

# J Paul Chen

## List of Publications by Citations

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141  
papers

11,258  
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56  
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104  
g-index

147  
ext. papers

12,738  
ext. citations

8.9  
avg, IF

6.91  
L-index

#	Paper	IF	Citations
141	Sorption of lead, copper, cadmium, zinc, and nickel by marine algal biomass: characterization of biosorptive capacity and investigation of mechanisms. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 275, 131-41	9.3	818
140	Applications of water stable metal-organic frameworks. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 5107-34	58.5	737
139	Microplastics in freshwater systems: A review on occurrence, environmental effects, and methods for microplastics detection. <i>Water Research</i> , <b>2018</b> , 137, 362-374	12.5	687
138	A review on polyamide thin film nanocomposite (TFN) membranes: History, applications, challenges and approaches. <i>Water Research</i> , <b>2015</b> , 80, 306-24	12.5	466
137	A comprehensive review on biosorption of heavy metals by algal biomass: materials, performances, chemistry, and modeling simulation tools. <i>Bioresource Technology</i> , <b>2014</b> , 160, 67-78	11	428
136	Aminated Polyacrylonitrile Fibers for Lead and Copper Removal. <i>Langmuir</i> , <b>2003</b> , 19, 5058-5064	4	305
135	Surface modification of a granular activated carbon by citric acid for enhancement of copper adsorption. <i>Carbon</i> , <b>2003</b> , 41, 1979-1986	10.4	294
134	Acid/Base-treated activated carbons: characterization of functional groups and metal adsorptive properties. <i>Langmuir</i> , <b>2004</b> , 20, 2233-42	4	264
133	Characterization of copper adsorption onto an alginate encapsulated magnetic sorbent by a combined FT-IR, XPS, and mathematical modeling study. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 2551-6	10.3	253
132	Superior removal of arsenic from water with zirconium metal-organic framework UiO-66. <i>Scientific Reports</i> , <b>2015</b> , 5, 16613	4.9	225
131	Adsorptive removal of arsenic from water by an iron-zirconium binary oxide adsorbent. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 358, 230-7	9.3	195
130	Systematic study of synergistic and antagonistic effects on adsorption of tetracycline and copper onto a chitosan. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 344, 117-25	9.3	191
129	Elucidation of Interactions between Metal Ions and Ca Alginate-Based Ion-Exchange Resin by Spectroscopic Analysis and Modeling Simulation. <i>Langmuir</i> , <b>2002</b> , 18, 9413-9421	4	191
128	Optimization of high-yield biological synthesis of single-crystalline gold nanoplates. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 15256-63	3.4	182
127	Behaviors and mechanisms of copper adsorption on hydrolyzed polyacrylonitrile fibers. <i>Journal of Colloid and Interface Science</i> , <b>2003</b> , 260, 265-72	9.3	181
126	Biosorption of hexavalent chromium onto raw and chemically modified <i>Sargassum</i> sp. <i>Bioresource Technology</i> , <b>2008</b> , 99, 297-307	11	165
125	Optimization of membrane physical and chemical cleaning by a statistically designed approach. <i>Journal of Membrane Science</i> , <b>2003</b> , 219, 27-45	9.6	164

124	Equilibrium and kinetics of metal ion adsorption onto a commercial H-type granular activated carbon: experimental and modeling studies. <i>Water Research</i> , <b>2001</b> , 35, 2385-94	12.5	145
123	Preparation and evaluation of a magnetite-doped activated carbon fiber for enhanced arsenic removal. <i>Carbon</i> , <b>2010</b> , 48, 60-67	10.4	142
122	Chemical Modification of Sargassum sp. for Prevention of Organic Leaching and Enhancement of Uptake during Metal Biosorption. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 9931-9942	3.9	141
121	Study of a heavy metal biosorption onto raw and chemically modified Sargassum sp. via spectroscopic and modeling analysis. <i>Langmuir</i> , <b>2006</b> , 22, 8906-14	4	130
120	Improvement of metal adsorption onto chitosan/Sargassum sp. composite sorbent by an innovative ion-imprint technology. <i>Water Research</i> , <b>2011</b> , 45, 145-54	12.5	129
119	Adsorptive removal of arsenic from aqueous solution by a PVDF/zirconia blend flat sheet membrane. <i>Journal of Membrane Science</i> , <b>2011</b> , 374, 1-11	9.6	128
118	Biosorption of Heavy Metal Ions (Pb, Cu, and Cd) from Aqueous Solutions by the Marine Alga Sargassum sp. in Single- and Multiple-Metal Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 2438-2444	3.9	123
117	An XPS study for mechanisms of arsenate adsorption onto a magnetite-doped activated carbon fiber. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 343, 232-8	9.3	122
116	Organic arsenic adsorption onto a magnetic sorbent. <i>Langmuir</i> , <b>2009</b> , 25, 4973-8	4	115
115	Key factors in chemical reduction by hydrazine for recovery of precious metals. <i>Chemosphere</i> , <b>2002</b> , 49, 363-70	8.4	111
114	Spectroscopic study of Zn <sup>2+</sup> and Co <sup>2+</sup> binding to extracellular polymeric substances (EPS) from aerobic granules. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 335, 11-7	9.3	110
113	Simultaneous adsorption of copper ions and humic acid onto an activated carbon. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 280, 334-42	9.3	106
112	Removing copper, zinc, and lead ion by granular activated carbon in pretreated fixed-bed columns. <i>Separation and Purification Technology</i> , <b>2000</b> , 19, 157-167	8.3	106
111	Adsorption of fluoride by Fe/Mg/Al triple-metal composite: Adsorbent preparation, illustration of performance and study of mechanisms. <i>Chemical Engineering Journal</i> , <b>2015</b> , 262, 839-846	14.7	104
110	A zirconium based nanoparticle for significantly enhanced adsorption of arsenate: Synthesis, characterization and performance. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 354, 785-92	9.3	99
109	Study on feed pretreatment for membrane filtration of secondary effluent. <i>Separation and Purification Technology</i> , <b>2002</b> , 29, 171-179	8.3	92
108	Modification of Activated Carbon by Polyaniline for Enhanced Adsorption of Aqueous Arsenate. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 2133-2140	3.9	91
107	Characterization of metal adsorption kinetic properties in batch and fixed-bed reactors. <i>Chemosphere</i> , <b>2004</b> , 54, 397-404	8.4	91

106	Equilibrium and Kinetic Studies of Copper Ion Uptake by Calcium Alginate. <i>Environmental Science &amp; Technology</i> , <b>1997</b> , 31, 1433-1439	10.3	89
105	Treatment of lead contaminated water by a PVDF membrane that is modified by zirconium, phosphate and PVA. <i>Water Research</i> , <b>2016</b> , 101, 564-573	12.5	88
104	Effects of competitive ions, humic acid, and pH on removal of ammonium and phosphorous from the synthetic industrial effluent by ion exchange resins. <i>Waste Management</i> , <b>2002</b> , 22, 711-9	8.6	85
103	Performance of an optimized Zr-based nanoparticle-embedded PSF blend hollow fiber membrane in treatment of fluoride contaminated water. <i>Water Research</i> , <b>2014</b> , 56, 88-97	12.5	83
102	Design and fabrication of an innovative and environmental friendly adsorbent for boron removal. <i>Water Research</i> , <b>2011</b> , 45, 2297-305	12.5	82
101	Removal of arsenite from aqueous solution by a zirconia nanoparticle. <i>Chemical Engineering Journal</i> , <b>2012</b> , 188, 15-22	14.7	79
100	Surface charge and metal ion adsorption on an H-type activated carbon: experimental observation and modeling simulation by the surface complex formation approach. <i>Carbon</i> , <b>2001</b> , 39, 1491-1504	10.4	77
99	Key factors for optimum performance in phosphate removal from contaminated water by a Fe-Mg-La tri-metal composite sorbent. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 445, 303-311	9.3	76
98	A novel Zr-based nanoparticle-embedded PSF blend hollow fiber membrane for treatment of arsenate contaminated water: Material development, adsorption and filtration studies, and characterization. <i>Journal of Membrane Science</i> , <b>2014</b> , 452, 433-445	9.6	74
97	Preparation and characterization of chitosan encapsulated Sargassum sp. biosorbent for nickel ions sorption. <i>Bioresource Technology</i> , <b>2011</b> , 102, 2821-8	11	74
96	Preparation and characterization of zirconium-based magnetic sorbent for arsenate removal. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 338, 22-9	9.3	73
95	Recovery of precious metals by an electrochemical deposition method. <i>Chemosphere</i> , <b>2005</b> , 60, 1384-92	8.4	73
94	Cerium oxide modified activated carbon as an efficient and effective adsorbent for rapid uptake of arsenate and arsenite: Material development and study of performance and mechanisms. <i>Chemical Engineering Journal</i> , <b>2017</b> , 315, 630-638	14.7	68
93	Modification of carbon derived from Sargassum sp. by lanthanum for enhanced adsorption of fluoride. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 441, 113-20	9.3	66
92	A novel route to the engineering of zirconium immobilized nano-scale carbon for arsenate removal from water. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 8636	13	66
91	Removal of copper by calcium alginate encapsulated magnetic sorbent. <i>Chemical Engineering Journal</i> , <b>2009</b> , 152, 509-513	14.7	65
90	Modeling Investigation of Hydrogel Volume Transition. <i>Macromolecular Theory and Simulations</i> , <b>2004</b> , 13, 13-29	1.5	64
89	Synthesis of an innovative calcium-alginate magnetic sorbent for removal of multiple contaminants. <i>Applied Surface Science</i> , <b>2007</b> , 253, 5772-5775	6.7	62

88	Hydrothermally synthesized lanthanum carbonate nanorod for adsorption of phosphorus: Material synthesis and optimization, and demonstration of excellent performance. <i>Chemical Engineering Journal</i> , <b>2020</b> , 380, 122153	14.7	62
87	Separation of tetracycline from wastewater using forward osmosis process with thin film composite membrane [Implications for antibiotics recovery. <i>Separation and Purification Technology</i> , <b>2015</b> , 153, 76-83	8.3	59
86	Effects of chemical and physical properties of influent on copper sorption onto activated carbon fixed-bed columns. <i>Carbon</i> , <b>2003</b> , 41, 1635-1644	10.4	58
85	Functionalization of regenerated cellulose membrane via surface initiated atom transfer radical polymerization for boron removal from aqueous solution. <i>Langmuir</i> , <b>2011</b> , 27, 6018-25	4	56
84	Application of nuclear magnetic resonance spectroscopy, Fourier transform infrared spectroscopy, UV-Visible spectroscopy and kinetic modeling for elucidation of adsorption chemistry in uptake of tetracycline by zeolite beta. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 354, 261-7	9.3	56
83	Simultaneous removal of arsenate and arsenite by a nanostructured zirconium-manganese binary hydrous oxide: behavior and mechanism. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 397, 137-43	9.3	54
82	Equilibrium and kinetic studies of copper adsorption by activated carbon. <i>Separation and Purification Technology</i> , <b>1996</b> , 6, 133-146		54
81	Biosorption of copper by immobilized marine algal biomass. <i>Chemical Engineering Journal</i> , <b>2008</b> , 136, 156-163	14.7	50
80	Introduction and demonstration of a novel Pb(II)-imprinted polymeric membrane with high selectivity and reusability for treatment of lead contaminated water. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 439, 162-9	9.3	46
79	Degradation of organic compounds during the corrosion of ZVI by hydrogen peroxide at neutral pH: Kinetics, mechanisms and effect of corrosion promoting and inhibiting ions. <i>Water Research</i> , <b>2018</b> , 134, 44-53	12.5	46
78	Proton interaction in phosphate adsorption onto goethite. <i>Journal of Colloid and Interface Science</i> , <b>2007</b> , 308, 40-8	9.3	46
77	Dried waste activated sludge as biosorbents for metal removal: adsorptive characterization and prevention of organic leaching. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2002</b> , 77, 657-662	3.5	44
76	CHARACTERIZATION OF A Ca-ALGINATE BASED ION-EXCHANGE RESIN AND ITS APPLICATIONS IN LEAD, COPPER, AND ZINC REMOVAL. <i>Separation Science and Technology</i> , <b>2001</b> , 36, 3617-3637	2.5	43
75	An innovative lanthanum carbonate grafted microfibrinous composite for phosphate adsorption in wastewater. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 392, 121952	12.8	40
74	A zirconium-based nanoparticle: essential factors for sustainable application in treatment of fluoride containing water. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 416, 227-34	9.3	39
73	Cu(II)-Imprinted Poly(vinyl alcohol)/Poly(acrylic acid) Membrane for Greater Enhancement in Sequestration of Copper Ion in the Presence of Competitive Heavy Metal Ions: Material Development, Process Demonstration, and Study of Mechanisms. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 20223-20233	3.9	39
72	Electrochemical Removal of Rhodamine 6G by Using RuO <sub>2</sub> Coated Ti DSA. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 7466-7473	3.9	39
71	Biosorption Performance of Two Brown Marine Algae for Removal of Chromium and Cadmium. <i>Journal of Dispersion Science and Technology</i> , <b>2005</b> , 25, 679-686	1.5	39

70	Electrochemical disinfection for ballast water management: technology development and risk assessment. <i>Marine Pollution Bulletin</i> , <b>2011</b> , 63, 119-23	6.7	38
69	Determination of lead biosorption properties by experimental and modeling simulation study. <i>Chemical Engineering Journal</i> , <b>2007</b> , 131, 209-215	14.7	38
68	Enhanced adsorption of arsenate onto a natural polymer-based sorbent by surface atom transfer radical polymerization. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 356, 234-9	9.3	37
67	Scalable encapsulation of hepatocytes by electrostatic spraying. <i>Journal of Biotechnology</i> , <b>2005</b> , 117, 99-109	3.7	37
66	Introduction of an Yttrium-Manganese Binary Composite That Has Extremely High Adsorption Capacity for Arsenate Uptake in Different Water Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 3000-3008	3.9	35
65	Electrochemical Decoloration of Synthetic Wastewater Containing Rhodamine 6G: Behaviors and Mechanism. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 5953-5960	3.9	35
64	Rare-earth metal based adsorbents for effective removal of arsenic from water: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2018</b> , 48, 1127-1164	11.1	35
63	Electrospun spongy zero-valent iron as excellent electro-Fenton catalyst for enhanced sulfathiazole removal by a combination of adsorption and electro-catalytic oxidation. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 371, 576-585	12.8	34
62	Yttrium-doped iron oxide magnetic adsorbent for enhancement in arsenic removal and ease in separation after applications. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 521, 252-260	9.3	34
61	Uptake of arsenate by an alginate-encapsulated magnetic sorbent: process performance and characterization of adsorption chemistry. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 333, 33-9	9.3	34
60	Uptake of methylated arsenic by a polymeric adsorbent: process performance and adsorption chemistry. <i>Water Research</i> , <b>2011</b> , 45, 2290-6	12.5	33
59	Advanced primary treatment of waste water using a bio-flocculation-adsorption sedimentation process. <i>Acta Biotechnologica</i> , <b>2000</b> , 20, 53-64		32
58	Characterization of hexavalent chromium interaction with Sargassum by X-ray absorption fine structure spectroscopy, X-ray photoelectron spectroscopy, and quantum chemistry calculation. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 356, 741-8	9.3	31
57	Fabrication and performance of a MnIIa metal composite for remarkable decontamination of fluoride. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 8086	13	29
56	Treatment of methylene blue containing wastewater by a cost-effective micro-scale biochar/polysulfone mixed matrix hollow fiber membrane: Performance and mechanism studies. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 512, 190-197	9.3	28
55	Fabrication and testing of zirconium-based nanoparticle-doped activated carbon fiber for enhanced arsenic removal in water. <i>RSC Advances</i> , <b>2016</b> , 6, 27020-27030	3.7	28
54	The tolerance of a thin-film composite polyamide reverse osmosis membrane to hydrogen peroxide exposure. <i>Journal of Membrane Science</i> , <b>2017</b> , 524, 529-536	9.6	28
53	Removal of methylated arsenic using a nanostructured zirconia-based sorbent: process performance and adsorption chemistry. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 367, 362-9	9.3	27

52	Development of a novel biochar/PSF mixed matrix membrane and study of key parameters in treatment of copper and lead contaminated water. <i>Chemosphere</i> , <b>2017</b> , 186, 1033-1045	8.4	26
51	Development and characterization of yttrium-ferric binary composite for treatment of highly concentrated arsenate wastewater. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 361, 348-356	12.8	25
50	Modeling Investigation of Volume Variation Kinetics of Fast Response Hydrogels. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , <b>2004</b> , 44, 113-130		25
49	Lead removal from synthetic wastewater by crystallization in a fluidized-bed reactor. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2000</b> , 35, 817-835	2.3	25
48	Zirconium/polyvinyl alcohol modified flat-sheet polyvinylidene fluoride membrane for decontamination of arsenic: Material design and optimization, study of mechanisms, and application prospects. <i>Chemosphere</i> , <b>2016</b> , 155, 630-639	8.4	25
47	Facile synthesis of highly active hydrated yttrium oxide towards arsenate adsorption. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 474, 216-22	9.3	24
46	Combination of electroreduction with biosorption for enhancement for removal of hexavalent chromium. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 385, 147-53	9.3	24
45	A metal-organic framework/Alumina composite with a novel geometry for enhanced adsorptive separation. <i>Chemical Communications</i> , <b>2016</b> , 52, 8869-72	5.8	23
44	Photocatalytic Treatment of Wastewater Contaminated with Organic Waste and Copper Ions from the Semiconductor Industry. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 6566-6571	3.9	23
43	Effect of CNT content on physicochemical properties and performance of CNT composite polysulfone membranes. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 121, 92-98	5.5	21
42	A low-energy intensive electrochemical system for the eradication of Escherichia coli from ballast water: process development, disinfection chemistry, and kinetics modeling. <i>Marine Pollution Bulletin</i> , <b>2012</b> , 64, 1238-45	6.7	21
41	Dendrimer hydrazides as multivalent transient inter-cellular linkers. <i>Biomaterials</i> , <b>2008</b> , 29, 3693-3702	15.6	20
40	Modeling of Depleted Uranium Transport in Subsurface Systems. <i>Water, Air, and Soil Pollution</i> , <b>2002</b> , 140, 173-201	2.6	20
39	Zirconium/PVA modified flat-sheet PVDF membrane as a cost-effective adsorptive and filtration material: A case study on decontamination of organic arsenic in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 477, 191-200	9.3	20
38	Novel cake characteristics of waste-activated sludge. <i>Water Research</i> , <b>2001</b> , 35, 1358-62	12.5	19
37	Modification of polyvinylidene fluoride membrane by silver nanoparticles-graphene oxide hybrid nanosheet for effective membrane biofouling mitigation. <i>Chemosphere</i> , <b>2021</b> , 268, 129187	8.4	18
36	Improvement of Ultrafiltration for Treatment of Phosphorus-Containing Water by a Lanthanum-Modified Aminated Polyacrylonitrile Membrane. <i>ACS Omega</i> , <b>2020</b> , 5, 7170-7181	3.9	17
35	An innovative yttrium nanoparticles/PVA modified PSF membrane aiming at decontamination of arsenate. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 530, 658-666	9.3	15

34	Application of Zirconium/PVA Modified Flat-Sheet PVDF Membrane for the Removal of Phosphate from Aqueous Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 6835-6844	3.9	15
33	Effects of monochloramine and hydrogen peroxide on the bacterial community shifts in biologically treated wastewater. <i>Chemosphere</i> , <b>2017</b> , 189, 399-406	8.4	14
32	Study on EDTA-chelated copper adsorption by granular activated carbon. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2000</b> , 75, 791-797	3.5	14
31	Simultaneous oxidation and removal of arsenite by Fe(III)/CaO Fenton-like technology. <i>Water Research</i> , <b>2021</b> , 201, 117312	12.5	13
30	Iron catalyzed degradation of an aromatic polyamide reverse osmosis membrane by free chlorine. <i>Journal of Membrane Science</i> , <b>2019</b> , 577, 205-211	9.6	12
29	Catalytic effect of iron on the tolerance of thin-film composite polyamide reverse osmosis membranes to hydrogen peroxide. <i>Journal of Membrane Science</i> , <b>2018</b> , 548, 91-98	9.6	12
28	Comprehensive Investigation of Important Factors Governing Metal-Ion Adsorption by an H-Type Granular Activated Carbon. <i>Separation Science and Technology</i> , <b>2000</b> , 35, 2063-2081	2.5	12
27	Membrane Filtration <b>2006</b> , 203-259		12
26	Great enhancement in phosphate uptake onto lanthanum carbonate grafted microfibrrous composite under a low-voltage electrostatic field. <i>Chemosphere</i> , <b>2021</b> , 264, 128378	8.4	12
25	A new adsorbent of gadolinium-1,4-benzenedicarboxylate composite for better phosphorous removal in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 543, 343-351	9.3	11
24	Quantitative assessment of the iron-catalyzed degradation of a polyamide nanofiltration membrane by hydrogen peroxide. <i>Journal of Membrane Science</i> , <b>2019</b> , 588, 117154	9.6	10
23	Flow Equalization and Neutralization <b>2005</b> , 21-45		10
22	Ultrafiltration membrane fouling by microplastics with raw water: Behaviors and alleviation methods. <i>Chemical Engineering Journal</i> , <b>2021</b> , 410, 128174	14.7	10
21	Microcystis aeruginosa removal by peroxides of hydrogen peroxide, peroxymonosulfate and peroxydisulfate without additional activators. <i>Water Research</i> , <b>2021</b> , 201, 117263	12.5	10
20	Remediation of Heavy Metals in the Environment		9
19	Ultraviolet Radiation for Disinfection <b>2006</b> , 317-366		7
18	Modeling of metal ion sorption phenomena in environmental systems. <i>Studies in Surface Science and Catalysis</i> , <b>1999</b> , 120, 285-317	1.8	6
17	Effect of Hexavalent Chromium on Performance of Membrane Bioreactor in Wastewater Treatment. <i>Journal of Environmental Engineering, ASCE</i> , <b>2009</b> , 135, 796-805	2	5



16	Electrolysis <b>2005</b> , 359-378		5
15	Critical review on lanthanum-based materials used for water purification through adsorption of inorganic contaminants. <i>Critical Reviews in Environmental Science and Technology</i> ,1-52	11.1	5
14	An optimized CaO-functionalized alginate bead for simultaneous and efficient removal of phosphorous and harmful cyanobacteria. <i>Science of the Total Environment</i> , <b>2022</b> , 806, 150382	10.2	3
13	Emerging Biosorption, Adsorption, Ion Exchange, and Membrane Technologies <b>2007</b> , 367-390		2
12	Decontamination of arsenite by a nano-sized lanthanum peroxide composite through a simultaneous treatment process combined with spontaneously catalytic oxidation and adsorption reactions. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 135082	14.7	2
11	Gadolinium(III) terephthalate metal-organic framework for rapid sequestration of phosphate in 10 min: Material development and adsorption study.. <i>Chemosphere</i> , <b>2021</b> , 133498	8.4	2
10	Kinetics and Mechanism Investigation of Selective Arsenite Oxidation by Reactive Iodine Species in Hydrogen Peroxide and Iodide (H <sub>2</sub> O <sub>2</sub> /I <sup>-</sup> ) System. <i>ACS ES&amp;T Water</i> , <b>2021</b> , 1, 1515-1523		2
9	Incorporation of lanthanum particles to polyethersulfone ultrafiltration membrane for specific phosphorus uptake: Method comparison and performance assessment. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 601, 242-253	9.3	2
8	Explosive Waste Treatment <b>2004</b> , 1113-1124		1
7	Adsorption of organic and inorganic arsenic from aqueous solution: Optimization, characterization and performance of Fe-Mn-Zr ternary magnetic sorbent. <i>Chemosphere</i> , <b>2021</b> , 132634	8.4	1
6	Cost-effective phosphorus removal from aqueous solution by a chitosan/lanthanum hydrogel bead: Material development, characterization of uptake process and investigation of mechanisms. <i>Chemosphere</i> , <b>2022</b> , 286, 131458	8.4	1
5	Leaching of organic matters and formation of disinfection by-product as a result of presence of microplastics in natural freshwaters.. <i>Chemosphere</i> , <b>2022</b> , 134300	8.4	1
4	Amorphous Metal-Organic Framework UiO-66-NO <sub>2</sub> for Removal of Oxyanion Pollutants: Towards Improved Performance and Effective Reusability. <i>Separation and Purification Technology</i> , <b>2022</b> , 121014	8.3	0
3	A new carbon nanotube modified by nano CaO <sub>2</sub> for removal of chromate and phosphate from aqueous solutions. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136845	14.7	0
2	Treatment of black liquor of paper-making by combined process of acid-producing white rot fungus &ndash; anaerobic hydrolysis &ndash; contact oxidation &ndash; internal electrolysis. <i>International Journal of Environment and Pollution</i> , <b>2009</b> , 38, 56	0.7	
1	Explosive Waste Treatment <b>2006</b> , 429-440		