

Adsorption of methylene blue by a high-efficiency adsorbent  
Kinetics, isotherm, thermodynamics and mechanism analysis

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Citation Report

#	ARTICLE	IF	CITATIONS
5	Adsorptive removal of methylene blue by rhamnolipid-functionalized graphene oxide from wastewater. <i>Water Research</i> , 2014, 67, 330-344.	5.3	527
6	Synthesis and characterization of magnetic porous Fe <sub>3</sub> O <sub>4</sub> /poly(methylmethacrylate-co-divinylbenzene) microspheres and their use in removal of Rhodamine B. <i>Journal of Zhejiang University: Science A</i> , 2015, 16, 669-679.	1.3	4
7	Understanding flocculation mechanism of graphene oxide for organic dyes from water: Experimental and molecular dynamics simulation. <i>AIP Advances</i> , 2015, 5, .	0.6	42
8	Protein-imprinted polyurethane-grafted calcium alginate hydrogel microspheres. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	5
9	Equilibrium, kinetics, and thermodynamic evaluation of mercury (II) removal from aqueous solutions by moss ( <i>Homalothecium sericeum</i> ) biomass. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 1620-1628.	1.3	3
10	Synthesis of water-dispersible graphene-modified magnetic polypyrrole nanocomposite and its ability to efficiently adsorb methylene blue from aqueous solution. <i>Chemical Engineering Journal</i> , 2015, 279, 757-766.	6.6	139
11	Graphene oxide-based polymeric membranes for broad water pollutant removal. <i>RSC Advances</i> , 2015, 5, 100651-100662.	1.7	39
12	Adsorption behavior of Rhodamine B on nanoporous polymers. <i>RSC Advances</i> , 2015, 5, 104915-104922.	1.7	51
13	Mesoporous and adsorptive properties of palm date seed activated carbon prepared via sequential hydrothermal carbonization and sodium hydroxide activation. <i>Chemical Engineering Journal</i> , 2015, 270, 187-195.	6.6	165
14	Synthesis and characterization of novel manganese oxide nanocorals and their application for the removal of methylene blue from aqueous solution. <i>Chemical Engineering Journal</i> , 2015, 270, 50-57.	6.6	35
15	Enhanced adsorptive removal of Safranin T from aqueous solutions by waste sea buckthorn branch powder modified with dopamine: Kinetics, equilibrium, and thermodynamics. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 87, 23-31.	1.9	27
16	Facile immobilization of polyaspartate onto silica gels via poly(dopamine) for the removal of methylene blue from aqueous solution. <i>Applied Surface Science</i> , 2015, 351, 831-839.	3.1	19
17	Fabrication of polyaniline hydrogel: Synthesis, characterization and adsorption of methylene blue. <i>Applied Surface Science</i> , 2015, 356, 39-47.	3.1	143
18	Adsorption of silica nanoparticles onto calcite: Equilibrium, kinetic, thermodynamic and DLVO analysis. <i>Chemical Engineering Journal</i> , 2015, 281, 334-344.	6.6	118
19	Random forest model for the ultrasonic-assisted removal of chrysoidine G by copper sulfide nanoparticles loaded on activated carbon; response surface methodology approach. <i>RSC Advances</i> , 2015, 5, 59335-59343.	1.7	72
20	Activated carbon/NiFe <sub>2</sub> O <sub>4</sub> magnetic composite: A magnetic adsorbent for the adsorption of methyl orange. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 1740-1751.	3.3	98
21	Does poly(acrylic acid-co-acrylamide) hydrogel be the pluperfect choiceness in treatment of dyeing wastewater? From simple copolymer to gigantic aqua-waste remover. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 30, 359-371.	2.9	22
22	Hollow poly(cyclotriphosphazene-co-phloroglucinol) microspheres: An effective and selective adsorbent for the removal of cationic dyes from aqueous solution. <i>Chemical Engineering Journal</i> , 2015, 281, 42-52.	6.6	83

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23	Synthesis of a novel ionic liquid modified copolymer hydrogel and its rapid removal of Cr (VI) from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2015, 455, 125-133.	5.0	47
24	Synthesis and Properties of an Ecofriendly Superabsorbent Composite by Grafting the Poly(acrylic) Tj ETQq1 1 0.784314 rgBT /Overlock <i>Chemistry Research</i> , 2015, 54, 3268-3278.	1.8	64
25	Synthesis of amino-functionalized mesoporous materials with environmentally friendly surfactants by evaporation-induced self-assembly and their application to the adsorption of lead(II) ions. <i>Journal of Materials Science</i> , 2015, 50, 2768-2778.	1.7	10
26	A comparative study for the removal of methylene blue dye by N and S modified TiO <sub>2</sub> adsorbents. <i>Journal of Molecular Liquids</i> , 2015, 207, 90-98.	2.3	27
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28	Preparation of amine functionalized carbon nanotubes via a bioinspired strategy and their application in Cu <sup>2+</sup> removal. <i>Applied Surface Science</i> , 2015, 343, 19-27.	3.1	313
30	Polydopamine microparticles as redox mediators for catalytic reduction of methylene blue and rhodamine B. <i>Catalysis Communications</i> , 2015, 72, 86-90.	1.6	67
31	Carbon nanotube based polymer nanocomposites: biomimic preparation and organic dye adsorption applications. <i>RSC Advances</i> , 2015, 5, 82503-82512.	1.7	58
32	Ternary dye adsorption onto MnO <sub>2</sub> nanoparticle-loaded activated carbon: derivative spectrophotometry and modeling. <i>RSC Advances</i> , 2015, 5, 72300-72320.	1.7	129
33	Poly(4-styrenesulfonic acid-co-maleic acid)-sodium-modified magnetic reduced graphene oxide for enhanced adsorption performance toward cationic dyes. <i>RSC Advances</i> , 2015, 5, 87030-87042.	1.7	28
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35	Polydopamine Coatings in Confined Nanopore Space: Toward Improved Retention and Release of Hydrophilic Cargo. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24512-24521.	1.5	111
36	Highly regenerable alkali-resistant magnetic nanoparticles inspired by mussels for rapid selective dye removal offer high-efficiency environmental remediation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19960-19968.	5.2	149
37	Bouquet-like calcium sulfate dihydrate: a highly efficient adsorbent for Congo red dye. <i>RSC Advances</i> , 2015, 5, 72321-72330.	1.7	50
38	Fast and highly-efficient removal of methylene blue from aqueous solution by poly(styrenesulfonic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 <i>Science</i> , 2015, 324, 854-863.	3.1	24
39	Microwave-assisted facile one-pot method for preparation of BiO <sub>2</sub> /ZnO nanocomposites as novel dye adsorbents by synergistic collaboration. <i>Journal of the Iranian Chemical Society</i> , 2015, 12, 909-919.	1.2	18
40	Study of Methylene Blue Degradation by Gold Nanoparticles Synthesized within Natural Zeolites. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-10.	1.5	26
41	Polydopamine Particle as a Particulate Emulsifier. <i>Polymers</i> , 2016, 8, 62.	2.0	48

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43	Adsorption of Methylene Blue by an Efficient Activated Carbon Prepared from <i>Citrullus lanatus</i> Rind: Kinetic, Isotherm, Thermodynamic, and Mechanism Analysis. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	98
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45	Highly selective separation of dyes using compressed CO <sub>2</sub> and spherical polyelectrolyte brushes. <i>RSC Advances</i> , 2016, 6, 42693-42700.	1.7	5
46	Adsorption of methylene blue from aqueous solution onto activated carbons developed from eucalyptus bark and <i>Crataegus oxyacantha</i> core. <i>Water Science and Technology</i> , 2016, 74, 2021-2035.	1.2	54
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56	Adsorption of As(III) and As(V) onto colloidal microparticles of commercial cross-linked polyallylamine (Sevelamer) from single and binary ion solutions. <i>Journal of Colloid and Interface Science</i> , 2016, 474, 137-145.	5.0	20
57	One-step preparation of CdS-modified mesoporous titanate nanobelts and their application as high-performance cationic dye adsorbents. <i>RSC Advances</i> , 2016, 6, 49625-49632.	1.7	4
58	Preparation of silica nanoparticle based polymer composites via mussel inspired chemistry and their enhanced adsorption capability towards methylene blue. <i>RSC Advances</i> , 2016, 6, 85213-85221.	1.7	10
59	Synthesis and characterization of PAMAM/CNT nanocomposite as a super-capacity adsorbent for heavy metal (Ni <sup>2+</sup> , Zn <sup>2+</sup> , As <sup>3+</sup> , Co <sup>2+</sup> ) removal from wastewater. <i>Journal of Molecular Liquids</i> , 2016, 224, 1032-1040.	2.3	103

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62	Synthesis of magnetic graphene oxide doped with strontium titanium trioxide nanoparticles as a nanocomposite for the removal of antibiotics from aqueous media. <i>RSC Advances</i> , 2016, 6, 89953-89965.	1.7	67
63	Anionic and cationic dyes adsorption on porous poly-melamine-formaldehyde polymer. <i>Chemical Engineering Research and Design</i> , 2016, 114, 258-267.	2.7	72
64	Shirasu Balloons and Polydopamine-Modified Shirasu Balloons for Adsorption of Methylene Blue. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	3
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67	1-butyl-3-methylimidazolium tetrafluoroborate functionalized ZnO nanoparticles for removal of toxic organic dyes. <i>Journal of Molecular Liquids</i> , 2016, 220, 1013-1021.	2.3	32
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75	Equilibrium and kinetic studies on MB adsorption by ultrathin 2D MoS <sub>2</sub> nanosheets. <i>RSC Advances</i> , 2016, 6, 11631-11636.	1.7	140
76	A novel fabrication of monodisperse melamine-formaldehyde resin microspheres to adsorb lead (II). <i>Chemical Engineering Journal</i> , 2016, 288, 745-757.	6.6	69
77	Ultrasound-assisted adsorption of Sunset Yellow CFC dye onto Cu doped ZnS nanoparticles loaded on activated carbon using response surface methodology based on central composite design. <i>Journal of Molecular Liquids</i> , 2016, 219, 332-340.	2.3	55
78	Adsorption of aqueous rare earth elements using carbon black derived from recycled tires. <i>Chemical Engineering Journal</i> , 2016, 296, 102-111.	6.6	139

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80	Biobased Microspheres Consisting of Poly( <i>trans</i> -anethole-co-maleic anhydride) Prepared by Precipitation Polymerization and Adsorption Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1446-1453.	3.2	21
81	Adsorption of Hazardous Azorhodanine Dye from an Aqueous Solution Using Rice Straw Fly Ash. <i>Journal of Dispersion Science and Technology</i> , 2016, 37, 715-722.	1.3	14
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93	Response surface methodology approach for optimization of adsorption of Janus Green B from aqueous solution onto ZnO/Zn(OH) <sub>2</sub> -NP-AC: Kinetic and isotherm study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 152, 233-240.	2.0	114
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98	Thermodynamic Study of Methylene Blue Adsorption on Carbon Nanotubes Using Isothermal Titration Calorimetry: A Simple and Rigorous Approach. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 729-737.	1.0	35
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101	Designing multifunctional 3D magnetic foam for effective insoluble oil separation and rapid selective dye removal for use in wastewater remediation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7316-7325.	5.2	135
102	Reutilization of waste scrap tyre as the immobilization matrix for the enhanced bioremoval of a monoaromatic hydrocarbons, methyl tert -butyl ether, and chlorinated ethenes mixture from water. <i>Science of the Total Environment</i> , 2017, 583, 88-96.	3.9	17
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104	Mg(OH) <sub>2</sub> /Graphene Nanocomposites Prepared by Cathodic Electrodeposition for the Adsorption of Congo Red. <i>Nano</i> , 2017, 12, 1750017.	0.5	4
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113	Specific rebinding of protein imprinted polyethylene glycol grafted calcium alginate hydrogel with different crosslinking degree. <i>Journal of Polymer Research</i> , 2017, 24, 1.	1.2	11
114	Equilibrium, kinetic, and thermodynamic studies of the adsorption of Fe(III) metal ions and 2,4-dichlorophenoxyacetic acid onto biomass-based activated carbon by ZnCl <sub>2</sub> activation. <i>Surfaces and Interfaces</i> , 2017, 8, 182-192.	1.5	59

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117	Facile synthesis of magnetic magnesium silicate hollow nanotubes with high capacity for removal of methylene blue. <i>Journal of Alloys and Compounds</i> , 2017, 721, 772-778.	2.8	24
118	Kinetic and isotherm studies on adsorption of toxic pollutants using porous ZnO@SiO <sub>2</sub> monolith. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 669-679.	5.0	46
119	Flower stamen-like porous boron carbon nitride nanoscrolls for water cleaning. <i>Nanoscale</i> , 2017, 9, 9787-9791.	2.8	89
120	Highly Efficient Lead(II) Sequestration Using Size-Controllable Polydopamine Microspheres with Superior Application Capability and Rapid Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4161-4170.	3.2	137
121	Adsorption of Cr(VI) from aqueous solution by prepared high surface area activated carbon from Fox nutshell by chemical activation with H <sub>3</sub> PO <sub>4</sub> . <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2032-2041.	3.3	103
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123	Preparation of polymeric silica composites through polydopamine-mediated surface initiated ATRP for highly efficient removal of environmental pollutants. <i>Materials Chemistry and Physics</i> , 2017, 193, 501-511.	2.0	27
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128	Electrospinning Polyvinyl alcohol/silica-based nanofiber as highly efficient adsorbent for simultaneous and sequential removal of Bisphenol A and Cu(II) from water. <i>Chemical Engineering Journal</i> , 2017, 314, 714-726.	6.6	48
129	Polydopamine-coated open cell polyurethane foam as an efficient and easy-to-regenerate soft structured catalytic support (S <sub>2</sub> CS) for the reduction of dye. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 79-85.	3.3	27
130	The combination of mussel-inspired chemistry and surface-initiated redox polymerization for surface modification of silica microspheres and their environmental adsorption applications. <i>Journal of Molecular Liquids</i> , 2017, 248, 871-879.	2.3	8
131	Construction of poly(dopamine) doped oligopeptide hydrogel. <i>RSC Advances</i> , 2017, 7, 50425-50429.	1.7	7
132	Synthesis and application of sulfonated polystyrene/ferrosulfate/diazo resin nanocomposite microspheres for highly selective removal of dyes. <i>Materials and Design</i> , 2017, 135, 333-342.	3.3	37



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133	Polymer-grafted magnetic microspheres for enhanced removal of methylene blue from aqueous solutions. <i>RSC Advances</i> , 2017, 7, 47029-47037.	1.7	35
134	High Relativity Gadolinium- $\epsilon$ -Polydopamine Nanoparticles. <i>Small</i> , 2017, 13, 1701830.	5.2	48
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811	Mussel inspired biosorbent combined with graphene oxide for removal of organic pollutants from aqueous solutions. <i>Ecotoxicology and Environmental Safety</i> , 2023, 255, 114793.	2.9	2
812	A green method for decolorization of polysaccharides from alfalfa by S-8 macroporous resin and their characterization and antioxidant activity. <i>RSC Advances</i> , 2023, 13, 9642-9653.	1.7	2
813	Colloidal metal nanocatalysts to advance orange II hydrogenolysis tracked by a microplate reader. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2023, 136, 1005-1019.	0.8	0
814	The removal efficiency of emerging organic contaminants, heavy metals and dyes: intrinsic limits at low concentrations. <i>Environmental Science: Water Research and Technology</i> , 2023, 9, 1558-1565.	1.2	2
815	Activated carbon microspheres with high surface area for efficient organic contaminants removal. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2023, 669, 131479.	2.3	4
816	Selective adsorption of anionic and cationic dyes on mesoporous UiO-66 synthesized using a template-free sonochemistry method: kinetic, isotherm and thermodynamic studies. <i>RSC Advances</i> , 2023, 13, 12320-12343.	1.7	11
827	Potential Applications of Graphene. <i>Engineering Materials</i> , 2023, , 127-165.	0.3	1
845	Modeling of polymeric adsorbent behavior. , 2024, , 393-432.		2
864	Advances in boron nitride-based nanomaterials for environmental remediation and water splitting: a review. <i>RSC Advances</i> , 2024, 14, 3447-3472.	1.7	0