Hao Xu

List of Publications by Year
in descending order

16	548	840585 11	1058333 14
papers	citations	h-index	g-index

16	16	16	530
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A low content Au-based catalyst for hydrochlorination of C₂H₂and its industrial scale-up for future PVC processes. Green Chemistry, 2015, 17, 356-364.	4.6	104
2	Stabilizing Au(III) in supported-ionic-liquid-phase (SILP) catalyst using CuCl2 via a redox mechanism. Applied Catalysis B: Environmental, 2017, 206, 175-183.	10.8	80
3	Alternative solvent to aqua regia to activate Au/AC catalysts for the hydrochlorination of acetylene. Journal of Catalysis, 2017, 350, 149-158.	3.1	61
4	Homogeneous and Real Super Tough Multi-Bond Network Hydrogels Created through a Controllable Metal Ion Permeation Strategy. ACS Applied Materials & Interfaces, 2019, 11, 42856-42864.	4.0	51
5	Green production of PVC from laboratory to industrialization: State-of-the-art review of heterogeneous non-mercury catalysts for acetylene hydrochlorination. Journal of Industrial and Engineering Chemistry, 2018, 65, 13-25.	2.9	49
6	A ligand coordination approach for high reaction stability of an Auâ€“Cu bimetallic carbon-based catalyst in the acetylene hydrochlorination process. Catalysis Science and Technology, 2016, 6, 1357-1366.	2.1	46
7	Elaborately Designed Hierarchical Heterostructures Consisting of Carbonâ€Coated TiO₂(B) Nanosheets Decorated with Fe₃O₄ Nanoparticles for Remarkable Synergy in Highâ€Rate Lithium Storage. Advanced Materials Interfaces, 2015, 2, 1500239.	1.9	41
8	Multi-bond network hydrogels with robust mechanical and self-healable properties. Chinese Journal of Polymer Science (English Edition), 2017, 35, 1253-1267.	2.0	26
9	Biomimetic Gradient Hydrogel Actuators with Ultrafast Thermo-Responsiveness and High Strength. ACS Applied Materials & Interfaces, 2022, 14, 32541-32550.	4.0	25
10	Ionic liquids-coordinated Au catalysts for acetylene hydrochlorination: DFT approach towards reaction mechanism and adsorption energy. Catalysis Science and Technology, 2018, 8, 1176-1182.	2.1	24
11	How can multi-bond network hydrogels dissipate energy more effectively: an investigation on the relationship between network structure and properties. Soft Matter, 2020, 16, 4407-4413.	1.2	24
12	The interactive role of methane beyond a reactant in crude oil upgrading. Communications Chemistry, 2021, 4, .	2.0	8
13	Implementation of TPC-DS Testing Tool. , 2010, , .		4
14	Catalytic Mechanism Comparison Between 1,2-Dichloroethane-Acetylene Exchange Reaction and Acetylene Hydrochlorination Reaction for Vinyl Chloride Production: DFT Calculations and Experiments. Catalysts, 2020, 10, 204.	1.6	3
15	The Kinetics Model and Fixed Bed Reactor Simulation of Cu Catalyst for Acetylene Hydrochlorination. International Journal of Chemical Reactor Engineering, 2017, 15, .	0.6	2
16	Biomass Valorization Under Methane Environment. , 2022, , 163-193.		0