

Luke M Neal

List of Publications by Year in descending order

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35
papers

1,887
citations

304743

22
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377865

34
g-index

36
all docs

36
docs citations

36
times ranked

1629
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Intensified Ethylene Production—A Review. ACS Catalysis, 2019, 9, 8592-8621.	11.2	227
2	Dynamic Methane Partial Oxidation Using a $\text{Fe}_{2}\text{O}_{3}$ @ $\text{La}_{0.8}\text{Sr}_{0.2}\text{FeO}_{3-\delta}$ Core-Shell Redox Catalyst in the Absence of Gaseous Oxygen. ACS Catalysis, 2014, 4, 3560-3569.	11.2	163
3	Perovskites as Geo-inspired Oxygen Storage Materials for Chemical Looping and Three-Way Catalysis: A Perspective. ACS Catalysis, 2018, 8, 8213-8236.	11.2	152
4	Effect of support on redox stability of iron oxide for chemical looping conversion of methane. Applied Catalysis B: Environmental, 2015, 164, 371-379.	20.2	137
5	Steam reforming of methanol using Cu-ZnO catalysts supported on nanoparticle alumina. Applied Catalysis B: Environmental, 2008, 84, 631-642.	20.2	126
6	Effect of Promoters on Manganese-Containing Mixed Metal Oxides for Oxidative Dehydrogenation of Ethane via a Cyclic Redox Scheme. ACS Catalysis, 2017, 7, 5163-5173.	11.2	96
7	Li-Promoted $\text{La}_{x}\text{Sr}_{2-x}\text{FeO}_{4-\delta}$ Core-Shell Redox Catalysts for Oxidative Dehydrogenation of Ethane under a Cyclic Redox Scheme. ACS Catalysis, 2016, 6, 7293-7302.	11.2	95
8	Effect of core and shell compositions on $\text{MeO}@\text{LaSr}\text{FeO}_{3}$ core-shell redox catalysts for chemical looping reforming of methane. Applied Energy, 2015, 157, 391-398.	10.1	94
9	Oxidative Dehydrogenation of Ethane: A Chemical Looping Approach. Energy Technology, 2016, 4, 1200-1208.	3.8	88
10	Oxidative dehydrogenation of ethane under a cyclic redox scheme—Process simulations and analysis. Energy, 2017, 119, 1024-1035.	8.8	62
11	Parahydrogen-Induced Polarization by Pairwise Replacement Catalysis on Pt and Ir Nanoparticles. Journal of the American Chemical Society, 2015, 137, 1938-1946.	13.7	56
12	Manganese silicate based redox catalysts for greener ethylene production via chemical looping—oxidative dehydrogenation of ethane. Applied Catalysis B: Environmental, 2018, 232, 77-85.	20.2	55
13	Effects of Sodium and Tungsten Promoters on $\text{Mg}_{6}\text{MnO}_{8}$ -Based Core-Shell Redox Catalysts for Chemical Looping—Oxidative Dehydrogenation of Ethane. ACS Catalysis, 2019, 9, 3174-3186.	11.2	52
14	Mixed iron-manganese oxides as redox catalysts for chemical looping—oxidative dehydrogenation of ethane with tailorable heat of reactions. Applied Catalysis B: Environmental, 2019, 257, 117885.	20.2	50
15	Characterization of ZrO_{2} -promoted Cu/ZnO/nano- $\text{Al}_{2}\text{O}_{3}$ methanol steam reforming catalysts. Applied Surface Science, 2010, 256, 7345-7353.	6.1	44
16	Intensification of Ethylene Production from Naphtha via a Redox Oxy-Cracking Scheme: Process Simulations and Analysis. Engineering, 2018, 4, 714-721.	6.7	43
17	Perovskite oxides for redox oxidative cracking of n-hexane under a cyclic redox scheme. Applied Catalysis B: Environmental, 2019, 246, 30-40.	20.2	43
18	Intensified Ethylene Production via Chemical Looping through an Energetically Efficient Redox Scheme. IScience, 2019, 19, 894-904.	4.1	38

#	ARTICLE	IF	CITATIONS
19	A tailored multi-functional catalyst for ultra-efficient styrene production under a cyclic redox scheme. <i>Nature Communications</i> , 2021, 12, 1329.	12.8	35
20	C-H activation and C-C coupling of 4-methylpyridine using palladium supported on nanoparticle alumina. <i>Journal of Molecular Catalysis A</i> , 2008, 284, 141-148.	4.8	33
21	Parahydrogen enhanced NMR reveals correlations in selective hydrogenation of triple bonds over supported Pt catalyst. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26121-26129.	2.8	29
22	Sodium tungstate-promoted CaMnO ₃ as an effective, phase-transition redox catalyst for redox oxidative cracking of cyclohexane. <i>Journal of Catalysis</i> , 2020, 385, 213-223.	6.2	26
23	Characterization of palladium oxide catalysts supported on nanoparticle metal oxides for the oxidative coupling of 4-methylpyridine. <i>Journal of Molecular Catalysis A</i> , 2011, 335, 210-221.	4.8	24
24	Characterization of alumina-supported palladium oxide catalysts used in the oxidative coupling of 4-methylpyridine. <i>Journal of Molecular Catalysis A</i> , 2010, 325, 25-35.	4.8	17
25	Zeolite-assisted core-shell redox catalysts for efficient light olefin production via cyclohexane redox oxidative cracking. <i>Chemical Engineering Journal</i> , 2021, 409, 128192.	12.7	17
26	The influence of ZnO, CeO ₂ and ZrO ₂ on nanoparticle-oxide-supported palladium oxide catalysts for the oxidative coupling of 4-methylpyridine. <i>Journal of Molecular Catalysis A</i> , 2011, 341, 42-50.	4.8	14
27	LaNi ₃ FeO ₃ as a Robust Redox Catalyst for CO ₂ Splitting and Methane Partial Oxidation. <i>Energy & Fuels</i> , 2021, 35, 13921-13929.	5.1	14
28	Ethane to liquids via a chemical looping approach – Redox catalyst demonstration and process analysis. <i>Chemical Engineering Journal</i> , 2021, 417, 128886.	12.7	13
29	Methane Catalytic Pyrolysis by Microwave and Thermal Heating over Carbon Nanotube-Supported Catalysts: Productivity, Kinetics, and Energy Efficiency. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 5080-5092.	3.7	13
30	Effects of nanoparticle and porous metal oxide supports on the activity of palladium catalysts in the oxidative coupling of 4-methylpyridine. <i>Journal of Molecular Catalysis A</i> , 2009, 307, 29-36.	4.8	12
31	Modular-scale ethane to liquids via chemical looping oxidative dehydrogenation: Redox catalyst performance and process analysis. <i>Journal of Advanced Manufacturing and Processing</i> , 2019, 1, .	2.4	8
32	Autothermal Chemical Looping Oxidative Dehydrogenation of Ethane: Redox Catalyst Performance, Longevity, and Process Analysis. <i>Energy & Fuels</i> , 2022, 36, 9736-9744.	5.1	8
33	Oxygen Generation from Carbon Dioxide for Advanced Life Support. <i>ECS Transactions</i> , 2007, 11, 173-179.	0.5	1
34	Effect of Liquid Barrier Layer on Open-Cathode Direct Methanol Fuel Cell Systems. , 2011, , .		1
35	Concurrent CO ₂ Control and O ₂ Generation for Space Suits and Other Advanced Life Support: A Feasibility Study. , 0, , .		0