

# Kriveshini Pillay

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

2,740  
citations

147726  
31  
h-index

182361  
51  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3131  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyaniline-decorated Macadamia nutshell composite: an adsorbent for the removal of highly toxic Cr(VI) and efficient catalytic activity of the spent adsorbent for reuse. <i>Polymer Bulletin</i> , 2023, 80, 1951-1973.	1.7	5
2	Preparation of manganese oxide coated coal fly ash adsorbent for the removal of lead and reuse for latent fingerprint detection. <i>Microporous and Mesoporous Materials</i> , 2022, 329, 111480.	2.2	9
3	Photocatalytic reductive applications of C-doped ZrO <sub>2</sub> /PANI composite towards Cr(VI). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 426, 113737.	2.0	5
4	Cd <sup>2+</sup> ion adsorption and re-use of spent adsorbent with N-doped carbon nanoparticles coated on cerium oxide nanorods nanocomposite for fingerprint detection. <i>Chemical Physics Impact</i> , 2022, 5, 100083.	1.7	13
5	Recent developments in the use of metal oxides for photocatalytic degradation of pharmaceutical pollutants in water—a review. <i>Materials Today Chemistry</i> , 2021, 19, 100380.	1.7	107
6	Coal Fly Ash Decorated with Graphene Oxide—Tungsten Oxide Nanocomposite for Rapid Removal of Pb <sup>2+</sup> Ions and Reuse of Spent Adsorbent for Photocatalytic Degradation of Acetaminophen. <i>ACS Omega</i> , 2021, 6, 11155-11172.	1.6	25
7	Nanomaterials for latent fingerprint detection: a review. <i>Journal of Materials Research and Technology</i> , 2021, 12, 1856-1885.	2.6	81
8	Carbohydrate biopolymers, lignin based adsorbents for removal of heavy metals (Cd <sup>2+</sup> , Pb <sup>2+</sup> , Zn <sup>2+</sup> ) from wastewater, regeneration and reuse for spent adsorbents including latent fingerprint detection: A review. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 30, e00609.	2.1	70
9	Polyaniline nanofibers, a nanostructured conducting polymer for the remediation of Methyl orange dye from aqueous solutions in fixed-bed column studies. <i>Heliyon</i> , 2021, 7, e08180.	1.4	5
10	Comparative study of KF, KCl and KBr doped with graphitic carbon nitride for superior photocatalytic degradation of methylene blue under visible light. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6340-6355.	2.6	23
11	Self-Assembled Silver Nanoparticles Decorated on Exfoliated Graphitic Carbon Nitride/Carbon Sphere Nanocomposites as a Novel Catalyst for Catalytic Reduction of Cr(VI) to Cr(III) from Wastewater and Reuse for Photocatalytic Applications. <i>ACS Omega</i> , 2021, 6, 35221-35243.	1.6	7
12	Synthesis and characterization of fluorescent N-CDs/ZnONPs nanocomposite for latent fingerprint detection by using powder brushing method. <i>Arabian Journal of Chemistry</i> , 2020, 13, 3817-3835.	2.3	41
13	Metal nanoparticles decorated phosphorylated carbon nanotube/cyclodextrin nanosponge for trichloroethylene and Congo red dye adsorption from wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103602.	3.3	33
14	Synthesis of gold nanoparticles using <i>Crinum macowanii</i> bulb extracts and the application of these materials in blood detections at crime scenes. <i>Luminescence</i> , 2020, 35, 187-195.	1.5	7
15	Coal fly ash coated with carbon hybrid nanocomposite for remediation of cadmium (II) and photocatalytic application of the spent adsorbent for reuse. <i>Results in Materials</i> , 2020, 7, 100117.	0.9	14
16	Synthesis and characterization of fluorescent Europium (III) complex based on D-dextrose composite for latent fingerprint detection. <i>Journal of Saudi Chemical Society</i> , 2020, 24, 584-605.	2.4	15
17	Polyaniline-Coated TiO <sub>2</sub> Nanorods for Photocatalytic Degradation of Bisphenol A in Water. <i>ACS Omega</i> , 2020, 5, 29642-29656.	1.6	55
18	Dicarboxylic acid cross-linked metal ion decorated bentonite clay and chitosan for fluoride removal studies. <i>RSC Advances</i> , 2020, 10, 16791-16803.	1.7	16

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19	Spectroscopic characterization and antimicrobial activity of nanoparticle doped cyclodextrin polyurethane bionanosponge. <i>Materials Science and Engineering C</i> , 2020, 115, 111092.	3.8	19
20	Microwave assisted modified macadamia nutshells/Cu-Mn oxide composite for the removal of Pb(II) from aqueous solution. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103822.	3.3	19
21	Synthesis and characterization of CDs/Al <sub>2</sub> O <sub>3</sub> nanofibers nanocomposite for Pb <sup>2+</sup> ions adsorption and reuse for latent fingerprint detection. <i>Arabian Journal of Chemistry</i> , 2020, 13, 6762-6781.	2.3	28
22	Sulphur functionalized materials for Hg(II) adsorption: A review. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103350.	3.3	79
23	One step synthesis of AgClNPs/PANI/D-dextrose nanocomposite by interfacial polymerization method and its catalytic and photocatalytic applications. <i>Journal of Molecular Liquids</i> , 2019, 283, 6-29.	2.3	8
24	Synthesis of N-doped ZnO nanoparticles with cabbage morphology as a catalyst for the efficient photocatalytic degradation of methylene blue under UV and visible light. <i>RSC Advances</i> , 2019, 9, 7509-7535.	1.7	96
25	Fluoride Toxicity and Recent Advances in Water Defluoridation with Specific Emphasis on Nanotechnology. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 395-442.	0.3	2
26	Carboxymethyl cellulose thiol-imprinted polymers: Synthesis, characterization and selective Hg(II) adsorption. <i>Journal of Environmental Sciences</i> , 2019, 79, 280-296.	3.2	60
27	Magnetic arginine-functionalized polypyrrole with improved and selective chromium(VI) ions removal from water. <i>Journal of Molecular Liquids</i> , 2019, 275, 778-791.	2.3	79
28	Enhanced degradation of BPA in water by PANI supported Ag/TiO <sub>2</sub> nanocomposite under UV and visible light. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102880.	3.3	45
29	A novel approach of fluorescent porous graphite carbon nitride based silica gel powder for latent fingerprint detection. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 255-277.	1.6	11
30	L-cysteine doped polypyrrole (PPy@L-Cyst): A super adsorbent for the rapid removal of Hg <sup>+2</sup> and efficient catalytic activity of the spent adsorbent for reuse. <i>Chemical Engineering Journal</i> , 2018, 345, 621-630.	6.6	99
31	m-Phenylenediamine-modified polypyrrole as an efficient adsorbent for removal of highly toxic hexavalent chromium in water. <i>Materials Today Communications</i> , 2018, 15, 153-164.	0.9	31
32	Application of a Polypyrrole/Carboxy Methyl Cellulose Ion Imprinted Polymer in the Electrochemical Detection of Mercury in Water. <i>Electroanalysis</i> , 2018, 30, 2612-2619.	1.5	19
33	Removal of cobalt and lead ions from wastewater samples using an insoluble nanosponge biopolymer composite: adsorption isotherm, kinetic, thermodynamic, and regeneration studies. <i>Environmental Science and Pollution Research</i> , 2018, 25, 21752-21767.	2.7	67
34	Hydrous CeO <sub>2</sub> -Fe <sub>3</sub> O <sub>4</sub> decorated polyaniline fibers nanocomposite for effective defluoridation of drinking water. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 500-516.	5.0	52
35	Rapid high adsorption performance of hydrous cerium-magnesium oxides for removal of fluoride from water. <i>Journal of Molecular Liquids</i> , 2018, 265, 496-509.	2.3	58
36	Epichlorohydrin crosslinked carboxymethyl cellulose-ethylenediamine imprinted polymer for the selective uptake of Cr(VI). <i>International Journal of Biological Macromolecules</i> , 2017, 101, 837-844.	3.6	45

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37	Selective removal of toxic Cr(VI) from aqueous solution by adsorption combined with reduction at a magnetic nanocomposite surface. <i>Journal of Colloid and Interface Science</i> , 2017, 503, 214-228.	5.0	152
38	Nanosponge cyclodextrin polyurethanes and their modification with nanomaterials for the removal of pollutants from waste water: A review. <i>Carbohydrate Polymers</i> , 2017, 159, 94-107.	5.1	149
39	Hydrous ZrO <sub>2</sub> decorated polyaniline nanofibres: Synthesis, characterization and application as an efficient adsorbent for water defluoridation. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 342-358.	5.0	30
40	Ultrasound assisted adsorptive removal of hazardous dye Safranin O from aqueous solution using crosslinked graphene oxide-chitosan (GO CH) composite and optimization by response surface methodology (RSM) approach. <i>Carbohydrate Polymers</i> , 2017, 175, 509-517.	5.1	24
41	Competitive adsorption of ternary dye mixture using pine cone powder modified with $\beta$ -cyclodextrin. <i>Journal of Molecular Liquids</i> , 2017, 225, 679-688.	2.3	56
42	Hydrous TiO <sub>2</sub> @polypyrrole hybrid nanocomposite as an efficient selective scavenger for the defluoridation of drinking water. <i>RSC Advances</i> , 2016, 6, 99482-99495.	1.7	18
43	Rapid and efficient removal of fluoride ions from aqueous solution using a polypyrrole coated hydrous tin oxide nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2016, 476, 103-118.	5.0	55
44	Selective removal of Cr(VI) from aqueous solution by polypyrrole/2,5-diaminobenzene sulfonic acid composite. <i>Journal of Colloid and Interface Science</i> , 2016, 476, 144-157.	5.0	65
45	Electrochemical detection of Hg(II) in water using self-assembled single walled carbon nanotube-poly(m-aminobenzene sulfonic acid) on gold electrode. <i>Sensing and Bio-Sensing Research</i> , 2016, 10, 27-33.	2.2	41
46	Preparation, characterization and evaluation of fluoride adsorption efficiency from water of iron-aluminium oxide-graphene oxide composite material. <i>Chemical Engineering Journal</i> , 2016, 306, 269-279.	6.6	90
47	Development of a polyaniline-lignocellulose composite for optimal adsorption of Congo red. <i>International Journal of Biological Macromolecules</i> , 2015, 75, 199-209.	3.6	55
48	Efficient removal of Reactive Black from aqueous solution using polyaniline coated ligno-cellulose composite as a potential adsorbent. <i>Journal of Molecular Liquids</i> , 2015, 209, 387-396.	2.3	39
49	Optimization and mechanism elucidation of the catalytic photo-degradation of the dyes Eosin Yellow (EY) and Naphthol blue black (NBB) by a polyaniline-coated titanium dioxide nanocomposite. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 330-342.	10.8	87
50	Single stage batch adsorber design for efficient Eosin yellow removal by polyaniline coated ligno-cellulose. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 732-739.	3.6	37
51	Magnetic chitosan@GO nanocomposite: Synthesis, characterization and batch adsorber design for Cr(VI) removal. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 963-973.	3.3	123
52	Impact of process parameters on removal of Congo red by graphene oxide from aqueous solution. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 260-272.	3.3	66
53	Improved uptake of mercury by sulphur-containing carbon nanotubes. <i>Microchemical Journal</i> , 2013, 108, 124-130.	2.3	69
54	Multi-walled carbon nanotubes as adsorbents for the removal of parts per billion levels of hexavalent chromium from aqueous solution. <i>Journal of Hazardous Materials</i> , 2009, 166, 1067-1075.	6.5	232