# Robert Pietrzak

List of Publications by Year
in descending order



| 115 | 4,606 | 70961 | 123241 |
|---|---|---|---|
| papers | citations | 41 h-index | 61 g-index |

| 115 | 115 | 115 | 4726 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Removal of Organic Dyes from Aqueous Solutions by Activated Carbons Prepared from Residue of Supercritical Extraction of Marigold. Materials, 2022, 15, 3655. | 1.3 | 9 |
| 2 | Bioavailability of Hesperidin and Its Aglycone Hesperetinâ€"Compounds Found in Citrus Fruits as a Parameter Conditioning the Pro-Health Potential (Neuroprotective and Antidiabetic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 697 Td (Activi | 0.7 | 37 |
| 3 | Removal of NO2 from gas stream by activated bio-carbons from physical activation of residue of supercritical extraction of hops. Chemical Engineering Research and Design, 2021, 166, 67-73. | 2.7 | 16 |
| 4 | Activated Bio-Carbons Prepared from the Residue of Supercritical Extraction of Raw Plants and Their Application for Removal of Nitrogen Dioxide and Hydrogen Sulfide from the Gas Phase. Materials, 2021, 14, 3192. | 1.3 | 10 |
| 5 | N-doped sawdust-based activated biocarbons prepared by microwave-assisted heat treatment as potential electrode materials for supercapacitors. Journal of Wood Chemistry and Technology, 2021, 41, 307-320. | 0.9 | 6 |
| 6 | Removal of Heavy Metal Ions from One- and Two-Component Solutions via Adsorption on N-Doped Activated Carbon. Materials, 2021, 14, 7045. | 1.3 | 16 |
| 7 | Iron(II) Sulfate(VI) from Titania Production as a Raw Material for Preparation of Hydrogen Sulfide Sorbents. Chemical Engineering and Technology, 2020, 43, 104-110. | 0.9 | 1 |
| 8 | Characterization and application of spherical carbonaceous materials prepared with the use of microwave radiation. Diamond and Related Materials, 2020, 108, 107927. | 1.8 | 4 |
| 9 | Adsorption of organic and inorganic pollutants on activated bio-carbons prepared by chemical activation of residues of supercritical extraction of raw plants. Chemical Engineering Journal, 2020, 393, 124785. | 6.6 | 49 |
| 10 | Hay-based activated biochars obtained using two different heating methods as effective low-cost sorbents: Solid surface characteristics, adsorptive properties and aggregation in the mixed Cu(II)/PAM system. Chemosphere, 2020, 250, 126312. | 4.2 | 19 |
| 11 | Composite sulfur cathode for Li-S batteries comprising hierarchical carbon obtained from waste PET bottles. Synthetic Metals, 2020, 261, 116305. | 2.1 | 19 |
| 12 | The effect of demineralization on the physicochemical and sorption properties of activated bio-carbons. Adsorption, 2019, 25, 337-343. | 1.4 | 15 |
| 13 | Comparison of physicochemical, sorption and electrochemical properties of nitrogen-doped activated carbons obtained with the use of microwave and conventional heating. Adsorption, 2019, 25, 405-417. | 1.4 | 7 |
| 14 | Optimal synthesis of oxidized mesoporous carbons for the adsorption of heavy metal ions. Journal of Molecular Liquids, 2019, 276, 630-637. | 2.3 | 53 |
| 15 | Removal of rhodamine B from water by modified carbon xerogels. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 543, 109-117. | 2.3 | 62 |
| 16 | Production of new activated bio-carbons by chemical activation of residue left after supercritical extraction of hops. Environmental Research, 2018, 161, 456-463. | 3.7 | 26 |
| 17 | Physicochemical characterization of ordered mesoporous carbons functionalized by wet oxidation. Journal of Materials Science, 2018, 53, 5997-6007. | 1.7 | 16 |
| 18 | Removal of Iron and Copper Ions from the Liquid Phase by Modified Polymeric Membranes. Journal of Polymers and the Environment, 2018, 26, 3237-3242. | 2.4 | 3 |

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|---|---|---|---|
| 19 | Synthesis of carbon xerogels modified with amine groups and copper for efficient adsorption of caffeine. Chemical Engineering Journal, 2018, 345, 13-21. | 6.6 | 35 |
| 20 | Catalytic performance of ordered mesoporous carbons modified with lanthanides in dry methane reforming. Catalysis Today, 2018, 301, 204-216. | 2.2 | 28 |
| 21 | Coniferous Wood Sawdust-based Activated Carbons as Adsorbents Obtained with the Use of Microwave Radiation. Journal of Wood Chemistry and Technology, 2018, 38, 286-299. | 0.9 | 6 |
| 22 | Uptake of heavy metal ions from aqueous solutions by sorbents obtained from the spent ion exchange resins. Microporous and Mesoporous Materials, 2017, 244, 127-136. | 2.2 | 49 |
| 23 | Adsorption of poly(acrylic acid) on the surface of microporous activated carbon obtained from cherry stones. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 514, 137-145. | 2.3 | 34 |
| 24 | The influence of activation procedure on the physicochemical and sorption properties of activated carbons prepared from pistachio nutshells for removal of NO 2 /H 2 S gases and dyes. Journal of Cleaner Production, 2017, 152, 211-222. | 4.6 | 54 |
| 25 | Thermal and physicochemical properties of phosphorus-containing activated carbons obtained from biomass. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 1006-1013. | 2.7 | 32 |
| 26 | Characterization and application of bio-activated carbons prepared by direct activation of hay with the use of microwave radiation. Powder Technology, 2017, 319, 302-312. | 2.1 | 24 |
| 27 | Adsorption of dyes on the surface of polymer nanocomposites modified with methylamine and copper(II) chloride. Journal of Colloid and Interface Science, 2017, 504, 549-560. | 5.0 | 33 |
| 28 | THERMAL STUDY OF ADSORBENTS PREPARED FROM WASTE TYRES. Environmental Engineering and Management Journal, 2017, 16, 439-447. | 0.2 | 2 |
| 29 | Removal of NO2 by carbonaceous adsorbents obtained from residue after supercritical extraction of marigold. Adsorption, 2016, 22, 465-471. | 1.4 | 11 |
| 30 | Thermal analysis of activated carbon obtained from residue after supercritical extraction of hops. Journal of Thermal Analysis and Calorimetry, 2016, 125, 1199-1204. | 2.0 | 57 |
| 31 | The use of microwave radiation for obtaining carbonaceous adsorbents from biomass and their use in elimination of inorganic pollutants. Adsorption, 2016, 22, 473-480. | 1.4 | 9 |
| 32 | Membranes obtained on the basis of cellulose acetate and their use in removal of metal ions from liquid phase. Polish Journal of Chemical Technology, 2016, 18, 104-110. | 0.3 | 6 |
| 33 | Biomass-derived hierarchical carbon as sulfur cathode stabilizing agent for lithium-sulfur batteries. Solid State Ionics, 2016, 297, 59-63. | 1.3 | 39 |
| 34 | Preparation and physicochemical characterisation of functionalised multi-walled carbon nanotubes. Adsorption, 2016, 22, 481-488. | 1.4 | 0 |
| 35 | Î²-Cyclodextrin complexation as an effective drug delivery system for meropenem. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 99, 24-34. | 2.0 | 44 |
| 36 | Stability analysis of functionalized mesoporous carbon materials in aqueous solution. Chemical Engineering Journal, 2016, 290, 209-219. | 6.6 | 35 |

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| 37 | Toxic gases removal onto activated carbons obtained from hay with the use of microwave radiation. Chemical Engineering Research and Design, 2016, 109, 346-353. | 2.7 | 10 |
| 38 | The effect of surface modification of mesoporous carbons on Auramine-O dye removal from water. Adsorption, 2016, 22, 531-540. | 1.4 | 27 |
| 39 | Physicochemical and adsorption properties of carbonaceous sorbents prepared by activation of tropical fruit skins with potassium carbonate. Materials and Design, 2016, 90, 579-585. | 3.3 | 69 |
| 40 | Comparison of adsorption properties of Mg x O y â€“SiO 2 and Zn x O y â€“SiO 2 in the mixed oxide-poly(vinyl alcohol) system. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 492, 12-18. | 2.3 | 17 |
| 41 | Production of activated carbons from biodegradable waste materials as an alternative way of their utilisation. Adsorption, 2016, 22, 489-502. | 1.4 | 31 |
| 42 | Complex of Rutin with Î²-Cyclodextrin as Potential Delivery System. PLoS ONE, 2015, 10, e0120858. | 1.1 | 50 |
| 43 | Textural, surface, thermal and sorption properties of the functionalized activated carbons and carbon nanotubes. Polish Journal of Chemical Technology, 2015, 17, 120-127. | 0.3 | 8 |
| 44 | Sorption Properties of Carbonaceous Adsorbents Obtained by Pyrolysis and Activation of Pistachio Nut Shells. Adsorption Science and Technology, 2015, 33, 581-586. | 1.5 | 17 |
| 45 | The use of microwave radiation for obtaining activated carbons enriched in nitrogen. Powder Technology, 2015, 273, 71-75. | 2.1 | 27 |
| 46 | Equilibrium and kinetic studies of chromotrope 2R adsorption onto ordered mesoporous carbons modified with lanthanum. Chemical Engineering Journal, 2015, 270, 140-149. | 6.6 | 37 |
| 47 | The use of microwave radiation for obtaining activated carbons from sawdust and their potential application in removal of NO2 and H2S. Chemical Engineering Journal, 2015, 269, 352-358. | 6.6 | 73 |
| 48 | Removal of tartrazine from aqueous solution by carbon nanotubes decorated with silver nanoparticles. Catalysis Today, 2015, 249, 259-264. | 2.2 | 57 |
| 49 | Ordered mesoporous silica modified with lanthanum for ibuprofen loading and release behaviour. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 94, 550-558. | 2.0 | 49 |
| 50 | Ordered mesoporous carbons modified with cerium as effective adsorbents for azo dyes removal. Separation and Purification Technology, 2015, 154, 236-245. | 3.9 | 62 |
| 51 | Comparison of physicochemical and sorption properties of activated carbons prepared by physical and chemical activation of cherry stones. Powder Technology, 2015, 269, 312-319. | 2.1 | 124 |
| 52 | Nitrogen-enriched activated carbons prepared by the activation of coniferous tree sawdust and their application in the removal of Nitrogen dioxide. International Journal of Environmental Science and Technology, 2015, 12, 2233-2244. | 1.8 | 25 |
| 53 | Comparison of the effects of different chemical activation methods on properties of carbonaceous adsorbents obtained from cherry stones. Chemical Engineering Research and Design, 2014, 92, 1187-1191. | 2.7 | 49 |
| 54 | Adsorption of l-phenylalanine on ordered mesoporous carbons prepared by hard template method. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 347-353. | 2.7 | 29 |

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| 55 | Hydrogen sulphide removal on carbonaceous adsorbents prepared from coffee industry waste materials. Chemical Engineering Journal, 2014, 248, 208-215. | 6.6 | 68 |
| 56 | Synthesis of polymer membranes of different porosity and their application for phenol removal from liquid phase. Korean Journal of Chemical Engineering, 2014, 31, 304-309. | 1.2 | 5 |
| 57 | Mesoporous carbons modified with lanthanum(III) chloride for methyl orange adsorption. Chemical Engineering Journal, 2014, 247, 258-264. | 6.6 | 114 |
| 58 | Physicochemical and sorption properties of multi-walled carbon nanotubes decorated with silver nanoparticles. Chemical Engineering Journal, 2014, 250, 295-302. | 6.6 | 11 |
| 59 | Comparison of ordered mesoporous materials sorption properties towards amino acids. Adsorption, 2013, 19, 581-588. | 1.4 | 22 |
| 60 | On competitive uptake of SO2 and CO2 from air by porous carbon containing CaO and MgO. Chemical Engineering Journal, 2013, 226, 348-356. | 6.6 | 34 |
| 61 | Sorption properties of activated carbons obtained from corn cobs by chemical and physical activation. Adsorption, 2013, 19, 273-281. | 1.4 | 71 |
| 62 | NO2 removal on adsorbents prepared from coffee industry waste materials. Adsorption, 2013, 19, 521-528. | 1.4 | 33 |
| 63 | Porous carbon material containing CaO for acidic gas capture: Preparation and properties. Journal of Hazardous Materials, 2013, 263, 353-360. | 6.5 | 22 |
| 64 | MgO/CaO-loaded porous carbons for carbon dioxide capture. Journal of Thermal Analysis and Calorimetry, 2013, 111, 357-364. | 2.0 | 33 |
| 65 | Adsorption of l-phenylalanine onto mesoporous silica. Materials Chemistry and Physics, 2013, 142, 586-593. | 2.0 | 35 |
| 66 | The effect of chemical activation method on properties of activated carbons obtained from pine cones. Open Chemistry, 2013, 11, 78-85. | 1.0 | 15 |
| 67 | Synergy effect in the photocatalytic degradation of methylene blue on a suspended mixture of TiO2 and N-containing carbons. Carbon, 2013, 54, 460-471. | 5.4 | 48 |
| 68 | The influence of pore generating agent on the efficiency of copper and iron ions removal from liquid phase by polyethersulfone membranes. Chemical Engineering Journal, 2013, 228, 449-454. | 6.6 | 12 |
| 69 | MgO/CaO-Loaded Activated Carbon for Carbon Dioxide Capture: Practical Aspects of Use. Industrial & Engineering Chemistry Research, 2013, 52, 6669-6677. | 1.8 | 26 |
| 70 | In vitro release of l-phenylalanine from ordered mesoporous materials. Microporous and Mesoporous Materials, 2013, 177, 32-36. | 2.2 | 18 |
| 71 | Copper ions removal from liquid phase by polyethersulfone (PES) membranes functionalized by introduction of carbonaceous materials. Chemical Engineering Journal, 2013, 215-216, 216-221. | 6.6 | 29 |
| 72 | Metals Ions Removal by Polymer Membranes of Different Porosity. Scientific World Journal, The, 2013, 2013, 1-7. | 0.8 | 11 |

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| 73 | Thermal analysis of activated carbons modified with silver metavanadate. Thermochimica Acta, 2012, 541, 42-48. | 1.2 | 11 |
| 74 | MgO-loaded porous carbon for carbon dioxide sorption: Study on cyclic sorptionâ€“regeneration. International Journal of Greenhouse Gas Control, 2012, 10, 164-168. | 2.3 | 8 |
| 75 | Nitrogen-Doped Carbonaceous Materials for Removal of Phenol from Aqueous Solutions. Scientific World Journal, The, 2012, 2012, 1-8. | 0.8 | 8 |
| 76 | NO2 removal by adsorbents prepared from waste paper sludge. Chemical Engineering Journal, 2012, 183, 278-283. | 6.6 | 16 |
| 77 | The influence of silver on the physicochemical and catalytic properties of activated carbons. Chemical Engineering Journal, 2012, 189-190, 422-430. | 6.6 | 14 |
| 78 | NO2 removal on adsorbents obtained by pyrolysis and physical activation of corrugated cardboard. Chemical Engineering Journal, 2012, 195-196, 7-14. | 6.6 | 45 |
| 79 | Effect of ammoxidation of activated carbons obtained from sub-bituminous coal on their NO2 sorption capacity under dry conditions. Chemical Engineering Journal, 2011, 166, 1039-1043. | 6.6 | 48 |
| 80 | Adsorbents obtained from waste tires for NO2 removal under dry conditions at room temperature. Chemical Engineering Journal, 2011, 170, 202-208. | 6.6 | 50 |
| 81 | Active carbons prepared by chemical activation of plum stones and their application in removal of NO2. Journal of Hazardous Materials, 2010, 181, 1088-1094. | 6.5 | 92 |
| 82 | Nitrogen-enriched bituminous coal-based active carbons as materials for supercapacitors. Fuel, 2010, 89, 3457-3467. | 3.4 | 60 |
| 83 | Carbonaceous adsorbents prepared by physical activation of pine sawdust and their application for removal of NO2 in dry and wet conditions. Bioresource Technology, 2010, 101, 5802-5807. | 4.8 | 48 |
| 84 | Sorption properties of active carbons obtained from walnut shells by chemical and physical activation. Catalysis Today, 2010, 150, 107-114. | 2.2 | 96 |
| 85 | Effect of activation method on the physicochemical properties and NO2 removal abilities of sorbents obtained from plum stones (Prunus domestica). Chemical Engineering Journal, 2010, 162, 723-729. | 6.6 | 28 |
| 86 | Sawdust pellets from coniferous species as adsorbents for NO2 removal. Bioresource Technology, 2010, 101, 907-913. | 4.8 | 33 |
| 87 | X-ray Photoelectron Spectroscopy Study of Nitrogen-Enriched Active Carbons Obtained by Ammoxidation and Chemical Activation of Brown and Bituminous Coals. Energy & Fuels, 2010, 24, 1197-1206. | 2.5 | 73 |
| 88 | Interactions of NO<sub>2</sub> and NO with Carbonaceous Adsorbents Containing Silver Nanoparticles. Langmuir, 2010, 26, 9457-9464. | 1.6 | 29 |
| 89 | XPS study and physico-chemical properties of nitrogen-enriched microporous activated carbon from high volatile bituminous coal. Fuel, 2009, 88, 1871-1877. | 3.4 | 245 |
| 90 | The influence of oxidation with nitric acid on the preparation and properties of active carbon enriched in nitrogen. Applied Surface Science, 2009, 255, 3586-3593. | 3.1 | 17 |

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| 91 | Active Carbons Obtained from Bituminous Coal for NO<sub>2</sub>Removal under Dry and Wet Conditions at Room Temperature. Energy & Fuels, 2009, 23, 3617-3624. | 2.5 | 30 |
| 92 | Influence of the Precursor Metamorphism Degree on Preparation of Nitrogen-enriched Activated Carbons by Ammoxidation and Chemical Activation of Coals. Energy & Fuels, 2009, 23, 2205-2212. | 2.5 | 42 |
| 93 | Interactions of NO2 with sewage sludge based composite adsorbents. Journal of Hazardous Materials, 2008, 154, 946-953. | 6.5 | 35 |
| 94 | Capacitance behaviour of brown coal based active carbon modified through chemical reaction with urea. Electrochimica Acta, 2008, 53, 5469-5475. | 2.6 | 130 |
| 95 | Siberian anthracite as a precursor material for microporous activated carbons. Fuel, 2008, 87, 2037-2040. | 3.4 | 33 |
| 96 | Comparison of Physicochemical Properties of Nitrogen-enriched Activated Carbons Prepared by Physical and Chemical Activation of Brown Coal. Energy & Fuels, 2008, 22, 4133-4138. | 2.5 | 41 |
| 97 | Reactive Adsorption of NO<sub>2</sub> at Dry Conditions on Sewage Sludge-Derived Materials. Environmental Science & Technology, 2007, 41, 7516-7522. | 4.6 | 30 |
| 98 | Role of Graphite Oxide (GO) and Polyaniline (PANI) in NO<sub>2</sub> Reduction on GO-PANI Composites. Industrial & Engineering Chemistry Research, 2007, 46, 6925-6935. | 1.8 | 53 |
| 99 | Activated carbons modified with sewage sludge derived phase and their application in the process of NO2 removal. Carbon, 2007, 45, 2537-2546. | 5.4 | 65 |
| 100 | Microporous activated carbons from ammoxidised anthracite and their capacitance behaviours. Fuel, 2007, 86, 1086-1092. | 3.4 | 52 |
| 101 | XPS study of pyrite-free coals subjected to different oxidizing agents. Fuel, 2007, 86, 2616-2624. | 3.4 | 114 |
| 102 | Preparation of modified active carbon from brown coal by ammoxidation. Fuel Processing Technology, 2007, 88, 409-415. | 3.7 | 58 |
| 103 | Microwave saturation of EPR spectra of oxidised coal. Open Chemistry, 2007, 5, 330-340. | 1.0 | 9 |
| 104 | Preparation of Nitrogen-Enriched Activated Carbons from Brown Coal. Energy & Fuels, 2006, 20, 1275-1280. | 2.5 | 115 |
| 105 | Capacitance properties of multi-walled carbon nanotubes modified by activation and ammoxidation. Carbon, 2006, 44, 2368-2375. | 5.4 | 115 |
| 106 | The influence of oxidation with air in comparison to oxygen in sodium carbonate solution on the surface composition of coals of different ranks. Fuel, 2006, 85, 1016-1023. | 3.4 | 51 |
| 107 | The influence of oxidation with HNO3 on the surface composition of high-sulphur coals: XPS study. Fuel Processing Technology, 2006, 87, 1021-1029. | 3.7 | 94 |
| 108 | The effect of flame coal oxidation on the solid and soluble products of its extraction. Open Chemistry, 2005, 3, 852-865. | 1.0 | 0 |

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| 109 | Studies of the soluble part of oxidised coals. Open Chemistry, 2004, 2, 278-289. | 1.0 | 2 |
| 110 | Thermal analysis of oxidised coals. Thermochimica Acta, 2004, 419, 247-251. | 1.2 | 45 |
| 111 | The Comparison of Oxygen and Sulfur Species Formed by Coal Oxidation with O2/Na2CO3 or Peroxyacetic Acid Solution. XPS Studies. Energy & Fuels, 2004, 18, 804-809. | 2.5 | 27 |
| 112 | Low temperature oxidation of coals of different rank and different sulphur contentâ‹†. Fuel, 2003, 82, 705-713. | 3.4 | 82 |
| 113 | X-ray photoelectron spectroscopy study of oxidized coals with different sulphur content. Fuel Processing Technology, 2002, 77-78, 1-7. | 3.7 | 140 |
| 114 | APâ€“TPR study of sulphur in coals subjected to mild oxidation. Part 1. Demineralised coals. Fuel, 2002, 81, 2397-2405. | 3.4 | 38 |
| 115 | Oxidation of demineralized coal and coal free of pyrite examined by EPR spectroscopy. Fuel, 2002, 81, 1925-1931. | 3.4 | 56 |