

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 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 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 | L-cysteine doped polypyrrole (PPy@L-Cyst): A super adsorbent for the rapid removal of Hg ⁺² and efficient catalytic activity of the spent adsorbent for reuse. <i>Chemical Engineering Journal</i> , 2018, 345, 621-630. | 6.6 | 99 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Nanomaterials for latent fingerprint detection: a review. <i>Journal of Materials Research and Technology</i> , 2021, 12, 1856-1885. | 2.6 | 81 |
| 11 | Sulphur functionalized materials for Hg(II) adsorption: A review. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103350. | 3.3 | 79 |
| 12 | 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 |
| 13 | Carbohydrate biopolymers, lignin based adsorbents for removal of heavy metals (Cd ²⁺ , Pb ²⁺ , Zn ²⁺) 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 |
| 14 | Improved uptake of mercury by sulphur-containing carbon nanotubes. <i>Microchemical Journal</i> , 2013, 108, 124-130. | 2.3 | 69 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | Competitive adsorption of ternary dye mixture using pine cone powder modified with β -cyclodextrin. <i>Journal of Molecular Liquids</i> , 2017, 225, 679-688. | 2.3 | 56 |
| 21 | 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 |
| 22 | 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 |
| 23 | Polyaniline-Coated TiO ₂ Nanorods for Photocatalytic Degradation of Bisphenol A in Water. <i>ACS Omega</i> , 2020, 5, 29642-29656. | 1.6 | 55 |
| 24 | Hydrous CeO ₂ -Fe ₃ O ₄ 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 |
| 25 | 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 |
| 26 | Enhanced degradation of BPA in water by PANI supported Ag/TiO ₂ nanocomposite under UV and visible light. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102880. | 3.3 | 45 |
| 27 | Electrochemical detection of Hg(II) in water using self-assembled single walled carbon nanotube-poly(m-aminobenzenesulfonic acid) on gold electrode. <i>Sensing and Bio-Sensing Research</i> , 2016, 10, 27-33. | 2.2 | 41 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Hydrous ZrO ₂ 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 |
| 34 | Synthesis and characterization of CDs/Al ₂ O ₃ nanofibers nanocomposite for Pb ²⁺ ions adsorption and reuse for latent fingerprint detection. <i>Arabian Journal of Chemistry</i> , 2020, 13, 6762-6781. | 2.3 | 28 |
| 35 | Coal Fly Ash Decorated with Graphene Oxide-Tungsten Oxide Nanocomposite for Rapid Removal of Pb ²⁺ Ions and Reuse of Spent Adsorbent for Photocatalytic Degradation of Acetaminophen. <i>ACS Omega</i> , 2021, 6, 11155-11172. | 1.6 | 25 |
| 36 | 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 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Spectroscopic characterization and antimicrobial activity of nanoparticle doped cyclodextrin polyurethane bionanosponge. <i>Materials Science and Engineering C</i> , 2020, 115, 111092. | 3.8 | 19 |
| 40 | 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 |
| 41 | Hydrous TiO ₂ @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 |
| 42 | 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 |
| 43 | 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 |
| 44 | 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 |
| 45 | Cd ²⁺ 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | Photocatalytic reductive applications of C-doped ZrO ₂ /PANI composite towards Cr(VI). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 426, 113737. | 2.0 | 5 |
| 53 | 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 |
| 54 | 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 |