Kadirvelu Krishna

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	Facile one pot â€~click' 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
3	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
4	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
5	Advanced bio-nanoscaffold for bone tissue regeneration in animal model. Journal of Drug Delivery Science and Technology, 2022, 74, 103593.	3.0	1
6	Exposure to polystyrene microplastics induced gene modulated biological responses in zebrafish (Danio rerio). Chemosphere, 2021, 281, 128592.	8.2	70
7	Optimization of cadmium(II) removal from water using sunflower waste carbon – a statistical approach. Toxin Reviews, 2021, 40, 1373-1382.	3.4	13
8	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
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. Chemosphere, 2021, 264, 128444.	8.2	5
10	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
11	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
12	Tunable Anticancer Activity of Furoylthioureaâ€Based Ru ^{II} –Arene Complexes and Their Mechanism of Action. Chemistry - A European Journal, 2021, 27, 7418-7433.	3.3	23
13	Paper-Based Simplified Visual Detection of Cry2Ab Insecticide from Transgenic Cottonseed Samples Using Integrated Quantum Dots–IgY Antibodies. Journal of Agricultural and Food Chemistry, 2021, 69, 4074-4080.	5.2	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. Rhizosphere, 2021, 18, 100351.	3.0	12
15	Polystyrene microplastics induce apoptosis via ROS-mediated p53 signaling pathway in zebrafish. Chemico-Biological Interactions, 2021, 345, 109550.	4.0	75
16	Dose-Dependent Molecular Responses of <i>Labeo rohita</i> to Triphenyl Phosphate. Chemical Research in Toxicology, 2021, 34, 2500-2511.	3.3	10
17	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
18	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

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19	Chitosan as an environment friendly biomaterial – a review on recent modifications and applications. International Journal of Biological Macromolecules, 2020, 150, 1072-1083.	7.5	580
20	Exploration of Catalytic Activity of Quercetin Mediated Hydrothermally Synthesized NiO Nanoparticles Towards C–N Coupling of Nitrogen Heterocycles. Catalysis Letters, 2020, 150, 1628-1640.	2.6	4
21	Amelioration of chromium and heat stresses in Sorghum bicolor by Cr6+ reducing-thermotolerant plant growth promoting bacteria. Chemosphere, 2020, 244, 125521.	8.2	75
22	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
23	Chemoselective transfer hydrogenation of aromatic and heterocyclic aldehydes by green chemically prepared cobalt oxide nanoparticles. Molecular Catalysis, 2020, 496, 111180.	2.0	2
24	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
25	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
26	Pb2+ and Cd2+ recovery from water using residual tea waste and SiO2@TW nanocomposites. Chemosphere, 2020, 257, 127277.	8.2	32
27	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
28	Applications of Fe3O4@AC nanoparticles for dye removal from simulated wastewater. Chemosphere, 2019, 236, 124280.	8.2	87
29	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
30	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
31	Biocompatible methionine-capped CdS/ZnS quantum dots for live cell nucleus imaging. MRS Communications, 2019, 9, 344-351.	1.8	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. Talanta, 2019, 198, 249-256.	5.5	40
33	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
34	Photocatalytic Degradation of a Chlorinated Organic Chemical Using Activated Carbon Fiber Coupled with Semiconductor. Photochemistry and Photobiology, 2019, 95, 1311-1319.	2.5	6
35	Isolation and characterization of water-deficit stress-responsive α-expansin 1 (EXPA1) gene from Saccharum complex. 3 Biotech, 2019, 9, 186.	2.2	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. International Journal of Environment and Waste Management, 2019, 23, 274.	0.3	2

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37	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
38	Reduction of nitrocompounds in aqueous medium using electrospun MgO nanofibers. Materials Research Express, 2019, 6, 065020.	1.6	2
39	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
40	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
41	Preparation and characterization of mixed metal oxide ZnCo ₂ O ₄ spinel coated ACF for environmental remediation. Materials Research Express, 2019, 6, 046518.	1.6	3
42	Plant growth promoting rhizobacteria (PGPR): A potential alternative tool for nematodes bio-control. Biocatalysis and Agricultural Biotechnology, 2019, 17, 119-128.	3.1	131
43	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
44	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
45	Cost-Effective Methods of Monitoring Pesticide Pollution in Water. Advances in Environmental Engineering and Green Technologies Book Series, 2019, , 236-256.	0.4	Ο
46	Biological approaches to tackle heavy metal pollution: A survey of literature. Journal of Environmental Management, 2018, 217, 56-70.	7.8	421
47	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
48	Comparative study on antimicrobial activity and biocompatibility of N-selective chitosan derivatives. Reactive and Functional Polymers, 2018, 124, 149-155.	4.1	35
49	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
50	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
51	Toxicity assessment of pyriproxyfen in vertebrate model zebrafish embryos (Danio rerio): A multi biomarker study. Aquatic Toxicology, 2018, 196, 132-145.	4.0	131
52	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
53	Nano interface potential influences in CdTe quantum dots and biolabeling. Applied Nanoscience (Switzerland), 2018, 8, 285-295.	3.1	9
54	Bio-inspired synthesis of superparamagnetic iron oxide nanoparticles for enhanced in vitro anticancer therapy. MRS Communications, 2018, 8, 604-609.	1.8	9

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55	Comparison on Properties and Efficiency of Bacterial and Electrospun Cellulose Nanofibers. Fibers and Polymers, 2018, 19, 2498-2506.	2.1	8
56	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
57	Strategies to design modified activated carbon fibers for the decontamination of water and air. Environmental Chemistry Letters, 2018, 16, 1137-1168.	16.2	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. New Journal of Chemistry, 2018, 42, 10807-10817.	2.8	35
59	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
60	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
61	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
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	Mycotoxin zearalenone induced gonadal impairment and altered gene expression in the hypothalamic–pituitary–gonadal axis of adult female zebrafish (<scp><i>Danio rerio</i></scp>). Journal of Applied Toxicology, 2018, 38, 1388-1397.	2.8	22
64	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
65	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
66	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
67	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
68	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
69	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
70	Antifungal and Zearalenone Inhibitory Activity of Pediococcus pentosaceus Isolated from Dairy Products on Fusarium graminearum. Frontiers in Microbiology, 2016, 7, 890.	3.5	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. Advanced Powder Technology, 2016, 27, 1180-1188.	4.1	74
72	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

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73	Gold Nanoparticles Supported on Magnesium Oxide Nanorods for Oxidation of Alcohols. Journal of Nanoscience and Nanotechnology, 2016, 16, 2517-2526.	0.9	12
74	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
75	Combined Effect of Sunflower Stem Carbon–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
76	Removal of Ni(II) from aqueous system by chemically modified sunflower biomass. Desalination and Water Treatment, 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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 133, 335-339.	3.9	17
78	Chromium Removal from Aqueous System and Industrial Wastewater by Agricultural Wastes. Bioremediation Journal, 2013, 17, 30-39.	2.0	38
79	Cadmium(II) sorption and desorption in a fixed bed column using sunflower waste carbon calcium–alginate beads. Bioresource Technology, 2013, 129, 242-248.	9.6	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 Helianthus annuus: Optimization using Response Surface Methodology. Bioresource Technology, 2011, 102, 600-605.	9.6	121
82	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
83	Chromium(VI) removal from aqueous system using Helianthus annuus (sunflower) stem waste. Journal of Hazardous Materials, 2009, 162, 365-372.	12.4	242
84	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
85	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
86	Adsorptive removal of heavy metals from aqueous solution by treated sawdust (Acacia arabica). Journal of Hazardous Materials, 2008, 150, 604-611.	12.4	207
87	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
88	Utilization of modified silk cotton hull waste as an adsorbent for the removal of textile dye (reactive) Tj ETQq0 0	0 rgBT /O	verlock 10 Tf
89	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

90Adsorption of Nickel from Aqueous Solution by Coir Based Adsorbent, Puresorbe. Environmental
Technology (United Kingdom), 2006, 27, 15-24.2.25

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91	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
92	Removal of mercury(II) from aqueous solution by adsorption on carbon aerogel: Response surface methodological approach. Carbon, 2005, 43, 197-200.	10.3	29
93	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
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	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
96	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
97	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
98	Mercury (II) adsorption by activated carbon made from sago waste. Carbon, 2004, 42, 745-752.	10.3	159
99	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
100	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
101	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
102	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
103	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
104	Activated carbon prepared from biomass as adsorbent: elimination of Ni(II) from aqueous solution. Bioresource Technology, 2002, 81, 87-90.	9.6	102
105	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
106	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
107	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
108	Removal of Cr(VI) from aqueous solution by adsorption onto activated carbon. Bioresource Technology, 2001, 80, 87-89.	9.6	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.	7.4	518
110	Adsorption of nickel(II) from aqueous solution onto activated carbon prepared from coirpith. Separation and Purification Technology, 2001, 24, 497-505.	7.9	346
111	Activated carbon from an agricultural by-product, for the treatment of dyeing industry wastewater. Bioresource Technology, 2000, 74, 263-265.	9.6	92
112	Removal of Cu(II), Pb(II), and Ni(II) by Adsorption onto Activated Carbon Cloths. Langmuir, 2000, 16, 8404-8409.	3.5	386
113	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
114	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
115	Agricultural solid wastes for the removal of heavy metals: Adsorption of Cu(II) by coirpith carbon. Chemosphere, 1997, 34, 377-399.	8.2	108
116	Activated carbons prepared from coir pith by physical and chemical activation methods. Bioresource Technology, 1997, 62, 123-127.	9.6	63
117	Coirpith, an agricultural waste by-product, for the treatment of dyeing wastewater. Bioresource Technology, 1994, 48, 79-81.	9.6	91