

Aik Chong Lua

List of Publications by Year in descending order

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76
papers

4,986
citations

76196

40
h-index

91712

69
g-index

76
all docs

76
docs citations

76
times ranked

4975
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of activation temperature on the textural and chemical properties of potassium hydroxide activated carbon prepared from pistachio-nut shell. <i>Journal of Colloid and Interface Science</i> , 2004, 274, 594-601.	5.0	333
2	Characteristics of activated carbons prepared from pistachio-nut shells by physical activation. <i>Journal of Colloid and Interface Science</i> , 2003, 267, 408-417.	5.0	272
3	Effects of pyrolysis conditions on the properties of activated carbons prepared from pistachio-nut shells. <i>Journal of Analytical and Applied Pyrolysis</i> , 2004, 72, 279-287.	2.6	262
4	Characteristics of activated carbon prepared from pistachio-nut shell by zinc chloride activation under nitrogen and vacuum conditions. <i>Journal of Colloid and Interface Science</i> , 2005, 290, 505-513.	5.0	165
5	Synthesis of Ni and Ni-Cu supported on carbon nanotubes for hydrogen and carbon production by catalytic decomposition of methane. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 61-69.	10.8	160
6	Adsorption of NH ₃ onto activated carbon prepared from palm shells impregnated with H ₂ SO ₄ . <i>Journal of Colloid and Interface Science</i> , 2005, 281, 285-290.	5.0	155
7	Influence of pyrolysis conditions on pore development of oil-palm-shell activated carbons. <i>Journal of Analytical and Applied Pyrolysis</i> , 2006, 76, 96-102.	2.6	152
8	Preparation of activated carbons from oil-palm-stone chars by microwave-induced carbon dioxide activation. <i>Carbon</i> , 2000, 38, 1985-1993.	5.4	149
9	Adsorption of hydrogen sulphide (H ₂ S) by activated carbons derived from oil-palm shell. <i>Carbon</i> , 2007, 45, 330-336.	5.4	129
10	Textural and chemical properties of zinc chloride activated carbons prepared from pistachio-nut shells. <i>Materials Chemistry and Physics</i> , 2006, 100, 438-444.	2.0	125
11	Characterization of chars pyrolyzed from oil palm stones for the preparation of activated carbons. <i>Journal of Analytical and Applied Pyrolysis</i> , 1998, 46, 113-125.	2.6	118
12	Activated carbon prepared from oil palm stone by one-step CO ₂ activation for gaseous pollutant removal. <i>Carbon</i> , 2000, 38, 1089-1097.	5.4	116
13	Textural and chemical characterisations of activated carbon prepared from oil-palm stone with H ₂ SO ₄ and KOH impregnation. <i>Microporous and Mesoporous Materials</i> , 1999, 32, 111-117.	2.2	113
14	Preparation and characterization of mixed matrix membranes based on PVDF and three inorganic fillers (fumed nonporous silica, zeolite 4A and mesoporous MCM-41) for gas separation. <i>Chemical Engineering Journal</i> , 2012, 192, 201-210.	6.6	113
15	A facile method for the large-scale continuous synthesis of graphene sheets using a novel catalyst. <i>Scientific Reports</i> , 2013, 3, 3037.	1.6	106
16	Preparation and characterization of chars from oil palm waste. <i>Carbon</i> , 1998, 36, 1663-1670.	5.4	105
17	Textural and chemical properties of adsorbent prepared from palm shell by phosphoric acid activation. <i>Materials Chemistry and Physics</i> , 2003, 80, 114-119.	2.0	105
18	Decomposition of methane over unsupported porous nickel and alloy catalyst. <i>Applied Catalysis B: Environmental</i> , 2013, 132-133, 469-478.	10.8	102

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19	Characteristics of activated carbons prepared from pistachio-nut shells by potassium hydroxide activation. <i>Microporous and Mesoporous Materials</i> , 2003, 63, 113-124.	2.2	98
20	Ternary Platinum-Copper-Nickel Nanoparticles Anchored to Hierarchical Carbon Supports as Free-Standing Hydrogen Evolution Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3464-3472.	4.0	93
21	Effects of carbonisation on pore evolution and gas permeation properties of carbon membranes from Kapton® polyimide. <i>Carbon</i> , 2006, 44, 2964-2972.	5.4	91
22	Isothermal and non-isothermal pyrolysis kinetics of Kapton® polyimide. <i>Polymer Degradation and Stability</i> , 2006, 91, 144-153.	2.7	89
23	Characterization of adsorbent prepared from oil-palm shell by CO ₂ activation for removal of gaseous pollutants. <i>Materials Letters</i> , 2002, 55, 334-339.	1.3	86
24	Preparation and characterization of activated carbons from oil-palm stones for gas-phase adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 179, 151-162.	2.3	82
25	Hydrogen production by catalytic decomposition of methane over Ni-Cu-Co alloy particles. <i>Applied Catalysis B: Environmental</i> , 2014, 156-157, 84-93.	10.8	78
26	Effects of vacuum pyrolysis conditions on the characteristics of activated carbons derived from pistachio-nut shells. <i>Journal of Colloid and Interface Science</i> , 2004, 276, 364-372.	5.0	77
27	Effects of pyrolysis conditions on the physical characteristics of oil-palm-shell activated carbons used in aqueous phase phenol adsorption. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008, 83, 175-179.	2.6	76
28	Textural and Chemical Characterizations of Adsorbent Prepared from Palm Shell by Potassium Hydroxide Impregnation at Different Stages. <i>Journal of Colloid and Interface Science</i> , 2002, 254, 227-233.	5.0	75
29	Preparation and characterization of polyimide-silica composite membranes and their derived carbon-silica composite membranes for gas separation. <i>Chemical Engineering Journal</i> , 2013, 220, 441-451.	6.6	71
30	Microporous Activated Carbons Prepared from Palm Shell by Thermal Activation and Their Application to Sulfur Dioxide Adsorption. <i>Journal of Colloid and Interface Science</i> , 2002, 251, 242-247.	5.0	67
31	Adsorption of phenol by oil-palm-shell activated carbons in a fixed bed. <i>Chemical Engineering Journal</i> , 2009, 150, 455-461.	6.6	67
32	Effects of carbonisation atmosphere on the structural characteristics and transport properties of carbon membranes prepared from Kapton® polyimide. <i>Journal of Membrane Science</i> , 2007, 305, 263-270.	4.1	64
33	Structural and transport properties of BTDA-TDI/MDI co-polyimide (P84)-silica nanocomposite membranes for gas separation. <i>Chemical Engineering Journal</i> , 2012, 188, 199-209.	6.6	64
34	Microporous Oil-Palm-Shell Activated Carbon Prepared by Physical Activation for Gas-Phase Adsorption. <i>Langmuir</i> , 2001, 17, 7112-7117.	1.6	61
35	Adsorption of sulphur dioxide onto activated carbon prepared from oil-palm shells with and without pre-impregnation. <i>Separation and Purification Technology</i> , 2003, 30, 265-273.	3.9	59
36	Methane decomposition using Ni-Cu alloy nano-particle catalysts and catalyst deactivation studies. <i>Chemical Engineering Journal</i> , 2015, 262, 1077-1089.	6.6	59

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37	Development of Metallic Nickel Nanoparticle Catalyst for the Decomposition of Methane into Hydrogen and Carbon Nanofibers. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26765-26775.	1.5	58
38	Deactivation and kinetic studies of unsupported Ni and Ni-Co-Cu alloy catalysts used for hydrogen production by methane decomposition. <i>Chemical Engineering Journal</i> , 2014, 243, 79-91.	6.6	55
39	Sol-gel synthesis of titanium oxide supported nickel catalysts for hydrogen and carbon production by methane decomposition. <i>Journal of Power Sources</i> , 2015, 280, 467-475.	4.0	45
40	Polyol synthesis of nickel-copper based catalysts for hydrogen production by methane decomposition. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 311-321.	3.8	43
41	Theoretical and experimental SO ₂ adsorption onto pistachio-nut-shell activated carbon for a fixed-bed column. <i>Chemical Engineering Journal</i> , 2009, 155, 175-183.	6.6	37
42	Effect of surface chemistry on gas-phase adsorption by activated carbon prepared from oil-palm stone with pre-impregnation. <i>Separation and Purification Technology</i> , 1999, 18, 47-55.	3.9	33
43	Title is missing!. <i>Journal of Porous Materials</i> , 2000, 7, 491-497.	1.3	31
44	Theoretical and experimental studies on the gas transport properties of mixed matrix membranes based on polyvinylidene fluoride. <i>AIChE Journal</i> , 2013, 59, 4715-4726.	1.8	30
45	Deactivation of bimetallic nickel-copper alloy catalysts in thermocatalytic decomposition of methane. <i>Catalysis Science and Technology</i> , 2018, 8, 3853-3862.	2.1	30
46	A detailed study of pyrolysis conditions on the production of steam-activated carbon derived from oil-palm shell and its application in phenol adsorption. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 523-533.	2.9	30
47	Preparation of activated carbons by utilizing solid wastes from palm oil processing mills. <i>Journal of Porous Materials</i> , 2008, 15, 535-540.	1.3	29
48	Adsorption of sulfur dioxide onto activated carbons prepared from oil-palm shells impregnated with potassium hydroxide. <i>Journal of Chemical Technology and Biotechnology</i> , 2000, 75, 971-976.	1.6	28
49	Adsorption of Sulfur Dioxide on Activated Carbon from Oil-Palm Waste. <i>Journal of Environmental Engineering, ASCE</i> , 2001, 127, 895-901.	0.7	28
50	Preparation and characterization of asymmetric membranes based on nonsolvent/NMP/P84 for gas separation. <i>Journal of Membrane Science</i> , 2013, 429, 155-167.	4.1	28
51	Kinetic reaction and deactivation studies on thermocatalytic decomposition of methane by electroless nickel plating catalyst. <i>Chemical Engineering Journal</i> , 2020, 389, 124366.	6.6	28
52	Sol-gel synthesis of Ni and Ni supported catalysts for hydrogen production by methane decomposition. <i>RSC Advances</i> , 2014, 4, 42159-42167.	1.7	27
53	Hydrogen Production by Thermocatalytic Methane Decomposition. <i>Heat Transfer Engineering</i> , 2013, 34, 896-903.	1.2	24
54	A trimodal porous carbon as an effective catalyst for hydrogen production by methane decomposition. <i>Journal of Colloid and Interface Science</i> , 2016, 462, 48-55.	5.0	24

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55	Influence of carbonisation parameters on the transport properties of carbon membranes by statistical analysis. <i>Journal of Membrane Science</i> , 2006, 278, 335-343.	4.1	23
56	Preparation and characterization of mixed matrix membranes based on poly(vinylidene fluoride) and zeolite 4A for gas separation. <i>Polymer Engineering and Science</i> , 2012, 52, 2106-2113.	1.5	21
57	Influence of inorganic fillers on the structural and transport properties of mixed matrix membranes. <i>Journal of Applied Polymer Science</i> , 2013, 128, 4058-4066.	1.3	21
58	Concentration-dependent branched pore kinetic model for aqueous phase adsorption. <i>Chemical Engineering Journal</i> , 2008, 136, 227-235.	6.6	17
59	Adsorption of phenol by oil-palm-shell activated carbons. <i>Adsorption</i> , 2007, 13, 129-137.	1.4	16
60	Numerical simulations and experimental studies on a target fluidic flowmeter. <i>Flow Measurement and Instrumentation</i> , 2003, 14, 43-49.	1.0	15
61	A stable, high-concentration, dry aerosol generator. <i>Journal of Aerosol Science</i> , 1982, 13, 499-511.	1.8	13
62	Experimental and Kinetic Studies on Pore Development During CO ₂ Activation of Oil-Palm-Shell Char. <i>Journal of Porous Materials</i> , 2001, 8, 149-157.	1.3	13
63	Chars Pyrolyzed from Oil Palm Wastes for Activated Carbon Preparation. <i>Journal of Environmental Engineering, ASCE</i> , 1999, 125, 72-76.	0.7	12
64	Properties of pistachio-nut-shell activated carbons subjected to vacuum pyrolysis conditions. <i>Carbon</i> , 2004, 42, 224-226.	5.4	11
65	Effects of membrane thickness and heat treatment on the gas transport properties of membranes based on P84 polyimide. <i>Journal of Applied Polymer Science</i> , 2010, 116, 2906-2912.	1.3	11
66	Antibacterial ultrafiltration membrane with silver nanoparticle impregnation by interfacial polymerization for ballast water. <i>Journal of Polymer Science</i> , 2021, 59, 2295-2308.	2.0	11
67	Proportional assist ventilation system based on proportional solenoid valve control. <i>Medical Engineering and Physics</i> , 2001, 23, 381-389.	0.8	10
68	Activated Carbons Prepared from Extracted-Oil Palm Fibers for Nitric Oxide Reduction. <i>Energy & Fuels</i> , 1998, 12, 1089-1094.	2.5	8
69	Theoretical analysis and experimental study on SO ₂ adsorption onto pistachio-nut-shell activated carbon. <i>AIChE Journal</i> , 2009, 55, 423-433.	1.8	8
70	Structural changes and development of transport properties during the conversion of a polyimide membrane to a carbon membrane. <i>Journal of Applied Polymer Science</i> , 2009, 113, 235-242.	1.3	7
71	Experimental and theoretical studies on gas permeation through carbon molecular sieve membranes. <i>Separation and Purification Technology</i> , 2009, 69, 161-167.	3.9	7
72	Synthesis of electroless Ni catalyst supported on SBA-15 for hydrogen and carbon production by catalytic decomposition of methane. <i>International Journal of Energy Research</i> , 2021, 45, 2810-2823.	2.2	6

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73	Particle characteristics of a stable fluidized bed aerosol generator. Journal of Aerosol Science, 1992, 23, 737-748.	1.8	5
74	Design and development of a low-cost digital display for water flow rate measurements. Microprocessors and Microsystems, 2001, 25, 359-368.	1.8	3
75	Separation of Ethane Gas by Adsorption onto Various Biomass-Derived Activated Carbons. Advanced Materials Research, 0, 113-116, 1896-1899.	0.3	2
76	Catalytic Combustion of Pulverized Coal Injected into a Blast Furnace and its Industrial Test. Advanced Materials Research, 0, 113-116, 1766-1769.	0.3	1