Jonathan H Harrhy

List of Publications by Year
in descending order

51	1,647	394421 19	302126 39
papers	citations	h-index	g-index

53	53	53	1926
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Palladium-tin catalysts for the direct synthesis of H ₂ O ₂ with high selectivity. Science, 2016, 351, 965-968.	12.6	465
2	Catalysts for the selective catalytic reduction of NO_x with NH₃ at low temperature. Catalysis Science and Technology, 2015, 5, 4280-4288.	4.1	181
3	A residue-free approach to water disinfection using catalytic in situ generation of reactive oxygen species. Nature Catalysis, 2021, 4, 575-585.	34.4	73
4	Co-aromatization of olefin and methane over Ag-Ga/ZSM-5 catalyst at low temperature. Applied Catalysis B: Environmental, 2017, 211, 275-288.	20.2	61
5	Multi-crystalline N-doped Cu/CuxO/C foam catalyst derived from alkaline N-coordinated HKUST-1/CMC for enhanced 4-nitrophenol reduction. Journal of Colloid and Interface Science, 2019, 553, 1-13.	9.4	50
6	Performance of Zn/ZSM-5 for In Situ Catalytic Upgrading of Pyrolysis Bio-oil by Methane. Topics in Catalysis, 2016, 59, 86-93.	2.8	48
7	Catalytic co-aromatization of methane and heptane as an alkane model compound over Zn-Ga/ZSM-5: A mechanistic study. Applied Catalysis B: Environmental, 2018, 236, 13-24.	20.2	46
8	Catalytic co-aromatization of ethanol and methane. Applied Catalysis B: Environmental, 2016, 198, 480-492.	20.2	42
9	Methane Upgrading of Acetic Acid as a Model Compound for a Biomass-Derived Liquid over a Modified Zeolite Catalyst. ACS Catalysis, 2017, 7, 3681-3692.	11.2	40
10	Refinery oil upgrading under methane environment over PdOx/H-ZSM-5: Highly selective olefin cyclization. Fuel, 2016, 183, 396-404.	6.4	36
11	Nonthermal plasma-catalytic conversion of biogas to liquid chemicals with low coke formation. Energy Conversion and Management, 2019, 191, 93-101.	9.2	35
12	Catalytic Conversion of Biomass by Natural Gas for Oil Quality Upgrading. Industrial & Engineering Chemistry Research, 2014, 53, 15862-15870.	3.7	34
13	Maximizing the production of aromatic hydrocarbons from lignin conversion by coupling methane activation. Bioresource Technology, 2018, 268, 505-513.	9.6	33
14	Co-aromatization of methane with olefins: The role of inner pore and external surface catalytic sites. Applied Catalysis B: Environmental, 2018, 234, 234-246.	20.2	30
15	Olefin Upgrading over Ir/ZSM-5 catalysts under methane environment. Applied Catalysis B: Environmental, 2017, 201, 278-289.	20.2	27
16	Bitumen partial upgrading over Mo/ZSM-5 under methane environment: Methane participation investigation. Applied Catalysis B: Environmental, 2017, 201, 438-450.	20.2	24
17	Low-temperature and low-pressure non-oxidative activation of methane for upgrading heavy oil. Catalysis Science and Technology, 2016, 6, 1201-1213.	4.1	23
18	Inhibiting the Dealkylation of Basic Arenes during n-Alkane Direct Aromatization Reactions and Understanding the C₆ Ring Closure Mechanism. ACS Catalysis, 2020, 10, 8428-8443.	11.2	23

#	Article	IF	Citations
19	Highly selective aromatization and isomerization of n-alkanes from bimetallic Ptâ€“Zn nanoparticles supported on a uniform aluminosilicate. Chemical Communications, 2019, 55, 3355-3358.	4.1	21
20	Highly Selective Aromatization of Octane over Ptâ€“Zn/UZSM-5: The Effect of Ptâ€“Zn Interaction and Pt Position. ACS Applied Materials & Interfaces, 2020, 12, 28273-28287.	8.0	21
21	Olefin upgrading under methane environment over Ag-Ga/ZSM-5 catalyst. Fuel, 2016, 182, 577-587.	6.4	19
22	Catalytic Valorization of Furfural under Methane Environment. ACS Sustainable Chemistry and Engineering, 2018, 6, 8891-8903.	6.7	19
23	Nonthermal Plasma-Assisted Photocatalytic Conversion of Simulated Natural Gas for High-Quality Gasoline Production near Ambient Conditions. Journal of Physical Chemistry Letters, 2020, 11, 3877-3881.	4.6	18
24	Heavy oil catalytic upgrading under methane environment: A small pilot plant evaluation. Fuel, 2019, 258, 116161.	6.4	17
25	Separation of Toluene-Insoluble Solids in the Slurry Oil from a Residual Fluidized Catalytic Cracking Unit: Determination of the Solid Content and Sequential Selective Separation of Solid Components. Energy & Fuels, 2014, 28, 3053-3065.	5.1	16
26	Catalytic aquathermolysis of heavy oil by coordination complex at relatively low temperature. Petroleum Chemistry, 2017, 57, 881-884.	1.4	16
27	Catalytic bitumen partial upgrading over Ag-Ga/ZSM-5 under methane environment. Fuel Processing Technology, 2017, 156, 290-297.	7.2	16
28	Catalytic valorization of biomass derived glycerol under methane: Effect of catalyst synthesis method. Fuel, 2018, 216, 218-226.	6.4	16
29	Direct catalytic co-conversion of cellulose and methane to renewable petrochemicals. Catalysis Science and Technology, 2018, 8, 5632-5645.	4.1	16
30	Non-thermal plasma assisted catalytic reforming of naphtha and its model compounds with methane at near ambient conditions. Applied Catalysis B: Environmental, 2021, 297, 120459.	20.2	16
31	Converting solid wastes into liquid fuel using a novel methanolysis process. Waste Management, 2016, 49, 304-310.	7.4	15
32	Catalytic aromatization of acetone as a model compound for biomass-derived oil under a methane environment. Catalysis Science and Technology, 2018, 8, 5104-5114.	4.1	15
33	Mechanistic Investigation on Catalytic Deoxygenation of Phenol as a Model Compound of Biocrude Under Methane. ACS Sustainable Chemistry and Engineering, 2019, 7, 1512-1523.	6.7	13
34	Zn(II) Complex Catalyzed Coupling Aquathermolysis of Water-Heavy Oil-Methanol at Low Temperature. Petroleum Chemistry, 2018, 58, 197-202.	1.4	12
35	Catalytic asphaltene upgrading under methane environment: Solvent effect and its interaction with oil components. Fuel, 2021, 291, 120157.	6.4	12
36	Participation of methane in an economically and environmentally favorable catalytic asphaltene upgrading process. Chemical Communications, 2020, 56, 5492-5495.	4.1	11

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37	Conversion of naphthalene as model compound of polyaromatics to mono-aromatic hydrocarbons under the mixed hydrogen and methane atmosphere. Fuel, 2019, 243, 469-477.	6.4	10
38	Highly selective olefin hydrogenation: Refinery oil upgrading over bifunctional PdOx/H-ZSM-5 catalyst. Catalysis Communications, 2016, 87, 66-69.	3.3	9
39	Synthesis of multi-alkylpolyamines and their performance as flow improver in crude oil. Tenside, Surfactants, Detergents, 2022, 59, 104-110.	1.2	9
40	The interactive role of methane beyond a reactant in crude oil upgrading. Communications Chemistry, 2021, 4, .	4.5	8
41	One-pot direct conversion of bamboo to aromatics under methane. Fuel, 2020, 267, 117196.	6.4	7
42	Environmentally benign methane-regulated catalytic desulfurization. Applied Catalysis B: Environmental, 2022, 312, 121436.	20.2	7
43	Solvent-free catalytic conversion of xylose with methane to aromatics over Zn-Cr modified zeolite catalyst. Fuel, 2019, 253, 988-996.	6.4	6
44	Highly selective skeletal isomerization of cyclohexene over zeolite-based catalysts for high-purity methylcyclopentene production. Communications Chemistry, 2021, 4, .	4.5	5
45	The function of porous working electrodes for hydrogen production from water splitting in non-thermal plasma reactor. Fuel, 2022, 310, 122156.	6.4	5
46	Organic solid waste upgrading under natural gas for valuable liquid products formation: Pilot demonstration of a highly integrated catalytic process. Bioresource Technology, 2022, 346, 126645.	9.6	5
47	Selective Participation of Methane in Olefin Upgrading over Pd/ZSMâ€5â€‰and Ir/ZSMâ€5: Investigation using Deuterium Enriched Methane. ChemistrySelect, 2017, 2, 252-256.	1.5	4
48	Understanding zeolite deactivation by sulfur poisoning during direct olefin upgrading. Communications Chemistry, 2019, 2, .	4.5	4
49	Non-thermal plasma induced photocatalytic conversion of light alkanes into high value-added liquid chemicals under near ambient conditions. Chemical Communications, 2020, 56, 5263-5266.	4.1	4
50	Co-processing of vacuum residue/fraction oil blends: Effect of fraction oils recycle on the stability of coking feedstock. Journal of Analytical and Applied Pyrolysis, 2014, 109, 109-115.	5.5	2
51	Nonthermal Plasma (NTP)-Assisted Catalytic Conversion of Methane and Other Hydrocarbons. , 2022, , 133-162.		1