

Rui Huang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,805
citations

304602

22
h-index

302012

39
g-index

43
all docs

43
docs citations

43
times ranked

2293
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfur vacancy-rich MoS ₂ as a catalyst for the hydrogenation of CO ₂ to methanol. Nature Catalysis, 2021, 4, 242-250.	16.1	308
2	CO ₂ Activation over Catalytic Surfaces. ChemPhysChem, 2017, 18, 3135-3141.	1.0	228
3	Revealing the Origin of Activity in Nitrogen-Doped Nanocarbons towards Electrocatalytic Reduction of Carbon Dioxide. ChemSusChem, 2016, 9, 1085-1089.	3.6	143
4	Direct Insight into Ethane Oxidative Dehydrogenation over Boron Nitrides. ChemCatChem, 2017, 9, 3293-3297.	1.8	112
5	Free-Standing Three-Dimensional CuCo ₂ S ₄ Nanosheet Array with High Catalytic Activity as an Efficient Oxygen Electrode for Lithium-Oxygen Batteries. ACS Applied Materials & Interfaces, 2019, 11, 3834-3842.	4.0	75
6	Highly Selective Production of Ethylene by the Electroreduction of Carbon Monoxide. Angewandte Chemie - International Edition, 2020, 59, 154-160.	7.2	68
7	Insight into the Enhanced Selectivity of Phosphate-Modified Annealed Nanodiamond for Oxidative Dehydrogenation Reactions. ACS Catalysis, 2015, 5, 2436-2444.	5.5	58
8	Deciphering key intermediates in the transformation of carbon dioxide into heterocyclic products. Nature Catalysis, 2019, 2, 62-70.	16.1	56
9	Insight into the chemical adsorption properties of CO molecules supported on Au or Cu and hybridized Au-CuO nanoparticles. Nanoscale, 2017, 9, 15033-15043.	2.8	51
10	New insights into the oxidative dehydrogenation of propane on borate-modified nanodiamond. Chemical Communications, 2015, 51, 9145-9148.	2.2	49
11	Rotating-tool diamond turning of Fresnel lenses on a roller mold for manufacturing of functional optical film. Precision Engineering, 2018, 51, 445-457.	1.8	49
12	Highly efficient conversion of methane to formic acid under mild conditions at ZSM-5-confined Fe-sites. Nano Energy, 2021, 82, 105718.	8.2	47
13	Selective and Stable Ethylbenzene Dehydrogenation to Styrene over Nanodiamonds under Oxygen-Clean Conditions. ChemSusChem, 2016, 9, 662-666.	3.6	43
14	Nitrogen-doped carbon nanotubes as bifunctional catalysts with enhanced catalytic performance for selective oxidation of ethanol. Carbon, 2017, 111, 519-528.	5.4	43
15	Catalytic conversion of C1 molecules under mild conditions. EnergyChem, 2021, 3, 100050.	10.1	42
16	Ultra-precision machining of radial Fresnel lens on roller moulds. CIRP Annals - Manufacturing Technology, 2015, 64, 121-124.	1.7	38
17	Oxygen breaks into carbon nanotubes and abstracts hydrogen from propane. Carbon, 2016, 96, 631-640.	5.4	38
18	Different Crystal Forms of ZnS Nanomaterials for the Adsorption of Elemental Mercury. Environmental Science & Technology, 2021, 55, 6965-6974.	4.6	32

#	ARTICLE	IF	CITATIONS
19	Evolution and Reactivity of Active Oxygen Species on sp^2 @ sp^3 Core-Shell Carbon for the Oxidative Dehydrogenation Reaction. <i>ChemCatChem</i> , 2014, 6, 2270-2275.	1.8	29
20	Enhanced cyclability of rechargeable LiO_2 batteries enabled by boron carbide. <i>RSC Advances</i> , 2015, 5, 103019-103022.	1.7	25
21	Multi-Walled Carbon Nanotubes as a Catalyst for Gas-Phase Oxidation of Ethanol to Acetaldehyde. <i>ChemSusChem</i> , 2016, 9, 1820-1826.	3.6	24
22	Suppression of diamond tool wear in machining of tungsten carbide by combining ultrasonic vibration and electrochemical processing. <i>Ceramics International</i> , 2018, 44, 4142-4153.	2.3	23
23	Phosphate-Modified Carbon Nanotubes in the Oxidative Dehydrogenation of Isopentanes. <i>ChemSusChem</i> , 2014, 7, 3476-3482.	3.6	21
24	Phosphate modified carbon nanotubes for oxidative dehydrogenation of n-butane. <i>Journal of Energy Chemistry</i> , 2016, 25, 349-353.	7.1	19
25	High-efficiency swinging-rotating diamond shaping of Fresnel lenses on roller molds. <i>CIRP Annals - Manufacturing Technology</i> , 2018, 67, 121-124.	1.7	19
26	Ultra-precision machining of grayscale pixelated micro images on metal surface. <i>Precision Engineering</i> , 2018, 52, 211-220.	1.8	18
27	Formation of SS316L Single Tracks in Micro Selective Laser Melting: Surface, Geometry, and Defects. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-9.	1.0	18
28	Profile evaluation of radial Fresnel lens directly machined on roller molds by rotating-tool diamond turning. <i>Precision Engineering</i> , 2017, 50, 44-52.	1.8	16
29	Effect of graphitization of oxygen-modified carbon nanotubes in selective oxidation of acrolein. <i>Catalysis Today</i> , 2019, 330, 142-148.	2.2	16
30	Roll-to-Roll Embossing of Optical Radial Fresnel Lenses on Polymer Film for Concentrator Photovoltaics: A Feasibility Study. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 77-88.	2.7	16
31	The difference between borate and phosphate modified carbon nanotubes in isopentane oxidative dehydrogenation. <i>Catalysis Today</i> , 2015, 249, 161-166.	2.2	13
32	Abrasive-free polishing of tungsten alloy using electrochemical etching. <i>Electrochemistry Communications</i> , 2017, 82, 80-84.	2.3	13
33	Highly Selective Production of Ethylene by the Electroreduction of Carbon Monoxide. <i>Angewandte Chemie</i> , 2020, 132, 160-166.	1.6	13
34	Phosphorus oxide clusters stabilized by carbon nanotubes for selective isomerization and dehydrogenation of β -isopentene. <i>Catalysis Science and Technology</i> , 2018, 8, 1522-1527.	2.1	11
35	Suppression of diamond tool wear with sub-millisecond oxidation in ultrasonic vibration cutting of steel. <i>Journal of Materials Processing Technology</i> , 2022, 299, 117320.	3.1	10
36	Error Modeling and Path Planning for Freeform Surfaces by Laser Triangulation On-Machine Measurement. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-11.	2.4	10

#	ARTICLE	IF	CITATIONS
37	Reconfigured multi-axis diamond shaping of complex monolithic optics. CIRP Annals - Manufacturing Technology, 2022, 71, 69-72.	1.7	5
38	Micromachining of a roller mould and roll-to-roll imprinting to form large area optical films with radial Fresnel lens arrays. Japanese Journal of Applied Physics, 2017, 56, 05EA02.	0.8	3
39	Frontispiece: Highly Selective Production of Ethylene by the Electroreduction of Carbon Monoxide. Angewandte Chemie - International Edition, 2020, 59, .	7.2	0
40	Frontispiz: Highly Selective Production of Ethylene by the Electroreduction of Carbon Monoxide. Angewandte Chemie, 2020, 132, .	1.6	0