

# Kadirvelu Krishna

## List of Publications by Year in descending order

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117  
papers

10,689  
citations

50566

48  
h-index

36203

101  
g-index

119  
all docs

119  
docs citations

119  
times ranked

12636  
citing authors

#	ARTICLE	IF	CITATIONS
1	The photometric detection and decontamination of organochlorine compound in synthetic water sample using La/ZnO/PAN nanofiber catalyst. <i>Toxin Reviews</i> , 2022, 41, 402-411.	1.5	0
2	Facile one pot "click"™ synthesis of 1,4 disubstituted-1, 2, 3-trizole derivatives catalyzed by green chemically prepared CuO nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 278, 115618.	1.7	3
3	Photocatalytic degradation of atrazine in aqueous solution using La-doped ZnO/PAN nanofibers. <i>Environmental Science and Pollution Research</i> , 2022, 29, 54282-54291.	2.7	7
4	Identifying the potential global distribution and conservation areas for Terminalia chebula, an important medicinal tree species under changing climate scenario. <i>Tropical Ecology</i> , 2022, 63, 584-595.	0.6	5
5	Advanced bio-nanoscaffold for bone tissue regeneration in animal model. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 74, 103593.	1.4	1
6	Exposure to polystyrene microplastics induced gene modulated biological responses in zebrafish ( <i>Danio rerio</i> ). <i>Chemosphere</i> , 2021, 281, 128592.	4.2	70
7	Optimization of cadmium(II) removal from water using sunflower waste carbon " a statistical approach. <i>Toxin Reviews</i> , 2021, 40, 1373-1382.	1.5	13
8	Carbon quantum dots-embedded electrospun antimicrobial and fluorescent scaffold for reepithelialization in albino wistar rats. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 637-648.	2.1	5
9	Assessment of foliar dust deposition and elemental concentrations in foliar dust and long rows of grand tamarind leaves along two major roads of Coimbatore, India. <i>Chemosphere</i> , 2021, 264, 128444.	4.2	5
10	Quercetin mitigates the deoxynivalenol mycotoxin induced apoptosis in SH-SY5Y cells by modulating the oxidative stress mediators. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 465-477.	1.8	20
11	The first PdO nanoparticle catalyzed one pot synthesis of propargylamine through A3-coupling of an aldehyde, alkyne and amine. <i>New Journal of Chemistry</i> , 2021, 45, 16271-16282.	1.4	0
12	Tunable Anticancer Activity of Furoylthiourea-Based Ru <sup>II</sup> -Arene Complexes and Their Mechanism of Action. <i>Chemistry - A European Journal</i> , 2021, 27, 7418-7433.	1.7	23
13	Paper-Based Simplified Visual Detection of Cry2Ab Insecticide from Transgenic Cottonseed Samples Using Integrated Quantum Dots-IgY Antibodies. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 4074-4080.	2.4	3
14	Cellulosimicrobium funkei strain AR6 alleviate Cr(VI) toxicity in Lycopersicon esculentum by regulating the expression of growth responsible, stress tolerant and metal transporter genes. <i>Rhizosphere</i> , 2021, 18, 100351.	1.4	12
15	Polystyrene microplastics induce apoptosis via ROS-mediated p53 signaling pathway in zebrafish. <i>Chemico-Biological Interactions</i> , 2021, 345, 109550.	1.7	75
16	Dose-Dependent Molecular Responses of <i>Labeo rohita</i> to Triphenyl Phosphate. <i>Chemical Research in Toxicology</i> , 2021, 34, 2500-2511.	1.7	10
17	Multi-Biofunctional Properties of Phytofabricated Selenium Nanoparticles From Carica papaya Fruit Extract: Antioxidant, Antimicrobial, Antimycotoxin, Anticancer, and Biocompatibility. <i>Frontiers in Microbiology</i> , 2021, 12, 769891.	1.5	12
18	Understanding the molecular mechanisms for the enhanced phytoremediation of heavy metals through plant growth promoting rhizobacteria: A review. <i>Journal of Environmental Management</i> , 2020, 254, 109779.	3.8	248

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19	Chitosan as an environment friendly biomaterial – a review on recent modifications and applications. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 1072-1083.	3.6	580
20	Exploration of Catalytic Activity of Quercetin Mediated Hydrothermally Synthesized NiO Nanoparticles Towards C–N Coupling of Nitrogen Heterocycles. <i>Catalysis Letters</i> , 2020, 150, 1628-1640.	1.4	4
21	Amelioration of chromium and heat stresses in Sorghum bicolor by Cr6+ reducing-thermotolerant plant growth promoting bacteria. <i>Chemosphere</i> , 2020, 244, 125521.	4.2	75
22	Inhibitory effect of <i>C. zeylanicum</i> , <i>C. longa</i> , <i>O. basilicum</i> , <i>Z. officinale</i> , and <i>C. martini</i> essential oils on growth and ochratoxin A content of <i>A. ochraceous</i> and <i>P. verrucosum</i> in maize grains. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020, 27, e00490.	2.1	15
23	Chemoselective transfer hydrogenation of aromatic and heterocyclic aldehydes by green chemically prepared cobalt oxide nanoparticles. <i>Molecular Catalysis</i> , 2020, 496, 111180.	1.0	2
24	Pyriproxyfen induced impairment of reproductive endocrine homeostasis and gonadal histopathology in zebrafish ( <i>Danio rerio</i> ) by altered expression of hypothalamus-pituitary-gonadal (HPG) axis genes. <i>Science of the Total Environment</i> , 2020, 735, 139496.	3.9	30
25	Bacterial cellulose matrix with in situ impregnation of silver nanoparticles via catecholic redox chemistry for third degree burn wound healing. <i>Carbohydrate Polymers</i> , 2020, 245, 116573.	5.1	57
26	Pb2+ and Cd2+ recovery from water using residual tea waste and SiO2@TW nanocomposites. <i>Chemosphere</i> , 2020, 257, 127277.	4.2	32
27	Dual role of chemically functionalized activated carbon fibres: investigation of parameters influencing the degradation of organophosphorus compounds and antibacterial behaviour. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 611-617.	1.6	6
28	Applications of Fe3O4@AC nanoparticles for dye removal from simulated wastewater. <i>Chemosphere</i> , 2019, 236, 124280.	4.2	87
29	Rare earth metal functionalized electrospun nanofiber catalyst for effective photo-decontamination of profenofos toxin. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 182-189.	2.9	6
30	Molecular Mechanism of T-2 Toxin-Induced Cerebral Edema by Aquaporin-4 Blocking and Permeation. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 4942-4958.	2.5	19
31	Biocompatible methionine-capped CdS/ZnS quantum dots for live cell nucleus imaging. <i>MRS Communications</i> , 2019, 9, 344-351.	0.8	8
32	An efficient new dual fluorescent pyrene based chemosensor for the detection of bismuth (III) and aluminium (III) ions and its applications in bio-imaging. <i>Talanta</i> , 2019, 198, 249-256.	2.9	40
33	Chemically modified electrospun nanofiber for high adsorption and effective photocatalytic decontamination of organophosphorus compounds. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 3190-3200.	1.6	10
34	Photocatalytic Degradation of a Chlorinated Organic Chemical Using Activated Carbon Fiber Coupled with Semiconductor. <i>Photochemistry and Photobiology</i> , 2019, 95, 1311-1319.	1.3	6
35	Isolation and characterization of water-deficit stress-responsive $\beta$ -expansin 1 (EXPA1) gene from <i>Saccharum complex</i> . <i>3 Biotech</i> , 2019, 9, 186.	1.1	16
36	Walnut shells: food processing waste from western Himalayan state of Himachal Pradesh as an excellent source for production of activated carbon with highly acidic surface. <i>International Journal of Environment and Waste Management</i> , 2019, 23, 274.	0.2	2

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37	Chicken immunoglobulin Y based FRET assay for TSST-1 detection and its validation onto clinical isolates. <i>Sensors and Actuators B: Chemical</i> , 2019, 291, 102-112.	4.0	2
38	Reduction of nitrocompounds in aqueous medium using electrospun MgO nanofibers. <i>Materials Research Express</i> , 2019, 6, 065020.	0.8	2
39	Sol-gel mediated synthesis of silica nanoparticle from <i>Bambusa vulgaris</i> leaves and its environmental applications: kinetics and isotherms studies. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 90, 653-664.	1.1	38
40	Photoinduced holes transfer based visual determination of dopamine in human serum. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 206, 512-519.	2.0	6
41	Preparation and characterization of mixed metal oxide ZnCo <sub>2</sub> O <sub>4</sub> spinel coated ACF for environmental remediation. <i>Materials Research Express</i> , 2019, 6, 046518.	0.8	3
42	Plant growth promoting rhizobacteria (PGPR): A potential alternative tool for nematodes bio-control. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 17, 119-128.	1.5	131
43	Reclaimable La: ZnO/PAN nanofiber catalyst for photodegradation of methyl paraoxon and its toxicological evaluation utilizing early life stages of zebra fish ( <i>Danio rerio</i> ). <i>Chemical Engineering Journal</i> , 2019, 357, 724-736.	6.6	18
44	Thymol enriched bacterial cellulose hydrogel as effective material for third degree burn wound repair. <i>International Journal of Biological Macromolecules</i> , 2019, 122, 452-460.	3.6	89
45	Cost-Effective Methods of Monitoring Pesticide Pollution in Water. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2019, , 236-256.	0.3	0
46	Biological approaches to tackle heavy metal pollution: A survey of literature. <i>Journal of Environmental Management</i> , 2018, 217, 56-70.	3.8	421
47	Structure and physiochemical properties based interaction patterns of organophosphorous pesticides with quantum dots: Experimental and theoretical studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 549, 155-163.	2.3	12
48	Comparative study on antimicrobial activity and biocompatibility of N-selective chitosan derivatives. <i>Reactive and Functional Polymers</i> , 2018, 124, 149-155.	2.0	35
49	Zearalenone induced embryo and neurotoxicity in zebrafish model ( <i>Danio rerio</i> ): Role of oxidative stress revealed by a multi biomarker study. <i>Chemosphere</i> , 2018, 198, 111-121.	4.2	113
50	Surface modification of microporous carbonaceous fiber for the growth of zinc oxide micro/nanostructures for the decontamination of malathion. <i>MRS Communications</i> , 2018, 8, 152-159.	0.8	9
51	Toxicity assessment of pyriproxyfen in vertebrate model zebrafish embryos ( <i>Danio rerio</i> ): A multi biomarker study. <i>Aquatic Toxicology</i> , 2018, 196, 132-145.	1.9	131
52	Trace level electrochemical determination of the neurotransmitter dopamine in biological samples based on iron oxide nanoparticle decorated graphene sheets. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 705-718.	3.0	70
53	Nano interface potential influences in CdTe quantum dots and biolabeling. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 285-295.	1.6	9
54	Bio-inspired synthesis of superparamagnetic iron oxide nanoparticles for enhanced in vitro anticancer therapy. <i>MRS Communications</i> , 2018, 8, 604-609.	0.8	9

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55	Comparison on Properties and Efficiency of Bacterial and Electrospun Cellulose Nanofibers. <i>Fibers and Polymers</i> , 2018, 19, 2498-2506.	1.1	8
56	Bio-production of novel water-soluble yellow pigment from <i>Aspergillus</i> sp. and exploring its sustainable textile applications. <i>3 Biotech</i> , 2018, 8, 398.	1.1	16
57	Strategies to design modified activated carbon fibers for the decontamination of water and air. <i>Environmental Chemistry Letters</i> , 2018, 16, 1137-1168.	8.3	53
58	A fluorescent dual aptasensor for the rapid and sensitive onsite detection of <i>E. coli</i> O157:H7 and its validation in various food matrices. <i>New Journal of Chemistry</i> , 2018, 42, 10807-10817.	1.4	35
59	Development and evaluation of an IgY based silica matrix immunoassay platform for rapid onsite SEB detection. <i>RSC Advances</i> , 2018, 8, 25500-25513.	1.7	8
60	Transfer hydrogenation and hydration of aromatic aldehydes and nitriles using heterogeneous NiO nanofibers as a catalyst. <i>New Journal of Chemistry</i> , 2018, 42, 15572-15577.	1.4	7
61	Photo-decontamination of p-nitrophenol using reusable lanthanum doped ZnO electrospun nanofiber catalyst. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12109-12117.	1.1	15
62	A selective Fluorescence Chemosensor: Pyrene motif Schiff base derivative for detection of Cu <sup>2+</sup> ions in living cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 424-432.	2.0	25
63	Mycotoxin zearalenone induced gonadal impairment and altered gene expression in the hypothalamic-pituitary-gonadal axis of adult female zebrafish ( <i>Danio rerio</i> ). <i>Journal of Applied Toxicology</i> , 2018, 38, 1388-1397.	1.4	22
64	Electrospun nanofibers: New generation materials for advanced applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 217, 36-48.	1.7	397
65	Biocompatible silver, gold and silver/gold alloy nanoparticles for enhanced cancer therapy: in vitro and in vivo perspectives. <i>Nanoscale</i> , 2017, 9, 16773-16790.	2.8	62
66	Highly reactive lanthanum doped zinc oxide nanofiber photocatalyst for effective decontamination of methyl parathion. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 12944-12955.	1.1	19
67	In vitro antimicrobial and in vivo wound healing effect of actinobacterially synthesised nanoparticles of silver, gold and their alloy. <i>RSC Advances</i> , 2017, 7, 51729-51743.	1.7	31
68	Enzyme free Thiol capped CdS Quantum dots based sensing method for the detection of Malathion. <i>Materials Today: Proceedings</i> , 2017, 4, 12448-12456.	0.9	3
69	Gold Modified Zeolite: An Efficient Heterogeneous Catalyst for Nitro-Arylation of Indazole. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 9093-9103.	0.9	3
70	Antifungal and Zearalenone Inhibitory Activity of <i>Pediococcus pentosaceus</i> Isolated from Dairy Products on <i>Fusarium graminearum</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 890.	1.5	73
71	Preparation, characterization and potential use of flower shaped Zinc oxide nanoparticles (ZON) for the adsorption of Victoria Blue B dye from aqueous solution. <i>Advanced Powder Technology</i> , 2016, 27, 1180-1188.	2.0	74
72	Synthesis of mesoporous metal aluminate nanoparticles and studies on the decontamination of sulfur mustard. <i>Journal of Alloys and Compounds</i> , 2016, 662, 44-53.	2.8	21

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73	Gold Nanoparticles Supported on Magnesium Oxide Nanorods for Oxidation of Alcohols. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 2517-2526.	0.9	12
74	Adsorption of heavy metals from multi-metal aqueous solution by sunflower plant biomass-based carbons. <i>International Journal of Environmental Science and Technology</i> , 2016, 13, 493-500.	1.8	76
75	Combined Effect of Sunflower Stem Carbon-Calcium Alginate Beads for the Removal and Recovery of Chromium from Contaminated Water in Column Mode. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 1419-1425.	1.8	14
76	Removal of Ni(II) from aqueous system by chemically modified sunflower biomass. <i>Desalination and Water Treatment</i> , 2014, 52, 5681-5695.	1.0	20
77	Effect of sintering temperature on structural and optical properties of indium(III) oxide nanoparticles prepared with Triton X-100 by hydrothermal method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 133, 335-339.	2.0	17
78	Chromium Removal from Aqueous System and Industrial Wastewater by Agricultural Wastes. <i>Bioremediation Journal</i> , 2013, 17, 30-39.	1.0	38
79	Cadmium(II) sorption and desorption in a fixed bed column using sunflower waste carbon calcium-alginate beads. <i>Bioresource Technology</i> , 2013, 129, 242-248.	4.8	133
80	Static and dynamic adsorption of phenol from aqueous solution using spherical carbon. , 2013, , .		2
81	Investigation of Cr(VI) adsorption onto chemically treated <i>Helianthus annuus</i> : Optimization using Response Surface Methodology. <i>Bioresource Technology</i> , 2011, 102, 600-605.	4.8	121
82	Adsorption of hexavalent chromium from aqueous medium onto carbonaceous adsorbents prepared from waste biomass. <i>Journal of Environmental Management</i> , 2010, 91, 949-957.	3.8	153
83	Chromium(VI) removal from aqueous system using <i>Helianthus annuus</i> (sunflower) stem waste. <i>Journal of Hazardous Materials</i> , 2009, 162, 365-372.	6.5	242
84	Equilibrium and kinetic studies for sequestration of Cr(VI) from simulated wastewater using sunflower waste biomass. <i>Journal of Hazardous Materials</i> , 2009, 171, 328-334.	6.5	48
85	Adsorption of Pb(II) and Cd(II) metal ions from aqueous solutions by mustard husk. <i>Journal of Hazardous Materials</i> , 2008, 150, 619-625.	6.5	109
86	Adsorptive removal of heavy metals from aqueous solution by treated sawdust ( <i>Acacia arabica</i> ). <i>Journal of Hazardous Materials</i> , 2008, 150, 604-611.	6.5	207
87	Sorption of lead, mercury and cadmium ions in multi-component system using carbon aerogel as adsorbent. <i>Journal of Hazardous Materials</i> , 2008, 153, 502-507.	6.5	122
88	Utilization of modified silk cotton hull waste as an adsorbent for the removal of textile dye (reactive) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4.8	60
89	Cadmium(II) Uptake from Aqueous Solution by Adsorption onto Carbon Aerogel Using a Response Surface Methodological Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 6531-6537.	1.8	65
90	Adsorption of Nickel from Aqueous Solution by Coir Based Adsorbent, Puresorbe. <i>Environmental Technology (United Kingdom)</i> , 2006, 27, 15-24.	1.2	5

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91	Removal of lead(II) by adsorption using treated granular activated carbon: Batch and column studies. <i>Journal of Hazardous Materials</i> , 2005, 125, 211-220.	6.5	642
92	Removal of mercury(II) from aqueous solution by adsorption on carbon aerogel: Response surface methodological approach. <i>Carbon</i> , 2005, 43, 197-200.	5.4	29
93	Investigation of adsorption of lead, mercury and nickel from aqueous solutions onto carbon aerogel. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 469-476.	1.6	62
94	A Pilot Scale Evaluation for Adsorptive Removal of Lead (II) Using Treated Granular Activated Carbon. <i>Environmental Technology (United Kingdom)</i> , 2005, 26, 489-500.	1.2	6
95	Utilization of Activated Carbon Prepared from Industrial Solid Waste for the Removal of Chromium(VI) Ions from Synthetic Solution and Industrial Effluent. <i>Adsorption Science and Technology</i> , 2005, 23, 145-160.	1.5	19
96	Activated carbon from industrial solid waste as an adsorbent for the removal of Rhodamine-B from aqueous solution: Kinetic and equilibrium studies. <i>Chemosphere</i> , 2005, 60, 1009-1017.	4.2	173
97	Mercury (II) removal from water by coconut shell based activated carbon: Batch and column studies. <i>Environmental Technology (United Kingdom)</i> , 2004, 25, 141-153.	1.2	23
98	Mercury (II) adsorption by activated carbon made from sago waste. <i>Carbon</i> , 2004, 42, 745-752.	5.4	159
99	Competitive Sorption of Cu(II), Pb(II) and Hg(II) Ions from Aqueous Solution Using Coconut Shell-Based Activated Carbon. <i>Adsorption Science and Technology</i> , 2004, 22, 257-273.	1.5	38
100	Separation of Mercury(II) from Aqueous Solution by Adsorption onto an Activated Carbon Prepared from <i>Eichhornia Crassipes</i> . <i>Adsorption Science and Technology</i> , 2004, 22, 207-222.	1.5	26
101	Utilization of various agricultural wastes for activated carbon preparation and application for the removal of dyes and metal ions from aqueous solutions. <i>Bioresource Technology</i> , 2003, 87, 129-132.	4.8	592
102	Activated carbon from coconut coirpith as metal adsorbent: adsorption of Cd(II) from aqueous solution. <i>Journal of Environmental Management</i> , 2003, 7, 471-478.	1.7	383
103	Adsorption of lead(II) from aqueous solution by activated carbon prepared from <i>Eichhornia</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 458-464.	1.6	82
104	Activated carbon prepared from biomass as adsorbent: elimination of Ni(II) from aqueous solution. <i>Bioresource Technology</i> , 2002, 81, 87-90.	4.8	102
105	Modeling the adsorption of metal ions (Cu <sup>2+</sup> , Ni <sup>2+</sup> , Pb <sup>2+</sup> ) onto ACCs using surface complexation models. <i>Applied Surface Science</i> , 2002, 196, 356-365.	3.1	134
106	Removal of metal ions from aqueous solution by adsorption onto activated carbon cloths: adsorption competition with organic matter. <i>Carbon</i> , 2002, 40, 2387-2392.	5.4	154
107	Removal of heavy metals from industrial wastewaters by adsorption onto activated carbon prepared from an agricultural solid waste. <i>Bioresource Technology</i> , 2001, 76, 63-65.	4.8	635
108	Removal of Cr(VI) from aqueous solution by adsorption onto activated carbon. <i>Bioresource Technology</i> , 2001, 80, 87-89.	4.8	496

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109	Orange peel as an adsorbent in the removal of Acid violet 17 (acid dye) from aqueous solutions. Waste Management, 2001, 21, 105-110.	3.7	518
110	Adsorption of nickel(II) from aqueous solution onto activated carbon prepared from coirpith. Separation and Purification Technology, 2001, 24, 497-505.	3.9	346
111	Activated carbon from an agricultural by-product, for the treatment of dyeing industry wastewater. Bioresource Technology, 2000, 74, 263-265.	4.8	92
112	Removal of Cu(II), Pb(II), and Ni(II) by Adsorption onto Activated Carbon Cloths. Langmuir, 2000, 16, 8404-8409.	1.6	386
113	Agricultural By-Product as Metal Adsorbent: Sorption of Lead(II) from Aqueous Solution onto Coirpith Carbon. Environmental Technology (United Kingdom), 2000, 21, 1091-1097.	1.2	138
114	Uptake of mercury (II) from wastewater by activated carbon from an unwanted agricultural solid by-product: coirpith. Carbon, 1999, 37, 79-84.	5.4	248
115	Agricultural solid wastes for the removal of heavy metals: Adsorption of Cu(II) by coirpith carbon. Chemosphere, 1997, 34, 377-399.	4.2	108
116	Activated carbons prepared from coir pith by physical and chemical activation methods. Bioresource Technology, 1997, 62, 123-127.	4.8	63
117	Coirpith, an agricultural waste by-product, for the treatment of dyeing wastewater. Bioresource Technology, 1994, 48, 79-81.	4.8	91