Lee D Wilson

List of Publications by Year
in descending order

184 papers	6,515 citations	61984 43 h-index	85541 71 g-index
184 all docs	184 docs citations	184 times ranked	6055 citing authors

#	Article	IF	Citations
1	Conventional and non-conventional adsorbents for wastewater treatment. Environmental Chemistry Letters, 2019, 17, 195-213.	16.2	611
2	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
3	Water-insoluble Î²-cyclodextrinâ€“epichlorohydrin polymers for removal of pollutants from aqueous solutions by sorption processes using batch studies: A review of inclusion mechanisms. Progress in Polymer Science, 2018, 78, 1-23.	24.7	193
4	Effect of Antifreeze Proteins on the Nucleation, Growth, and the Memory Effect during Tetrahydrofuran Clathrate Hydrate Formation. Journal of the American Chemical Society, 2006, 128, 2844-2850.	13.7	190
5	Adsorption and mechanism study for methylene blue dye removal with carbonized watermelon (Citrullus lanatus) rind prepared via one-step liquid phase H2SO4 activation. Surfaces and Interfaces, 2019, 16, 76-84.	3.0	142
6	Chitosan-glutaraldehyde copolymers and their sorption properties. Carbohydrate Polymers, 2014, 109, 92-101.	10.2	137
7	Statistical modeling and mechanistic pathway for methylene blue dye removal by high surface area and mesoporous grass-based activated carbon using K2CO3 activator. Journal of Environmental Chemical Engineering, 2021, 9, 105530.	6.7	130
8	Adsorption of methylene blue onto activated carbon developed from biomass waste by H₂SO₄activation: kinetic, equilibrium and thermodynamic studies. Desalination and Water Treatment, 2016, 57, 25194-25206.	1.0	117
9	Solid Polyrotaxanes of Polyethylene Glycol and Cyclodextrins:Â The Single Crystal X-ray Structure of PEGâ^'Î²-cyclodextrinâ€. Journal of the American Chemical Society, 2000, 122, 12375-12376.	13.7	113
10	Adsorption properties of cross-linked cellulose-epichlorohydrin polymers in aqueous solution. Carbohydrate Polymers, 2016, 136, 329-340.	10.2	113
11	A Review on the Design and Hydration Properties of Natural Polymer-Based Hydrogels. Materials, 2021, 14, 1095.	2.9	106
12	Graphene Oxideâ€“Chitosan Composite Material for Treatment of a Model Dye Effluent. ACS Omega, 2018, 3, 13045-13054.	3.5	98
13	Dye removal by biosorption using cross-linked chitosan-based hydrogels. Environmental Chemistry Letters, 2019, 17, 1645-1666.	16.2	94
14	Chitosan for direct bioflocculation of wastewater. Environmental Chemistry Letters, 2019, 17, 1603-1621.	16.2	90
15	Microwave-assisted preparation of mesoporous-activated carbon from coconut (<i>Cocos) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Chemical Engineering Communications, 2017, 204, 1143-1156.	2.6	85
16	Adsorption-Oriented Processes Using Conventional and Non-conventional Adsorbents for Wastewater Treatment. Environmental Chemistry for A Sustainable World, 2018, , 23-71.	0.5	83
17	Physicochemical Properties and the Gelation Process of Supramolecular Hydrogels: A Review. Gels, 2017, 3, 1.	4.5	76
18	Magnetite/Polymer Brush Nanocomposites with Switchable Uptake Behavior Toward Methylene Blue. ACS Applied Materials & Interfaces, 2016, 8, 5595-5607.	8.0	73

#	Article	IF	Citations
19	Conversion of Malaysian low-rank coal to mesoporous activated carbon: Structure characterization and adsorption properties. Chinese Journal of Chemical Engineering, 2019, 27, 1716-1727.	3.5	73
20	Surface area and pore structure properties of urethane-based copolymers containing Î²-cyclodextrin. Journal of Colloid and Interface Science, 2011, 357, 215-222.	9.4	72
21	A Volumetric Study of Î²-Cyclodextrin/Hydrocarbon and Î²-Cyclodextrin/Fluorocarbon Surfactant Inclusion Complexes in Aqueous Solutions. Journal of Physical Chemistry B, 1997, 101, 9270-9279.	2.6	71
22	Adsorption study of an organo-arsenical with chitosan-based sorbents. Journal of Colloid and Interface Science, 2014, 420, 136-144.	9.4	71
23	Estimation of the surface accessible inclusion sites of Î²-cyclodextrin based copolymer materials. Carbohydrate Polymers, 2010, 80, 186-196.	10.2	70
24	Preparation and sorption studies of glutaraldehyde cross-linked chitosan copolymers. Journal of Colloid and Interface Science, 2013, 395, 205-211.	9.4	70
25	Recent advances for sustainable production of levulinic acid in ionic liquids from biomass: Current scenario, opportunities and challenges. Renewable and Sustainable Energy Reviews, 2019, 102, 266-284.	16.4	69
26	Investigation of the Pore Structure of As-Prepared and Purified HiPco Single-Walled Carbon Nanotubes by N2/Ar AdsorptionImplication for H2Storage. Nano Letters, 2002, 2, 343-346.	9.1	65
27	Fabrication of Schiffâ€™s Base Chitosan-Glutaraldehyde/Activated Charcoal Composite for Cationic Dye Removal: Optimization Using Response Surface Methodology. Journal of Polymers and the Environment, 2021, 29, 2855-2868.	5.0	65
28	Design and characterization of novel Î²-cyclodextrin based copolymer materials. Carbohydrate Research, 2011, 346, 219-229.	2.3	64
29	Design of amphoteric chitosan flocculants for phosphate and turbidity removal in wastewater. Carbohydrate Polymers, 2018, 189, 360-370.	10.2	62
30	Fabrication of chitosan/alginate/hydroxyapatite hybrid scaffolds using 3D printing and impregnating techniques for potential cartilage regeneration. International Journal of Biological Macromolecules, 2022, 204, 62-75.	7.5	62
31	Formation of Host-Guest Complexes of Î²-Cyclodextrin and Perfluorooctanoic Acid. Journal of Physical Chemistry B, 2011, 115, 9511-9527.	2.6	61
32	Polysaccharide-based materials and their adsorption properties in aqueous solution. Carbohydrate Polymers, 2014, 113, 471-479.	10.2	58
33	Phosphate uptake studies of cross-linked chitosan bead materials. Journal of Colloid and Interface Science, 2017, 485, 201-212.	9.4	58
34	Nano-Sized Cyclodextrin-Based Molecularly Imprinted Polymer Adsorbents for Perfluorinated Compoundsâ€"A Mini-Review. Nanomaterials, 2015, 5, 981-1003.	4.1	57
35	Self-Assembled and Cross-Linked Animal and Plant-Based Polysaccharides: Chitosanâ€“Cellulose Composites and Their Anion Uptake Properties. ACS Applied Materials & Interfaces, 2016, 8, 33197-33209.	8.0	56
36	Novel materials for environmental remediation of tailing pond waters containing naphthenic acids. Chemical Engineering Research and Design, 2008, 86, 237-243.	5.6	55

#	Article	IF	Citations
37	Porous Copolymer Resins: Tuning Pore Structure and Surface Area with Non Reactive Porogens. Nanomaterials, 2012, 2, 163-186.	4.1	55
38	Investigation of Self-Assembly Processes for Chitosan-Based Coagulant-Flocculant Systems: A Mini-Review. International Journal of Molecular Sciences, 2016, 17, 1662.	4.1	55
39	Crossâ€linked chitosan beads for phosphate removal from aqueous solution. Journal of Applied Polymer Science, 2016, 133, .	2.6	55
40	A spectral displacement study of the binding constants of cyclodextrinâ€“hydrocarbon and â€“fluorocarbon surfactant inclusion complexes. Canadian Journal of Chemistry, 1997, 75, 927-933.	1.1	54
41	Tunable macromolecular-based materials for the adsorption of perfluorooctanoic and octanoic acid anions. Journal of Colloid and Interface Science, 2013, 402, 196-203.	9.4	53
42	Investigation of the sorption properties of Î²-cyclodextrin-based polyurethanes with phenolic dyes and naphthenates. Journal of Colloid and Interface Science, 2011, 356, 217-226.	9.4	52
43	Process Optimization and Adsorptive Mechanism for Reactive Blue 19 Dye by Magnetic Crosslinked Chitosan/MgO/Fe3O4 Biocomposite. Journal of Polymers and the Environment, 2022, 30, 2759-2773.	5.0	52
44	Preparation and sorption studies of Î²-cyclodextrinâ€“chitosanâ€“glutaraldehyde terpolymers. Journal of Colloid and Interface Science, 2013, 393, 271-277.	9.4	47
45	Kinetic study on urea uptake with chitosan based sorbent materials. Carbohydrate Polymers, 2016, 135, 180-186.	10.2	45
46	Magnetic biohybrid chitosan-ethylene glycol diglycidyl ether/magnesium oxide/Fe3O4 nanocomposite for textile dye removal: Boxâ€“Behnken design optimization and mechanism study. Journal of Polymer Research, 2022, 29, .	2.4	44
47	Molecular structure and mild steel/HCl corrosion inhibition of 4,5-Dicyanoimidazole: Vibrational, electrochemical and quantum mechanical calculations. Journal of Molecular Structure, 2021, 1230, 129647.	3.6	43
48	Screening of oil sands naphthenic acids by UV-Vis absorption and fluorescence emission spectrophotometry. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2008, 43, 1700-1705.	1.7	42
49	Synthetically engineered chitosan-based materials and their sorption properties with methylene blue in aqueous solution. Journal of Colloid and Interface Science, 2012, 388, 225-234.	9.4	41
50	Evaluation of the accessible inclusion sites in copolymer materials containing Î²-cyclodextrin. Carbohydrate Polymers, 2012, 87, 1241-1248.	10.2	40
51	Flocculation Optimization of Orthophosphate with FeCl3and Alginate Using the Boxâ€“Behnken Response Surface Methodology. Industrial & Engineering Chemistry Research, 2017, 56, 3145-3155.	3.7	39
52	Synthesis and characterization of cellulose-goethite composites and their adsorption properties with roxarsone. Carbohydrate Polymers, 2017, 169, 282-294.	10.2	39
53	Redox-Responsive Polymer Template as an Advanced Multifunctional Catalyst Support for Silver Nanoparticles. Langmuir, 2018, 34, 10560-10568.	3.5	38
54	Macromolecular sorbent materials for urea capture. Journal of Applied Polymer Science, 2013, 128, 667-675.	2.6	36

#	Article	IF	Citations
55	Sorptive Uptake Studies of an Aryl-Arsenical with Iron Oxide Composites on an Activated Carbon Support. Materials, 2014, 7, 1880-1898.	2.9	36
56	Sequestration of naphthenic acids from aqueous solution using Î²-cyclodextrin-based polyurethanes. Physical Chemistry Chemical Physics, 2011, 13, 1112-1122.	2.8	35
57	Enzymatic activity studies of Pseudomonas cepacia lipase adsorbed onto copolymer supports containing Î²-cyclodextrin. Journal of Molecular Catalysis B: Enzymatic, 2013, 87, 105-112.	1.8	35
58	Sorptive uptake of selenium with magnetite and its supported materials onto activated carbon. Journal of Colloid and Interface Science, 2015, 457, 388-397.	9.4	35
59	Modular Cross-Linked Chitosan Beads with Calcium Doping for Enhanced Adsorptive Uptake of Organophosphate Anions. Industrial & Engineering Chemistry Research, 2016, 55, 11706-11715.	3.7	35
60	Characterization and Dynamic Properties for the Solid Inclusion Complexes of Î²-Cyclodextrin and Perfluorooctanoic Acid. Journal of Physical Chemistry B, 2013, 117, 8269-8282.	2.6	34
61	Investigation of Chitosan-PVA Composite Films and Their Adsorption Properties. Journal of Geoscience and Environment Protection, 2015, 03, 78-84.	0.5	34
62	Synthesis and characterization of magnetite and activated carbon binary composites. Synthetic Metals, 2014, 197, 8-17.	3.9	32
63	Sorption of Aromatic Compounds with Copolymer Sorbent Materials Containing Î²-Cyclodextrin. Materials, 2011, 4, 1528-1542.	2.9	30
64	Kinetic Uptake Studies of Powdered Materials in Solution. Nanomaterials, 2015, 5, 969-980.	4.1	30
65	Quaternized Cellulose Hydrogels as Sorbent Materials and Pickering Emulsion Stabilizing Agents. Materials, 2016, 9, 645.	2.9	29
66	Preparation and sorption studies of polyester microsphere copolymers containing Î²-Cyclodextrin. Journal of Colloid and Interface Science, 2012, 387, 250-261.	9.4	26
67	Investigation of the Adsorption Processes of Fluorocarbon and Hydrocarbon Anions at the Solidâ€“Solution Interface of Macromolecular Imprinted Polymer Materials. Journal of Physical Chemistry C, 2016, 120, 6553-6568.	3.1	26
68	A Kinetic Uptake Study of Roxarsone Using Cross-Linked Chitosan Beads. Industrial & Engineering Chemistry Research, 2017, 56, 1704-1712.	3.7	26
69	Simultaneous adsorption of lanthanum and yttrium from aqueous solution by durian rind biosorbent. Environmental Monitoring and Assessment, 2019, 191, 488.	2.7	26
70	Uptake of Methylene Blue from Aqueous Solution by Pectinâ€“Chitosan Binary Composites. Journal of Composites Science, 2020, 4, 95.	3.0	26
71	A¹H NMR study of cyclodextrin - hydrocarbon surfactant inclusion complexes in aqueous solutions. Canadian Journal of Chemistry, 1998, 76, 25-34.	1.1	25
72	Tuning the physicochemical properties of Î²-cyclodextrin based polyurethanes via cross-linking conditions. Microporous and Mesoporous Materials, 2015, 214, 23-31.	4.4	25

#	Article	IF	Citations
73	Synthesis and characterization of surface-modified mesoporous silica materials with Î²-cyclodextrin. Cogent Chemistry, 2016, 2, 1132984.	2.5	25
74	Ultra-sonication assisted cross-linking of cellulose polymers. Ultrasonics Sonochemistry, 2018, 42, 567-576.	8.2	25
75	An Overview of Modified Chitosan Adsorbents for the Removal of Precious Metals Species from Aqueous Media. Molecules, 2022, 27, 978.	3.8	25
76	Polyaniline/Biopolymer Composite Systems for Humidity Sensor Applications: A Review. Polymers, 2021, 13, 2722.	4.5	24
77	Preparation and sorption studies of Î²â€cyclodextrin/epichlorohydrin copolymers. Journal of Applied Polymer Science, 2010, 116, 2982-2989.	2.6	23
78	Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Characterization of Tunable Carbohydrate-Based Materials for Sorption of Oil Sands Naphthenic Acids. Energy & Fuels, 2013, 27, 1772-1778.	5.1	22
79	Sorption Study of a Starch Biopolymer as an Alternative Desiccant for Energy Wheels. ACS Sustainable Chemistry and Engineering, 2016, 4, 1262-1273.	6.7	22
80	Cyclodextrin based polymer sorbents for micro-solid phase extraction followed by liquid chromatography tandem mass spectrometry in determination of endogenous steroids. Journal of Chromatography A, 2018, 1543, 23-33.	3.7	22
81	Modular Chitosan-Based Adsorbents for Tunable Uptake of Sulfate from Water. International Journal of Molecular Sciences, 2020, 21, 7130.	4.1	22
82	Thermodynamic Properties of Inclusion Complexes between Î²-Cyclodextrin and Naphthenic Acid Fraction Components. Energy & Fuels, 2015, 29, 3591-3600.	5.1	21
83	Biopolymer Flocculants and Oat Hull Biomass To Aid the Removal of Orthophosphate in Wastewater Treatment. Industrial & Engineering Chemistry Research, 2017, 56, 37-46.	3.7	21
84	Renewable Starch Carriers with Switchable Adsorption Properties. ACS Sustainable Chemistry and Engineering, 2018, 6, 4603-4613.	6.7	21
85	Surface-Modified Chitosan: An Adsorption Study of a â€œTweezer-Likeâ€•Biopolymer with Fluorescein. Surfaces, 2019, 2, 468-484.	2.3	21
86	Sequestration of Sulfate Anions from Groundwater by Biopolymer-Metal Composite Materials. Polymers, 2020, 12, 1502.	4.5	21
87	Cu(II) Ion Adsorption by Aniline Grafted Chitosan and Its Responsive Fluorescence Properties. Molecules, 2020, 25, 1052.	3.8	21
88	Multivariable optimization with desirability function for carbon porosity and methylene blue adsorption by watermelon rind activated carbon prepared by microwave assisted H3PO4. Biomass Conversion and Biorefinery, 2024, 14, 577-591.	4.6	21
89	Cyclodextrin-Based Microcapsule Materials - Their Preparation and Physiochemical Properties. Current Organic Chemistry, 2013, 17, 14-21.	1.6	20
90	Atmospheric Pressure Photoionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Characterization of Tunable Carbohydrate-Based Materials for Sorption of Oil Sands Naphthenic Acids. Energy & Fuels, 2014, 28, 1611-1616.	5.1	20

#	Article	IF	Citations
91	A ¹H NMR Study of Host/Guest Supramolecular Complexes of a Curcumin Analogue with Î²-Cyclodextrin and a Î²-Cyclodextrin-Conjugated Gemini Surfactant. Molecular Pharmaceutics, 2015, 12, 2993-3006.	4.6	20
92	A novel solid-state fractionation of naphthenic acid fraction components from oil sands process-affected water. Chemosphere, 2015, 136, 252-258.	8.2	19
93	Development of a small-scale test facility for effectiveness evaluation of fixed-bed regenerators. Applied Thermal Engineering, 2020, 174, 115263.	6.0	19
94	Counterion Anchoring Effect on the Structure of the Solid-State Inclusion Complexes of Î²-Cyclodextrin and Sodium Perfluorooctanoate. Journal of Physical Chemistry C, 2015, 119, 22225-22243.	3.1	18
95	Modified Biopolymer Adsorbents for Column Treatment of Sulfate Species in Saline Aquifers. Materials, 2020, 13, 2408.	2.9	18
96	Adsorption of Phosphate Dianions by Hybrid Inorganicâ€“Biopolymer Polyelectrolyte Complexes: Experimental and Computational Studies. ACS Applied Polymer Materials, 2020, 2, 899-910.	4.4	18
97	Floating ZnO QDs-Modified TiO2/LLDPE Hybrid Polymer Film for the Effective Photodegradation of Tetracycline under Fluorescent Light Irradiation: Synthesis and Characterisation. Molecules, 2021, 26, 2509.	3.8	18
98	Electrospray ionization mass spectrometry studies of cyclodextrinâ€¢carboxylate ion inclusion complexes. Rapid Communications in Mass Spectrometry, 2009, 23, 3703-3712.	1.5	17
99	Phenolic Pollutant Uptake Properties of Molecular Templated Polymers Containing Î²-Cyclodextrin. Journal of Physical Chemistry B, 2018, 122, 4748-4757.	2.6	17
100	â€œPillaring Effectsâ€•in Cross-Linked Cellulose Biopolymers: A Study of Structure and Properties. International Journal of Polymer Science, 2018, 2018, 1-13.	2.7	17
101	Saline-Responsive and Hydrogen Bond Gating Effects in Self-Healing Polyaniline. ACS Applied Polymer Materials, 2020, 2, 2311-2318.	4.4	17
102	Vanadium dioxide nanoparticles as a promising sorbent for controlled removal of waterborne fluoroquinolone ciprofloxacin. Materials Chemistry and Physics, 2021, 259, 123993.	4.0	17
103	Tunable Polymeric Sorbent Materials for Fractionation of Model Naphthenates. Journal of Physical Chemistry B, 2013, 117, 3659-3666.	2.6	16
104	Raman, infrared and NMR spectral analysis, normal coordinate analysis and theoretical calculations of 5-(methylthio)-1,3,4-thiadiazole-2(3H)-thione and its thiol tautomer. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 150, 339-349.	3.9	16
105	Oxidation of Chitosan in Solution by Photocatalysis and Product Characterization. Journal of Polymers and the Environment, 2017, 25, 828-835.	5.0	16
106	Optimisation of orthophosphate and turbidity removal using an amphoteric chitosan-based flocculantâ€“ferric chloride coagulant system. Environmental Chemistry, 2019, 16, 599.	1.5	16
107	Molecular imprinted polymers for the controlled uptake of sinapic acid from aqueous media. Food and Function, 2020, 11, 895-906.	4.6	16
108	A spectral displacement study of cyclodextrin/naphthenic acids inclusion complexes. Canadian Journal of Chemistry, 2009, 87, 1747-1756.	1.1	15

#	Article	IF	Citations
109	Colloidal properties of single component naphthenic acids and complex naphthenic acid mixtures. Journal of Colloid and Interface Science, 2013, 395, 104-110.	9.4	15
110	Hydration and Sorption Properties of Raw and Milled Flax Fibers. ACS Omega, 2020, 5, 6113-6121.	3.5	15
111	Comparison of the Moisture Adsorption Properties of Starch Particles and Flax Fiber Coatings for Energy Wheel Applications. ACS Omega, 2020, 5, 9529-9539.	3.5	15
112	Parameter optimization of tetracycline removal by vanadium oxide nano cuboids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 619, 126460.	4.7	15
113	Preparation and Characterization of a Polymer-Based â€œMolecular Accordionâ€• Langmuir, 2016, 32, 3066-3078.	3.5	14
114	A porous Î²-cyclodextrin-based terpolymer fluorescence sensor for in situ trinitrophenol detection. RSC Advances, 2019, 9, 8073-8080.	3.6	14
115	Adsorption processes in biopolymer systems: fundamentals to practical applications. , 2021, , 1-51.		14
116	An Overview of the Design of Chitosan-Based Fiber Composite Materials. Journal of Composites Science, 2021, 5, 160.	3.0	14
117	Methods for selenium removal from contaminated waters: a review. Environmental Chemistry Letters, 2022, 20, 2019-2041.	16.2	14
118	Sorption of Agrochemical Model Compounds by Sorbent Materials Containing Î²-cyclodextrin. Journal of Agromedicine, 2010, 15, 105-116.	1.5	13
119	Spectroscopic and Thermodynamic Study of Biopolymer Adsorption Phenomena in Heterogeneous Solidâ€“Liquid Systems. ACS Omega, 2018, 3, 15370-15379.	3.5	13
120	Mechanical properties of graphene oxide-based composite layered-materials. Materials Chemistry and Physics, 2019, 234, 81-89.	4.0	13
121	Kinetics, isotherm, thermodynamic and bioperformance of defluoridation of water using praseodymium-modified chitosan. Journal of Environmental Chemical Engineering, 2019, 7, 103498.	6.7	13
122	Binary Pectin-Chitosan Composites for the Uptake of Lanthanum and Yttrium Species in Aqueous MediaÂ. Micromachines, 2021, 12, 478.	2.9	13
123	Adsorption of Lanthanide Ions from Aqueous Solution in Multicomponent Systems using Activated Carbon from Banana Peels (Musa paradisiaca L.). International Journal of Technology, 2018, 9, 1132.	0.8	13
124	Surface-modified activated carbon with Î²-cyclodextrinâ€”Part II. Adsorption properties. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2010, 45, 1793-1803.	1.7	12
125	Novel materials for environmental remediation of oil sands contaminants. Reviews on Environmental Health, 2014, 29, 5-8.	2.4	12
126	Characterization and Dynamic Properties for the Solid Inclusion Complexes of Î²-Cyclodextrin and Perfluorobutyric Acid. Journal of Physical Chemistry C, 2014, 118, 15460-15473.	3.1	12

#	Article	IF	Citations
127	Salt-Responsive Fe₃O₄ Nanocomposites and Phase Behavior in Water. Langmuir, 2018, 34, 341-350.	3.5	12
128	Water Vapor Adsorptionâ€“Desorption Behavior of Surfactant-Coated Starch Particles for Commercial Energy Wheels. ACS Omega, 2019, 4, 14378-14389.	3.5	12
129	Cross-Linked Chitosan-Based Hydrogels for Dye Removal. Sustainable Agriculture Reviews, 2019, , 381-425.	1.1	12
130	ZnO Surface Doping to Enhance the Photocatalytic Activity of Lithium Titanate/TiO2 for Methylene Blue Photodegradation under Visible Light Irradiation. Surfaces, 2020, 3, 301-318.	2.3	12
131	A Review on Recent Progress of Glycan-Based Surfactant Micelles as Nanoreactor Systems for Chemical Synthesis Applications. Polysaccharides, 2021, 2, 168-186.	4.8	12
132	Study of Dehumidification and Regeneration in a Starch Coated Energy Wheel. ACS Sustainable Chemistry and Engineering, 2017, 5, 221-231.	6.7	11
133	Animal Biopolymer-Plant Biomass Composites: Synergism and Improved Sorption Efficiency. Journal of Composites Science, 2020, 4, 15.	3.0	11
134	Preparation and sorption studies of microsphere copolymers containing Î²â€cyclodextrin and poly(acrylic acid). Journal of Applied Polymer Science, 2012, 125, 1841-1854.	2.6	10
135	Infrared and NMR spectra, tautomerism, vibrational assignment, normal coordinate analysis, and quantum mechanical calculations of 4-amino-5-pyrimidinecarbonitrile. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 111, 277-289.	3.9	10
136	Macromolecular hydration phenomena. Journal of Thermal Analysis and Calorimetry, 2016, 126, 1851-1866.	3.6	10
137	Counterion Effects in Metal Hybrid Biopolymer Materials for Sulfate Adsorption: An Experimental and Computational Study. ACS Applied Polymer Materials, 2021, 3, 4595-4606.	4.4	10
138	Nuclear Magnetic Resonance Investigation of the Fractionation of Waterâ€“Ethanol Mixtures with Cellulose and Its Cross-Linked Biopolymer Forms. Energy & Fuels, 2015, 29, 6512-6521.	5.1	9
139	Miscanthus Biomass for the Sustainable Fractionation of Ethanolâ€“Water Mixtures. ACS Sustainable Chemistry and Engineering, 2017, 5, 2970-2980.	6.7	9
140	Starch Particles, Energy Harvesting, and the â€œGoldilocks Effectâ€• ACS Omega, 2018, 3, 3796-3803.	3.5	9
141	A Spectroscopic Study of Solid-Phase Chitosan/Cyclodextrin-Based Electrospun Fibers. Fibers, 2019, 7, 48.	4.0	9
142	Preparation of Multicomponent Biocomposites and Characterization of Their Physicochemical and Mechanical Properties. Journal of Composites Science, 2020, 4, 18.	3.0	9
143	Coating Cellulosic Material with Ag Nanowires to Fabricate Wearable IR-Reflective Device for Personal Thermal Management: The Role of Coating Method and Loading Level. Molecules, 2021, 26, 3570.	3.8	9
144	Insight into the photodegradation mechanism of bisphenol-A by oxygen doped mesoporous carbon nitride under visible light irradiation and DFT calculations. RSC Advances, 2022, 12, 10409-10423.	3.6	9

#	Article	IF	Citations
145	A volumetric and NMR study of cyclodextrin-inhalation anesthetic complexes in aqueous solutions. Canadian Journal of Chemistry, 2015, 93, 815-821.	1.1	8
146	Gas and Solution Uptake Properties of Graphene Oxide-Based Composite Materials: Organic vs. Inorganic Cross-Linkers. Journal of Composites Science, 2019, 3, 80.	3.0	8
147	Effect of Graphene Oxide as a Reinforcement in a Bio-Epoxy Composite. Journal of Composites Science, 2021, 5, 91.	3.0	8
148	Preparation and characterization of salicylic acid grafted chitosan electrospun fibers. Carbohydrate Polymers, 2022, 275, 118751.	10.2	8
149	Design of Sustainable Biomaterial Composite Adsorbents for Point-of-Use Removal of Lead Ions From Water. Frontiers in Water, 2022, 4, .	2.3	8
150	Tautomerism, Raman, infrared and ultravioletâ€“visible spectra, vibrational assignments, MP2 and B3LYP calculations of dienol 3,4-dihydroxypyridine, keto-enol 3-hydroxypyridin-4-one and keto-enol dimer. Journal of Molecular Structure, 2013, 1043, 52-67.	3.6	7
151	Raman and DRIFT spectra, vibrational assignments and quantum mechanical calculations of centrosymmetric meso -2,3-Dimercaptosuccinic acid. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 183, 275-283.	3.9	7
152	Chitosan for Direct Bioflocculation Processes. Sustainable Agriculture Reviews, 2019, , 335-380.	1.1	7
153	A structural study of self-assembled chitosan-based sponge materials. Carbohydrate Polymers, 2019, 206, 685-693.	10.2	7
154	Surface modified activated carbon with Î²-cyclodextrin â€“ Part I. Synthesis and characterization. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2010, 45, 1775-1792.	1.7	6
155	Design and characterization of chitosan-based composite particles with tunable interfacial properties. Carbohydrate Polymers, 2015, 132, 369-377.	10.2	6
156	The Role of Inclusion Binding Contributions for Î²-Cyclodextrin Polymers Cross-Linked with Divinyl Sulfone?â€"A Comment on Morales-Sanfrutos et al. Entitled â€œDivinyl Sulfone Cross-Linked Cyclodextrin-Based Polymeric Materials: Synthesis and Applications as Sorbents and Encapsulating Agentsâ€; Molecules, 2015, 20, 3565â€“3581.. Molecules, 2016, 21, 93.	3.8	6
157	NMR Investigation of the Fractionation of Waterâ€“Ethanol Mixtures with Starch and Its Cross-Linked Forms. Energy & Fuels, 2016, 30, 5684-5692.	5.1	6
158	Raman and infrared spectra, normal coordinate analysis and ab initio calculations of 4-Amino-2-chloropyrimidine-5-carbonitrile. Journal of Molecular Structure, 2016, 1115, 85-93.	3.6	6
159	Vapor Adsorption Transient Test Facility for Dehumidification and Desorption Studies. International Journal of Technology, 2018, 9, 1092.	0.8	6
160	Mesoporous TiO2 Implanted ZnO QDs for the Photodegradation of Tetracycline: Material Design, Structural Characterization and Photodegradation Mechanism. Catalysts, 2021, 11, 1205.	3.5	6
161	Anti-Methanogenic Effect of Phytochemicals on Methyl-Coenzyme M Reductaseâ€"Potential: In Silico and Molecular Docking Studies for Environmental Protection. Micromachines, 2021, 12, 1425.	2.9	6
162	Cyclodextrin-Based Polymer-Supported Bacterium for the Adsorption and in-situ Biodegradation of Phenolic Compounds. Frontiers in Chemistry, 2018, 6, 403.	3.6	5

#	Article	IF	Citations
163	Surfactant Surface-Patterned Starch Particles for Adsorption-Based Applications: The Role of Sabatierâ€™s Principle. ACS Applied Polymer Materials, 2019, 1, 2787-2796.	4.4	5
164	Simple and Low-Cost Setup for Measurement of the Density of a Liquid. Journal of Chemical Education, 2019, 96, 175-179.	2.3	5
165	Synthesis, characterization and adsorption behavior of sinapic acid imprinted polymer via precipitation polymerization. Journal of Polymer Research, 2020, 27, 1.	2.4	5
166	Flax Biomass Conversion via Controlled Oxidation: Facile Tuning of Physicochemical Properties. Bioengineering, 2020, 7, 38.	3.5	5
167	Friedelâ€“Crafts benzylation of toluene catalyzed by ZnCl2/SiO2 heterogeneous catalyst to para- and ortho-mono-benzylated toluene. Journal of the Iranian Chemical Society, 2020, 17, 1615-1626.	2.2	5
168	Adsorption Studies of Waterborne Trihalomethanes Using Modified Polysaccharide Adsorbents. Molecules, 2021, 26, 1431.	3.8	5
169	Experimental and theoretical studies of hydrogen generation by binary metal (oxide)-graphene oxide composite materials. International Journal of Hydrogen Energy, 2021, 46, 19802-19813.	7.1	5
170	Characterization of the Physicochemical Properties of Î²-Cyclodextrinâ€“Divinyl Sulfone Polymer Carrierâ€“Bile Acid Systems. Molecular Pharmaceutics, 2017, 14, 2616-2623.	4.6	4
171	Inclusion Complexes of Melphalan with Gemini-Conjugated Î²-Cyclodextrin: Physicochemical Properties and Chemotherapeutic Efficacy in In-Vitro Tumor Models. Pharmaceutics, 2019, 11, 427.	4.5	4
172	Vapour and Solution Uptake Properties of Starch and Cellulose Biopolymers. Journal of Geoscience and Environment Protection, 2018, 06, 101-117.	0.5	4
173	Design of hybrid goethite nanocomposites as potential sorbents for lanthanum from aqueous media. Separation Science and Technology, 2020, , 1-15.	2.5	3
174	Preparation and sorption properties of tunable polyester copolymers containing Î²â€cyclodextrin. Journal of Applied Polymer Science, 2013, 127, 4889-4898.	2.6	2
175	Raman and infrared spectra, crystal structure and DFT calculations of novel N-benzyl-4-(3-benzylcarbamoyl-propyldisulfanyl)-butyramide: [C6H5CH2NHC(O)(CH2)4S]2. Research on Chemical Intermediates, 2015, 41, 4761-4784.	2.7	2
176	Computational (DFT and MP2) and spectral interpretations, normal coordinate analysis, force constants and barriers to internal rotations of Trimethylacetonitrile. Journal of Theoretical and Computational Chemistry, 2016, 15, 1650034.	1.8	2
177	Synthesis and Characterization of Pyridine-Grafted Copolymers of Acrylic Acidâ€“Styrene Derivatives for Antimicrobial and Fluorescence Applications. Micromachines, 2021, 12, 672.	2.9	2
178	Organotin (IV) complexes with sulphonyl hydrazide moiety. Design, synthesis, characterization, docking studies, cytotoxic and anti-leishmanial activity. Journal of Biomolecular Structure and Dynamics, 2022, 40, 12336-12346.	3.5	2
179	Solubilized Chitosan Biopolymers for Sequestration of Organic Acids in Aquatic Environments after Biodegradation in a Constructed Wetland Treatment System. International Journal of Technology, 2018, 9, 1140.	0.8	2
180	Photocatalytic Remediation of Harmful Alexandrium minutum Bloom Using Hybrid Chitosan-Modified TiO2 Films in Seawater: A Lab-Based Study. Catalysts, 2022, 12, 707.	3.5	2

#	Article	IF	Citations
181	A spectroscopic study of a cyclodextrin-based polymer and the â€œmolecular accordionâ€•effect. Canadian Journal of Chemistry, 2019, 97, 442-450.	1.1	1
182	Suitability of bio-desiccants for energy wheels in HVAC applications. Building and Environment, 2021, 206, 108369.	6.9	1
183	Synthesis and characterization of hausmannite â€•activated carbon nanocomposites for removal of lead from aqueous solutions. Chemical Engineering and Technology, 0, , .	1.5	1
184	DETERMINATION OF HOST-GUEST BINDING SITES FOR Î²-CYCLODEXTRIN URETHANE COPOLYMERS. , 2010, , .		0