

Ali H Jawad

List of Publications by Year in descending order

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104
papers

6,327
citations

41344

49
h-index

82547

72
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108
all docs

108
docs citations

108
times ranked

3004
citing authors

#	ARTICLE	IF	CITATIONS
1	High surface area and mesoporous activated carbon from KOH-activated dragon fruit peels for methylene blue dye adsorption: Optimization and mechanism study. Chinese Journal of Chemical Engineering, 2021, 32, 281-290.	3.5	206
2	Acid-fractionalized biomass material for methylene blue dye removal: a comprehensive adsorption and mechanism study. Journal of Taibah University for Science, 2020, 14, 305-313.	2.5	177
3	Application of response surface methodology for enhanced synthesis of chitosan tripolyphosphate/TiO ₂ nanocomposite and adsorption of reactive orange 16 dye. Journal of Cleaner Production, 2019, 232, 43-56.	9.3	162
4	Mesoporous Iraqi red kaolin clay as an efficient adsorbent for methylene blue dye: Adsorption kinetic, isotherm and mechanism study. Surfaces and Interfaces, 2020, 18, 100422.	3.0	157
5	New magnetic Schiff's base-chitosan-glyoxal/fly ash/Fe ₃ O ₄ biocomposite for the removal of anionic azo dye: An optimized process. International Journal of Biological Macromolecules, 2020, 146, 530-539.	7.5	155
6	Box-Behnken design to optimize the synthesis of new crosslinked chitosan-glyoxal/TiO ₂ nanocomposite: Methyl orange adsorption and mechanism studies. International Journal of Biological Macromolecules, 2019, 129, 98-109.	7.5	150
7	Zwitterion composite chitosan-epichlorohydrin/zeolite for adsorption of methylene blue and reactive red 120 dyes. International Journal of Biological Macromolecules, 2020, 163, 756-765.	7.5	148
8	Parametric optimization by Box-Behnken design for synthesis of magnetic chitosan-benzil/ZnO/Fe ₃ O ₄ nanocomposite and textile dye removal. Journal of Environmental Chemical Engineering, 2021, 9, 105166.	6.7	144
9	Adsorption and mechanism study for methylene blue dye removal with carbonized watermelon (Citrullus lanatus) rind prepared via one-step liquid phase H ₂ SO ₄ activation. Surfaces and Interfaces, 2019, 16, 76-84.	3.0	142
10	Statistical modeling and mechanistic pathway for methylene blue dye removal by high surface area and mesoporous grass-based activated carbon using K ₂ CO ₃ activator. Journal of Environmental Chemical Engineering, 2021, 9, 105530.	6.7	130
11	Tunable Schiff's base-cross-linked chitosan composite for the removal of reactive red 120 dye: Adsorption and mechanism study. International Journal of Biological Macromolecules, 2020, 142, 732-741.	7.5	127
12	Kinetics of photocatalytic decolourization of cationic dye using porous TiO ₂ film. Journal of Taibah University for Science, 2016, 10, 352-362.	2.5	120
13	Synthesis of Magnetic Chitosan-Fly Ash/Fe ₃ O ₄ Composite for Adsorption of Reactive Orange 16 Dye: Optimization by Box-Behnken Design. Journal of Polymers and the Environment, 2020, 28, 1068-1082.	5.0	118
14	Adsorption of methylene blue onto activated carbon developed from biomass waste by H ₂ SO ₄ activation: kinetic, equilibrium and thermodynamic studies. Desalination and Water Treatment, 2016, 57, 25194-25206.	1.0	117
15	Fly ash modified magnetic chitosan-polyvinyl alcohol blend for reactive orange 16 dye removal: Adsorption parametric optimization. International Journal of Biological Macromolecules, 2021, 189, 464-476.	7.5	117
16	Statistical modeling of methylene blue dye adsorption by high surface area mesoporous activated carbon from bamboo chip using KOH-assisted thermal activation. Energy, Ecology and Environment, 2020, 5, 456-469.	3.9	116
17	Hybrid Crosslinked Chitosan-Epichlorohydrin/TiO ₂ Nanocomposite for Reactive Red 120 Dye Adsorption: Kinetic, Isotherm, Thermodynamic, and Mechanism Study. Journal of Polymers and the Environment, 2020, 28, 624-637.	5.0	115
18	Magnetic Chitosan-Glutaraldehyde/Zinc Oxide/Fe ₃ O ₄ Nanocomposite: Optimization and Adsorptive Mechanism of Remazol Brilliant Blue R Dye Removal. Journal of Polymers and the Environment, 2021, 29, 3932-3947.	5.0	111

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19	Synthesis of chitosan-ethylene glycol diglycidyl ether/TiO ₂ nanoparticles for adsorption of reactive orange 16 dye using a response surface methodology approach. <i>Bioresource Technology</i> , 2019, 293, 122071.	9.6	105
20	Biofilm of cross-linked Chitosan-Ethylene Glycol Diglycidyl Ether for removal of Reactive Red 120 and Methyl Orange: Adsorption and mechanism studies. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102965.	6.7	103
21	Facile synthesis of crosslinked chitosan-tripolyphosphate/kaolin clay composite for decolourization and COD reduction of remazol brilliant blue R dye: Optimization by using response surface methodology. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 605, 125329.	4.7	102
22	Statistical optimization and modeling for color removal and COD reduction of reactive blue 19 dye by mesoporous chitosan-epichlorohydrin/kaolin clay composite. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 4218-4230.	7.5	102
23	Adsorption of Reactive Red 4 by immobilized chitosan on glass plates: Towards the design of immobilized TiO ₂ -chitosan synergistic photocatalyst-adsorption bilayer system. <i>Biochemical Engineering Journal</i> , 2010, 49, 317-325.	3.6	101
24	Tuning of Fly Ash Loading into Chitosan-Ethylene Glycol Diglycidyl Ether Composite for Enhanced Removal of Reactive Red 120 Dye: Optimization Using the Box-Behnken Design. <i>Journal of Polymers and the Environment</i> , 2020, 28, 2720-2733.	5.0	93
25	Adsorptive removal of methylene blue by chemically treated cellulosic waste banana (<i>Musa</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 2.5 88	2.5	88
26	Mesoporous Crosslinked Chitosan-Activated Charcoal Composite for the Removal of Thionine Cationic Dye: Comprehensive Adsorption and Mechanism Study. <i>Journal of Polymers and the Environment</i> , 2020, 28, 1095-1105.	5.0	86
27	Microwave-assisted preparation of mesoporous-activated carbon from coconut (<i>Cocos</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 2.6 85	2.6	85
28	Physicochemical modification of chitosan with fly ash and tripolyphosphate for removal of reactive red 120 dye: Statistical optimization and mechanism study. <i>International Journal of Biological Macromolecules</i> , 2020, 161, 503-513.	7.5	85
29	Numerical desirability function for adsorption of methylene blue dye by sulfonated pomegranate peel biochar: Modeling, kinetic, isotherm, thermodynamic, and mechanism study. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1499-1509.	2.7	83
30	Adsorption Characteristics and Mechanistic Study of Immobilized Chitosan-Montmorillonite Composite for Methyl Orange removal. <i>Journal of Polymers and the Environment</i> , 2020, 28, 1901-1913.	5.0	78
31	Immobilized bilayer TiO ₂ /chitosan system for the removal of phenol under irradiation by a 45watt compact fluorescent lamp. <i>Desalination</i> , 2011, 280, 288-296.	8.2	77
32	Insights into the modeling, characterization and adsorption performance of mesoporous activated carbon from corn cob residue via microwave-assisted H ₃ PO ₄ activation. <i>Surfaces and Interfaces</i> , 2020, 21, 100688.	3.0	77
33	Chitosan-glyoxal film as a superior adsorbent for two structurally different reactive and acid dyes: Adsorption and mechanism study. <i>International Journal of Biological Macromolecules</i> , 2019, 135, 569-581.	7.5	76
34	Oxidation of crosslinked chitosan-epichlorohydrine film and its application with TiO ₂ for phenol removal. <i>Carbohydrate Polymers</i> , 2012, 90, 87-94.	10.2	75
35	Cross-Linked Chitosan-Glyoxal/Kaolin Clay Composite: Parametric Optimization for Color Removal and COD Reduction of Remazol Brilliant Blue R Dye. <i>Journal of Polymers and the Environment</i> , 2022, 30, 164-178.	5.0	74
36	Applicability of dragon fruit (<i>Hylocereus polyrhizus</i>) peels as low-cost biosorbent for adsorption of methylene blue from aqueous solution: kinetics, equilibrium and thermodynamics studies. , 0, 109, 231-240.		74

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37	Conversion of Malaysian low-rank coal to mesoporous activated carbon: Structure characterization and adsorption properties. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1716-1727.	3.5	73
38	FeCl ₃ -Activated Carbon Developed from Coconut Leaves: Characterization and Application for Methylene Blue Removal. <i>Sains Malaysiana</i> , 2018, 47, 603-610.	0.5	72
39	Modeling and mechanism of reactive orange 16 dye adsorption by chitosan-glyoxal/TiO ₂ nanocomposite: application of response surface methodology. , 0, 164, 346-360.		70
40	Production of the lactic acid from mango peel waste " Factorial experiment. <i>Journal of King Saud University - Science</i> , 2013, 25, 39-45.	3.5	68
41	Adsorption of methylene blue onto coconut (<i>Cocos nucifera</i>) leaf: optimization, isotherm and kinetic studies. <i>Desalination and Water Treatment</i> , 2016, 57, 8839-8853.	1.0	68
42	Prediction of sediment heavy metal at the Australian Bays using newly developed hybrid artificial intelligence models. <i>Environmental Pollution</i> , 2021, 268, 115663.	7.5	67
43	Microporous activated carbon developed from KOH activated biomass waste: surface mechanistic study of methylene blue dye adsorption. <i>Water Science and Technology</i> , 2021, 84, 1858-1872.	2.5	67
44	Utilization of watermelon (<i>Citrullus lanatus</i>) rinds as a natural low-cost biosorbent for adsorption of methylene blue: kinetic, equilibrium and thermodynamic studies. <i>Journal of Taibah University for Science</i> , 2018, 12, 371-381.	2.5	66
45	Fabrication of Schiff's Base Chitosan-Glutaraldehyde/Activated Charcoal Composite for Cationic Dye Removal: Optimization Using Response Surface Methodology. <i>Journal of Polymers and the Environment</i> , 2021, 29, 2855-2868.	5.0	65
46	KOH-activated carbon developed from biomass waste: adsorption equilibrium, kinetic and thermodynamic studies for Methylene blue uptake. <i>Desalination and Water Treatment</i> , 2016, 57, 27226-27236.	1.0	64
47	Immobilized Fe-Loaded Chitosan Film for Methyl Orange Dye Removal: Competitive Ions, Reusability, and Mechanism. <i>Journal of Polymers and the Environment</i> , 2021, 29, 1050-1062.	5.0	64
48	Photocatalytic decolorization of methylene blue by an immobilized TiO ₂ film under visible light irradiation: optimization using response surface methodology (RSM). <i>Desalination and Water Treatment</i> , 2015, 56, 161-172.	1.0	62
49	H ₂ SO ₄ -treated Malaysian low rank coal for methylene blue dye decolourization and cod reduction: Optimization of adsorption and mechanism study. <i>Surfaces and Interfaces</i> , 2020, 21, 100641.	3.0	60
50	Cross-linked chitosan thin film coated onto glass plate as an effective adsorbent for adsorption of reactive orange 16. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 743-749.	7.5	59
51	Response surface methodology approach for optimization of color removal and COD reduction of methylene blue using microwave-induced NaOH activated carbon from biomass waste. , 0, 62, 208-220.		59
52	Functionalization of remote sensing and on-site data for simulating surface water dissolved oxygen: Development of hybrid tree-based artificial intelligence models. <i>Marine Pollution Bulletin</i> , 2021, 170, 112639.	5.0	58
53	Synthesis of Schiff's base magnetic crosslinked chitosan-glyoxal/ZnO/Fe ₃ O ₄ nanoparticles for enhanced adsorption of organic dye: Modeling and mechanism study. <i>Sustainable Chemistry and Pharmacy</i> , 2021, 20, 100379.	3.3	56
54	Upgrading low rank coal into mesoporous activated carbon via microwave process for methylene blue dye adsorption: Box Behnken Design and mechanism study. <i>Diamond and Related Materials</i> , 2022, 127, 109199.	3.9	54

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55	Mesoporous activated carbon from grass waste <i>via</i> H_3PO_4 -activation for methylene blue dye removal: modelling, optimisation, and mechanism study. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 6061-6077.	3.3	53
56	High surface area mesoporous activated carbon developed from coconut leaf by chemical activation with H_3PO_4 for adsorption of methylene blue. , 0, 74, 326-335.		53
57	Process Optimization and Adsorptive Mechanism for Reactive Blue 19 Dye by Magnetic Crosslinked Chitosan/MgO/Fe $3O_4$ Biocomposite. <i>Journal of Polymers and the Environment</i> , 2022, 30, 2759-2773.	5.0	52
58	Photocatalytic-oxidation of solid state chitosan by immobilized bilayer assembly of TiO $_2$ -chitosan under a compact household fluorescent lamp irradiation. <i>Carbohydrate Polymers</i> , 2011, 83, 1146-1152.	10.2	50
59	Characterizations of the Photocatalytically-Oxidized Cross-Linked Chitosan-Glutaraldehyde and its Application as a Sub-Layer in the TiO $_2$ /CS-GLA Bilayer Photocatalyst System. <i>Journal of Polymers and the Environment</i> , 2012, 20, 817-829.	5.0	50
60	Synthesis of biohybrid magnetic chitosan-polyvinyl alcohol/MgO nanocomposite blend for remazol brilliant blue R dye adsorption: solo and collective parametric optimization. <i>Polymer Bulletin</i> , 2023, 80, 4927-4947.	3.3	49
61	Pyrolysis of rubber seed pericarp biomass treated with sulfuric acid for the adsorption of crystal violet and methylene green dyes: an optimized process. <i>International Journal of Phytoremediation</i> , 2023, 25, 393-402.	3.1	45
62	Adsorptive performance of carbon modified chitosan biopolymer for cationic dye removal: kinetic, isotherm, thermodynamic, and mechanism study. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 6189-6203.	3.3	44
63	Equilibrium isotherms, kinetics, and thermodynamics studies of methylene blue adsorption on pomegranate (<i>Punica granatum</i>) peels as a natural low-cost biosorbent. , 0, 105, 322-331.		44
64	Magnetic biohybrid chitosan-ethylene glycol diglycidyl ether/magnesium oxide/Fe $3O_4$ nanocomposite for textile dye removal: Box-Cox design optimization and mechanism study. <i>Journal of Polymer Research</i> , 2022, 29, .	2.4	44
65	Equilibrium, kinetic and thermodynamic studies of Reactive Red 120 dye adsorption by chitosan beads from aqueous solution. <i>Energy, Ecology and Environment</i> , 2017, 2, 85-93.	3.9	41
66	Carbonization of corn (<i>Zea mays</i>) cob food residue by one-step activation with sulfuric acid for methylene blue adsorption. , 0, 118, 342-351.		39
67	N-doped TiO $_2$ Synthesised via Microwave Induced Photocatalytic on RR4 dye Removal under LED Light Irradiation. <i>Sains Malaysiana</i> , 2017, 46, 1309-1316.	0.5	38
68	Adsorption of methylene blue onto acid-treated mango peels: Kinetic, equilibrium and thermodynamic study. , 0, 59, 210-219.		37
69	Fabrication, optimization and application of an immobilized layer-by-layer TiO $_2$ /Chitosan system for the removal of phenol and its intermediates under 45-W fluorescent lamp. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2012, 106, 49-65.	1.7	32
70	Large surface area activated carbon from low-rank coal via microwave-assisted KOH activation for methylene blue adsorption. , 0, 110, 239-249.		32
71	Adsorption behavior of methylene blue on acid-treated rubber (<i>Hevea brasiliensis</i>) leaf. , 0, 124, 297-307.		30
72	Magnetic crosslinked chitosan-tripolyphosphate/MgO/Fe $3O_4$ nanocomposite for reactive blue 19 dye removal: Optimization using desirability function approach. <i>Surfaces and Interfaces</i> , 2022, 28, 101698.	3.0	30

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73	Adsorption of methylene blue onto betel nut husk-based activated carbon prepared by sodium hydroxide activation process. <i>Water Science and Technology</i> , 2020, 82, 1932-1949.	2.5	28
74	Pomegranate peels collected from fresh juice shop as a renewable precursor for high surface area activated carbon with potential application for methylene blue adsorption. , 0, 124, 287-296.		24
75	Multivariable optimization with desirability function for carbon porosity and methylene blue adsorption by watermelon rind activated carbon prepared by microwave assisted H3PO4. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 577-591.	4.6	21
76	Microwave Enhanced Synthesis of Sulfonated Chitosan-Montmorillonite for Effective Removal of Methylene Blue. <i>Journal of Polymers and the Environment</i> , 2021, 29, 4027-4039.	5.0	20
77	Optical properties of PVC composite modified during light exposure to give high absorption enhancement. <i>Journal of Non-Crystalline Solids</i> , 2021, 570, 120946.	3.1	18
78	The assessment of emerging data-intelligence technologies for modeling Mg+2 and SO4 ²⁻ surface water quality. <i>Journal of Environmental Management</i> , 2021, 300, 113774.	7.8	18
79	Adsorption and mechanism study for reactive red 120 dye removal by cross-linked chitosan-epichlorohydrin biobeads. , 0, 164, 378-387.		18
80	Sustainable approach of batch and continuous biosorptive systems for praseodymium and thulium ions removal in mono and binary aqueous solutions. <i>Environmental Technology and Innovation</i> , 2021, 23, 101581.	6.1	17
81	Hydrothermal synthesis of phosphorylated chitosan and its adsorption performance towards Acid Red 88 dye. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1716-1726.	7.5	17
82	Oxidation of Chitosan in Solution by Photocatalysis and Product Characterization. <i>Journal of Polymers and the Environment</i> , 2017, 25, 828-835.	5.0	16
83	A Surface Morphological Study, Poly(Vinyl Chloride) Photo-Stabilizers Utilizing Ibuprofen Tin Complexes against Ultraviolet Radiation. <i>Surfaces</i> , 2020, 3, 579-593.	2.3	16
84	New stabilizers for PVC based on some diorganotin(IV) complexes with benzamidoleucine. <i>Arabian Journal of Chemistry</i> , 2016, 9, S1394-S1401.	4.9	15
85	Integrative artificial intelligence models for Australian coastal sediment lead prediction: An investigation of in-situ measurements and meteorological parameters effects. <i>Journal of Environmental Management</i> , 2022, 309, 114711.	7.8	15
86	Carbonization of rubber (<i>Hevea brasiliensis</i>) seed shell by one-step liquid phase activation with H2SO4 for methylene blue adsorption. , 0, 129, 279-288.		14
87	Sulfamethoxazole as a ligand to synthesize di- and tri-alkyltin(IV) complexes and using as excellent photo-stabilizers for PVC. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	13
88	New TiO ₂ /DSAT Immobilization System for Photodegradation of Anionic and Cationic Dyes. <i>International Journal of Photoenergy</i> , 2015, 2015, 1-6.	2.5	10
89	Box-Behnken Design for Optimizing Synthesis and Adsorption Conditions of Covalently Crosslinked Chitosan/Coal Fly Ash Composite for Reactive Red 120 Dye Removal. <i>Journal of Polymers and the Environment</i> , 2022, 30, 3447-3462.	5.0	10
90	Kinetics Studies of Metallic Ions Adsorption by Immobilised Chitosan. <i>Science Letters</i> , 2022, 16, 137.	0.8	6

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91	New organic PVC photo-stabilizers derived from synthesised novel coumarine moieties. <i>Materials Science for Energy Technologies</i> , 2022, 5, 278-293.	1.8	6
92	Carbon Nitrogen Co-Doped P25: Parameter Study on Photodegradation of Reactive Red 4. <i>MATEC Web of Conferences</i> , 2016, 47, 05018.	0.2	5
93	Enhanced photocatalytic degradation of phenol by immobilized TiO ₂ /dye loaded chitosan. , 0, 167, 190-199.		5
94	Sulfur Dioxide Gas Adsorption Study using Mixed Activated Carbon from Different Biomass. <i>International Journal of Technology</i> , 2018, 9, 1121.	0.8	4
95	Preparation and Characterization of Single and Mixed Activated Carbons Derived from Coconut Shell and Palm Kernel Shell through Chemical Activation Using Microwave Irradiation System. <i>Materials Science Forum</i> , 0, 889, 215-220.	0.3	3
96	In-situ Transesterification of <i>Jatropha curcas</i> L. Seeds for Biodiesel Production using Supercritical Methanol. <i>MATEC Web of Conferences</i> , 2017, 97, 01082.	0.2	3
97	Optimization of Sorption Parameters for Color Removal of Textile Dye by Cross-linked Chitosan Beads Using Box-Behnken Design. <i>MATEC Web of Conferences</i> , 2016, 47, 05009.	0.2	2
98	Callus Induction of Fenugreek <i>Trigonella Foenum-Graecum</i> via Auxin Combined with Cytokinins Hormones, and Assessment of Toxicity via Brine Shrimp Assay. <i>Journal of Asian Scientific Research</i> , 2022, 12, 12-27.	0.2	2
99	Coal liquefaction using a tetralin-glycerol co-solvent system: effect of temperature and reaction time on conversion and product yield. <i>WIT Transactions on Ecology and the Environment</i> , 2014, , .	0.0	1
100	Thermal and Hydraulic Performances of Carbon and Metallic Oxides-Based Nanomaterials. <i>Nanomaterials</i> , 2022, 12, 1545.	4.1	1
101	Characteristics and Thermal Behaviour of Low Rank Malaysian Coals towards Liquefaction Performance via Thermogravimetric Analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 136, 012089.	0.6	0
102	Development of atenolol-tin complexes as PVC photostabilizers for outdoor applications. <i>Journal of Physics: Conference Series</i> , 2021, 1999, 012005.	0.4	0
103	Overview of <i>Thaumatococcus Daniellii</i> Plant, History, Uses, Benefits, and Characterization. <i>Journal of Asian Scientific Research</i> , 2022, 12, 80-90.	0.2	0
104	The Influence of Different Concentrations of Plant Hormones in Vitro on Seeds Germination of Fenugreek (<i>Trigonella Foenum-Graecum</i>). <i>Journal of Asian Scientific Research</i> , 2022, 12, 104-113.	0.2	0