

Meuris Gurgel Carlos da Silva

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

1,552
citations

22
h-index

37
g-index

73
ext. papers

1,932
ext. citations

5.8
avg. IF

5.68
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 71 | Ion exchange and adsorption of cadmium from aqueous media in sodium-modified expanded vermiculite.. <i>Environmental Science and Pollution Research</i> , 2022 , | 5.1 | 1 |
| 70 | Ofloxacin degradation in chloride-containing medium by photo-assisted sonoelectrochemical process using a mixed metal oxide anode. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107174 | 6.8 | 1 |
| 69 | Adsorption of antibiotic cefazolin in organoclay fixed-bed column: characterization, mathematical modeling, and DFT-based calculations.. <i>Environmental Science and Pollution Research</i> , 2022 , 1 | 5.1 | 1 |
| 68 | Effective recovery of ytterbium through biosorption using crosslinked sericin-alginate beads: A complete continuous packed-bed column study. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126742 | 12.8 | 5 |
| 67 | Adsorption of 17 β -ethinylestradiol onto a novel nanocomposite based on graphene oxide, magnetic chitosan and organoclay (GO/mCS/OC): Kinetics, equilibrium, thermodynamics and selectivity studies. <i>Journal of Water Process Engineering</i> , 2022 , 47, 102729 | 6.7 | 3 |
| 66 | Biomass-derived adsorbents for caffeine removal from aqueous medium 2022 , 111-134 | | |
| 65 | Recovery of dysprosium by biosorption onto a biocomposite from sericin and alginate. <i>Journal of Water Process Engineering</i> , 2021 , 44, 102388 | 6.7 | 2 |
| 64 | Efficient and Selective Adsorption of Neodymium on Expanded Vermiculite. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 4962-4974 | 3.9 | 5 |
| 63 | Fixed-Bed Adsorption of Ciprofloxacin onto Bentonite Clay: Characterization, Mathematical Modeling, and DFT-Based Calculations. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 4030-4040 | 2.9 | 9 |
| 62 | Biosorption of aluminum ions from aqueous solutions using non-conventional low-cost materials: A review. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101925 | 6.7 | 13 |
| 61 | Application of alginate extraction residue for Al(III) ions biosorption: a complete batch system evaluation. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 51826-51840 | 5.1 | 0 |
| 60 | Modification of valsartan drug release by incorporation into sericin/alginate blend using experimental design methodology. <i>European Polymer Journal</i> , 2021 , 153, 110506 | 5.2 | 5 |
| 59 | Development of a natural polymeric bioadsorbent based on sericin, alginate and poly(vinyl alcohol) for the recovery of ytterbium from aqueous solutions. <i>Journal of Cleaner Production</i> , 2021 , 279, 123555 | 10.3 | 7 |
| 58 | Synthesis and characterization of furosemide-loaded sericin/alginate beads subjected to thermal or chemical cross-linking for delayed and sustained release. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 461-473 | 3.2 | 1 |
| 57 | Endocrine-disrupting compounds: Occurrence, detection methods, effects and promising treatment pathways A critical review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104558 | 6.8 | 20 |
| 56 | Equilibrium and desorption studies of the competitive binary biosorption of silver(I) and copper(II) ions on brown algae waste. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104840 | 6.8 | 14 |
| 55 | Laboratory Adsorption Studies on Ni(II) and Zn(II) Solutions by Sugarcane-Bagasse Ash. <i>Water, Air, and Soil Pollution</i> , 2021 , 232, 1 | 2.6 | 2 |

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| 54 | Equilibrium, Thermodynamic, Reuse, and Selectivity Studies for the Bioadsorption of Lanthanum onto Sericin/Alginate/Poly(vinyl alcohol) Particles. <i>Polymers</i> , 2021 , 13, | 4.5 | 6 |
| 53 | Palladium adsorption on natural polymeric sericin-alginate particles crosslinked by polyethylene glycol diglycidyl ether. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105617 | 6.8 | 9 |
| 52 | Lanthanum biosorption using sericin/alginate particles crosslinked by poly(vinyl alcohol): Kinetic, cation exchange, and desorption studies. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105551 | 6.8 | 6 |
| 51 | Latest advanced oxidative processes applied for the removal of endocrine disruptors from aqueous media [A critical report]. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105748 | 6.8 | 6 |
| 50 | Adsorption of propranolol hydrochloride from aqueous solutions onto thermally treated bentonite clay: A complete batch system evaluation. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116442 | 6 | 4 |
| 49 | Biosorption of rare-earth and toxic metals from aqueous medium using different alternative biosorbents: evaluation of metallic affinity. <i>Environmental Science and Pollution Research</i> , 2021 , 1 | 5.1 | 1 |
| 48 | Biosorption of lanthanum using sericin/alginate/polyvinyl alcohol beads as a natural cation exchanger in a continuous fixed-bed column system. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 627, 127233 | 5.1 | 6 |
| 47 | Comparative adsorption of diclofenac sodium and losartan potassium in organophilic clay-packed fixed-bed: X-ray photoelectron spectroscopy characterization, experimental tests and theoretical study on DFT-based chemical descriptors. <i>Journal of Molecular Liquids</i> , 2020 , 312, 113427 | 6 | 29 |
| 46 | Ofloxacin adsorption by calcined Verde-Iodo bentonite clay: Batch and fixed bed system evaluation. <i>Journal of Molecular Liquids</i> , 2020 , 315, 113718 | 6 | 19 |
| 45 | Removal of propranolol hydrochloride by batch biosorption using remaining biomass of alginate extraction from <i>Sargassum filipendula</i> algae. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 16599-16611 | 5.1 | 20 |
| 44 | Removal of endocrine disruptors in waters by adsorption, membrane filtration and biodegradation. A review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1113-1143 | 13.3 | 68 |
| 43 | Insight into zinc(II) biosorption on alginate extraction residue: Kinetics, isotherm and thermodynamics. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103629 | 6.8 | 12 |
| 42 | Adsorption of Gold Ions onto Sericin and Alginate Particles Chemically Crosslinked by Proanthocyanidins: a Complete Fixed-Bed Column Study. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 318-328 | 3.9 | 7 |
| 41 | Adsorption of ciprofloxacin onto thermally modified bentonite clay: Experimental design, characterization, and adsorbent regeneration. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104553 | 6.8 | 27 |
| 40 | Characterization and biosorption of silver by biomass waste from the alginate industry. <i>Journal of Cleaner Production</i> , 2020 , 271, 122588 | 10.3 | 6 |
| 39 | Crosslinked alginate/sericin particles for bioadsorption of ytterbium: Equilibrium, thermodynamic and regeneration studies. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 1911-1923 | 7.9 | 10 |
| 38 | Reuse of the alginate extraction waste from <i>Sargassum filipendula</i> for Ni(II) biosorption. <i>Chemical Engineering Communications</i> , 2020 , 207, 17-30 | 2.2 | 14 |
| 37 | Removal of toxic metals from water using chitosan-based magnetic adsorbents. A review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1145-1168 | 13.3 | 49 |

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| 36 | HPO-activated carbons produced from aabi stones and Brazil nut shells: removal of basic blue 26 dye from aqueous solutions by adsorption. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 28533-28547 | 5.1 | 16 |
| 35 | Competitive biosorption of Cu and Ag ions on brown macro-algae waste: kinetic and ion-exchange studies. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 23416-23428 | 5.1 | 21 |
| 34 | Biosorption technology for removal of toxic metals: a review of commercial biosorbents and patents. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 19097-19118 | 5.1 | 48 |
| 33 | Equilibrium study of binary mixture biosorption of Cr(III) and Zn(II) by dealginated seaweed waste: investigation of adsorption mechanisms using X-ray photoelectron spectroscopy analysis. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 28470-28480 | 5.1 | 10 |
| 32 | Fixed bed biosorption of silver and investigation of functional groups on acidified biosorbent from algae biomass. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 36354-36366 | 5.1 | 12 |
| 31 | Development of novel sericin and alginate-based biosorbents for precious metal removal from wastewater. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 28455-28469 | 5.1 | 22 |
| 30 | Adsorption of basic dyes onto activated carbon: Experimental and theoretical investigation of chemical reactivity of basic dyes using DFT-based descriptors. <i>Applied Surface Science</i> , 2018 , 448, 662-670 | 6.7 | 72 |
| 29 | Cadmium biosorption by alginate extraction waste and process overview in Life Cycle Assessment context. <i>Journal of Cleaner Production</i> , 2018 , 178, 166-175 | 10.3 | 47 |
| 28 | Investigation of the simultaneous biosorption of toxic metals through a mixture design application. <i>Journal of Cleaner Production</i> , 2018 , 200, 890-899 | 10.3 | 18 |
| 27 | Batch and Fixed Bed Biosorption of Copper by Acidified Algae Waste Biomass. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 11767-11777 | 3.9 | 22 |
| 26 | Adsorption and Recovery of Silver from Aqueous Solutions 2018 , 55-102 | | 1 |
| 25 | Development of sericin/alginate particles by ionic gelation technique for the controlled release of diclofenac sodium. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45919 | 2.9 | 26 |
| 24 | Dealginated seaweed waste for Zn(II) continuous removal from aqueous solution on fixed-bed column. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 1183-1189 | 3.5 | 13 |
| 23 | Efficiency maximization of fixed-bed adsorption by applying hybrid statistical-phenomenological modeling. <i>Separation and Purification Technology</i> , 2018 , 207, 477-488 | 8.3 | 14 |
| 22 | Bioadsorption of trivalent and hexavalent chromium from aqueous solutions by sericin-alginate particles produced from Bombyx mori cocoons. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 25967-25982 | 5.1 | 22 |
| 21 | Biosorption of toxic metals using the alginate extraction residue from the brown algae <i>Sargassum filipendula</i> as a natural ion-exchanger. <i>Journal of Cleaner Production</i> , 2017 , 165, 491-499 | 10.3 | 66 |
| 20 | Biosorption study of copper and zinc by particles produced from silk sericin /alginate blend: evaluation of blend proportion and thermal cross-linking process in particles production. <i>Journal of Cleaner Production</i> , 2016 , 137, 1470-1478 | 10.3 | 46 |
| 19 | Capacity assessment and potential for reuse of calcined Bofe bentonitic clay for adsorption of nickel. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 1457-1465 | 2.3 | 1 |

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| 18 | Comprehensive Characterization of Sugarcane Bagasse Ash for Its Use as an Adsorbent. <i>Bioenergy Research</i> , 2015 , 8, 1885-1895 | 3.1 | 33 |
| 17 | Characterization of <i>Oreochromis niloticus</i> fish scales and assessment of their potential on the adsorption of reactive blue 5G dye. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 482, 693-701 | 5.1 | 43 |
| 16 | Chromium biosorption using the residue of alginate extraction from <i>Sargassum filipendula</i> . <i>Chemical Engineering Journal</i> , 2014 , 237, 362-371 | 14.7 | 80 |
| 15 | Adsorption and desorption processes for copper removal from water using different eluents and calcined clay as adsorbent. <i>Journal of Water Process Engineering</i> , 2014 , 3, 90-97 | 6.7 | 18 |
| 14 | <i>Sargassum filipendula</i> alginate from Brazil: seasonal influence and characteristics. <i>Carbohydrate Polymers</i> , 2014 , 111, 619-23 | 10.3 | 46 |
| 13 | Modification of Sodium Bentonitic Clay Used in Zinc Ion Adsorption. <i>Materials Science Forum</i> , 2014 , 798-799, 520-525 | 0.4 | 2 |
| 12 | Biosorption of chromium by alginate extraction products from <i>Sargassum filipendula</i> : investigation of adsorption mechanisms using X-ray photoelectron spectroscopy analysis. <i>Bioresource Technology</i> , 2014 , 164, 264-9 | 11 | 64 |
| 11 | Removal of Cadmium(II) and Lead(II) ions from aqueous phase on sodic bentonite. <i>Materials Research</i> , 2013 , 16, 515-527 | 1.5 | 34 |
| 10 | Zinc adsorption in bentonite clay: influence of pH and initial concentration. <i>Acta Scientiarum - Technology</i> , 2013 , 35, | 0.5 | 12 |
| 9 | A kinetic and equilibrium study of zinc removal by Brazilian bentonite clay. <i>Materials Research</i> , 2013 , 16, 128-136 | 1.5 | 12 |
| 8 | Extraction of alginate biopolymer present in marine alga <i>sargassum filipendula</i> and bioadsorption of metallic ions. <i>Materials Research</i> , 2013 , 16, 481-488 | 1.5 | 22 |
| 7 | Characterization of Brazilian Bentonite Organoclays as sorbents of petroleum-derived fuels. <i>Materials Research</i> , 2012 , 15, 253-259 | 1.5 | 23 |
| 6 | Cu(II) adsorption on modified bentonitic clays: different isotherm behaviors in static and dynamic systems. <i>Materials Research</i> , 2012 , 15, 114-124 | 1.5 | 35 |
| 5 | Preparation and characterization of a Brazilian bentonite clay for removal of copper in porous beds. <i>Applied Clay Science</i> , 2011 , 53, 73-79 | 5.2 | 79 |
| 4 | Dynamic adsorption of chromium ions onto natural and crosslinked chitosan membranes for wastewater treatment. <i>Materials Research</i> , 2010 , 13, 89-94 | 1.5 | 10 |
| 3 | Characterization and evaluation of copper and nickel biosorption on acidic algae <i>Sargassum Filipendula</i> . <i>Materials Research</i> , 2010 , 13, 541-550 | 1.5 | 41 |
| 2 | Sorption kinetics and equilibrium for the removal of nickel ions from aqueous phase on calcined Bofe bentonite clay. <i>Journal of Hazardous Materials</i> , 2010 , 177, 362-71 | 12.8 | 133 |
| 1 | Characterization of <i>Sargassum</i> sp. from Brazil and Evaluation of Cu ²⁺ and Ni ²⁺ Biosorption. <i>Advanced Materials Research</i> , 2009 , 71-73, 589-592 | 0.5 | |

