# Alan L Chaffee

List of Publications by Year
in descending order



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|---|---|---|---|
| 194 papers | 6,599 citations | 81900 39 h-index | 82547 72 g-index |
| 196 all docs | 196 docs citations | 196 times ranked | 6143 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The molecular representations of coal â€“ A review. Fuel, 2012, 96, 1-14. | 6.4 | 550 |
| 2 | CO<sub>2</sub>Adsorption-Based Separation by Metal Organic Framework (Cu-BTC) versus Zeolite (13X). Energy & Fuels, 2009, 23, 2785-2789. | 5.1 | 397 |
| 3 | CO2 capture by adsorption: Materials and process development. International Journal of Greenhouse Gas Control, 2007, 1, 11-18. | 4.6 | 363 |
| 4 | Aminopropyl-functionalized mesoporous silicas as CO2 adsorbents. Fuel Processing Technology, 2005, 86, 1435-1448. | 7.2 | 311 |
| 5 | Diethylenetriamine[propyl(silyl)]-Functionalized (DT) Mesoporous Silicas as CO2Adsorbents. Industrial & Engineering Chemistry Research, 2006, 45, 2626-2633. | 3.7 | 233 |
| 6 | The utility of coal molecular models. Fuel Processing Technology, 2011, 92, 718-728. | 7.2 | 181 |
| 7 | The transformation of kaolin to low-silica X zeolite. Zeolites, 1997, 19, 359-365. | 0.5 | 133 |
| 8 | Advanced adsorbents based on MgO and K2CO3 for capture of CO2 at elevated temperatures. International Journal of Greenhouse Gas Control, 2011, 5, 634-639. | 4.6 | 126 |
| 9 | Polycyclic aromatic hydrocarbons in Australian coals. I. Angularly fused pentacyclic tri- and tetraaromatic components of Victorian brown coal. Geochimica Et Cosmochimica Acta, 1983, 47, 2141-2155. | 3.9 | 124 |
| 10 | Preparation and characterization of mesoporous silica supported cobalt oxide as a catalyst for the oxidation of cyclohexanol. Journal of Molecular Catalysis A, 2012, 358, 79-88. | 4.8 | 112 |
| 11 | Ewald Summation for Molecular Simulations. Journal of Chemical Theory and Computation, 2015, 11, 3684-3695. | 5.3 | 108 |
| 12 | Mechanical/thermal dewatering of lignite. Part 3: Physical properties and pore structure of MTE product coals. Fuel, 2007, 86, 3-16. | 6.4 | 105 |
| 13 | CO2 adsorption, selectivity and water tolerance of pillared-layer metal organic frameworks. Microporous and Mesoporous Materials, 2010, 132, 305-310. | 4.4 | 103 |
| 14 | Stepwise growth of melamine-based dendrimers into mesopores and their CO2 adsorption properties. Microporous and Mesoporous Materials, 2008, 111, 536-543. | 4.4 | 101 |
| 15 | Physico-chemical properties of Loy Yang lignite dewatered by mechanical thermal expression. Fuel, 2005, 84, 1940-1948. | 6.4 | 96 |
| 16 | Hydrothermal dewatering of a Chinese lignite and properties of the solid products. Fuel, 2016, 180, 473-480. | 6.4 | 94 |
| 17 | Amine modified mesocellular siliceous foam (MCF) as a sorbent for CO2. Chemical Engineering Research and Design, 2011, 89, 1647-1657. | 5.6 | 79 |
| 18 | Polycyclic aromatic hydrocarbons in Australian coals II. Novel tetracyclic components from Victorian brown coal. Geochimica Et Cosmochimica Acta, 1984, 48, 2037-2043. | 3.9 | 75 |

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| 19 | CO2 adsorption by amine modified siliceous mesostructured cellular foam (MCF) in humidified gas. Microporous and Mesoporous Materials, 2014, 186, 84-93. | 4.4 | 71 |
| 20 | Polycyclic aromatic hydrocarbons in Australian coalsâ€"III. Structural elucidation by proton nuclear magnetic resonance spectroscopy. Organic Geochemistry, 1988, 12, 261-271. | 1.8 | 70 |
| 21 | Comparison of Cu-BTC and zeolite 13X for adsorbent based CO2 separation. Energy Procedia, 2009, 1, 1265-1271. | 1.8 | 67 |
| 22 | Characterisation of lignite as an industrial adsorbent. Fuel, 2011, 90, 1567-1574. | 6.4 | 65 |
| 23 | CO2 adsorption by PAMAM dendrimers: Significant effect of impregnation into SBA-15. Microporous and Mesoporous Materials, 2009, 123, 140-149. | 4.4 | 57 |
| 24 | Adsorption of CO2 on mesocellular siliceous foam iteratively functionalized with dendrimers. Adsorption, 2009, 15, 429-437. | 3.0 | 55 |
| 25 | The spontaneous combustion behavior of some low rank coals and a range of dried products. Fuel, 2009, 88, 1650-1655. | 6.4 | 55 |
| 26 | Nanoscale Structural Investigation of Cs<sub>2</sub>CO<sub>3</sub>-Doped MgO Sorbent for CO<sub>2</sub> Capture at Moderate Temperature. Journal of Physical Chemistry C, 2013, 117, 17514-17520. | 3.1 | 55 |
| 27 | Mechanical/thermal dewatering of lignite. Part 4: Physico-chemical properties and pore structure during an acid treatment within the MTE process. Fuel, 2012, 93, 433-442. | 6.4 | 54 |
| 28 | Thermal Treatment of Algae for Production of Biofuel. Energy & Fuels, 2013, 27, 1926-1950. | 5.1 | 54 |
| 29 | Structural elucidation of humic acids extracted from Pakistani lignite using spectroscopic and thermal degradative techniques. Fuel Processing Technology, 2011, 92, 983-991. | 7.2 | 51 |
| 30 | Investigation of Lignin-water interactions by molecular simulation. Molecular Simulation, 2002, 28, 981-991. | 2.0 | 49 |
| 31 | Pyrolysis of Mesoporous Silica-Immobilized 1,3-Diphenylpropane. Impact of Pore Confinement and Size. Journal of the American Chemical Society, 2005, 127, 6353-6360. | 13.7 | 48 |
| 32 | Metalâ€"organic frameworks as stationary phases for mixed-mode separation applications. Chemical Communications, 2014, 50, 3735. | 4.1 | 47 |
| 33 | An attempt to produce blast furnace coke from Victorian brown coal. Fuel, 2015, 148, 104-111. | 6.4 | 45 |
| 34 | Pyrolysisâ€"gas chromatography of Australian coals. 1. Victorian brown coal lithotypes. Fuel, 1983, 62, 303-310. | 6.4 | 43 |
| 35 | Comparison of some physicoâ€"chemical properties of Victorian lignite dewatered under non-evaporative conditions. Fuel, 2006, 85, 1987-1991. | 6.4 | 43 |
| 36 | Selective electrochemical hydrogenation of furfural to 2-methylfuran over a single atom Cu catalyst under mild pH conditions. Green Chemistry, 2021, 23, 3028-3038. | 9.0 | 43 |

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| 37 | CO<sub>2</sub> Capture from Air Using Pelletized Polyethylenimine Impregnated MCF Silica. Industrial & Engineering Chemistry Research, 2019, 58, 3293-3303. | 3.7 | 42 |
| 38 | Effects of Pretreatment in Steam on the Pyrolysis Behavior of Loy Yang Brown Coal. Energy & Fuels, 2006, 20, 281-286. | 5.1 | 41 |
| 39 | Ordered micro-porous carbon molecular sieves containing well-dispersed platinum nanoparticles for hydrogen storage. Microporous and Mesoporous Materials, 2009, 119, 39-46. | 4.4 | 41 |
| 40 | The effect of densification on brown coal physical properties and its spontaneous combustion propensity. Fuel, 2017, 193, 54-64. | 6.4 | 38 |
| 41 | Charge Equilibration Based on Atomic Ionization in Metalâ€“Organic Frameworks. Journal of Physical Chemistry C, 2015, 119, 456-466. | 3.1 | 37 |
| 42 | Oxygen Uptake of Tbâ€“CeO<sub>2</sub>: Analysis of Ce<sup>3+</sup> and Oxygen Vacancies. Journal of Physical Chemistry C, 2016, 120, 14382-14389. | 3.1 | 37 |
| 43 | Desorption Process for Capturing CO<sub>2</sub> from Air with Supported Amine Sorbent. Industrial & Engineering Chemistry Research, 2019, 58, 15606-15618. | 3.7 | 36 |
| 44 | Water in Brown Coal and Its Removal. , 2004, , 85-133. | | 35 |
| 45 | Long time, low temperature pyrolysis of El-Lajjun oil shale. Journal of Analytical and Applied Pyrolysis, 2018, 130, 135-141. | 5.5 | 35 |
| 46 | Transformation behaviors of C, H, O, N and S in lignite during hydrothermal dewatering process. Fuel, 2019, 236, 228-235. | 6.4 | 35 |
| 47 | Highly Ordered Hierarchical Mesoporous MnCo<sub>2</sub>O<sub>4</sub> with Cubic IÎ±3d Symmetry for Electrochemical Energy Storage. Journal of Physical Chemistry C, 2016, 120, 23976-23983. | 3.1 | 34 |
| 48 | Dewatering Low Rank Coals by Mechanical Thermal Expression (MTE) and its Influence on Organic Carbon and Inorganic Removal. Coal Preparation, 2005, 25, 251-267. | 0.5 | 33 |
| 49 | Molecular modeling of HMS hybrid materials for CO2 adsorption. Fuel Processing Technology, 2005, 86, 1473-1486. | 7.2 | 32 |
| 50 | Evaluation of several methods of extraction of oil from a Jordanian oil shale. Fuel, 2012, 92, 281-287. | 6.4 | 32 |
| 51 | Comparison of Physico-Chemical Properties of Various Lignites Treated by Mechanical Thermal Expression. Coal Preparation, 2005, 25, 269-293. | 0.5 | 31 |
| 52 | Micro-channel development and hydrogen adsorption properties in templated microporous carbons containing platinum nanoparticles. Carbon, 2011, 49, 1305-1317. | 10.3 | 30 |
| 53 | The impact of water vapor on CO2 separation performance of mixed matrix membranes. Journal of Membrane Science, 2015, 492, 471-477. | 8.2 | 29 |
| 54 | Coordination polymers from a highly flexible alkyldiamine-derived ligand: structure, magnetism and gas adsorption studies. Dalton Transactions, 2015, 44, 17494-17507. | 3.3 | 29 |

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| 55 | The effect of densification with NaOH on brown coal thermal oxidation behaviour and structure. Fuel, 2018, 216, 548-558. | 6.4 | 29 |
| 56 | Mesoporous Silica SBA-15 Supported Co3O4 Nanorods as Efficient Liquid Phase Oxidative Catalysts. Topics in Catalysis, 2012, 55, 571-579. | 2.8 | 28 |
| 57 | Correlations between Oxygen Uptake and Vacancy Concentration in Pr-Doped CeO<sub>2</sub>. ACS Omega, 2017, 2, 2544-2551. | 3.5 | 28 |
| 58 | Sulfur Poisoning of Fischer-Tropsch Synthesis Catalysts in a Fixed-Bed Reactor. Applied Catalysis, 1989, 47, 253-276. | 0.8 | 27 |
| 59 | Amine-functionalised mesoporous silicas as CO2 adsorbents. Studies in Surface Science and Catalysis, 2005, , 887-896. | 1.5 | 27 |
| 60 | Comparison of Conventional and HF-Free-Synthesized MIL-101 for CO<sub>2</sub> Adsorption Separation and Their Water Stabilities. Energy & Fuels, 2013, 27, 7612-7618. | 5.1 | 26 |
| 61 | Molecular dynamics simulations on scattering of single Ar, N2, and CO2 molecules on realistic surfaces. Computers and Fluids, 2014, 97, 31-39. | 2.5 | 26 |
| 62 | Aliphatic components of Victorian brown coal lithotypes. Organic Geochemistry, 1985, 8, 349-365. | 1.8 | 25 |
| 63 | Attempts to produce blast furnace coke from Victorian brown coal. 2. Hot briquetting, air curing and higher carbonization temperature. Fuel, 2016, 173, 268-276. | 6.4 | 25 |
| 64 | Separation and analysis of maceral concentrates from Victorian brown coal. Fuel, 2019, 242, 232-242. | 6.4 | 25 |
| 65 | Ligniteâ€“water interactions studied by phase transitionâ€”differential scanning calorimetry. Fuel, 2005, 84, 1557-1557. | 6.4 | 24 |
| 66 | Multidimensional and comprehensive two-dimensional gas chromatography of dichloromethane soluble products from a high sulfur Jordanian oil shale. Talanta, 2014, 120, 55-63. | 5.5 | 24 |
| 67 | Evaluation of methods for monitoring MEA degradation during pilot scale post-combustion capture of CO2. International Journal of Greenhouse Gas Control, 2015, 39, 407-419. | 4.6 | 24 |
| 68 | A comparison of adsorption isotherms using different techniques for a range of raw, water- and acid-washed lignites. Fuel, 2006, 85, 1559-1565. | 6.4 | 23 |
| 69 | Evaluation of comprehensive two-dimensional gas chromatography with flame photometric detection: Potential application for sulfur speciation in shale oil. Analytica Chimica Acta, 2013, 803, 174-180. | 5.4 | 23 |
| 70 | A comparison of the structure and reactivity of five Jordanian oil shales from different locations. Fuel, 2014, 119, 313-322. | 6.4 | 23 |
| 71 | Modulating Porosity through Conformer-Dependent Hydrogen Bonding in Copper(II) Coordination Polymers. Crystal Growth and Design, 2015, 15, 3417-3425. | 3.0 | 23 |
| 72 | Monoethanolamine Degradation during Pilot-Scale Post-combustion Capture of CO<sub>2</sub> from a Brown Coal-Fired Power Station. Energy & Fuels, 2015, 29, 7441-7455. | 5.1 | 23 |

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| 73 | Hydrogen storage capacity of selected activated carbon electrodes made from brown coal. International Journal of Hydrogen Energy, 2016, 41, 23099-23108. | 7.1 | 23 |
| 74 | Elevated amyloidoses of human IAPP and amyloid beta by lipopolysaccharide and their mitigation by carbon quantum dots. Nanoscale, 2020, 12, 12317-12328. | 5.6 | 23 |
| 75 | The effect of cation content of some raw and ion-exchanged Victorian lignites on their equilibrium moisture content and surface area. Fuel, 2007, 86, 2890-2897. | 6.4 | 22 |
| 76 | The structure and reactivity of a low-sulfur lacustrine oil shale (Colorado U.S.A.) compared with those of a high-sulfur marine oil shale (Julia Creek, Queensland, Australia). Fuel Processing Technology, 2015, 135, 91-98. | 7.2 | 22 |
| 77 | Study on the Relationship Between Pore Structure and Water Forms in Pore Using Partially Gasified Lignite Char. Energy & Fuels, 2016, 30, 8875-8885. | 5.1 | 22 |
| 78 | Pyrolysis-GC/MS analysis of biomass and the bio-oils produced from CO/H 2 O reactions. Journal of Analytical and Applied Pyrolysis, 2016, 120, 154-164. | 5.5 | 22 |
| 79 | Utilization of raw and dried Victorian brown coal in the adsorption of model dyes from solution. Journal of Water Process Engineering, 2017, 15, 43-48. | 5.6 | 22 |
| 80 | Remediation of mechanical thermal expression product waters using raw Latrobe Valley brown coals as adsorbents. Fuel, 2007, 86, 1130-1138. | 6.4 | 21 |
| 81 | Impact of preparation methods on SBA-15 supported low cobalt-content composites: Structure and catalytic activity. Journal of Molecular Catalysis A, 2013, 377, 115-122. | 4.8 | 21 |
| 82 | Pressurized thermal and hydrothermal decomposition of algae, wood chip residue, and grape marc: A comparative study. Biomass and Bioenergy, 2015, 76, 141-157. | 5.7 | 21 |
| 83 | A Multifunctional, Chargeâ€Neutral, Chiral Octahedral M<sub>12</sub>L<sub>12</sub> Cage. Chemistry - A European Journal, 2019, 25, 8489-8493. | 3.3 | 21 |
| 84 | The conversion of brown coal to a dense, dry, hard material. Fuel Processing Technology, 1989, 21, 209-221. | 7.2 | 20 |
| 85 | Confinement effects on product selectivity in the pyrolysis of phenethyl phenyl ether in mesoporous silica. Chemical Communications, 2007, , 52-54. | 4.1 | 20 |
| 86 | Modeling gas separation in metal-organic frameworks. Adsorption, 2011, 17, 255-264. | 3.0 | 20 |
| 87 | Comparison of the yields and structure of fuels derived from freshwater algae (torbanite) and marine algae (El-Lajjun oil shale). Fuel, 2013, 105, 83-89. | 6.4 | 20 |
| 88 | High solubility of Victorian brown coal in â€˜distillableâ€™ ionic liquid DIMCARB. Fuel, 2015, 158, 23-34. | 6.4 | 20 |
| 89 | Effect of temperature on the solubility of Victorian brown coal in the ionic liquid DIMCARB. Fuel, 2018, 216, 752-759. | 6.4 | 20 |
| 90 | A comparison of the NaOH-HCl and HCl-HF methods of extracting kerogen from two different marine oil shales. Fuel, 2019, 236, 880-889. | 6.4 | 20 |

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| 91 | Study on combustion performance of hydrothermally dewatered lignite by thermal analysis technique. Fuel, 2021, 285, 119217. | 6.4 | 20 |
| 92 | Pyrolysisâ€"gas chromatography of Australian coals. 2. Bituminous coals. Fuel, 1983, 62, 311-316. | 6.4 | 19 |
| 93 | Studies related to the structure and reactivity of coals. Fuel, 1989, 68, 1538-1543. | 6.4 | 19 |
| 94 | High-Connectivity Approach to a Hydrolytically Stable Metalâ€"Organic Framework for CO<sub>2</sub> Capture from Flue Gas. Chemistry of Materials, 2018, 30, 6614-6618. | 6.7 | 19 |
| 95 | MTE water remediation using Loy Yang brown coal as a filter bed adsorbent. Fuel, 2008, 87, 894-904. | 6.4 | 18 |
| 96 | The remediation of MTE water by combined anaerobic digestion and chemical treatment. Fuel, 2009, 88, 1786-1792. | 6.4 | 18 |
| 97 | SBA-15 supported cobalt oxide species: Synthesis, morphology and catalytic oxidation of cyclohexanol using TBHP. Journal of Molecular Catalysis A, 2013, 379, 277-286. | 4.8 | 18 |
| 98 | Coordination Chemistry and Structural Dynamics of a Long and Flexible Piperazine-Derived Ligand. Inorganic Chemistry, 2016, 55, 6692-6702. | 4.0 | 18 |
| 99 | Shaped polyethyleneimine sorbents for CO 2 capture. Microporous and Mesoporous Materials, 2017, 238, 14-18. | 4.4 | 18 |
| 100 | The effect of densification with alkali hydroxides on brown coal self-heating behaviour and physico-chemical properties. Fuel, 2019, 240, 299-308. | 6.4 | 18 |
| 101 | Studies related to the structure and reactivity of coals. Fuel, 1990, 69, 764-770. | 6.4 | 16 |
| 102 | Assessment of the water quality produced from mechanical thermal expression processing of three Latrobe Valley lignites. Fuel, 2006, 85, 1364-1370. | 6.4 | 16 |
| 103 | Ambient temperature solubilisation of brown coal in ammonium carbamate ionic liquids. Fuel, 2016, 166, 106-115. | 6.4 | 16 |
| 104 | Long-Time-Period, Low-Temperature Reactions of Green River Oil Shale. Energy & Fuels, 2018, 32, 4808-4822. | 5.1 | 16 |
| 105 | Energy efficient method of supercritical extraction of oil from oil shale. Energy Conversion and Management, 2022, 252, 115108. | 9.2 | 16 |
| 106 | Attempts to produce blast furnace coke from Victorian brown coal. 3. Hydrothermally dewatered and acid washed coal as a blast furnace coke precursor. Fuel, 2016, 180, 597-605. | 6.4 | 15 |
| 107 | Technoeconomic Evaluation of a Process Capturing CO2 Directly from Air. Processes, 2019, 7, 503. | 2.8 | 15 |
| 108 | Partial Exchange of Fe(III) Montmorillonite with Hexadecyltrimethylammonium Cation Increases Catalytic Activity for Hydrophobic Substrates. Langmuir, 2010, 26, 4258-4265. | 3.5 | 14 |

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| 109 | Cadmium oxide/alkali metal halide mixtures â€“ a potential high capacity sorbent for pre-combustion CO2 capture. Journal of Materials Chemistry A, 2013, 1, 10962. | 10.3 | 14 |
| 110 | Reactions with CO/H<sub>2</sub>O of Two Marine Algae and Comparison with Reactions under H<sub>2</sub> and N<sub>2</sub>. Energy & Fuels, 2014, 28, 3143-3156. | 5.1 | 14 |
| 111 | Recovery of shale oil condensate from different oil shales using a flow-through apparatus. Fuel Processing Technology, 2015, 133, 167-172. | 7.2 | 14 |
| 112 | Dimethoxymethane Production via Catalytic Hydrogenation of Carbon Monoxide in Methanol Media. ACS Sustainable Chemistry and Engineering, 2020, 8, 2081-2092. | 6.7 | 14 |
| 113 | The Fate of Trace Elements During MTE and HTD Dewatering of Latrobe Valley Brown Coals. Coal Preparation, 2007, 27, 210-229. | 0.5 | 13 |
| 114 | Chemical Characterization of MEA Degradation in PCC pilot plants operating in Australia. Energy Procedia, 2013, 37, 877-882. | 1.8 | 13 |
| 115 | Primary sources and accumulation rates of inorganic anions and dissolved metals in a MEA absorbent during PCC at a brown coal-fired power station. International Journal of Greenhouse Gas Control, 2015, 41, 239-248. | 4.6 | 13 |
| 116 | Aminopropyl-Functionalized Silica CO<sub>2</sub>Adsorbents via Sonochemical Methods. Journal of Chemistry, 2016, 2016, 1-10. | 1.9 | 13 |
| 117 | Vacancy Generation and Oxygen Uptake in Cu-Doped Pr-CeO<sub>2</sub> Materials using Neutron and in Situ X-ray Diffraction. Inorganic Chemistry, 2016, 55, 12595-12602. | 4.0 | 13 |
| 118 | A comparison of primary lignite structure as determined by pyrolysis techniques with chemical characteristics determined by other methods. Fuel, 2006, 85, 998-1003. | 6.4 | 12 |
| 119 | Pyrolysis of Phenethyl Phenyl Ether Tethered in Mesoporous Silica. Effects of Confinement and Surface Spacer Molecules on Product Selectivity. Journal of Organic Chemistry, 2011, 76, 6014-6023. | 3.2 | 12 |
| 120 | Molecular indicators of diagenesis in lignite diastereomeric configuration of triterpenoid derived aromatic hydrocarbons. Organic Geochemistry, 1990, 15, 485-488. | 1.8 | 11 |
| 121 | Lignite clean up of magnesium bisulphite pulp mill effluent as a proxy for aqueous discharge from a ligno-cellulosic biorefinery. Biomass and Bioenergy, 2012, 36, 411-418. | 5.7 | 11 |
| 122 | Biorefinery process water effluent treatments by salt coagulation. Biomass and Bioenergy, 2013, 56, 189-196. | 5.7 | 11 |
| 123 | Porous Polyrotaxane Coordination Networks Containing Two Distinct Conformers of a Discontinuously Flexible Ligand. Inorganic Chemistry, 2016, 55, 10467-10474. | 4.0 | 11 |
| 124 | A comparison of acid treatment in the dewatering of Chinese and Australian lignites by mechanical thermal expression at high temperatures. Fuel Processing Technology, 2016, 144, 282-289. | 7.2 | 11 |
| 125 | Characterisation of the products of low temperature pyrolysis of Victorian brown coal in a semi-continuous/flow through system. Fuel, 2018, 234, 1422-1430. | 6.4 | 11 |
| 126 | Ru-zirconia catalyst derived from MIL140C for carbon dioxide conversion to methane. Catalysis Today, 2021, 371, 120-133. | 4.4 | 11 |

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| 127 | Colouring matters of Australian plants. XXIV. Haemofluorone B : New synthetic models and a revised structure. Australian Journal of Chemistry, 1981, 34, 587. | 0.9 | 10 |
| 128 | THE INFLUENCE OF WATER QUALITY ON THE REUSE OF LIGNITE-DERIVED WATERS IN THE LATROBE VALLEY, AUSTRALIA. Coal Preparation, 2005, 25, 47-66. | 0.5 | 10 |
| 129 | Investigation of the capacity decay of a CdOâ€“NaI mixed sorbent for pre-combustion CO<sub>2</sub> capture. Journal of Materials Chemistry A, 2015, 3, 5162-5175. | 10.3 | 10 |
| 130 | Structural Characteristics of Low-Aromaticity Marine and Lacustrine Oil Shales and their NaOH-HCl Kerogens Determined Using 13C NMR and XPS. Australian Journal of Chemistry, 2020, 73, 1237. | 0.9 | 10 |
| 131 | Microreactor for postcolumn reaction gas chromatography/mass spectrometry with fused silica capillary columns. Analytical Chemistry, 1985, 57, 2429-2430. | 6.5 | 9 |
| 132 | Modeling gas adsorption in metal organic frameworks. Energy Procedia, 2009, 1, 1273-1280. | 1.8 | 9 |
| 133 | Silica/Polyethyleneimine Composite Adsorbent S-PEI for CO2Capture by Vacuum Swing Adsorption (VSA). ACS Symposium Series, 2012, , 177-205. | 0.5 | 9 |
| 134 | Quantification of Aqueous Monoethanolamine Concentration by Gas Chromatography for Postcombustion Capture of CO<sub>2</sub>. Industrial & Engineering Chemistry Research, 2014, 53, 4805-4811. | 3.7 | 9 |
| 135 | Structural chemistry and selective CO<sub>2</sub>uptake of a piperazine-derived porous coordination polymer. CrystEngComm, 2015, 17, 2196-2203. | 2.6 | 9 |
| 136 | Cu-Enhanced Surface Defects and Lattice Mobility of Pr-CeO<sub>2</sub> Mixed Oxides. Journal of Physical Chemistry C, 2016, 120, 27996-28008. | 3.1 | 9 |
| 137 | UV-induced colour generation of pulp and paper mill effluents as a proxy of ligno-cellulosic biorefinery wastewater. Journal of Water Process Engineering, 2019, 29, 100781. | 5.6 | 9 |
| 138 | Upgrading Microalgal Biocrude Using NiMo/Al-SBA-15 as a Catalyst. Energy & Fuels, 2020, 34, 4618-4631. | 5.1 | 9 |
| 139 | Pyrolysis of fast growing wood Macaranga gigantea: Product characterisation and kinetic study. Fuel, 2022, 315, 123182. | 6.4 | 9 |
| 140 | Fast atom bombardment mass spectrometry of seryl- and O-phosphoseryl-containing peptides. Tetrahedron Letters, 1986, 27, 4791-4794. | 1.4 | 8 |
| 141 | Gas binding to Au13, Au12Pd, and Au11Pd2 nanoclusters in the context of catalytic oxidation and reduction reactions. Journal of Chemical Physics, 2008, 129, 164712. | 3.0 | 8 |
| 142 | PEI modified mesocellular siliceous foam: A novel sorbent for CO2. Energy Procedia, 2011, 4, 839-843. | 1.8 | 8 |
| 143 | Improvements in the Pre-Combustion Carbon Dioxide Sorption Capacity of a Magnesium Oxideâ€“Cesium Carbonate Sorbent. Energy & Fuels, 2014, 28, 5284-5295. | 5.1 | 8 |
| 144 | Improvement in liquid fuel product quality from reactions of grape marc with CO/H2O. Fuel, 2015, 159, 234-240. | 6.4 | 8 |

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| 145 | Effect of Syngas Constituents on CdO- and MgO-Based Sorbents for Pre-combustion CO2 Capture. Energy & Fuels, 2015, 29, 5909-5918. | 5.1 | 8 |
| 146 | The koËbel-engelhardt reaction over a silica supported nickel catalyst. Variation of product distributions with reaction conditions. Applied Catalysis, 1986, 26, 123-139. | 0.8 | 7 |
| 147 | Comparison of the structure and reactivity of a Kansk-Achinsk basin (USSR) coal with those of a Latrobe Valley (Australia) coal. Energy & Fuels, 1990, 4, 28-33. | 5.1 | 7 |
| 148 | Structural characterisation of Middle Jurassic, high-volatile bituminous Walloon Subgroup coals and correlation with the coal seam gas content. Fuel, 2010, 89, 3241-3249. | 6.4 | 7 |
| 149 | Multiple sorption cycles evaluation of cadmium oxideâ€“alkali metal halide mixtures for pre-combustion CO<sub>2</sub> capture. Journal of Materials Chemistry A, 2014, 2, 4299-4308. | 10.3 | 7 |
| 150 | Attempts to produce blast furnace coke from Victorian brown coal. 4. Low surface area char from alkali treated brown coal. Fuel, 2016, 186, 320-327. | 6.4 | 7 |
| 151 | Atomistic Mechanisms of Thermal Transformation in a Zr-Metal Organic Framework, MIL-140C. Journal of Physical Chemistry Letters, 2021, 12, 177-184. | 4.6 | 7 |
| 152 | A comparison of the thermal conversion behaviour of marine kerogens isolated from oil shales by NaOH-HCl and HCl-HF methods. Journal of Analytical and Applied Pyrolysis, 2021, 155, 105023. | 5.5 | 7 |
| 153 | Detailed gas chromatography/mass spectrometric structural determination of olefin oligomerization products. Industrial & Engineering Chemistry Research, 1987, 26, 1822-1824. | 3.7 | 6 |
| 154 | A simple explanation for the [MH-90]+ ion in the fast atom bombardment mass spectrum of NÎ±-(t-butyloxycarbonyl)-O-(dibenzylphosphoro)-L-serine. Organic Mass Spectrometry, 1988, 23, 680-683. | 1.3 | 6 |
| 155 | Studies related to the structure and reactivity of coals. Fuel, 1989, 68, 1549-1557. | 6.4 | 6 |
| 156 | Fischer-tropsch catalysts derived from surface confined [HnFeCo3(CO)12]nâ^'1 (n = 0, 1). Polyhedron, 1990, 9, 2815-2822. | 2.2 | 6 |
| 157 | Simulations of model metal-organic frameworks for the separation of carbon dioxide. Energy Procedia, 2011, 4, 568-575. | 1.8 | 6 |
| 158 | Thermo-chemical reactions of algae, grape marc and wood chips using a semi-continuous/flow-through system. Fuel, 2015, 158, 927-936. | 6.4 | 6 |
| 159 | Coordination polymers from a flexible alkyldiamine-derived ligand. CrystEngComm, 2017, 19, 5137-5145. | 2.6 | 6 |
| 160 | Shaped Silica-polyethyleneimine Composite Sorbents for CO2 Capture via Adsorption. Energy Procedia, 2017, 114, 2219-2227. | 1.8 | 5 |
| 161 | Metal nanoparticles formed by thermal transformation of M-MIL140C (M=In, Rh, Pd). Microporous and Mesoporous Materials, 2021, 324, 111264. | 4.4 | 5 |
| 162 | Rh/ZrO2@C(MIL) catalytic activity and TEM images. CO2 conversion performance and structural systematic evaluation of novel catalysts derived from Zr-MOF metallated with Ru, Rh, Pd or In. Microporous and Mesoporous Materials, 2022, 336, 111855. | 4.4 | 5 |

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