

Jim Patel

List of Publications by Year in descending order

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63
papers

1,613
citations

331670

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315739

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docs citations

65
times ranked

1939
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and Theoretical Studies on Water-Added Thermal Processing of Model Biosyngas for Improving Hydrogen Production and Restraining Soot Formation. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 9262-9273.	3.7	2
2	Unveiling the structural transitions during activation of a CO ₂ methanation catalyst RuO ₂ /ZrO ₂ synthesised from a MOF precursor. <i>Catalysis Today</i> , 2021, 368, 66-77.	4.4	27
3	Recent trend in thermal catalytic low temperature CO ₂ methanation: A critical review. <i>Catalysis Today</i> , 2021, 368, 2-19.	4.4	227
4	Liquefied synthetic methane from ambient CO ₂ and renewable H ₂ - A techno-economic study. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 94, 104079.	4.4	22
5	Upgrading of Bio-Syngas via Steam-CO ₂ Reforming Using Rh/Alumina Monolith Catalysts. <i>Catalysts</i> , 2021, 11, 180.	3.5	6
6	The effect of metal additives in Cu/Zn/Al ₂ O ₃ as a catalyst for low-pressure methanol synthesis in an oil-cooled annulus reactor. <i>Catalysis Today</i> , 2020, 343, 183-190.	4.4	10
7	Insights into mesoporous nitrogen-rich carbon induced synergy for the selective synthesis of ethanol. <i>Carbon</i> , 2020, 168, 337-353.	10.3	7
8	In Situ MOF-Templating of Rh Nanocatalysts under Reducing Conditions. <i>Australian Journal of Chemistry</i> , 2020, 73, 1271.	0.9	3
9	Aerosol generation related to respiratory interventions and the effectiveness of a personal ventilation hood. <i>Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine</i> , 2020, 22, 212-220.	0.1	8
10	Intensified isothermal reactor for methanol synthesis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 143, 107606.	3.6	11
11	Feasibility and sustainability analyses of carbon dioxide "hydrogen separation via de-sublimation process in comparison with other processes. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 23120-23134.	7.1	20
12	The thickening of carbon fibers via a 3D island growth mechanism: New insights from a theoretical and experimental study. <i>Carbon</i> , 2019, 152, 851-854.	10.3	1
13	Experimental and Kinetic Study of the Direct Synthesis of Hydrogen Peroxide from Hydrogen and Oxygen over Palladium Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20573-20584.	3.7	4
14	Kinetic modelling of the reversible addition-fragmentation chain transfer polymerisation of N-isopropylacrylamide. <i>European Polymer Journal</i> , 2019, 120, 109193.	5.4	3
15	The pyrolysis of natural gas: A study of carbon deposition and the suitability of reactor materials. <i>AIChE Journal</i> , 2019, 65, 1035-1046.	3.6	9
16	CH ₄ Cracking over the Cu-Ni/Al-MCM-41 Catalyst for the Simultaneous Production of H ₂ and Highly Ordered Graphitic Carbon Nanofibers. <i>Energy & Fuels</i> , 2019, 33, 12656-12665.	5.1	15
17	Pyrolysis of Natural Gas: Effects of Process Variables and Reactor Materials on the Product Gas Composition. <i>Chemical Engineering and Technology</i> , 2019, 42, 690-698.	1.5	1
18	Promotional Effect of Cu and Influence of Surface Ni-Cu Alloy for Enhanced H ₂ Yields from CH ₄ Decomposition over Cu-Modified Ni Supported on MCM-41 Catalyst. <i>Energy & Fuels</i> , 2018, 32, 4008-4015.	5.1	27

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19	The non-catalytic partial oxidation of methane in a flow tube reactor using indirect induction heating – An experimental and kinetic modelling study. <i>Chemical Engineering Science</i> , 2018, 187, 189-199.	3.8	14
20	A method for the quantitative analysis of gaseous mixtures by online mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2018, 434, 23-28.	1.5	6
21	Sustainable options for the utilization of solid residues from wine production. <i>Waste Management</i> , 2017, 60, 173-183.	7.4	51
22	DFT Study of Nickel-Catalyzed Low-Temperature Methanol Synthesis. <i>ChemCatChem</i> , 2017, 9, 1837-1844.	3.7	4
23	Kinetic modelling of temperature-programmed reduction of cobalt oxide by hydrogen. <i>Applied Catalysis A: General</i> , 2017, 537, 1-11.	4.3	15
24	Effect of a Swelling Agent on the Performance of Ni/Porous Silica Catalyst for CH ₄ -CO ₂ Reforming. <i>Langmuir</i> , 2017, 33, 10632-10644.	3.5	30
25	A study of the synergy between support surface properties and catalyst deactivation for CO ₂ reforming over supported Ni nanoparticles. <i>Applied Catalysis A: General</i> , 2017, 545, 113-126.	4.3	108
26	Processes for the production of oxymethylene ethers: promising synthetic diesel additives. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2017, 12, 827-837.	1.5	15
27	Metal effects in Mn-Na ₂ WO ₄ /SiO ₂ upon the conversion of methane to higher hydrocarbons. <i>Advances in Energy Research</i> , 2017, 5, 13-29.	0.4	1
28	Nano size H ⁺ zeolite as an effective support for Ni and Ni Cu for CO _x free hydrogen production by catalytic decomposition of methane. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19855-19862.	7.1	35
29	Cobalt-bis(imino)pyridine complexes as catalysts for hydroalumination – isomerisation of internal olefins. <i>Dalton Transactions</i> , 2016, 45, 10842-10849.	3.3	7
30	Insertion, elimination and isomerisation of olefins at alkylaluminium hydride: an experimental and theoretical study. <i>Dalton Transactions</i> , 2015, 44, 15286-15296.	3.3	8
31	Insertion and isomerisation of internal olefins at alkylaluminium hydride: catalysis with zirconocene dichloride. <i>Dalton Transactions</i> , 2015, 44, 20098-20107.	3.3	7
32	Mesoporous Carbon-supported Cu/ZnO for Methanol Synthesis from Carbon Dioxide. <i>Australian Journal of Chemistry</i> , 2014, 67, 907.	0.9	12
33	Thermal Dehydroboration: Experimental and Theoretical Studies of Olefin Elimination from Trialkylboranes and Its Relationship to Alkylborane Isomerization and Transalkylation. <i>Organometallics</i> , 2014, 33, 4251-4259.	2.3	14
34	A facile method to synthesis a mesoporous carbon supported methanol catalyst containing well dispersed Cu/ZnO. <i>Materials Research Bulletin</i> , 2014, 60, 232-237.	5.2	8
35	Heat treatment of 6H-SiC under different gaseous environments. <i>Ceramics International</i> , 2014, 40, 4149-4154.	4.8	4
36	The undiluted, non-catalytic partial oxidation of methane in a flow tube reactor – An experimental study using indirect induction heating. <i>Fuel</i> , 2013, 109, 409-416.	6.4	21

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37	Is the structure of anisotropic pyrolytic carbon a consequence of growth by the Volmer-Weber island growth mechanism?. Carbon, 2012, 50, 4773-4780.	10.3	15
38	Acetylene Cyclotrimerization with an Iron(II) Bis(imino)pyridine Catalyst. Organometallics, 2012, 31, 3439-3442.	2.3	38
39	Revisiting the Aufbau Reaction with Acetylene: Further Insights from Experiment and Theory. Organometallics, 2011, 30, 1569-1576.	2.3	10
40	Microstructure formation on exposure of silicon carbide surfaces to the partial oxidation of methane. Catalysis Today, 2011, 178, 85-97.	4.4	3
41	Evaluation of mid-to-late transition metal imine catalysts for acetylene oligomerisation: A high activity bis(imino)pyridine iron(II) catalyst. Catalysis Today, 2011, 178, 64-71.	4.4	5
42	High activity acetylene polymerisation with a bis(imino)pyridine iron(ii) catalyst. Chemical Communications, 2011, 47, 6945.	4.1	8
43	The growth of 3D carbon fiber lattices based on silicon oxide micro-wires. Carbon, 2011, 49, 1167-1172.	10.3	5
44	The growth and morphology of core/shell heterostructured conical carbon fibers. Carbon, 2011, 49, 2735-2741.	10.3	7
45	Revisiting the Aufbau Reaction with Acetylene: Growth at Aluminium Producing a Unique Oligomer Distribution. Chemistry - A European Journal, 2009, 15, 1082-1085.	3.3	7
46	Acetylene Oligomerization with Metallocene Catalysts and Triethylaluminum: The Peculiar Course of the Aufbau Reaction with Acetylene. Organometallics, 2009, 28, 5722-5732.	2.3	11
47	High conversion and productive catalyst turnovers in cross-metathesis reactions of natural oils with 2-butene. Green Chemistry, 2006, 8, 450.	9.0	96
48	Preparation of terminal oxygenates from renewable natural oils by a one-pot metathesis-isomerisation-methoxycarbonylation-transesterification reaction sequence. Green Chemistry, 2006, 8, 746-749.	9.0	41
49	Controlled Synthesis of (S,S)-2,7-Diaminosuberlic Acid: A Method for Regioselective Construction of Dicarba Analogues of Multicystine-Containing Peptides. Journal of Organic Chemistry, 2006, 71, 7538-7545.	3.2	48
50	Cross-metathesis of unsaturated natural oils with 2-butene. High conversion and productive catalyst turnovers. Chemical Communications, 2005, , 5546.	4.1	58
51	A one pot, metathesis-hydrogenation sequence for the selective formation of carbon-carbon bonds. Chemical Communications, 2005, , 5544.	4.1	15
52	An Evaluation of Some Hindered Diamines as Chiral Modifiers of Metal-Promoted Reactions. Australian Journal of Chemistry, 2004, 57, 167.	0.9	12
53	Reversible oxidative addition of a diaryl diselenide to a diorganopalladium(II) complex, carbon-selenium bond formation at palladium(IV), and structural studies of palladium(II) and platinum(IV) selenolates. Journal of Organometallic Chemistry, 2004, 689, 672-677.	1.8	31
54	A structurally characterised ruthenium bis(pyrazolyl)borate benzylidene complex containing an agostic Ru-H-C interaction: synthesis and catalytic activity. Inorganica Chimica Acta, 2004, 357, 2374-2378.	2.4	16

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55	Reactivity of Diaryliodonium(III) Triflates toward Palladium(II) and Platinum(II): σ -Reactions of $C(sp^2)$ Bonds to Form Arylmethyl(IV) Complexes; Access to Dialkyl(aryl)methyl(IV), 1,4-Benzenediyl-Bridged Platinum(IV), and Triphenylplatinum(IV) Species; and Structural Studies of Platinum(IV) Complexes. <i>Organometallics</i> , 2004, 23, 3466-3473.	2.3	91
56	Mono(p-tolyl)platinum(II) and bis(p-tolyl)platinum(II) complexes of diethylsulfide as reagents for organoplatinum synthesis. Structures of $[Pt(p-Tol)_2(\eta^4-S_2Et_2)]_2$ and $PtCl(p-Tol)(bpy)$ ($bpy=2,2'$ -bipyridine). <i>Inorganica Chimica Acta</i> , 2002, 327, 15-19.	2.4	18
57	Organopalladium(IV) and platinum(IV) complexes containing the bis(pyrazol-1-yl)borate ligand. Structures of $PtMe_3\{(pz)_2BH_2\}(py)$ ($py=pyridine$) and $Pt(mq)Me_2\{(pz)_2BH_2\}$ ($mq=8$ -methylquinolinyl) and detection of a neutral organopalladium(IV) phosphine complex. <i>Inorganica Chimica Acta</i> , 2002, 327, 20-25.	2.4	11
58	Neopentyl- and trimethylsilylmethylpalladium chemistry: synthesis of reagents for organopalladium chemistry and the crystal structure of the neopentyl(phenyl)palladium(IV) complex $[Pd(mq)(CH_2CMe_3)Ph(bpy)]Br$ ($mq=8$ -methylquinolinyl, $bpy=2,2'$ -bipyridine). <i>Inorganica Chimica Acta</i> , 2002, 338, 94-98.	2.4	12
59	Design and Performance of Rigid Nanosize Multimetallic Cartwheel Pincer Compounds as Lewis-Acid Catalysts. <i>Organometallics</i> , 2001, 20, 3159-3168.	2.3	125
60	$C-H$ activation at the 3-position of pentane chains to form $[Ni-C(sp^3)-N]^+$ complexes incorporating six-membered palladium(II) cyclic rings and pyridine, pyrazole and N-methylimidazole donor groups. Structural studies and comparison with $[Ni-C(sp^2)-N]^+$ complexes. <i>Journal of Organometallic Chemistry</i> , 2000, 607, 194-202.	1.8	34
61	Facial and meridional $[Ni-C-N]^+$ intramolecular coordination systems: structure of $fac-PtBrMe_2\{2,6-(pzCH_2)_2C_6H_3\} \cdot 1/2 C_6H_6$ $\{[2,6-(pzCH_2)_2C_6H_3]^+ = 2,6$ -bis{(pyrazol-1-yl)methyl}phenyl)} and $mer-PtBr\{2,6-(3,5-Me_2pzCH_2)_2C_6H_3\}$, and an alternative synthetic route to the platinum(II) $[Ni-C-N]^+$ kernel. <i>Journal of Organometallic Chemistry</i> , 2000, 599, 195-199.	1.8	53
62	Organoplatinum(IV) and Palladium(IV) Complexes Containing Intramolecular Coordination Systems Based on the 8-Methylquinolinyl Group (mq), Including Structures of the Cation $[Pt(mq)Me_2(bpy)]^+$ ($bpy = 2,2'$ -bipyridine) and the Palladium(IV) Complexes $Pd(mq)MeR\{(pz)_2BH_2\}$ ($R = Me,$ tj $ETQqO O 0 fgBT /Ove$	2.3	34
63	Water and Protic Acids as Oxidants for Platinum(II): Diorgano(hydrido)platinum(IV) and Diorgano(hydroxo)platinum(IV) Chemistry, Including Structural Studies of Poly(pyrazol-1-yl)borate Complexes $Pt(OH)R_2\{(pz)_3BH\}$ ($R = Methyl, p-Tolyl$) and $Pt(OH)Me_2\{(pz)_4B\} \cdot H_2O$. <i>Organometallics</i> , 1997, 16, 2175-2182.	2.3	46