

Ahmad Hosseini-Bandegharai

List of Publications by Year in descending order

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108
papers

10,562
citations

36303

51
h-index

32842

100
g-index

108
all docs

108
docs citations

108
times ranked

8318
citing authors

#	ARTICLE	IF	CITATIONS
1	Mistakes and inconsistencies regarding adsorption of contaminants from aqueous solutions: A critical review. <i>Water Research</i> , 2017, 120, 88-116.	11.3	1,811
2	A critical review of the estimation of the thermodynamic parameters on adsorption equilibria. Wrong use of equilibrium constant in the Van't Hoof equation for calculation of thermodynamic parameters of adsorption. <i>Journal of Molecular Liquids</i> , 2019, 273, 425-434.	4.9	1,105
3	Carbon quantum dot supported semiconductor photocatalysts for efficient degradation of organic pollutants in water: A review. <i>Journal of Cleaner Production</i> , 2019, 228, 755-769.	9.3	332
4	C-, N-Vacancy defect engineered polymeric carbon nitride towards photocatalysis: viewpoints and challenges. <i>Journal of Materials Chemistry A</i> , 2021, 9, 111-153.	10.3	320
5	Perspective and status of polymeric graphitic carbon nitride based Z-scheme photocatalytic systems for sustainable photocatalytic water purification. <i>Chemical Engineering Journal</i> , 2020, 391, 123496.	12.7	308
6	Recent advances in enhanced photocatalytic activity of bismuth oxyhalides for efficient photocatalysis of organic pollutants in water: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 78, 1-20.	5.8	294
7	Review on various strategies for enhancing photocatalytic activity of graphene based nanocomposites for water purification. <i>Arabian Journal of Chemistry</i> , 2020, 13, 3498-3520.	4.9	282
8	Review on augmentation in photocatalytic activity of CoFe ₂ O ₄ via heterojunction formation for photocatalysis of organic pollutants in water. <i>Journal of Saudi Chemical Society</i> , 2019, 23, 1119-1136.	5.2	224
9	Carbon quantum dots supported AgI /ZnO/phosphorus doped graphitic carbon nitride as Z-scheme photocatalyst for efficient photodegradation of 2, 4-dinitrophenol. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103272.	6.7	194
10	Fabrication of fluorine doped graphene and SmVO ₄ based dispersed and adsorptive photocatalyst for abatement of phenolic compounds from water and bacterial disinfection. <i>Journal of Cleaner Production</i> , 2018, 203, 386-399.	9.3	169
11	Is one performing the treatment data of adsorption kinetics correctly?. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104813.	6.7	161
12	Ag ₃ PO ₄ modified phosphorus and sulphur co-doped graphitic carbon nitride as a direct Z-scheme photocatalyst for 2, 4-dimethyl phenol degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 374, 22-35.	3.9	153
13	Recent advances on water disinfection using bismuth based modified photocatalysts: Strategies and challenges. <i>Journal of Cleaner Production</i> , 2021, 297, 126617.	9.3	143
14	Magnetically separable ZnO/ZnFe ₂ O ₄ and ZnO/CoFe ₂ O ₄ photocatalysts supported onto nitrogen doped graphene for photocatalytic degradation of toxic dyes. <i>Arabian Journal of Chemistry</i> , 2020, 13, 4324-4340.	4.9	139
15	Efficient acetaminophen removal from water and hospital effluents treatment by activated carbons derived from Brazil nutshells. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123966.	4.7	138
16	Converting type II AgBr/VO into ternary Z scheme photocatalyst via coupling with phosphorus doped g-C ₃ N ₄ for enhanced photocatalytic activity. <i>Separation and Purification Technology</i> , 2019, 227, 115692.	7.9	138
17	Microwave synthesis of silica nanoparticles and its application for methylene blue adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 649-659.	6.7	137
18	Biopolymers and composites: Properties, characterization and their applications in food, medical and pharmaceutical industries. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105322.	6.7	134

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19	A novel route for preparation of chemically activated carbon from pistachio wood for highly efficient Pb(II) sorption. <i>Journal of Environmental Management</i> , 2019, 236, 34-44.	7.8	134
20	Agricultural biomass/waste as adsorbents for toxic metal decontamination of aqueous solutions. <i>Journal of Molecular Liquids</i> , 2019, 295, 111684.	4.9	131
21	Spatial variation and probabilistic risk assessment of exposure to fluoride in drinking water. <i>Food and Chemical Toxicology</i> , 2018, 113, 314-321.	3.6	124
22	Tailoring cadmium sulfide-based photocatalytic nanomaterials for water decontamination: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 271-306.	16.2	124
23	Kinetic, equilibrium and thermodynamic studies on sorption of uranium and thorium from aqueous solutions by a selective impregnated resin containing carminic acid. <i>Journal of Hazardous Materials</i> , 2015, 286, 152-163.	12.4	123
24	Fabrication of dual Z-scheme photocatalyst via coupling of BiOBr/Ag/AgCl heterojunction with P and S co-doped g-C ₃ N ₄ for efficient phenol degradation. <i>Arabian Journal of Chemistry</i> , 2020, 13, 4538-4552.	4.9	122
25	Use of chicken feather and eggshell to synthesize a novel magnetized activated carbon for sorption of heavy metal ions. <i>Bioresource Technology</i> , 2020, 297, 122452.	9.6	120
26	Fabrication of Ag ₃ VO ₄ decorated phosphorus and sulphur co-doped graphitic carbon nitride as a high-dispersed photocatalyst for phenol mineralization and E. coli disinfection. <i>Separation and Purification Technology</i> , 2019, 212, 887-900.	7.9	119
27	A comparative study on capability of different tree species in accumulating heavy metals from soil and ambient air. <i>Chemosphere</i> , 2017, 172, 459-467.	8.2	110
28	Aloe vera waste biomass-based adsorbents for the removal of aquatic pollutants: A review. <i>Journal of Environmental Management</i> , 2018, 227, 354-364.	7.8	110
29	Efficient mercury removal from wastewater by pistachio wood wastes-derived activated carbon prepared by chemical activation using a novel activating agent. <i>Journal of Environmental Management</i> , 2018, 223, 1001-1009.	7.8	110
30	Systematic review on applicability of magnetic iron oxidesâ€“integrated photocatalysts for degradation of organic pollutants in water. <i>Materials Today Chemistry</i> , 2019, 14, 100186.	3.5	108
31	Effect of metal ions adsorption on the efficiency of methylene blue degradation onto MgFe ₂ O ₄ as Fenton-like catalysts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 571, 17-26.	4.7	106
32	Review on advances in photocatalytic water disinfection utilizing graphene and graphene derivatives-based nanocomposites. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103132.	6.7	103
33	Use of nanoparticles for dye adsorption: Review. <i>Journal of Dispersion Science and Technology</i> , 2018, 39, 836-847.	2.4	102
34	Response to â€œSome remarks on a critical review of the estimation of the thermodynamic parameters on adsorption equilibria. Wrong use of equilibrium constant in the van't Hoff equation for calculation of thermodynamic parameters of adsorption - <i>Journal of Molecular Liquids</i> 273 (2019) 425â€“434.â€• <i>Journal of Molecular Liquids</i> , 2019, 280, 298-300.	4.9	101
35	An overview of heterojunctioned ZnFe ₂ O ₄ photocatalyst for enhanced oxidative water purification. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105812.	6.7	101
36	Photocatalytic performance and quick recovery of BiOI/Fe ₃ O ₄ @graphene oxide ternary photocatalyst for photodegradation of 2,4-dinitrophenol under visible light. <i>Materials Today Chemistry</i> , 2019, 12, 85-95.	3.5	84

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37	Indium sulfide-based photocatalysts for hydrogen production and water cleaning: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1065-1095.	16.2	83
38	Kinetics, equilibrium and thermodynamic study of Cr(VI) sorption into toluidine blue o-impregnated XAD-7 resin beads and its application for the treatment of wastewaters containing Cr(VI). <i>Chemical Engineering Journal</i> , 2010, 160, 190-198.	12.7	82
39	Adsorption process and mechanism of acetaminophen onto commercial activated carbon. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104408.	6.7	82
40	Effective Adsorptive Removal of Methylene Blue from Water by Didodecyldimethylammonium Bromide-Modified Brown Clay. <i>ACS Omega</i> , 2020, 5, 16711-16721.	3.5	72
41	Ecofriendly biopolymers and composites: Preparation and their applications in water-treatment. <i>Biotechnology Advances</i> , 2021, 52, 107815.	11.7	72
42	Fabrication of efficient CuO / graphitic carbon nitride based heterogeneous photo-Fenton like catalyst for degradation of 2, 4 dimethyl phenol. <i>Chemical Engineering Research and Design</i> , 2020, 142, 63-75.	5.6	71
43	Removal of various contaminants from water by renewable lignocellulose-derived biosorbents: a comprehensive and critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 2155-2219.	12.8	69
44	Highly effective degradation of imidacloprid by H ₂ O ₂ / fullerene decorated P-doped g-C ₃ N ₄ photocatalyst. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104483.	6.7	68
45	Comparing adsorption properties of NH ₄ Cl-modified activated carbon towards chlortetracycline antibiotic with those of commercial activated carbon. <i>Journal of Molecular Liquids</i> , 2017, 232, 367-381.	4.9	66
46	Removal of Hg(II) from aqueous solutions using a novel impregnated resin containing 1-(2-thiazolylazo)-2-naphthol (TAN). <i>Chemical Engineering Journal</i> , 2011, 168, 1163-1173.	12.7	62
47	Adsorption property of Br-PADAP-impregnated multiwall carbon nanotubes towards uranium and its performance in the selective separation and determination of uranium in different environmental samples. <i>Ecotoxicology and Environmental Safety</i> , 2018, 150, 136-143.	6.0	62
48	Metal Organic Frameworks as Desulfurization Adsorbents of DBT and 4,6-DMDBT from Fuels. <i>Molecules</i> , 2019, 24, 4525.	3.8	61
49	Removal of heavy metals by leaves-derived biosorbents. <i>Environmental Chemistry Letters</i> , 2019, 17, 755-766.	16.2	59
50	Comparison of sorption behavior of Th(IV) and U(VI) on modified impregnated resin containing quinizarin with that conventional prepared impregnated resin. <i>Journal of Hazardous Materials</i> , 2011, 190, 755-765.	12.4	58
51	Sorption of Cr(VI) by Amberlite XAD-7 resin impregnated with brilliant green and its determination by quercetin as a selective spectrophotometric reagent. <i>Journal of Hazardous Materials</i> , 2009, 169, 52-57.	12.4	56
52	Activated carbon from wood wastes for the removal of uranium and thorium ions through modification with mineral acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 607, 125516.	4.7	54
53	An overview on bismuth molybdate based photocatalytic systems: Controlled morphology and enhancement strategies for photocatalytic water purification. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104291.	6.7	54
54	Evaluation of the potential of cassava-based residues for biofuels production. <i>Reviews in Environmental Science and Biotechnology</i> , 2018, 17, 553-570.	8.1	47

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55	Facile synthesis and extended visible light activity of oxygen and sulphur co-doped carbon nitride quantum dots modified Bi ₂ MoO ₆ for phenol degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 397, 112588.	3.9	47
56	Fabrication of visible light active BiFeO ₃ /CuS/SiO ₂ Z-scheme photocatalyst for efficient dye degradation. <i>Materials Letters</i> , 2020, 270, 127693.	2.6	46
57	Synthesis and Photocatalytic Activity of Ni ²⁺ /Fe Layered Double Hydroxide Modified Sulphur Doped Graphitic Carbon Nitride (SGCN/Ni ²⁺ /Fe LDH) Photocatalyst for 2,4-Dinitrophenol Degradation. <i>Topics in Catalysis</i> , 2020, 63, 1030-1045.	2.8	45
58	NiO nanoparticles for enhanced removal of methyl orange: equilibrium, kinetics, thermodynamic and desorption studies. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 84-103.	3.3	42
59	A comparative study on the synthesis of magnesium ferrite for the adsorption of metal ions: Insights into the essential role of crystallite size and surface hydroxyl groups. <i>Chemical Engineering Journal</i> , 2021, 411, 128523.	12.7	42
60	Synthesis of Eu ³⁺ -doped ZnO/Bi ₂ O ₃ heterojunction photocatalyst on graphene oxide sheets for visible light-assisted degradation of 2,4-dimethyl phenol and bacteria killing. <i>Solid State Sciences</i> , 2020, 102, 106164.	3.2	39
61	Use of a selective extractant-impregnated resin for removal of Pb(II) ion from waters and wastewaters: Kinetics, equilibrium and thermodynamic study. <i>Chemical Engineering Research and Design</i> , 2014, 92, 581-591.	5.6	35
62	Metal-free photo-activation of peroxymonosulfate using graphene supported graphitic carbon nitride for enhancing photocatalytic activity. <i>Materials Letters</i> , 2020, 277, 128277.	2.6	35
63	Sorption efficiency of three novel extractant-impregnated resins containing vesuvin towards Pb(II) ion: Effect of nitrate and amine functionalization of resin backbone. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 504, 62-74.	4.7	34
64	Synthesis and characterization of Ag/TiO ₂ /composite aerogel for enhanced adsorption and photo-catalytic degradation of toluene from the gas phase. <i>Chemical Engineering Research and Design</i> , 2019, 150, 1-13.	5.6	34
65	Adsorption properties of Danthron-impregnated carbon nanotubes and their usage for solid phase extraction of heavy metal ions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 641, 128528.	4.7	34
66	Selective extraction of Th(IV) over U(VI) and other co-existing ions using eosin B-impregnated Amberlite IRA-410 resin beads. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2010, 283, 23-30.	1.5	32
67	Adsorptive potential of Zn ²⁺ /Al and Mg ²⁺ /Fe layered double hydroxides for the removal of 2,4-dinitrophenol from aqueous solutions. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103913.	6.7	32
68	Recent advances in silver bromide-based Z-scheme photocatalytic systems for environmental and energy applications: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105157.	6.7	31
69	Solar light assisted degradation of oxytetracycline from water using Bi ₂ O ₃ /Fe ₃ O ₄ supported graphitic carbon nitride photocatalyst. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103913.		30
70	Column-mode separation and pre-concentration of some heavy metal ions by solvent-impregnated resins containing quinizarin before the determination by flame atomic absorption spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , 2009, 89, 35-48.	3.3	29
71	A novel extractant-impregnated resin containing carminic acid for selective separation and pre-concentration of uranium(VI) and thorium(IV). <i>International Journal of Environmental Analytical Chemistry</i> , 2013, 93, 108-124.	3.3	29
72	Magnetic dispersive micro-solid phase extraction merged with micro-sampling flame atomic absorption spectrometry using (Zn-Al LDH)-(PTH/DBSNa)-Fe ₃ O ₄ nanosorbent for effective trace determination of nickel(II) and cadmium(II) in food samples. <i>Microchemical Journal</i> , 2020, 159, 105450.	4.5	27

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73	Peroxy monosulphate-mediated metal-free pesticide photodegradation and bacterial disinfection using well-dispersed graphene oxide supported phosphorus-doped graphitic carbon nitride. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 4115-4137.	3.1	27
74	Silver-mediated Bi ₂ O ₃ and graphitic carbon nitride nanocomposite as all solid state Z scheme photocatalyst for imidacloprid pesticide abatement from water. , 0, 171, 344-355.		27
75	Preconcentration and determination of ultra-trace amounts of U(VI) and Th(IV) using titan yellow-impregnated Amberlite XAD-7 resin. <i>International Journal of Environmental Analytical Chemistry</i> , 2015, 95, 277-290.	3.3	26
76	Thorium removal from weakly acidic solutions using titan yellow-impregnated XAD-7 resin beads: kinetics, equilibrium and thermodynamic studies. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 309, 761.	1.5	26
77	A Strategy to Develop Efficient Ag ₃ PO ₄ -based Photocatalytic Materials Toward Water Splitting: Perspectives and Challenges. <i>ChemCatChem</i> , 2021, 13, 2965-2987.	3.7	25
78	Effect of nitrate and amine functionalization on the adsorption properties of a macroporous resin towards tetracycline antibiotic. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 66, 143-153.	5.3	24
79	Kinetics and regression analysis of phenanthrene adsorption on the nanocomposite of CaO and activated carbon: Characterization, regeneration, and mechanistic approach. <i>Journal of Molecular Liquids</i> , 2021, 334, 116080.	4.9	24
80	Solvent Impregnated Resins containing Quinizarin: Preparation and Application to Batch-mode Separation of Cd(II), Cu(II), Ni(II), and Zn(II) in Aqueous Media Prior to the Determination by Flame Atomic Absorption Spectrometry. <i>Separation Science and Technology</i> , 2007, 42, 3465-3480.	2.5	22
81	Solid-Phase Extraction of Trace Amounts of Uranium(VI) in Environmental Water Samples Using an Extractant-Impregnated Resin Followed by Detection with UV-Vis Spectrophotometry. <i>Journal of Chemistry</i> , 2013, 2013, 1-10.	1.9	21
82	Sorption of Cobalt (II) Ions from Aqueous Solutions Using Chemically Modified Chitosan. <i>Global Nest Journal</i> , 2018, 20, 620-627.	0.1	21
83	Acenaphthene adsorption onto ultrasonic assisted fatty acid mediated porous activated carbon-characterization, isotherm and kinetic studies. <i>Chemosphere</i> , 2021, 284, 131249.	8.2	20
84	Response to "Letter to Editor: Minor correction to the thermodynamic calculation using the distribution constant by Shan et al. and Rahmani-Sani et al." <i>Journal of Hazardous Materials</i> , 2017, 325, 367-368.	12.4	18
85	Constructing a novel all-solid-state Z-scheme BiVO ₄ /CQDs/FeVO ₄ photocatalyst and its enhancement to the photocatalytic activity. <i>Materials Letters</i> , 2021, 297, 129940.	2.6	18
86	Z-scheme photocatalytic dye degradation on AgBr/Zn(Co)Fe ₂ O ₄ photocatalysts supported on nitrogen-doped graphene. <i>Materials Today Sustainability</i> , 2020, 9, 100043.	4.1	16
87	Application of <i>Fusarium</i> sp. immobilized on multi-walled carbon nanotubes for solid-phase extraction and trace analysis of heavy metal cations. <i>Food Chemistry</i> , 2020, 322, 126757.	8.2	16
88	Preparation and characterization of cassava stem biochar for mixed reactive dyes removal from simulated effluent. , 0, 189, 440-451.		16
89	Application of supramolecular solvent-based dispersive liquid-liquid microextraction for trace monitoring of lead in food samples. <i>Analytical Methods</i> , 2016, 8, 5533-5539.	2.7	15
90	Back-propagation neural network: Box-Behnken design modelling for optimization of copper adsorption on orange zest biochar. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 4321-4336.	3.5	15

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91	Effect of Mg ²⁺ ions on competitive metal ions adsorption/desorption on magnesium ferrite: Mechanism, reusability and stability studies. <i>Journal of Hazardous Materials</i> , 2021, 411, 124902.	12.4	15
92	Efficacy evaluation of NH ₄ Cl-induced activated carbon in removal of aniline from aqueous solutions and comparing its performance with commercial activated carbon. <i>Desalination and Water Treatment</i> , 2016, 57, 23779-23789.	1.0	13
93	Sorption and mechanism studies of Cu ²⁺ , Sr ²⁺ and Pb ²⁺ ions on mesoporous aluminosilicates/zeolite composite sorbents. <i>Water Science and Technology</i> , 2020, 82, 984-997.	2.5	13
94	A novel solvent-impregnated resin containing 3-hydroxy-2-naphthoic acid for stepwise extraction of Th(IV) and U(VI) over other coexistence ions. <i>Separation Science and Technology</i> , 2016, 51, 1328-1335.	2.5	12
95	The application of pine-based adsorbents to remove potentially toxic elements from aqueous solutions. , 2021, , 113-133.		12
96	Simvastatin prevents morphine-induced tolerance and dependence in mice. <i>Biomedicine and Pharmacotherapy</i> , 2017, 93, 406-411.	5.6	11
97	Solidified floating organic drop microextraction for pre-concentration and trace monitoring of cadmium ions in environmental food and water samples. <i>Journal of the Iranian Chemical Society</i> , 2017, 14, 1725-1733.	2.2	10
98	Synthesis and comparison of two different morphologies of graphitic carbon nitride as adsorbent for preconcentration of heavy metal ions by effervescent salt-assisted dispersive micro solid phase extraction method. <i>Journal of Dispersion Science and Technology</i> , 2023, 44, 2093-2102.	2.4	10
99	Chitosan-Based Materials for the Removal of Nickel Ions from Aqueous Solutions. <i>Russian Journal of Physical Chemistry A</i> , 2020, 94, 748-755.	0.6	9
100	Comparing cadmium removal efficiency of a magnetized biochar based on orange peel with those of conventional orange peel and unmodified biochar. , 0, 82, 157-169.		9
101	Structural changes of waste biomass induced by alkaline treatment: the effect on crystallinity and thermal properties. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 2377-2387.	4.6	8
102	Thermally treated aluminium waste-filings, a low cost and efficient adsorbent for phosphorus removal from water. <i>Global Nest Journal</i> , 2018, 20, 488-496.	0.1	6
103	Coating of porous graphitic carbon nitride modified with titanium dioxide (OH-g-C ₃ N ₄ /TiO ₂) on Ag wire as an SPME fiber for extraction of lead. <i>Journal of Sol-Gel Science and Technology</i> , 2022, 103, 345-359.	2.4	6
104	Use of NH ₄ Cl for activation of carbon xerogel to prepare a novel efficacious adsorbent for benzene removal from contaminated air streams in a fixed-bed column. <i>Journal of Environmental Health Science & Engineering</i> , 2020, 18, 1141-1149.	3.0	5
105	Adsorption and photocatalysis compiled toxic dyes mineralization using graphitic carbon nitride modified ZnFe ₂ O ₄ and CoFe ₂ O ₄ photocatalysts supported onto N-doped graphene. , 0, 191, 381-399.		4
106	Adsorptive removal of phenol from aqueous solutions using chemically activated rice husk ash: equilibrium, kinetic, and thermodynamic studies. , 0, 158, 233-244.		3
107	Leaf Biosorbents for the Removal of Heavy Metals. <i>Environmental Chemistry for A Sustainable World</i> , 2018, , 87-126.	0.5	2
108	Synthetic Oil-Spills Decontamination by Using Sawdust and Activated Carbon from Aloe vera as Absorbents. <i>Biointerface Research in Applied Chemistry</i> , 2021, 11, 11778-11796.	1.0	2