Kadirvelu Krishna

List of Publications by Year
in descending order

117	10,689	41344	31849
papers	citations	49	101
		h-index	g-index

119	119	119	11382
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Removal of lead(II) by adsorption using treated granular activated carbon: Batch and column studies. Journal of Hazardous Materials, 2005, 125, 211-220.	12.4	642
2	Removal of heavy metals from industrial wastewaters by adsorption onto activated carbon prepared from an agricultural solid waste. Bioresource Technology, 2001, 76, 63-65.	9.6	635
3	Utilization of various agricultural wastes for activated carbon preparation and application for the removal of dyes and metal ions from aqueous solutions. Bioresource Technology, 2003, 87, 129-132.	9.6	592
4	Chitosan as an environment friendly biomaterial â€“ a review on recent modifications and applications. International Journal of Biological Macromolecules, 2020, 150, 1072-1083.	7.5	580
5	Orange peel as an adsorbent in the removal of Acid violet 17 (acid dye) from aqueous solutions. Waste Management, 2001, 21, 105-110.	7.4	518
6	Removal of Cr(VI) from aqueous solution by adsorption onto activated carbon. Bioresource Technology, 2001, 80, 87-89.	9.6	496
7	Biological approaches to tackle heavy metal pollution: A survey of literature. Journal of Environmental Management, 2018, 217, 56-70.	7.8	421
8	Electrospun nanofibers: New generation materials for advanced applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 217, 36-48.	3.5	397
9	Removal of Cu(II), Pb(II), and Ni(II) by Adsorption onto Activated Carbon Cloths. Langmuir, 2000, 16, 8404-8409.	3.5	386
10	Activated carbon from coconut coirpith as metal adsorbent: adsorption of Cd(II) from aqueous solution. Journal of Environmental Management, 2003, 7, 471-478.	1.7	383
11	Adsorption of nickel(II) from aqueous solution onto activated carbon prepared from coirpith. Separation and Purification Technology, 2001, 24, 497-505.	7.9	346
12	Uptake of mercury (II) from wastewater by activated carbon from an unwanted agricultural solid by-product: coirpith. Carbon, 1999, 37, 79-84.	10.3	248
13	Understanding the molecular mechanisms for the enhanced phytoremediation of heavy metals through plant growth promoting rhizobacteria: A review. Journal of Environmental Management, 2020, 254, 109779.	7.8	248
14	Chromium(VI) removal from aqueous system using Helianthus annuus (sunflower) stem waste. Journal of Hazardous Materials, 2009, 162, 365-372.	12.4	242
15	Adsorptive removal of heavy metals from aqueous solution by treated sawdust (Acacia arabica). Journal of Hazardous Materials, 2008, 150, 604-611.	12.4	207
16	Activated carbon from industrial solid waste as an adsorbent for the removal of Rhodamine-B from aqueous solution: Kinetic and equilibrium studies. Chemosphere, 2005, 60, 1009-1017.	8.2	173
17	Mercury (II) adsorption by activated carbon made from sago waste. Carbon, 2004, 42, 745-752.	10.3	159
18	Removal of metal ions from aqueous solution by adsorption onto activated carbon cloths: adsorption competition with organic matter. Carbon, 2002, 40, 2387-2392.	10.3	154

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19	Adsorption of hexavalent chromium from aqueous medium onto carbonaceous adsorbents prepared from waste biomass. Journal of Environmental Management, 2010, 91, 949-957.	7.8	153
20	Agricutural By-Product as Metal Adsorbent: Sorption of Lead(II) from Aqueous Solution onto Coirpith Carbon. Environmental Technology (United Kingdom), 2000, 21, 1091-1097.	2.2	138
21	Modeling the adsorption of metal ions (Cu2+, Ni2+, Pb2+) onto ACCs using surface complexation models. Applied Surface Science, 2002, 196, 356-365.	6.1	134
22	Cadmium(II) sorption and desorption in a fixed bed column using sunflower waste carbon calciumâ€“alginate beads. Bioresource Technology, 2013, 129, 242-248.	9.6	133
23	Toxicity assessment of pyriproxyfen in vertebrate model zebrafish embryos (Danio rerio): A multi biomarker study. Aquatic Toxicology, 2018, 196, 132-145.	4.0	131
24	Plant growth promoting rhizobacteria (PGPR): A potential alternative tool for nematodes bio-control. Biocatalysis and Agricultural Biotechnology, 2019, 17, 119-128.	3.1	131
25	Sorption of lead, mercury and cadmium ions in multi-component system using carbon aerogel as adsorbent. Journal of Hazardous Materials, 2008, 153, 502-507.	12.4	122
26	Investigation of Cr(VI) adsorption onto chemically treated Helianthus annuus: Optimization using Response Surface Methodology. Bioresource Technology, 2011, 102, 600-605.	9.6	121
27	Zearalenone induced embryo and neurotoxicity in zebrafish model (Danio rerio): Role of oxidative stress revealed by a multi biomarker study. Chemosphere, 2018, 198, 111-121.	8.2	113
28	Adsorption of Pb(II) and Cd(II) metal ions from aqueous solutions by mustard husk. Journal of Hazardous Materials, 2008, 150, 619-625.	12.4	109
29	Agricultural solid wastes for the removal of heavy metals: Adsorption of Cu(II) by coirpith carbon. Chemosphere, 1997, 34, 377-399.	8.2	108
30	Activated carbon prepared from biomass as adsorbent: elimination of Ni(II) from aqueous solution. Bioresource Technology, 2002, 81, 87-90.	9.6	102
31	Activated carbon from an agricultural by-product, for the treatment of dyeing industry wastewater. Bioresource Technology, 2000, 74, 263-265.	9.6	92
32	Coirpith, an agricultural waste by-product, for the treatment of dyeing wastewater. Bioresource Technology, 1994, 48, 79-81.	9.6	91
33	Thymol enriched bacterial cellulose hydrogel as effective material for third degree burn wound repair. International Journal of Biological Macromolecules, 2019, 122, 452-460.	7.5	89
34	Applications of Fe3O4@AC nanoparticles for dye removal from simulated wastewater. Chemosphere, 2019, 236, 124280.	8.2	87
35	Adsorption of lead(II) from aqueous solution by activated carbon prepared fromEichhornia. Journal of Chemical Technology and Biotechnology, 2002, 77, 458-464.	3.2	82
36	Adsorption of heavy metals from multi-metal aqueous solution by sunflower plant biomass-based carbons. International Journal of Environmental Science and Technology, 2016, 13, 493-500.	3.5	76

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37	Amelioration of chromium and heat stresses in Sorghum bicolor by Cr6+ reducing-thermotolerant plant growth promoting bacteria. Chemosphere, 2020, 244, 125521.	8.2	75
38	Polystyrene microplastics induce apoptosis via ROS-mediated p53 signaling pathway in zebrafish. Chemico-Biological Interactions, 2021, 345, 109550.	4.0	75
39	Preparation, characterization and potential use of flower shaped Zinc oxide nanoparticles (ZON) for the adsorption of Victoria Blue B dye from aqueous solution. Advanced Powder Technology, 2016, 27, 1180-1188.	4.1	74
40	Antifungal and Zearalenone Inhibitory Activity of Pediococcus pentosaceus Isolated from Dairy Products on Fusarium graminearum. Frontiers in Microbiology, 2016, 7, 890.	3.5	73
41	Trace level electrochemical determination of the neurotransmitter dopamine in biological samples based on iron oxide nanoparticle decorated graphene sheets. Inorganic Chemistry Frontiers, 2018, 5, 705-718.	6.0	70
42	Exposure to polystyrene microplastics induced gene modulated biological responses in zebrafish (Danio rerio). Chemosphere, 2021, 281, 128592.	8.2	70
43	Cadmium(II) Uptake from Aqueous Solution by Adsorption onto Carbon Aerogel Using a Response Surface Methodological Approach. Industrial & Engineering Chemistry Research, 2006, 45, 6531-6537.	3.7	65
44	Activated carbons prepared from coir pith by physical and chemical activation methods. Bioresource Technology, 1997, 62, 123-127.	9.6	63
45	Investigation of adsorption of lead, mercury and nickel from aqueous solutions onto carbon aerogel. Journal of Chemical Technology and Biotechnology, 2005, 80, 469-476.	3.2	62
46	Biocompatible silver, gold and silver/gold alloy nanoparticles for enhanced cancer therapy: in vitro and in vivo perspectives. Nanoscale, 2017, 9, 16773-16790.	5.6	62
47	Utilization of modified silk cotton hull waste as an adsorbent for the removal of textile dye (reactive) Tj ETQq1 1 0.784314 rgBT /Over	9.6	60
48	Bacterial cellulose matrix with in situ impregnation of silver nanoparticles via catecholic redox chemistry for third degree burn wound healing. Carbohydrate Polymers, 2020, 245, 116573.	10.2	57
49	Strategies to design modified activated carbon fibers for the decontamination of water and air. Environmental Chemistry Letters, 2018, 16, 1137-1168.	16.2	53
50	Equilibrium and kinetic studies for sequestration of Cr(VI) from simulated wastewater using sunflower waste biomass. Journal of Hazardous Materials, 2009, 171, 328-334.	12.4	48
51	An efficient new dual fluorescent pyrene based chemosensor for the detection of bismuth (III) and aluminium (III) ions and its applications in bio-imaging. Talanta, 2019, 198, 249-256.	5.5	40
52	Competitive Sorption of Cu(II), Pb(II) and Hg(II) Ions from Aqueous Solution Using Coconut Shell-Based Activated Carbon. Adsorption Science and Technology, 2004, 22, 257-273.	3.2	38
53	Chromium Removal from Aqueous System and Industrial Wastewater by Agricultural Wastes. Bioremediation Journal, 2013, 17, 30-39.	2.0	38
54	Sol-gel mediated synthesis of silica nanoparticle from Bambusa vulgaris leaves and its environmental applications: kinetics and isotherms studies. Journal of Sol-Gel Science and Technology, 2019, 90, 653-664.	2.4	38

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55	Comparative study on antimicrobial activity and biocompatibility of N-selective chitosan derivatives. Reactive and Functional Polymers, 2018, 124, 149-155.	4.1	35
56	A fluorescent dual aptasensor for the rapid and sensitive onsite detection ofE. coliO157:H7 and its validation in various food matrices. New Journal of Chemistry, 2018, 42, 10807-10817.	2.8	35
57	Pb2+ and Cd2+ recovery from water using residual tea waste and SiO2@TW nanocomposites. Chemosphere, 2020, 257, 127277.	8.2	32
58	In vitro antimicrobial and in vivo wound healing effect of actinobacterially synthesised nanoparticles of silver, gold and their alloy. RSC Advances, 2017, 7, 51729-51743.	3.6	31
59	Pyriproxyfen induced impairment of reproductive endocrine homeostasis and gonadal histopathology in zebrafish (Danio rerio) by altered expression of hypothalamus-pituitary-gonadal (HPG) axis genes. Science of the Total Environment, 2020, 735, 139496.	8.0	30
60	Removal of mercury(II) from aqueous solution by adsorption on carbon aerogel: Response surface methodological approach. Carbon, 2005, 43, 197-200.	10.3	29
61	Separation of Mercury(II) from Aqueous Solution by Adsorption onto an Activated Carbon Prepared fromEichhornia Crassipes. Adsorption Science and Technology, 2004, 22, 207-222.	3.2	26
62	A selective Fluorescence Chemosensor: Pyrene motif Schiff base derivative for detection of Cu2+ ions in living cells. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 364, 424-432.	3.9	25
63	Mercury (II) removal from water by coconut shell based activated carbon: Batch and column studies. Environmental Technology (United Kingdom), 2004, 25, 141-153.	2.2	23
64	Tunable Anticancer Activity of Furoylthioureaâ€Based Ru^{II}â€“Arene Complexes and Their Mechanism of Action. Chemistry - A European Journal, 2021, 27, 7418-7433.	3.3	23
65	Mycotoxin zearalenone induced gonadal impairment and altered gene expression in the hypothalamicâ€“pituitaryâ€“gonadal axis of adult female zebrafish (<scp>Danio rerio</scp>). Journal of Applied Toxicology, 2018, 38, 1388-1397.	2.8	22
66	Synthesis of mesoporous metal aluminate nanoparticles and studies on the decontamination of sulfur mustard. Journal of Alloys and Compounds, 2016, 662, 44-53.	5.5	21
67	Removal of Ni(II) from aqueous system by chemically modified sunflower biomass. Desalination and Water Treatment, 2014, 52, 5681-5695.	1.0	20
68	Quercetin mitigates the deoxynivalenol mycotoxin induced apoptosis in SH-SY5Y cells by modulating the oxidative stress mediators. Saudi Journal of Biological Sciences, 2021, 28, 465-477.	3.8	20
69	Utilization of Activated Carbon Prepared from Industrial Solid Waste for the Removal of Chromium(VI) Ions from Synthetic Solution and Industrial Effluent. Adsorption Science and Technology, 2005, 23, 145-160.	3.2	19
70	Highly reactive lanthanum doped zinc oxide nanofiber photocatalyst for effective decontamination of methyl parathion. Journal of Materials Science: Materials in Electronics, 2017, 28, 12944-12955.	2.2	19
71	Molecular Mechanism of T-2 Toxin-Induced Cerebral Edema by Aquaporin-4 Blocking and Permeation. Journal of Chemical Information and Modeling, 2019, 59, 4942-4958.	5.4	19
72	Reclaimable La: ZnO/PAN nanofiber catalyst for photodegradation of methyl paraoxon and its toxicological evaluation utilizing early life stages of zebra fish (Danio rerio). Chemical Engineering Journal, 2019, 357, 724-736.	12.7	18

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73	Effect of sintering temperature on structural and optical properties of indium(III) oxide nanoparticles prepared with Triton X-100 by hydrothermal method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 133, 335-339.	3.9	17
74	Bio-production of novel water-soluble yellow pigment from Aspergillus sp. and exploring its sustainable textile applications. 3 Biotech, 2018, 8, 398.	2.2	16
75	Isolation and characterization of water-deficit stress-responsive Î±-expansin 1 (EXPA1) gene from Saccharum complex. 3 Biotech, 2019, 9, 186.	2.2	16
76	Photo-decontamination of p-nitrophenol using reusable lanthanum doped ZnO electrospun nanofiber catalyst. Journal of Materials Science: Materials in Electronics, 2018, 29, 12109-12117.	2.2	15
77	Inhibitory effect of C. zeylanicum, C. longa, O. basilicum, Z. officinale, and C. martini essential oils on growth and ochratoxin A content of A. ochraceous and P. verrucosum in maize grains. Biotechnology Reports (Amsterdam, Netherlands), 2020, 27, e00490.	4.4	15
78	Combined Effect of Sunflower Stem Carbonâ€“Calcium Alginate Beads for the Removal and Recovery of Chromium from Contaminated Water in Column Mode. Industrial & Engineering Chemistry Research, 2015, 54, 1419-1425.	3.7	14
79	Optimization of cadmium(II) removal from water using sunflower waste carbon â€“ a statistical approach. Toxin Reviews, 2021, 40, 1373-1382.	3.4	13
80	Gold Nanoparticles Supported on Magnesium Oxide Nanorods for Oxidation of Alcohols. Journal of Nanoscience and Nanotechnology, 2016, 16, 2517-2526.	0.9	12
81	Structure and physiochemical properties based interaction patterns of organophosphorous pesticides with quantum dots: Experimental and theoretical studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 549, 155-163.	4.7	12
82	Cellulosimicrobium funkei strain AR6 alleviate Cr(VI) toxicity in Lycopersicon esculentum by regulating the expression of growth responsible, stress tolerant and metal transporter genes. Rhizosphere, 2021, 18, 100351.	3.0	12
83	Multi-Biofunctional Properties of Phytofabricated Selenium Nanoparticles From Carica papaya Fruit Extract: Antioxidant, Antimicrobial, Antimycotoxin, Anticancer, and Biocompatibility. Frontiers in Microbiology, 2021, 12, 769891.	3.5	12
84	Chemically modified electrospun nanofiber for high adsorption and effective photocatalytic decontamination of organophosphorus compounds. Journal of Chemical Technology and Biotechnology, 2019, 94, 3190-3200.	3.2	10
85	Dose-Dependent Molecular Responses of Labeo rohita to Triphenyl Phosphate. Chemical Research in Toxicology, 2021, 34, 2500-2511.	3.3	10
86	Surface modification of microporous carbonaceous fiber for the growth of zinc oxide micro/nanostructures for the decontamination of malathion. MRS Communications, 2018, 8, 152-159.	1.8	9
87	Nano interface potential influences in CdTe quantum dots and biolabeling. Applied Nanoscience (Switzerland), 2018, 8, 285-295.	3.1	9
88	Bio-inspired synthesis of superparamagnetic iron oxide nanoparticles for enhanced in vitro anticancer therapy. MRS Communications, 2018, 8, 604-609.	1.8	9
89	Comparison on Properties and Efficiency of Bacterial and Electrospun Cellulose Nanofibers. Fibers and Polymers, 2018, 19, 2498-2506.	2.1	8
90	Development and evaluation of an IgY based silica matrix immunoassay platform for rapid onsite SEB detection. RSC Advances, 2018, 8, 25500-25513.	3.6	8

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91	Biocompatible methionine-capped CdS/ZnS quantum dots for live cell nucleus imaging. MRS Communications, 2019, 9, 344-351.	1.8	8
92	Transfer hydrogenation and hydration of aromatic aldehydes and nitriles using heterogeneous NiO nanofibers as a catalyst. New Journal of Chemistry, 2018, 42, 15572-15577.	2.8	7
93	Photocatalytic degradation of atrazine in aqueous solution using La-doped ZnO/PAN nanofibers. Environmental Science and Pollution Research, 2022, 29, 54282-54291.	5.3	7
94	A Pilot Scale Evaluation for Adsorptive Removal of Lead (II) Using Treated Granular Activated Carbon. Environmental Technology (United Kingdom), 2005, 26, 489-500.	2.2	6
95	Dual role of chemically functionalized activated carbon fibres: investigation of parameters influencing the degradation of organophosphorus compounds and antibacterial behaviour. Journal of Chemical Technology and Biotechnology, 2019, 94, 611-617.	3.2	6
96	Rare earth metal functionalized electrospun nanofiber catalyst for effective photo-decontamination of profenofos toxin. Journal of Industrial and Engineering Chemistry, 2019, 80, 182-189.	5.8	6
97	Photocatalytic Degradation of a Chlorinated Organic Chemical Using Activated Carbon Fiber Coupled with Semiconductor. Photochemistry and Photobiology, 2019, 95, 1311-1319.	2.5	6
98	Photoinduced holes transfer based visual determination of dopamine in human serum. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 206, 512-519.	3.9	6
99	Adsorption of Nickel from Aqueous Solution by Coir Based Adsorbent, Puresorbe. Environmental Technology (United Kingdom), 2006, 27, 15-24.	2.2	5
100	Carbon quantum dotsâ€embedded electrospun antimicrobial and fluorescent scaffold for reepithelialization in albino wistar rats. Journal of Biomedical Materials Research - Part A, 2021, 109, 637-648.	4.0	5
101	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. Chemosphere, 2021, 264, 128444.	8.2	5
102	Identifying the potential global distribution and conservation areas for Terminalia chebula, an important medicinal tree species under changing climate scenario. Tropical Ecology, 2022, 63, 584-595.	1.2	5
103	Exploration of Catalytic Activity of Quercetin Mediated Hydrothermally Synthesized NiO Nanoparticles Towards Câ€“N Coupling of Nitrogen Heterocycles. Catalysis Letters, 2020, 150, 1628-1640.	2.6	4
104	Gold Modified Zeolite: An Efficient Heterogeneous Catalyst for <I>N</I>-Arylation of Indazole. Journal of Nanoscience and Nanotechnology, 2016, 16, 9093-9103.	0.9	3
105	Enzyme free Thiol capped CdS Quantum dots based sensing method for the detection of Malathion. Materials Today: Proceedings, 2017, 4, 12448-12456.	1.8	3
106	Preparation and characterization of mixed metal oxide ZnCo₂O₄ spinel coated ACF for environmental remediation. Materials Research Express, 2019, 6, 046518.	1.6	3
107	Paper-Based Simplified Visual Detection of Cry2Ab Insecticide from Transgenic Cottonseed Samples Using Integrated Quantum Dotsâ€“IgY Antibodies. Journal of Agricultural and Food Chemistry, 2021, 69, 4074-4080.	5.2	3
108	Facile one pot â€˜clickâ€™ synthesis of 1,4 disubstituted-1, 2, 3-trizole derivatives catalyzed by green chemically prepared CuO nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 278, 115618.	3.5	3

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109	Static and dynamic adsorption of phenol from aqueous solution using spherical carbon. , 2013, , .		2
110	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. International Journal of Environment and Waste Management, 2019, 23, 274.	0.3	2
111	Chicken immunoglobulin Y based FRET assay for TSST-1 detection and its validation onto clinical isolates. Sensors and Actuators B: Chemical, 2019, 291, 102-112.	7.8	2
112	Reduction of nitrocompounds in aqueous medium using electrospun MgO nanofibers. Materials Research Express, 2019, 6, 065020.	1.6	2
113	Chemoselective transfer hydrogenation of aromatic and heterocyclic aldehydes by green chemically prepared cobalt oxide nanoparticles. Molecular Catalysis, 2020, 496, 111180.	2.0	2
114	Advanced bio-nanoscaffold for bone tissue regeneration in animal model. Journal of Drug Delivery Science and Technology, 2022, 74, 103593.	3.0	1
115	The first PdO nanoparticle catalyzed one pot synthesis of propargylamine through A3-coupling of an aldehyde, alkyne and amine. New Journal of Chemistry, 2021, 45, 16271-16282.	2.8	0
116	The photometric detection and decontamination of organochlorine compound in synthetic water sample using La:/ZnO/PAN nanofiber catalyst. Toxin Reviews, 2022, 41, 402-411.	3.4	0
117	Cost-Effective Methods of Monitoring Pesticide Pollution in Water. Advances in Environmental Engineering and Green Technologies Book Series, 2019, , 236-256.	0.4	0