

Dushyant Shekhawat

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,810
citations

279798

23
h-index

289244

40
g-index

65
all docs

65
docs citations

65
times ranked

1740
citing authors

#	ARTICLE	IF	CITATIONS
1	A combined experimental and modeling study of Microwave-assisted methane dehydroaromatization process. <i>Chemical Engineering Journal</i> , 2022, 433, 134445.	12.7	14
2	Comparative evaluation of microwave and conventional gasification of different coal types: Experimental reaction studies. <i>Fuel</i> , 2022, 321, 124055.	6.4	23
3	Zeolites interactions with microwaves during methane non-oxidative coupling. <i>Catalysis Today</i> , 2021, 365, 88-102.	4.4	4
4	Microwave-assisted ammonia synthesis over Ru/MgO catalysts at ambient pressure. <i>Catalysis Today</i> , 2021, 365, 103-110.	4.4	18
5	Microwave-induced selective decomposition of cellulose: Computational and experimental mechanistic study. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 150, 109858.	4.0	9
6	Comparison of microwave and conventional heating for CO ₂ desorption from zeolite 13X. <i>International Journal of Greenhouse Gas Control</i> , 2021, 107, 103311.	4.6	20
7	Study of the Hydrogen Pretreatment of Gallium and Platinum Promoted ZSM-5 for the Ethane Dehydroaromatization Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 11421-11431.	3.7	10
8	Microwave-assisted conversion of methane over H-(Fe)-ZSM-5: Evidence for formation of hot metal sites. <i>Chemical Engineering Journal</i> , 2021, 420, 129670.	12.7	18
9	Microwave-enhanced catalytic ammonia synthesis under moderate pressure and temperature. <i>Catalysis Communications</i> , 2021, 159, 106344.	3.3	14
10	Effects of support and promoter on Ru catalyst activity in microwave-assisted ammonia synthesis. <i>Chemical Engineering Journal</i> , 2021, 425, 130546.	12.7	11
11	Machine learning approach to transform scattering parameters to complex permittivities. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2021, 55, 287-302.	0.8	2
12	Development of Fe-based oxygen carrier using spent FCC catalyst as support for high temperature chemical looping combustion. <i>Fuel</i> , 2020, 259, 116239.	6.4	17
13	Effect of calcination temperature on steam reforming activity of Ni-based pyrochlore catalysts. <i>Journal of Rare Earths</i> , 2020, 38, 711-718.	4.8	9
14	Effect of Char Loading on Reduction Kinetics of Cu-Based Oxygen Carriers in a Drop-Tube Fluidized-Bed Reactor at Temperatures from 850 to 1100 °C: Experiment and CFD Modeling. <i>Energy & Fuels</i> , 2020, 34, 728-741.	5.1	2
15	Interaction of manganese with aluminosilicate support during high temperature (1100 °C) chemical looping combustion of the Fe-Mn-based oxygen carrier. <i>Fuel</i> , 2020, 263, 116738.	6.4	22
16	Methane steam reforming at low steam-to-carbon ratio: The effect of Y doping in Rh substituted lanthanum zirconates. <i>Applied Catalysis A: General</i> , 2020, 606, 117802.	4.3	11
17	Microwave-driven heterogeneous catalysis for activation of dinitrogen to ammonia under atmospheric pressure. <i>Chemical Engineering Journal</i> , 2020, 397, 125388.	12.7	39
18	The effect of La substitution by Sr- and Ca- in Ni substituted Lanthanum Zirconate pyrochlore catalysts for dry reforming of methane. <i>Applied Catalysis A: General</i> , 2020, 602, 117721.	4.3	22

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19	Catalytic direct conversion of ethane to value-added chemicals under microwave irradiation. <i>Catalysis Today</i> , 2020, 356, 3-10.	4.4	24
20	Dielectric measurement of powdery materials using a coaxial transmission line. <i>IET Science, Measurement and Technology</i> , 2020, 14, 972-978.	1.6	8
21	Effect of Microwave and Thermal Co-pyrolysis of Low-Rank Coal and Pine Wood on Product Distributions and Char Structure. <i>Energy & Fuels</i> , 2019, 33, 7069-7082.	5.1	22
22	Microwave-Assisted Pretreatment of Coal Fly Ash for Enrichment and Enhanced Extraction of Rare-Earth Elements. <i>Energy & Fuels</i> , 2019, 33, 12083-12095.	5.1	20
23	<i>110th Anniversary</i>: Dry Reforming of Methane over Ni- and Sr-Substituted Lanthanum Zirconate Pyrochlore Catalysts: Effect of Ni Loading. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 19386-19396.	3.7	41
24	Dry reforming of methane with isotopic gas mixture over Ni-based pyrochlore catalyst. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4167-4176.	7.1	40
25	Examining and Modeling Oxygen Uncoupling Kinetics of Cu-Based Oxygen Carriers for Chemical Looping with Oxygen Uncoupling (CLOU) in a Drop Tube Fluidized Bed Reactor. <i>Energy & Fuels</i> , 2019, 33, 5610-5619.	5.1	19
26	Coal Chemical-Looping with Oxygen Uncoupling (CLOU) Using a Cu-Based Oxygen Carrier Derived from Natural Minerals. <i>Energies</i> , 2019, 12, 1453.	3.1	7
27	Microwave-Assisted Conversion of Low Rank Coal under Methane Environment. <i>Energy & Fuels</i> , 2019, 33, 905-915.	5.1	8
28	The reactivity of CuO oxygen carrier and coal in Chemical-Looping with Oxygen Uncoupled (CLOU) and In-situ Gasification Chemical-Looping Combustion (iG-CLC). <i>Fuel</i> , 2018, 217, 642-649.	6.4	37
29	Microwave-assisted pyrolysis of Mississippi coal: A comparative study with conventional pyrolysis. <i>Fuel</i> , 2018, 217, 656-667.	6.4	96
30	Ambient pressure synthesis of ammonia using a microwave reactor. <i>Catalysis Communications</i> , 2018, 115, 64-67.	3.3	26
31	Stability of Fe- and Zn-Promoted Mo/ZSM-5 Catalysts for Ethane Dehydroaromatization in Cyclic Operation Mode. <i>Energy & Fuels</i> , 2018, 32, 7810-7819.	5.1	21
32	Characterization of calcination temperature on a Ni-substituted lanthanum-strontium-zirconate pyrochlore. <i>Ceramics International</i> , 2017, 43, 16744-16752.	4.8	27
33	Solid-state synthesis of YAG powders through microwave coupling of oxide/carbon particulate mixtures. <i>Ceramics International</i> , 2017, 43, 11455-11462.	4.8	9
34	Bi-reforming of methane on Ni-based pyrochlore catalyst. <i>Applied Catalysis A: General</i> , 2016, 517, 211-216.	4.3	47
35	Chemical-Looping Combustion and Gasification of Coals and Oxygen Carrier Development: A Brief Review. <i>Energies</i> , 2015, 8, 10605-10635.	3.1	88
36	Carbon formation on Rh-substituted pyrochlore catalysts during partial oxidation of liquid hydrocarbons. <i>Applied Catalysis A: General</i> , 2015, 502, 96-104.	4.3	22

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37	Investigation of the stability of Zn-based HZSM-5 catalysts for methane dehydroaromatization. Applied Catalysis A: General, 2015, 505, 365-374.	4.3	53
38	Effect of Fe and Zn promoters on Mo/HZSM-5 catalyst for methane dehydroaromatization. Fuel, 2015, 139, 401-410.	6.4	96
39	Characterization of LaRhO ₃ perovskites for dry (CO ₂) reforming of methane (DRM). Chemical Papers, 2014, 68, .	2.2	11
40	Kinetic and mechanistic study of dry (CO ₂) reforming of methane over Rh-substituted La ₂ Zr ₂ O ₇ pyrochlores. Journal of Catalysis, 2014, 316, 78-92.	6.2	143
41	Characterization and activity study of the Rh-substituted pyrochlores for CO ₂ (dry) reforming of CH ₄ . Applied Petrochemical Research, 2013, 3, 117-129.	1.3	40
42	Synthesis, characterization, and catalytic activity of Rh-based lanthanum zirconate pyrochlores for higher alcohol synthesis. Catalysis Today, 2013, 207, 65-73.	4.4	56
43	Effect of reaction temperature on activity of Pt- and Ru-substituted lanthanum zirconate pyrochlores (La ₂ Zr ₂ O ₇) for dry (CO ₂) reforming of methane (DRM). Journal of CO ₂ Utilization, 2013, 1, 37-42.	6.8	87
44	Effect of the Catalyst Bed Configuration on the Partial Oxidation of Liquid Hydrocarbons. Energy & Fuels, 2013, 27, 4363-4370.	5.1	7
45	Steamâ€“Coal Gasification Using CaO and KOH for in Situ Carbon and Sulfur Capture. Energy & Fuels, 2013, 27, 4278-4289.	5.1	11
46	Role of metal substitution in lanthanum zirconate pyrochlores (La ₂ Zr ₂ O ₇) for dry (CO ₂) reforming of methane (DRM). Applied Petrochemical Research, 2012, 2, 27-35.	1.3	34
47	Operation of a solid oxide fuel cell on a reformed FAME mixture. Biomass and Bioenergy, 2012, 47, 362-371.	5.7	3
48	Molten catalytic coal gasification with in situ carbon and sulphur capture. Energy and Environmental Science, 2012, 5, 8660.	30.8	24
49	Catalytic Partial Oxidation. , 2011, , 73-128.		7
50	Introduction to Fuel Processing. , 2011, , 1-9.		4
51	Oxidative Steam Reforming. , 2011, , 129-190.		3
52	Partial oxidation of liquid hydrocarbons in the presence of oxygen-conducting supports: Effect of catalyst layer deposition. Fuel, 2010, 89, 1193-1201.	6.4	15
53	Catalytic partial oxidation of a diesel surrogate fuel using an Ru-substituted pyrochlore. Catalysis Today, 2010, 155, 84-91.	4.4	60
54	Reducing the deactivation of Ni-metal during the catalytic partial oxidation of a surrogate diesel fuel mixture. Catalysis Today, 2010, 154, 210-216.	4.4	22

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55	Catalytic Material Development for a SOFC Reforming System: Application of an Oxidative Steam Reforming Catalyst to a Monolithic Reactor. , 2010, , .		0
56	Fuel constituent effects on fuel reforming properties for fuel cell applications. Fuel, 2009, 88, 817-825.	6.4	51
57	Catalytic partial oxidation of n-tetradecane using Rh and Sr substituted pyrochlores: Effects of sulfur. Catalysis Today, 2009, 145, 121-126.	4.4	55
58	Partial Oxidation of n-Tetradecane over 1 wt % Pt/ γ -Al ₂ O ₃ and Co _{0.4} Mo _{0.6} C _x Carbide Catalysts: A Comparative Study. Industrial & Engineering Chemistry Research, 2008, 47, 7663-7671.	3.7	8
59	Effect of nickel hexaaluminate mirror cation on structure-sensitive reactions during n-tetradecane partial oxidation. Applied Catalysis A: General, 2007, 323, 1-8.	4.3	49
60	Effects of fuel cell anode recycle on catalytic fuel reforming. Journal of Power Sources, 2007, 168, 477-483.	7.8	23
61	Process model and economic analysis of itaconic acid production from dimethyl succinate and formaldehyde. Bioresource Technology, 2006, 97, 342-347.	9.6	15
62	Catalytic partial oxidation of n-tetradecane in the presence of sulfur or polynuclear aromatics: Effects of support and metal. Applied Catalysis A: General, 2006, 311, 8-16.	4.3	77
63	Kinetics of Citraconic Anhydride Formation via Condensation of Formaldehyde and Succinates. Organic Process Research and Development, 2002, 6, 611-617.	2.7	3
64	Formation and Recovery of Itaconic Acid from Aqueous Solutions of Citraconic Acid and Succinic Acid. Industrial & Engineering Chemistry Research, 2002, 41, 2069-2073.	3.7	18
65	Formation of citraconic anhydride via condensation of dialkyl succinates and formaldehyde. Applied Catalysis A: General, 2002, 223, 261-273.	4.3	8