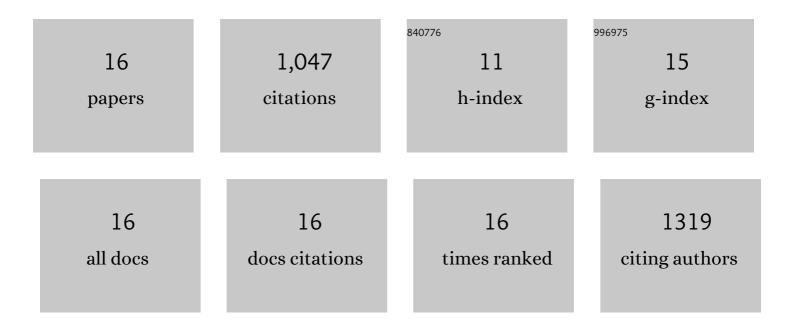
## Hanyu Gao

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5432779/publications.pdf Version: 2024-02-01



ΗΛΝΥΠΟΛΟ

#	Article	IF	CITATIONS
1	A robotic platform for flow synthesis of organic compounds informed by AI planning. Science, 2019, 365, .	12.6	548
2	Using Machine Learning To Predict Suitable Conditions for Organic Reactions. ACS Central Science, 2018, 4, 1465-1476.	11.3	245
3	Acceleration of Kinetic Monte Carlo Method for the Simulation of Free Radical Copolymerization through Scaling. Industrial & amp; Engineering Chemistry Research, 2015, 54, 11975-11985.	3.7	40
4	On the modeling of number and weight average molecular weight of polymers. Chemical Engineering Journal, 2017, 327, 906-913.	12.7	33
5	Towards efficient discovery of green synthetic pathways with Monte Carlo tree search and reinforcement learning. Chemical Science, 2020, 11, 10959-10972.	7.4	31
6	Machine learning for design principles for single atom catalysts towards electrochemical reactions. Journal of Materials Chemistry A, 2022, 10, 15309-15331.	10.3	28
7	Automated Chemical Reaction Extraction from Scientific Literature. Journal of Chemical Information and Modeling, 2022, 62, 2035-2045.	5.4	26
8	Design of Copolymers Based on Sequence Distribution for a Targeted Molecular Weight and Conversion. Macromolecular Theory and Simulations, 2014, 23, 564-574.	1.4	22
9	Acceleration of kinetic monte carlo simulations of free radical copolymerization: A hybrid approach with scaling. AICHE Journal, 2017, 63, 4013-4021.	3.6	18
10	Application and comparison of derivative-free optimization algorithms to control and optimize free radical polymerization simulated using the kinetic Monte Carlo method. Computers and Chemical Engineering, 2018, 108, 268-275.	3.8	17
11	Artificial Intelligence for Computer-Aided Synthesis In Flow: Analysis and Selection of Reaction Components. Frontiers in Chemical Engineering, 2020, 2, .	2.7	16
12	Machine Learning and Data Science in Chemical Engineering. Industrial & Engineering Chemistry Research, 2022, 61, 8357-8358.	3.7	9
13	Combining retrosynthesis and mixed-integer optimization for minimizing the chemical inventory needed to realize a WHO essential medicines list. Reaction Chemistry and Engineering, 2020, 5, 367-376.	3.7	5
14	Direct Optimization across Computer-Generated Reaction Networks Balances Materials Use and Feasibility of Synthesis Plans for Molecule Libraries. Journal of Chemical Information and Modeling, 2021, 61, 493-504.	5.4	5
15	A Combined Computational and Experimental Study of Copolymerization Propagation Kinetics for 1â&Ethylcyclopentyl methacrylate and Methyl methacrylate. Macromolecular Theory and Simulations, 2016, 25, 263-273.	1.4	4
16	A Combined Computational and Experimental Study of Copolymerization Propagation Kinetics for 1-Ethylcyclopentyl methacrylate and Methyl methacrylate. Macromolecular Theory and Simulations, 2016, 25, 263-273.	1.4	0