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An overview of the modification methods of activated carbon for its water treatment applications

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349	Value-added utilization of paper sludge: Preparing activated carbon for efficient adsorption of Cr(VI) and further hydrogenation of furfural. <b>2020</b> , 741, 140265	15
348	Dynamics modeling of multicomponent metal ions' removal onto low-cost buckwheat hulls. <b>2021</b> , 28, 46504-46513	1
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340	Comparative Study of Toluene and Hexane Adsorption on Activated Carbons From Gas and Liquid Phase. Enthalpy and Isotherms. <b>2020</b> , 1,		1
339	Fast and environmental-friendly approach towards uniform hydrogel particles with ultrahigh and selective removal of anionic dyes. <b>2020</b> , 8, 104352		6
338	Carbon-Based Nanomaterials as Promising Material for Wastewater Treatment Processes. <b>2020</b> , 17,		8
337	Activated Carbon Modified by Nanosecond Pulsed Discharge for Polycyclic Aromatic Hydrocarbons Detection. <b>2020</b> , 40, 1539-1553		4
336	Modifications of coconut waste as an adsorbent for the removal of heavy metals and dyes from wastewater. <b>2020</b> , 10, 329		3
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334	Wood-based activated biochar to eliminate organic micropollutants from biologically treated wastewater. <b>2020</b> , 730, 138417		23
333	Synergistic Long-Term Temperate Climate Nitrogen Removal Performance in Open Raceway Pond and Horizontal Subsurface Flow Constructed Wetland Operated Under Different Regimes. <b>2020</b> , 231, 1		1
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330	Adsorption of formaldehyde from aqueous solution using activated carbon prepared from Hibiscus rosa-sinensis. <b>2020</b> , 1-23		4
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327	Performances of metals modified activated carbons for fluoride removal from aqueous solutions. <b>2020</b> , 754, 137705		10
326	A multi-stage activated carbon impregnation system: Isotherms, kinetics and multi-objective modeling optimization. <b>2020</b> , 227, 115895		0

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323	Cellulosic sponges with pH responsive wettability for efficient oil-water separation. <b>2020</b> , 237, 116133	41
322	Dual responsive copolymers-grafted microfibrillated cellulose composites for removing lead ions from aqueous solution. <b>2020</b> , 258, 120867	9
321	Acid-factionalized biomass material for methylene blue dye removal: a comprehensive adsorption and mechanism study. <b>2020</b> , 14, 305-313	86
320	Synthesis and structural properties of carbon/alumina composites: Practical application in solid phase extraction of explosives. <b>2020</b> , 300, 110159	3
319	Kaolin/CaAlg Hydrogel Thin Membrane with Controlled Thickness, High Mechanical Strength, and Good Repetitive Adsorption Performance for Dyes. <b>2020</b> , 59, 4958-4967	11
318	Synthesis and Characterization of Nitrogen-doped Carbon Nanotubes Derived from g-CN. <b>2020</b> , 13,	20
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312	Synthesis of cellulose carbon aerogel via combined technology of wet ball-milling and TEMPO-mediated oxidation and its supersorption performance to ionic dyes. <b>2020</b> , 315, 123815	7
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310	Preparation and characterizations of activated carbon from banana fruit bunch with chemical treatments using hydrothermal processes. <b>2020</b> ,	0
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308	Oxidative Removal of Dichloromethane by Electro-Activated Persulfate in a Dual-Chamber Reactor. <b>2020</b> , 37, 596-605	2



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301	Agrowaste derived biochars impregnated with ZnO for removal of arsenic and lead in water. <b>2020</b> , 8, 103800	27
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293	Adsorptive removal of micropollutants from wastewater with floating-fixed-bed gasification char. <b>2020</b> , 8, 103757	1
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288	Coal-based ultrathin-wall graphitic porous carbon for high-performance form-stable phase change materials with enhanced thermal conductivity. <i>Chemical Engineering Journal</i> , <b>2020</b> , 395, 125112	14.7	31
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286	Microwave-assisted ammonia modification of activated carbon for effective removal of phenol from wastewater: DFT and experiment study. <b>2020</b> , 518, 146258		13
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274	A comparison on the efficiency of raw activated carbon, oxidized, and sulfurized adsorbents for furfural adsorption. <b>2021</b> , 60, 1241-1248		5
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272	Fe-Mn co-embed carbon spheres for aqueous divalent Cd removal. <b>2021</b> , 612, 126013		2

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270	A comprehensive study of phosphorus removal and recovery with a Fe-loaded sulfoaluminate cement (FSC) adsorbent. <b>2021</b> , 39, 101744	2
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265	Role of Nanomaterials: Enhancing the Adsorption Efficiency of Activated Carbon in Wastewater Treatment. <b>2021</b> , 215-232	
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263	Activated carbon: Synthesis, properties, and applications. <b>2021</b> , 783-827	0
262	Degradation of textile dyes from aqueous solution using tea-polyphenol/Fe loaded waste silk fabrics as Fenton-like catalysts.. <b>2021</b> , 11, 8290-8305	5
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255	Fast one-step preparation of porous carbon with hierarchical oxygen-enriched structure from waste lignin for chloramphenicol removal. <b>2021</b> , 28, 27398-27410	6
254	The Role of Surface Chemistry and Polyethylenimine Grafting in the Removal of Cr (VI) by Activated Carbons from Cashew Nut Shells. <b>2021</b> , 7, 27	2

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252	Oilfield-produced water characteristics and treatment technologies: a mini review. <b>2021</b> , 1058, 012063		1
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249	Activated carbon obtained from cardboard tube waste of immersion thermocouple and adsorption of methylene blue. 1		4
248	Hydrolysis-dehydration of cellulose to glucose and 5-hydroxymethylfurfural over Sibunit solid acid carbon catalysts under semi-flow conditions. <b>2021</b> , 55, 607-624		3
247	Preparation and properties of novel activated carbon doped with aluminum oxide and silver for water treatment. <b>2021</b> , 858, 158372		1
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242	Electrospinning of cellulose using ionic liquids: An overview on processing and applications. <b>2021</b> , 147, 110283		10
241	Jute fiber based micro-mesoporous carbon: A biomass derived anode material with high-performance for lithium-ion batteries. <b>2021</b> , 265, 115015		10
240	Adsorption Isotherms, Thermodynamics, and Kinetic Modeling of Methylene Blue onto Novel Carbonaceous Adsorbent Derived from Bitter Orange Peels. <b>2021</b> , 232, 1		5
239	Effects of Oxygen Partial Pressure on Wood-Based Activated Carbon Treated with Vacuum Ultraviolet Light. <b>2021</b> , 11, 411		
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236	Hydrophilicity enhancement of low-temperature lignocellulosic biochar modified by physical-chemical techniques. <b>2021</b> , 23, 1838-1854		1

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228	Carbon Nanomaterials for Wastewater Treatment. <b>2021</b> , 8, 463	3
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221	Toxicity and remediation of pharmaceuticals and pesticides using metal oxides and carbon nanomaterials. <b>2021</b> , 275, 130055	31
220	Synthesis of activated carbon from hydrothermally carbonized tamarind seeds for lipase immobilization: characterization and application in aroma ester synthesis. <b>2021</b> , 96, 3316	0
219	P-enriched hydrochar for soil remediation: Synthesis, characterization, and lead stabilization. <b>2021</b> , 783, 146983	3
218	Rice husk-based adsorbents for removing ammonia: Kinetics, thermodynamics and adsorption mechanism. <b>2021</b> , 9, 105793	9

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213	Recent advances in lignin-based porous materials for pollutants removal from wastewater. <b>2021</b> , 187, 880-891	7
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205	Instructive analysis of engineered carbon materials for potential application in water and wastewater treatment. <b>2021</b> , 793, 148583	9
204	Effective removal of water-soluble methylated arsenic contaminants with phosphorene oxide nanoflakes: A DFT study. <b>2021</b> , 341, 117423	0
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200	Advanced reduction of bromate by UV/TiO <sub>2</sub> -Bi process without external sacrificial agents: Mechanism and applications. <i>Chemical Engineering Journal</i> , <b>2022</b> , 429, 132104	14.7 1

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196	Adsorption of methyl orange: A review on adsorbent performance. <b>2021</b> , 4, 100179		21
195	Recycling of Waste Rubbers into Value-Added Products. <b>2021</b> , 69-94		
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192	Bio-inspired Catechol-based Hypercrosslinked Polymer for Iron (Fe) Removal from Water. <b>2020</b> , 28, 2211-2218		3
191	Palladium nanoparticle loaded Cyclodextrin monolith as a flow reactor for concentration enrichment and conversion of pollutants based on molecular recognition. <b>2020</b> , 56, 14408-14411		4
190	Editors' Choice Review Activated Carbon Electrode Design: Engineering Tradeoff with Respect to Capacitive Deionization Performance. <b>2020</b> , 167, 143501		25
189	Surface Modification and Characterization of Coconut Shell-Based Activated Carbon Subjected to Acidic and Alkaline Treatments. <b>2017</b> , 4, 186-194		16
188	Produção e desempenho de carvão ativado fisicamente a partir de Bambusa vulgaris. <b>2019</b> , 39,		1
187	Batch and Column Studies of Phenol Adsorption by an Activated Carbon Based on Acid Treatment of Corn Cobs. <b>2015</b> , 7, 459-464		18
186	Deodorizing effects of sepiolite on odorous volatile organic compounds of natural rubber latex films.		0
185	Adsorption isotherm, kinetics, and thermodynamic studies of O,O-diethyl-O-(3,5,6-trichloropyridin-2-yl) phosphorothioate (chlorpyrifos) on cinnamon verumBased activated carbon.		2
184	Adsorption studies of carbon dioxide and anionic dye on green adsorbent. <b>2022</b> , 1250, 131736		9
183	Zinc adsorption from aqueous solution using lemon, orange, watermelon, melon, pineapple, and banana rinds.		2
182	Adsorption desalination: Advances in porous adsorbents. <b>2021</b> ,		1

181	OBTENÇÃO DE CARVÃO ATIVADO A PARTIR DO BAGAÇO DA CASCA DE ACÚCIA-NEGRA E SUA APLICAÇÃO COMO ADSORVENTE.		
180	Prospective Sustainability of Utilization of Effective Techniques for Remediation of Heavy Metals From Textile Effluents. <b>2018</b> , 19-49		
179	Filtration of Beer - A Review. <b>2018</b> , 64, 173-184		2
178	Wastewater Treatment. <b>2020</b> , 165-182		
177	The Use of High Surface Area Mesoporous-Activated Carbon from Longan Seed Biomass for Increasing Capacity and Kinetics of Methylene Blue Adsorption from Aqueous Solution. <b>2021</b> , 26,		4
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172	Nanotechnology for Water and Wastewater Treatment Using Graphene Semiconductor Composite Materials. <b>2020</b> , 1-34		1
171	Nitrik asit ile modifiye edilmiş biyoköle temelli aktif karbonun süperkapasitif performansını incelenmesi. <b>2020</b> , 35, 1243-1256		1
170	Rapid Carbothermal Shock Enhances the Double-Layer Response of Graphene Oxide/Carbon Nanotube Electrodes. <b>2021</b> , 35, 17919-17929		1
169	Development of CO <sub>2</sub> /H <sub>2</sub> O activated biochar derived from pine pyrolysis: application in methylene blue adsorption.		2
168	The effect of powder activated carbon on mechanical properties and pore structures of cement-based mortars. <b>2022</b> , 316, 125798		2
167	Preparation of antimicrobial activated carbon fiber by loading with silver nanoparticles. <b>2022</b> , 633, 127868		1
166	Water treatment and environmental remediation applications of carbon-based nanomaterials. <b>2022</b> , 229-311		
165	Surface Modified Activated Carbons: Sustainable Bio-Based Materials for Environmental Remediation. <b>2021</b> , 11,		4
164	The Influence of Groundwater Desalination by Modified Active Carbon/Bentonite on Its Application in Agriculture. <b>2021</b> , 13, 13173		0



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161	Recent developments in the removal of metal-based engineered nanoparticles from the aquatic environments by adsorption. <b>2021</b> , 291, 133089	1
160	Removal of organic pollutants in coking wastewater based on coal-based adsorbents: A pilot-scale study of static adsorption and flotation. <b>2021</b> , 9, 106844	2
159	Interfacial Engineering Strategy for High-Performance Zn Metal Anodes. <b>2021</b> , 14, 6	38
158	Adsorptive treatment of phenol from aqueous solution using chitosan/calcined eggshell adsorbent: Optimization of preparation process using Taguchi statistical analysis. <b>2022</b> , 99, 100251	4
157	Facile route for synthesis of Fe/FeC/FeO carbon composite using hydrothermal carbonization of sugarcane bagasse and its use as effective adsorbent for sulfamethoxazole removal. <b>2021</b> , 289, 133214	1
156	Walnut shell based adsorbents: A review study on preparation, mechanism, and application. <b>2022</b> , 45, 102527	5
155	Simple and low-cost production of magnetite/graphene nanocomposites for heavy metal ions adsorption.. <b>2021</b> , 813, 152604	3
154	High flux Fe/activated carbon membranes for efficient degradation of organic pollutants in water by activating sodium persulfate. <b>2022</b> , 285, 120411	0
153	Remediation of noxious wastewater using nanohybrid adsorbent for preventing water pollution.. <b>2021</b> , 292, 133380	1
152	Effect of magnetization on the adsorptive removal of an emerging contaminant ciprofloxacin by magnetic acid activated carbon.. <b>2021</b> , 206, 112604	6
151	Cu-coupled Fe/FeC covered with thin carbon as stable win-win catalysts to boost electro-Fenton reaction for brewing leachate treatment.. <b>2022</b> , 293, 133532	2
150	Emerging contaminants of high concern for the environment: Current trends and future research.. <b>2021</b> , 207, 112609	23
149	Environmental Application of Acid Activated Kaolinite-Glaucanite Clay Assisted by Microwave Irradiation. 1	0
148	Functional activated carbon: from synthesis to groundwater fluoride removal.. <b>2022</b> , 12, 2332-2348	0
147	An Overview of Graphene-Based 2D/3D Nanostructures for Photocatalytic Applications. 1	0
146	Greywater characteristics, impacts, treatment, and reclamation using adsorption processes towards the circular economy.. <b>2022</b> , 29, 10966	4

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140	Real-time monitoring of organic contaminant adsorption in activated carbon filters using spectral induced polarization.. <b>2022</b> , 212, 118103	1
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137	Characterization of molecular dissolved organic matter removed by modified eucalyptus-based biochar and disinfection by-product formation potential using Orbitrap mass spectrometric analysis.. <b>2022</b> , 153299	3
136	Biomass-derived carbonaceous materials and their applications. <b>2022</b> , 431-467	
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