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Effects of activated carbon surface chemistry and pore structure on the adsorption of organic contaminants from aqueous solution

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198	Phenol and Cr(VI) removal using materials derived from harmful algal bloom biomass: Characterization and performance assessment for a biosorbent, a porous carbon, and Fe/C composites. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 368, 477-486	12.8	21
197	Diffusion of hydrophilic organic micropollutants in granular activated carbon with different pore sizes. <b>2019</b> , 162, 518-527		48
196	Thermodynamic stability of nitrogen functionalities and defects in graphene and graphene nanoribbons from first principles. <i>Carbon</i> , <b>2019</b> , 152, 715-726	10.4	11
195	Designing heterogeneous hierarchical material systems: a holistic approach to structural and materials design. <b>2019</b> , 9, 628-636		6
194	Recent Advances in Carbonaceous Photocatalysts with Enhanced Photocatalytic Performances: A Mini Review. <b>2019</b> , 12,		57
193	Heterogeneous biochars from agriculture residues and coal fly ash for the removal of heavy metals from coking wastewater.. <b>2019</b> , 9, 16018-16027		6
192	Evaluation of Common Granular Activated Carbon Parameters for Trace Contaminant Removal. <b>2019</b> , 145, 04019035		2
191	The effect of physical adsorption on the capacitance of activated carbon electrodes. <i>Carbon</i> , <b>2019</b> , 150, 334-339	10.4	3
190	Removal of hinosan from underground water using NHCl-modified activated carbon from rice husk. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 20344-20351	5.1	2
189	Adsorption of ibuprofen on organo-sepiolite and on zeolite/sepiolite heterostructure: Synthesis, characterization and statistical physics modeling. <i>Chemical Engineering Journal</i> , <b>2019</b> , 371, 868-875	14.7	65
188	Adsorption and thermodynamic parameters of chlorantraniliprole and dinotefuran on clay loam soil with difference in particle size and pH. <b>2019</b> , 54, 475-488		4
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186	Adsorption of radionuclides on carbon-based nanomaterials. <b>2019</b> , 141-215		2
185	Process optimization for producing ultrapure water with high resistivity and low total organic carbon. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 126, 232-241	5.5	9
184	High Temperature Co-pyrolysis Thermal Air Activation Enhances Biochar Adsorption of Herbicides from Surface Water. <b>2019</b> , 36, 710-723		10
183	Adsorption of Cd(II) From Aqueous Solutions by Modified Biochars: Comparison of Modification Methods. <b>2019</b> , 230, 1		20
182	Hierarchically micro-mesoporous $\beta$ -cyclodextrin polymers used for ultrafast removal of micropollutants from water. <b>2019</b> , 213, 352-360		32

181	Dioxanes and dioxolanes in source waters: Occurrence, odor thresholds and behavior through upgraded conventional and advanced processes in a drinking water treatment plant. <b>2019</b> , 156, 404-413		13
180	Abatement of various types of VOCs by adsorption/catalytic oxidation: A review. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 1128-1153	14.7	309
179	Powdered activated coke for COD removal in the advanced treatment of mixed chemical wastewaters and regeneration by Fenton oxidation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 371, 631-638	14.7	25
178	Evaluation of the treatability of various odor compounds by powdered activated carbon. <b>2019</b> , 156, 414-424		21
177	TiO <sub>2</sub> -carbon nanoporous composites prepared via ZnO nanoparticle-templated carbonization of glucose adsorb and photodegrade organic pollutants in water. <b>2019</b> , 28, 331-338		4
176	Evaluation of a modified mica and montmorillonite for the adsorption of ibuprofen from aqueous media. <b>2019</b> , 171, 29-37		32
175	Multifunctional and recyclable TiO <sub>2</sub> hybrid sponges for efficient sorption, detection, and photocatalytic decomposition of organic pollutants. <b>2019</b> , 73, 328-335		11
174	Current Progress on the Surface Chemical Modification of Carbonaceous Materials. <b>2019</b> , 9, 103		37
173	Adsorption in Water Treatment. <b>2019</b> ,		9
172	Synthesis of chromium pillared clay for adsorption of methylene blue. <b>2019</b> , 509, 012003		3
171	Carbonized metal-organic frameworks with trapped cobalt nanoparticles as biocompatible and efficient azo-dye adsorbent. <b>2019</b> , 31,		13
170	Adsorption performance of hydrophobic/hydrophilic silica aerogel for low concentration organic pollutant in aqueous solution. <b>2019</b> , 8, 266-274		15
169	High performance hierarchical porous carbon derived from distinctive plant tissue for supercapacitor. <b>2019</b> , 9, 17270		12
168	Magnetic ordered mesoporous carbon materials for adsorption of minocycline from aqueous solution: Preparation, characterization and adsorption mechanism. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 362, 1-8	12.8	68
167	Adsorption of Selected Pharmaceutical and Personal Care Products with Molybdenum Disulfide and Tungsten Disulfide Nanomaterials. <b>2019</b> , 36, 305-315		5
166	Adsorption and photocatalytic removal of Ibuprofen by activated carbon impregnated with TiO <sub>2</sub> by UV-Vis monitoring. <i>Chemosphere</i> , <b>2019</b> , 217, 724-731	8.4	45
165	A review of biochar properties and their roles in mitigating challenges with anaerobic digestion. <b>2019</b> , 103, 291-307		124
164	Clean-up Procedure Development and Method Validation for Pesticide Residues Analysis in Carrots. <b>2019</b> , 12, 282-292		6

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162	Characterization and phenol adsorption performance of activated carbon prepared from tea residue by NaOH activation. <b>2019</b> , 40, 171-181		19
161	Preparation of affordable and multifunctional clay-based ceramic filter matrix for treatment of drinking water. <b>2019</b> , 40, 1633-1643		13
160	Graphdiyne Sponge for Direct Collection of Oils from Water. <b>2019</b> , 11, 2591-2598		62
159	Ultrafine coal flotation and dewatering: Selecting the surfactants of proper hydrophilic/lipophilic balance (HLB). <b>2020</b> , 40, 564-580		8
158	Removal of heavy metals from landfill leachate using zero valent iron and granular activated carbon. <b>2020</b> , 41, 498-510		7
157	Enhancement of 3D BiMoO mesoporous spheres photocatalytic performance by vacancy engineering. <b>2020</b> , 560, 510-518		18
156	Modeling and optimization of process parameters in elucidating the adsorption mechanism of Gallic acid on activated carbon prepared from date stones. <b>2020</b> , 55, 3113-3125		7
155	Correlation between catalysis properties of activated carbon and nature/position of substitution in the aromatic ring of phenol. <b>2020</b> , 100, 1753-1762		
154	Graphitic solid core carbon nanorods grown on silica sands using electron cyclotron resonance chemical vapor deposition as a highly efficient and green sorbent for removal of phenol derivatives from water sources. <b>2020</b> , 67, 576-584		
153	Co-carbonization of biomass and oily sludge to prepare sulfamethoxazole super-adsorbent materials. <b>2020</b> , 698, 134238		17
152	Tertiary treatment of coke plant effluent by indigenous material from an integrated steel plant: a sustainable approach. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 7379-7387	5.1	5
151	Effect of water leaching on biochar properties and its impact on organic contaminant sorption. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 691-703	5.1	6
150	Asphaltene Adsorption onto Carbonaceous Nanostructures. <b>2020</b> , 34, 211-224		8
149	Influence of the properties of 7 micro-grain activated carbons on organic micropollutants removal from wastewater effluent. <i>Chemosphere</i> , <b>2020</b> , 243, 125306	8.4	10
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146	Study on co-adsorption mechanisms of benzene and toluene on activated carbon via molecular simulation. <b>2020</b> , 280, 128554		1



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144	Superficial properties of activated carbon fiber catalysts produced by green synthesis and their application in water purification. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 40405-40420	5.1	2
143	Reaction of Substituted Phenols with Lignin Char: Dual Oxidative and Reductive Pathways Depending on Substituents and Conditions. <b>2020</b> , 54, 15811-15820		8
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139	Functionalized powdered activated carbon electrospun nanofiber membranes for adsorption of micropollutants. <i>Separation and Purification Technology</i> , <b>2020</b> , 253, 117461	8.3	14
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132	Trichloroethylene adsorption from aqueous solutions by activated carbons. <b>2020</b> , 30, 281-287		5
131	Co-Pyrolysis of Beet Pulp and Defecation Lime in TG-MS System. <b>2020</b> , 13, 2304		1
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128	A Comprehensive review on the hierarchical performances of eco-friendly and functionally advanced modified and recyclable carbon materials. <b>2020</b> , 17, 1521-1537		3

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124	Fabrication of Antimicrobial Nanofiber Air Filter Using Activated Carbon and Cinnamon Essential Oil. <b>2020</b> , 20, 4376-4380		15
123	The Potentiality of Rice Husk-Derived Activated Carbon: From Synthesis to Application. <b>2020</b> , 8, 203		39
122	Hydrocracking of pyrolyzed cellulose to hydrocarbon over MxOy/Mesoporous carbon catalyst (M = Co and Mo): Synthesis and characterization of carbon-based catalyst support from saw waste of Merbau wood. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 103735	6.8	9
121	Role of Nitrogen on the Porosity, Surface, and Electrochemical Characteristics of Activated Carbon. <b>2020</b> , 5, 1911-1918		12
120	Ultrafast removal of Cu(II) by a novel hierarchically structured faujasite-type zeolite fabricated from lithium silica fume. <b>2020</b> , 714, 136724		12
119	Adsorption kinetics of synthetic organic contaminants onto superfine powdered activated carbon. <i>Chemosphere</i> , <b>2020</b> , 253, 126628	8.4	13
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114	Meso-porous activated carbon from lignite waste and its application in methylene Blue adsorption and coke plant effluent treatment. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104784	6.8	11
113	In situ sorption phenomena can mitigate potential negative environmental effects of underground coal gasification (UCG) - an experimental study of phenol removal on UCG-derived residues in the aspect of contaminant retardation. <b>2021</b> , 208, 111710		4
112	Fluorescence excitation/emission matrices as a tool to monitor the removal of organic micropollutants from wastewater effluents by adsorption onto activated carbon. <b>2021</b> , 190, 116749		10
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110	Efficiently activated carbons from corn cob for methylene blue adsorption. <b>2021</b> , 3, 100037		26

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108	Phenol adsorption kinetics and isotherms on coal: effect of particle size. <b>2021</b> , 43, 461-474		3
107	Conducting and superhydrophobic hybrid 2D material from coronene and pyrene. <b>2021</b> , 9, 10324-10333		0
106	Reversible and irreversible membrane fouling in hollow-fiber UF membranes filtering surface water: effects of ozone/powdered activated carbon treatment.. <b>2021</b> , 11, 10323-10335		4
105	The removal of 3-monochloropropane-1,2-diol ester and glycidyl ester from refined-bleached and deodorized palm oil using activated carbon.. <b>2021</b> , 11, 16500-16509		3
104	Benzoic acid removal from aqueous solutions by activated charcoal. <b>2021</b> , 10, 5-10		
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102	Biochar derived from <i>Salvadora persica</i> branches biomass as low-cost adsorbent for removal of uranium(VI) and thorium(IV) from water. <b>2021</b> , 328, 669-678		5
101	N-doping copolymer derived hierarchical micro/mesoporous carbon:Pore regulation of melamine and fabulous adsorption performances. <b>2021</b> , 120, 236-245		3
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99	Evaluation of Porous Carbon Adsorbents Made from Rice Husks for Virus Removal in Water. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 1280	3	1
98	Biochar from Pine Wood, Rice Husks and Iron-Eupatorium Shrubs for Remediation Applications: Surface Characterization and Experimental Tests for Trichloroethylene Removal. <b>2021</b> , 14,		7
97	Reversible photoregulation of morphological structure for porous coumarin-graphene composite and the removal of heavy metal ions. <b>2021</b> , 546, 149065		1
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94	Mechanical, durability, depolluting and electrical properties of multifunctional mortars prepared with commercial or waste carbon-based fillers. <b>2021</b> , 283, 122768		3
93	Emerging pharmaceutical and organic contaminants removal using carbonaceous waste from oil refineries. <i>Chemosphere</i> , <b>2021</b> , 271, 129542	8.4	2
92	First investigations on removal of nitrazepam from water using biochar derived from macroalgae low-cost adsorbent: kinetics, isotherms and thermodynamics studies.		4

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90	Al and Zr Porous Clay Heterostructures as Removal Agents of Basic Blue-41 Dye from an Artificially Polluted Solution: Regeneration Properties and Batch Design. <b>2021</b> , 14,		1
89	Adsorptive removal of hexavalent chromium and methylene blue from simulated solution by activated carbon synthesized from natural rubber industry biosludge. <b>2021</b> , 22, 101427		10
88	Effect of biochar on potassium fractions and plant-available P, Fe, Zn, Mn and Cu concentrations of calcareous soils. 1-26		5
87	Carbon electrode with cross-linked and charged chitosan binder for enhanced capacitive deionization performance. <b>2021</b> , 505, 114979		9
86	Opposite impacts of chemical oxidation for ofloxacin adsorption on activated carbon and carbon nanotubes. <b>2021</b> , 771, 145455		3
85	Regeneration of per- and polyfluoroalkyl substance-laden granular activated carbon using a solvent based technology. <b>2021</b> , 289, 112439		4
84	Mechanisms of aromatic molecule - Oxygen-containing functional group interactions on carbonaceous material surfaces. <i>Chemosphere</i> , <b>2021</b> , 275, 130021	8.4	2
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82	Tailoring Nanoporous-Engineered Sponge Fiber Molecular Sieves with Ternary-Nested Architecture for Precise Molecular Separation. <b>2021</b> ,		4
81	Mesoporous magnesia sorbent for removal of organic contaminant methyl tert -butyl ether (MTBE) from water. 1-11		2
80	The electro-Fenton regeneration of Granular Activated Carbons: Degradation of organic contaminants and the relationship to the carbon surface. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 416, 125792	13.8	13
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78	Production and use of biochar from lignin and lignin-rich residues (such as digestate and olive stones) for wastewater treatment. <b>2021</b> , 158, 105263		6
77	Low temperature pickling regeneration process for remarkable enhancement in Cu(II) adsorptivity over spent activated carbon fiber. <i>Chemosphere</i> , <b>2021</b> , 281, 130868	8.4	1
76	Sustainable utilization of wetland biomass for activated carbon production: A review on recent advances in modification and activation methods. <b>2021</b> , 790, 148214		9
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73	Instructive analysis of engineered carbon materials for potential application in water and wastewater treatment. <b>2021</b> , 793, 148583		9
72	Adsorption of polar and ionic organic compounds on activated carbon: Surface chemistry matters. <b>2021</b> , 794, 148508		4
71	Per- and poly-fluoroalkyl substance remediation from soil and sorbents: A review of adsorption behaviour and ultrasonic treatment. <i>Chemosphere</i> , <b>2021</b> , 282, 131025	8.4	5
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60	Multivariate analysis for FTIR in understanding treatment of used cooking oil using activated carbon prepared from olive stone. <b>2020</b> , 15, e0232997		10
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55	Electro-assisted removal of polar and ionic organic compounds from water using activated carbon felts. <i>Chemical Engineering Journal</i> , <b>2021</b> , 433, 133544	14.7	3
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50	Graphene-Based Bacterial Filtration via Electrostatic Adsorption. <i>Advanced Materials Interfaces</i> , 21019174.6	4.6	0
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45	Adsorption-based atmospheric water harvesting powered by solar energy: Comprehensive review on desiccant materials and systems. <i>Chemical Engineering Research and Design</i> , <b>2022</b> ,	5.5	12
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43	Models for predicting organic micropollutant breakthrough in carbon adsorbents based on water quality, adsorbate properties, and rapid small-scale column tests. <i>AWWA Water Science</i> , <b>2022</b> , 4,	1.6	
42	Engineering Pollen-Derived Microstructures to Reveal Material Morpho-Performance Paradigm.. <i>Small</i> , <b>2022</b> , e2200037	11	0
41	Determination of trace antibiotics in water and milk via preconcentration and cleanup using activated carbons.. <i>Food Chemistry</i> , <b>2022</b> , 385, 132695	8.5	0
40	Risk assessment and remediation of NAPL contaminated soil and groundwater. <i>ChemTexts</i> , <b>2022</b> , 8, 1	2.2	0
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1 Production of activated carbon from the waste paper by chemical activation method.

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