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Adsorption of methylene blue onto bamboo-based activated carbon: kinetics and equilibrium studies

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1041	Adsorption studies of basic dye on activated carbon derived from agricultural waste: Hevea brasiliensis seed coat. <b>2008</b> , 139, 48-55		226
1040	Adsorption isotherm, kinetic modeling and mechanism of 2,4,6-trichlorophenol on coconut husk-based activated carbon. <b>2008</b> , 144, 235-244		451
1039	Use of methacrylic acid grafted poly(ethylene terephthalate) fibers for the removal of basic dyes from aqueous solutions. <b>2008</b> , 110, 30-38		20
1038	The adsorption kinetics and removal of cationic dye, Toluidine Blue O, from aqueous solution with Turkish zeolite. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 151, 213-20	12.8	165
1037	Removal of a dye from simulated wastewater by adsorption using treated parthenium biomass. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 153, 213-20	12.8	50
1036	Dye adsorption behavior of Luffa cylindrica fibers. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 153, 389-94	12.8	197
1035	Preparation of activated carbon from coconut husk: optimization study on removal of 2,4,6-trichlorophenol using response surface methodology. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 153, 709-17	12.8	238
1034	Equilibrium and kinetic studies of methyl violet sorption by agricultural waste. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 154, 204-12	12.8	265
1033	Batch removal of malachite green from aqueous solutions by adsorption on oil palm trunk fibre: equilibrium isotherms and kinetic studies. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 154, 237-44	12.8	248
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719	Mechanism of Adsorptive Removal of Methylene Blue Using Dried Biomass of Rhizopus oryzae. <b>2015</b> , 177, 541-55	7

7 <sup>18</sup>	Characterization and optimization of effluent dye removal using a new low cost adsorbent: Equilibrium, kinetics and thermodynamic study. <b>2015</b> , 98, 16-32	54
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7 <sup>16</sup>	Preparation of a specific bamboo based activated carbon and its application for ciprofloxacin removal. <b>2015</b> , 533, 32-9	82
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7 <sup>14</sup>	Magnetic graphene sponge for the removal of methylene blue. <b>2015</b> , 351, 765-771	73
7 <sup>13</sup>	Simultaneous Removal of Cationic and Anionic Dyes from Environmental Water Using Montmorillonite-Pillared Graphene Oxide. <b>2015</b> , 60, 1270-1278	95
7 <sup>12</sup>	Onion membrane: an efficient adsorbent for decoloring of wastewater. <b>2015</b> , 13, 16	9
7 <sup>11</sup>	Layer-by-layer assembled protein nanotubes with high DNA affinity. <b>2015</b> , 5, 37130-37137	6
7 <sup>10</sup>	Nanoporous Activated Carbons Derived from Agro-Waste Corncob for Enhanced Electrochemical and Sensing Performance. <b>2015</b> , 88, 1108-1115	53
7 <sup>09</sup>	Adsorption of methylene blue on strongly basic anion exchange resin (Zerolit DMF): kinetic, isotherm, and thermodynamic studies. <b>2015</b> , 53, 515-523	19
7 <sup>08</sup>	Agricultural bio-waste materials as potential sustainable precursors used for activated carbon production: A review. <b>2015</b> , 46, 218-235	631
7 <sup>07</sup>	Adsorption behavior of methylene blue on amine-functionalized ordered mesoporous alumina. <b>2015</b> , 22, 147-155	23
7 <sup>06</sup>	Evaluation of AC/ZnO composite for sorption of dichloromethane, trichloromethane and carbon tetrachloride: kinetics and isotherms. <b>2015</b> , 55, 159-169	41
7 <sup>05</sup>	Effective removal of cationic dyes from aqueous solution using gum ghatti-based biodegradable hydrogel. <b>2015</b> , 79, 8-20	77
7 <sup>04</sup>	Adsorption of cationic dye from aqueous solution onto activated carbon prepared from olive stones. <b>2015</b> , 4, 36-51	81
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7 <sup>02</sup>	Application of raw peach shell particles for removal of methylene blue. <b>2015</b> , 3, 716-724	57
7 <sup>01</sup>	Synthesis and characterizations of nanoporous carbon derived from Lapsi ( <i>Choerospondias axillaris</i> ) seed: Effect of carbonization conditions. <b>2015</b> , 26, 894-900	18

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338	Silver nanoparticles embedded pectin-based hydrogel: a novel adsorbent material for separation of cationic dyes. <b>2019</b> , 76, 4215-4236	13
337	Development of novel surfactant functionalized porous graphitic carbon as an efficient adsorbent for the removal of methylene blue dye from aqueous solutions. <b>2019</b> , 28, 69-81	29
336	Synthetic Hydrogels and Their Impact on Health and Environment. <b>2019</b> , 1363-1391	0
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334	Preparation of highly functionalized carbon nanoparticles using a one-step acid dehydration of glycerol. <b>2019</b> , 142, 547-557	17
333	Novel Fe <sub>3</sub> O <sub>4</sub> @lignosulfonate/phenolic core-shell microspheres for highly efficient removal of cationic dyes from aqueous solution. <b>2019</b> , 127, 110-118	40
332	Adsorption Behavior of Chromium(VI) onto Regenerated Cellulose Membrane. <b>2019</b> , 58, 720-728	22
331	Synthesis and characterizations of rutile-TiO <sub>2</sub> nanoparticles derived from chitin for potential photocatalytic applications. <b>2019</b> , 161, 49-54	35
330	Adsorption of chlorinated organic compounds from water with cerium oxide-activated carbon composite. <b>2019</b> , 12, 2585-2596	14
329	Comparative adsorption of methylene blue by magnetic baker's yeast and EDTAD-modified magnetic baker's yeast: Equilibrium and kinetic study. <b>2019</b> , 12, 2448-2456	37
328	Functionalization of powdered walnut shell with orthophosphoric acid for Congo red dye removal. <b>2019</b> , 37, 74-85	42
327	Stabilized landfill leachate treatment using Guadua amplexifolia bamboo as a source of activated carbon: kinetics study. <b>2019</b> , 40, 768-783	5
326	Comparative study of calcium alginate, ball-milled biochar, and their composites on aqueous methylene blue adsorption. <b>2019</b> , 26, 11535-11541	44
325	Environmentally friendly route for graphene oxide production via electrochemical synthesis focused on the adsorptive removal of dyes from water. <b>2020</b> , 41, 2771-2782	5
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317	Biosorption as Environmentally Friendly Technique for Heavy Metal Removal from Wastewater. <b>2020</b> , 167-181		8
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315	Modelling and development of a modular oscillating-bed adsorption reactor system for copper ion removal from water in emergency. <b>2020</b> , 233, 115933		2
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313	High-Efficiency Catalysis of Peroxymonosulfate by MgO for the Degradation of Organic Pollutants. <b>2020</b> , 10, 2		10
312	Methods for preparation and activation of activated carbon: a review. <b>2020</b> , 18, 393-415		192
311	Mechanisms for cadmium adsorption by magnetic biochar composites in an aqueous solution. <b>2020</b> , 246, 125701		82
310	CO <sub>2</sub> -hierarchical activated carbon prepared from coal gasification residue: Adsorption equilibrium, isotherm, kinetic and thermodynamic studies for methylene blue removal. <b>2020</b> , 28, 1694-1700		6
309	Synthesis of novel hyper-cross-linked chiral porous polymers and their applications in enantioselective adsorption of amino acids. <b>2020</b> , 294, 109892		12
308	Ultra-high adsorption of tetracycline antibiotics on garlic skin-derived porous biomass carbon with high surface area. <b>2020</b> , 44, 1097-1106		26
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305	Two dimensional (2D) molecular frameworks for rapid and selective adsorption of hazardous aromatic dyes from aqueous phase. <b>2020</b> , 238, 116413		46

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301	Removal of Phosphate from Aqueous Solutions Using Chemically Synthesized Vaterite Polymorph of Porous Calcium Carbonate Nanoparticles under Optimized Conditions. <b>2020</b> , 2020, 1-15	4
300	Synthesis of core-shell activated carbon/CaO composite from Ficus Nitida leaves, as an efficient adsorbent for removal of methylene blue. <b>2020</b> , 5, 1	6
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292	Cationic dye adsorption by phosphomolybdate nanoclusters immobilised on polyelectrolyte matrix. <b>2020</b> , 132, 1	3
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288	Covalent organic framework and montmorillonite nanocomposite as advanced adsorbent: synthesis, characterization, and application in simultaneous adsorption of cationic and anionic dyes. <b>2020</b> , 18, 1555-1567	4
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285	Facile fabrication of chitosan-based adsorbents for effective removal of cationic and anionic dyes from aqueous solutions. <b>2020</b> , 165, 2805-2812	4
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283	Aqueous phase phenol removal from synthetic and real steel plant effluents through a batch and Semifluidized bed column operation: Experimental and model analysis. <b>2020</b> , 8, 104441	3
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280	Trapping synthetic dye molecules using modified lemon grass adsorbent. <b>2020</b> , 1-15	2
279	Methylene Blue Removal Using Foxtail Palm Fruits as Potential Activated Carbon. <b>2020</b> , 1010, 477-482	1
278	Ionic liquid-decorated Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> nanocomposite coated on talc sheets: An efficient adsorbent for methylene blue in aqueous solution. <b>2020</b> , 121, 108204	12
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274	Novel approach for effective removal of methylene blue dye from water using fava bean peel waste. <b>2020</b> , 10, 7824	68
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269	Facile fabrication of silk fibroin microparticles: their characterization and potential adsorption study. <b>2020</b> , 1-19	3

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264	Preparation of activated carbon from fruit and its application for methylene blue adsorption.. <b>2020</b> , 10, 21082-21091	34
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262	Adsorption of Cobalt Ion from Aqueous Solution Using Biomaterial of Microalgae <i>Oscillatoria</i> sp Isolated from Teluk Jakarta. <b>2020</b> , 17, 7-12	1
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258	Cationic porous aromatic framework with hierarchical structure for selective, rapid and efficient removal of anionic dyes from water. <b>2020</b> , 2, 1	0
257	Experimental investigation of activated carbon prepared from apricot stones material (ASM) adsorbent for removal of malachite green (MG) from aqueous solution. <b>2020</b> , 38, 24-45	22
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253	Synthesis of Chitosan-Silica Nanocomposite for Removal of Methyl Orange from Water: Composite Characterization and Adsorption Performance. <b>2020</b> , 745, 012084	0
252	An advanced structural characterization of templated meso-macroporous carbon monoliths by small- and wide-angle scattering techniques. <b>2020</b> , 11, 310-322	2
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242	Preparation of TiN@TiO <sub>2</sub> composite nanoparticles for organic dye adsorption and photocatalysis. <b>2020</b> , 46, 14529-14535	17
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234	Reactivation Process of Activated Carbons: Effect on the Mechanical and Adsorptive Properties. <b>2020</b> , 25,	11
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231	Preparation, characterization and adsorption kinetics of methylene blue dye in reduced-graphene oxide supported nanoadsorbents. <b>2020</b> , 309, 113171	33
230	Removal of Organic Pollutants from Effluent of Anaerobic Digester Using Hydrochars Produced from Faecal Simulant and Sewage Sludge. <b>2020</b> , 231, 1	5
229	Preparation of pore-size tunable activated carbon derived from waste coffee grounds for high adsorption capacities of organic dyes. <b>2020</b> , 8, 103929	24
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223	Adsorption behaviour of high performance activated carbon from demineralised low rank coal (Rawdon) for methylene blue and phenol. <b>2021</b> , 9, 104819	14
222	Isotherm and kinetic studies of adsorption of methylene blue using activated carbon from ackee apple pods. <b>2021</b> , 31, 100607	16
221	Removal of methylene blue and rose bengal dyes from aqueous solutions using 1-naphthylammonium tetrachloroferrate (III). <b>2021</b> , 322, 114966	11
220	Efficiently activated carbons from corn cob for methylene blue adsorption. <b>2021</b> , 3, 100037	26
219	Efficient drop reactor processing of methylene blue degradation with silver nanowire catalysts. <b>2021</b> , 610, 125749	2
218	Extremely efficient and rapidly adsorb methylene blue using porous adsorbent prepared from waste paper: Kinetics and equilibrium studies. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123579	12.8 42
217	Adsorption mechanism of a cationic dye on a biomass-derived micro- and mesoporous carbon: structural, kinetic, and equilibrium insight. <b>2021</b> , 11, 943-954	15
216	Adsorption of Tartrazine onto Activated Carbon Based Cola Nuts Shells: Equilibrium, Kinetics, and Thermodynamics Studies. <b>2021</b> , 11, 1-19	1
215	Bio-Based Adsorbents in Water/Wastewater Treatment. <b>2021</b> , 830-830	0

214	Decreasing charge recombination by magnetic trap of iron-carbon (Fe-AC) composite for enhanced photocatalytic performance. <b>2021</b> , 53, 446-459	1
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211	Magnetized orange peel: A realistic approach for methylene blue removal. <b>2021</b> , 47, 1287-1294	0
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209	Perspectives on the antibiotic contamination, resistance, metabolomics, and systemic remediation. <b>2021</b> , 3, 1	7
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207	Adsorption and removal of hydroxychloroquine from aqueous media using Algerian kaolin: Full factorial optimisation, kinetic, thermodynamic, and equilibrium studies. 1-22	8
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205	Insisting upon Meaningful Results from Adsorption Experiments. 1-14	7
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202	Optimization of Swiss blue dye removal by cotton boll activated carbon: response surface methodological approach. 1-16	0
201	Modified Oyster Waste Shells as a Value-Added Sorbent for Lead Removal from Water. <b>2021</b> , 1	0
200	Locally available agroresidues as potential sorbents: modelling, column studies and scale-up. <b>2021</b> , 8,	0
199	Adsorption Isotherms, Thermodynamics, and Kinetic Modeling of Methylene Blue onto Novel Carbonaceous Adsorbent Derived from Bitter Orange Peels. <b>2021</b> , 232, 1	5
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191	Effect of short time ball milling on physicochemical and adsorption performance of activated carbon prepared from mangosteen peel waste. <b>2021</b> , 168, 723-733	12
190	Preparation and Characterization of Cellulose Composite Hydrogels From Tea Residue and Single-Walled Carbon Nanotube Oxides and Its Potential Applications. <b>2021</b> , 9, 651566	0
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184	Recent trends in agro-waste based activated carbons for the removal of emerging textile pollutants. 1-17	2
183	Phosphorylated cellulose for water purification: a promising material with outstanding adsorption capacity towards methylene blue. <b>2021</b> , 28, 7893-7908	8
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180	A review exploring the adsorptive removal of organic micropollutants on tailored hierarchical carbon nanotubes. 1-44	1
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176	Adsorptive batch and biological treatments of produced water: Recent progresses, challenges, and potentials. <b>2021</b> , 290, 112527		7
175	Gas-phase elemental mercury removal by bamboo charcoal impregnated with KMnO <sub>4</sub> : mechanism study. <b>2021</b> , 804, 042014		
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173	ADSORPTION OF METHYLENE BLUE ONTO ACTIVATED CARBON DEVELOPED FROM BAOBAB FRUIT SHELL BY CHEMICAL ACTIVATION: KINETIC EQUILIBRIUM STUDIES. <b>2021</b> , 22, 31-49		3
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171	Malachite green adsorption from aqueous solutions onto biochar derived from sheep manure: adsorption kinetics, isotherm, thermodynamic, and mechanism. <b>2021</b> , 1-11		1
170	Rice husk-based adsorbents for removing ammonia: Kinetics, thermodynamics and adsorption mechanism. <b>2021</b> , 9, 105793		9
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168	Trapping Rhodamine B dye using functionalized mango ( <i>Mangifera indica</i> ) pod. <b>2021</b> , 93, 2308-2328		4
167	Effect of cations on the enhanced adsorption of cationic dye in Fe <sub>3</sub> O <sub>4</sub> -loaded biochar and mechanism. <b>2021</b> , 9, 105744		9
166	Photocatalytic and sonocatalytic dye degradation by sulfur vacancy rich ZnS nanopowder. <b>2021</b> , 23, 1		1
165	Comparative study on methylene blue adsorption behavior of coffee husk-derived activated carbon materials prepared using hydrothermal and soaking methods. <b>2021</b> , 9, 105362		15
164	Statistical analysis of adsorption isotherm models and its appropriate selection. <b>2021</b> , 276, 130176		32
163	A review of graphene-TiO and graphene-ZnO nanocomposite photocatalysts for wastewater treatment. <b>2021</b> , 93, 2414-2460		7
162	Recyclable polyurethane foam loaded with carboxymethyl chitosan for adsorption of methylene blue. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 417, 126130	12.8	11
161	Preparation of smart brush-type cation-exchange adsorbents grafted nanosurface via SI-ATRP for dye removal. <b>2021</b> , 624, 126829		3

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