

William P Mcdermott

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,655
citations

566801

15
h-index

752256

20
g-index

24
all docs

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docs citations

24
times ranked

1568
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ IR Spectroscopy Study of Reactions of C ₃ Oxygenates on Heteroatom (Sn, Mo, and W) doped BEA Zeolites and the Effect of Co-adsorbed Water. <i>ChemCatChem</i> , 2021, 13, 445-458.	1.8	6
2	Highly Selective Carbon-Supported Boron for Oxidative Dehydrogenation of Propane. <i>ChemCatChem</i> , 2021, 13, 3611-3618.	1.8	17
3	Controlled Grafting Synthesis of Silica-Supported Boron for Oxidative Dehydrogenation Catalysis. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12636-12649.	1.5	19
4	Selective Oxidative Cracking of <i>n</i> -Butane to Light Olefins over Hexagonal Boron Nitride with Limited Formation of CO _x . <i>ChemSusChem</i> , 2020, 13, 152-158.	3.6	28
5	Structure Determination of Boron-Based Oxidative Dehydrogenation Heterogeneous Catalysts With Ultrahigh Field 35.2 T ¹¹ B Solid-State NMR Spectroscopy. <i>ACS Catalysis</i> , 2020, 10, 13852-13866.	5.5	39
6	Recent Advances in the Understanding of Boron-Containing Catalysts for the Selective Oxidation of Alkanes to Olefins. <i>Topics in Catalysis</i> , 2020, 63, 1700-1707.	1.3	12
7	Why Boron Nitride is such a Selective Catalyst for the Oxidative Dehydrogenation of Propane. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16527-16535.	7.2	75
8	Why Boron Nitride is such a Selective Catalyst for the Oxidative Dehydrogenation of Propane. <i>Angewandte Chemie</i> , 2020, 132, 16670-16678.	1.6	7
9	β-MWW Zeolite: The Case Against Single-Site Catalysis. <i>Angewandte Chemie</i> , 2020, 132, 6608-6612.	1.6	12
10	β-MWW Zeolite: The Case Against Single-Site Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6546-6550.	7.2	54
11	Synthesis and Characterization of Silica-Supported Boron Oxide Catalysts for the Oxidative Dehydrogenation of Propane. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27000-27011.	1.5	57
12	Probing the Transformation of Boron Nitride Catalysts under Oxidative Dehydrogenation Conditions. <i>Journal of the American Chemical Society</i> , 2019, 141, 182-190.	6.6	135
13	Aerobic Oxidations of Light Alkanes over Solid Metal Oxide Catalysts. <i>Chemical Reviews</i> , 2018, 118, 2769-2815.	23.0	237
14	Serendipity in Catalysis Research: Boron-Based Materials for Alkane Oxidative Dehydrogenation. <i>Accounts of Chemical Research</i> , 2018, 51, 2556-2564.	7.6	95
15	Selective Oxidation of <i>n</i> -Butane and Isobutane Catalyzed by Boron Nitride. <i>ChemCatChem</i> , 2017, 9, 2118-2127.	1.8	84
16	Influence of Tin Loading and Pore Size of Sn/MCM-41 Catalysts on the Synthesis of Nopol. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 6590-6598.	1.8	15
17	Boron and Boron-Containing Catalysts for the Oxidative Dehydrogenation of Propane. <i>ChemCatChem</i> , 2017, 9, 3622-3622.	1.8	82
18	Boron and Boron-Containing Catalysts for the Oxidative Dehydrogenation of Propane. <i>ChemCatChem</i> , 2017, 9, 3623-3626.	1.8	105

#	ARTICLE	IF	CITATIONS
19	Selective oxidative dehydrogenation of propane to propene using boron nitride catalysts. Science, 2016, 354, 1570-1573.	6.0	522
20	Mechanistic Study on the Lewis Acid Catalyzed Synthesis of 1,3-Butadiene over Ta-BEA Using Modulated Operando DRIFTS-MS. ACS Catalysis, 2016, 6, 6823-6832.	5.5	54