

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	Insights into the Influence of CeO ₂ Crystal Facet on CO ₂ Hydrogenation to Methanol over Pd/CeO ₂ Catalysts. ACS Catalysis, 2020, 10, 11493-11509.	5.5	391
2	A Universal Procedure for Crude Glycerol Purification from Different Feedstocks in Biodiesel Production: Experimental and Simulation Study. Industrial & Engineering Chemistry Research, 2013, 52, 14291-14296.	1.8	89
3	Highly Selective Nonoxidative Coupling of Methane over Pt-Bi Bimetallic Catalysts. ACS Catalysis, 2018, 8, 2735-2740.	5.5	89
4	Guaiacol Hydrodeoxygenation over Platinum Catalyst: Reaction Pathways and Kinetics. Industrial & Engineering Chemistry Research, 2015, 54, 10638-10644.	1.8	88
5	Direct methane activation by atomically thin platinum nanolayers on two-dimensional metal carbides. Nature Catalysis, 2021, 4, 882-891.	16.1	63
6	Imidazolium ionic liquid functionalized UiO-66-NH ₂ as highly efficient catalysts for chemical fixation of CO ₂ into cyclic carbonates. Microporous and Mesoporous Materials, 2021, 310, 110578.	2.2	61
7	An experimental and theoretical study of glycerol oxidation to 1,3-dihydroxyacetone over bimetallic Pt-Bi catalysts. AIChE Journal, 2017, 63, 705-715.	1.8	60
8	Kinetics of the Transesterification Reaction Catalyzed by Solid Base in a Fixed-Bed Reactor. Energy & Fuels, 2010, 24, 5829-5833.	2.5	57
9	Sustainable value-added C ₃ chemicals from glycerol transformations: A mini review for heterogeneous catalytic processes. Chinese Journal of Chemical Engineering, 2019, 27, 1536-1542.	1.7	47
10	Conversion of Glycerol to Hydrocarbon Fuels via Bifunctional Catalysts. ACS Energy Letters, 2016, 1, 963-968.	8.8	41
11	Identification of the structure of the Bi promoted Pt non-oxidative coupling of methane catalyst: a nanoscale Pt ₃ Bi intermetallic alloy. Catalysis Science and Technology, 2019, 9, 1349-1356.	2.1	31
12	Experimental and Modeling Study of Continuous Catalytic Transesterification to Biodiesel in a Bench-Scale Fixed-Bed Reactor. Industrial & Engineering Chemistry Research, 2012, 51, 11860-11865.	1.8	26
13	Catalytic Deoxygenation of Guaiacol Using Methane. ACS Sustainable Chemistry and Engineering, 2015, 3, 2606-2610.	3.2	18
14	Low-temperature selective oxidation of methanol over Pt-Bi bimetallic catalysts. Journal of Catalysis, 2018, 363, 144-153.	3.1	17
15	Ordered mesoporous Ag/CeO ₂ nanocrystalline via silica-templated solution combustion for enhanced photocatalytic performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 604, 125301.	2.3	16
16	Guaiacol Hydrodeoxygenation and Hydrogenation over Bimetallic Pt-M (Nb, W, Zr)/KIT-6 Catalysts with Tunable Acidity. ACS Sustainable Chemistry and Engineering, 2022, 10, 4831-4838.	3.2	16
17	Hydrogenolysis of glycerol to propanediols over silicotungstic acid catalysts intercalated with CuZnFe hydroxalate-like compounds. Catalysis Today, 2021, 368, 224-231.	2.2	15
18	Role of Bismuth in the Stability of Pt-Bi Bimetallic Catalyst for Methane Mediated Deoxygenation of Guaiacol, an APXPS Study. ACS Catalysis, 2019, 9, 3694-3699.	5.5	11

#	ARTICLE	IF	CITATIONS
19	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
20	Kinetics of guaiacol deoxygenation using methane over the Pt-Bi catalyst. <i>Reaction Chemistry and Engineering</i> , 2017, 2, 36-43.	1.9	8
21	Bi ₅ O ₇ NO ₃ and Ag/Bi ₅ O ₇ NO ₃ composites: one-step solution combustion synthesis, characterization and photocatalytic properties. <i>CrystEngComm</i> , 2018, 20, 7536-7542.	1.3	8
22	Kinetics of glycerol conversion to hydrocarbon fuels over Pd/HZSM-5 catalyst. <i>AIChE Journal</i> , 2017, 63, 5445-5451.	1.8	7
23	One-step solution combustion synthesis of micro-nano-scale porous Cu/CeO ₂ with enhanced photocatalytic properties. <i>Journal of Rare Earths</i> , 2023, 41, 250-258.	2.5	7
24	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
25	Refinement of the kinetic model for guaiacol hydrodeoxygenation over platinum catalysts. <i>AIChE Journal</i> , 2020, 66, e16913.	1.8	4