

Ryan A Hackler

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

1,334
citations

687363

13
h-index

996975

15
g-index

17
all docs

17
docs citations

17
times ranked

1764
citing authors

#	ARTICLE	IF	CITATIONS
1	Expanding applications of SERS through versatile nanomaterials engineering. <i>Chemical Society Reviews</i> , 2017, 46, 3886-3903.	38.1	316
2	Upcycling Single-Use Polyethylene into High-Quality Liquid Products. <i>ACS Central Science</i> , 2019, 5, 1795-1803.	11.3	283
3	Catalytic upcycling of high-density polyethylene via a processive mechanism. <i>Nature Catalysis</i> , 2020, 3, 893-901.	34.4	262
4	High-Resolution Distance Dependence Study of Surface-Enhanced Raman Scattering Enabled by Atomic Layer Deposition. <i>Nano Letters</i> , 2016, 16, 4251-4259.	9.1	136
5	Atomically Precise Strategy to a PtZn Alloy Nanocluster Catalyst for the Deep Dehydrogenation of <i>n</i> -Butane to 1,3-Butadiene. <i>ACS Catalysis</i> , 2018, 8, 10058-10063.	11.2	67
6	Size-Controlled Nanoparticles Embedded in a Mesoporous Architecture Leading to Efficient and Selective Hydrogenolysis of Polyolefins. <i>Journal of the American Chemical Society</i> , 2022, 144, 5323-5334.	13.7	60
7	Catalytic carbon-carbon bond cleavage and carbon-element bond formation give new life for polyolefins as biodegradable surfactants. <i>CheM</i> , 2021, 7, 1347-1362.	11.7	50
8	Identification of Dimeric Methylalumina Surface Species during Atomic Layer Deposition Using <i>Operando</i> Surface-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 2456-2463.	13.7	34
9	Analysis of TiO ₂ Atomic Layer Deposition Surface Chemistry and Evidence of Propene Oligomerization Using Surface-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 414-422.	13.7	31
10	Probing the Chemistry of Alumina Atomic Layer Deposition Using <i>Operando</i> Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3822-3833.	3.1	28
11	Synthetic Lubricants Derived from Plastic Waste and their Tribological Performance. <i>ChemSusChem</i> , 2021, 14, 4181-4189.	6.8	25
12	Scalable Synthesis of Pt/SrTiO ₃ Hydrogenolysis Catalysts in Pursuit of Manufacturing-Relevant Waste Plastic Solutions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58691-58700.	8.0	19
13	Isomerization and Selective Hydrogenation of Propyne: Screening of Metal-Organic Frameworks Modified by Atomic Layer Deposition. <i>Journal of the American Chemical Society</i> , 2020, 142, 20380-20389.	13.7	15
14	Ethylene polymerization with a crystallographically well-defined metal-organic framework supported catalyst. <i>Catalysis Science and Technology</i> , 2022, 12, 1619-1627.	4.1	6
15	Submonolayer Is Enough: Switching Reaction Channels on Pt/SiO ₂ by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18725-18733.	3.1	2
16	Orientation of 1,10-Bi-2-naphthol Grafted onto TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2022, 126, 7980-7990.	3.1	0