodiesel Production: Experimental and Simulation Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 14291-14296.	1.8	89
24	Experimental and Modeling Study of Continuous Catalytic Transesterification to Biodiesel in a Bench-Scale Fixed-Bed Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 11860-11865.	1.8	26
25	Kinetics of the Transesterification Reaction Catalyzed by Solid Base in a Fixed-Bed Reactor. <i>Energy &amp; Fuels</i> , 2010, 24, 5829-5833.	2.5	57