

POSTER PRESENTATIONS

CODE	TITLE
18	Modeling the nickel adsorption equilibrium on low-cost adsorbents and activated carbon using artificial neural network
19	Synthesis of Faujasite and β -zeolite for cadmium removal in aqueous solution
20	Evaluation of sericin and alginate particles chemically crosslinked by polyvinyl alcohol for rare-earth metals removal from aqueous solutions
24	Adsorption of the antibiotic ofloxacin in calcined Verde-Iodo clay: Experimental design
25	Response surface methodology approach for optimization of dysprosium adsorption onto expanded vermiculite
27	Catalytic decomposition of hydrogen peroxide in an iron oxide nanoparticle
28	CO ₂ adsorption in 13X zeolites modified by cation exchange with alkaline earth metals
29	Equilibrium studies of europium biosorption by dead fungal biomass
30	Evaluation of tetracycline adsorption capacity in aqueous solution using conventional adsorbent and CuSO ₄ functionalized solid
31	Adsorption and peroxymonosulfate catalytic oxidation of anti-hypertensive pharmaceutical using porous structure with embedded N, S-codoped core-shell Co@C nanoparticles
32	Application of different regeneration techniques to exhausted adsorbent with tetracycline antibiotic by the adsorption process
35	Modeling and simulation of the process of biosorption of real textile effluent in sugarcane bagasse through artificial neural networks
36	Ionic Flocculation obtained from sunflower oil for the removal Methylene Blue
37	Effluent treatment contaminated by Malachite Green through ionic flocculation
39	Removal of the emerging pollutant metronidazole by adsorption
43	Evaluation of red bezaktiv dye adsorption on the LaCoO ₃ material
44	Heterogenized complexes of Ni/KIT-6 and Ni/ SBA-15: a comparative application for ethylene oligomerization
45	Effect of Ultrasound on Sulfur Adsorption in Activated Carbon Using Synthetic and Commercial Diesel

46	Kinetic study of adsorption and ionic-exchange of Cd ²⁺ ions in expanded vermiculite and sodium-treated vermiculite
48	Ammonia nitrogen removal from fish processing wastewater by adsorption using activated carbon
49	Mathematical modeling and simulation of fixed-bed adsorption column with axial particle diameter profile for removal of dilute solutions
51	Evaluation of different adsorbents and pre-treatments for boron removal from water
53	Caracterização morfológica e termodinâmica da biossorção do corante Amarelo Reafix B8G pelo bagaço de malte
54	Acetaminophen adsorption using commercial organophilic clay as adsorbent
57	Evaluation of LaNiO ₃ type materials prepared by different routes as adsorbent for dyes removal
58	Analytical solution for pore volume and surface diffusion model in batch adsorption systems
59	Study of the influence of perovskite structure site A metals on the adsorptive properties in liquid medium
63	Characterization of activated carbon macauba endocarp (<i>Acrocomia aculeata</i>) and affinity evaluation with atrazine
64	Eucalyptus Activated Carbon: characterization and evaluation of affinity with atrazine
65	Synthesis of LaFeO ₃ material for application in Congo red dye removal by adsorption
69	Concentration of betalains from beetroot in alginate beads through the adsorption operation
71	Capillary Condensation in Elliptical Pores: a study of the Effect of the Variable Curvature during the course of Adsorption by means of the Broekhoff and de Boer approach
87	Evaluation of acid activation and ultrasound effect on the adsorption potential of an agro-industrial
88	Synthesis and characterization of polyacrylamide-chitosan cryogels for adsorption of biomolecules
91	Diclofenac and Paracetamol Removal from contaminated water by adsorption onto MgAl-hydrotalcite
95	Application of artificial neural network modeling to fit the isotherm parameters of aqueous-phase adsorption systems
96	Insensitivity in the characterization of ultra-microporous carbon materials by CO ₂ adsorption
97	Study of adsorption capacity of sodium diclofenac and ibuprofen drugs using cellulose biopolymer

98	Calcined sludge from a water treatment plant as adsorbent for fluoride removal
100	Use of carbonized peanut shell as biosorbent for textile dye removal
101	Moringa Oleifera Lam Potential for Wastewater
103	Study of chemically treated dry butiá bagasse for dye adsorption
104	Adsorption of a Reactive blue BF-5G and Chocolate brown textiles dyes mixture using prepared adsorbent derived from eggshell
105	Sulfur adsorption in a fixed bed reactor of a fuel model mixture: kinetic study and modeling
106	Synthesis and characterization of Zn–Al–LDH for application in adsorption of 2–nitrophenol from aqueous solution
107	Adsorption of 2-chlorophenol using ZnCl ₂ activated biochar from brewing industry solid waste
109	Lecithin removal of vegetable oils by sucrose adsorption
110	Removal of crystal violet dye from solutions using lychee bark and seed as adsorbents
111	Biosorption using Citrus Reticulata for removal of methylene blue
113	Use of pineapple peel biochar in the removal of Cu ²⁺ ions in aqueous system: kinetics, isotherm and thermodynamics
115	Multiscale Design of a Pressure Swing Adsorption Process for Natural Gas Purification
117	Synthesis and characterization of clay-based catalysts prepared from natural clays
120	Bovine immunoglobulin G adsorption onto monolithic cryogel of polyacrylamide/alginate derivatized with IDA
121	Pb ²⁺ adsorption onto adsorbents prepared from pineapple crown and green bean pod
122	Removal Reactive Red 195 Textile Dye Using Biochar
125	Adsorption of 2-nitrophenol by calcium and nickel hidrotalcites
126	Evaluation of estimation procedures of mass transfer coefficients from batch adsorption kinetic data
128	Liquid phase adsorption of siloxane D4 on white and blue silica gel

131	Ash-based geopolymer for CO ₂ capture
132	Assessment of zeolites hydrothermal aging by adsorption microcalorimetry
133	Cu ²⁺ adsorption equilibrium and kinetic study using activated carbon prepared from corn cob as adsorbent
134	Activated charcoal material prepared from fish scales as biosorbent to an application for Rhodamine B dye adsorption
136	Analysis of Phenol Removal Capacity from Water by Adsorption on Activated Carbon
137	Evaluation of the influence of H ₂ S in the deactivation of mesoporous silicas functionalized with amino groups for CO ₂ capture
138	H ₂ S adsorption on KOH-modified commercial activated carbon
139	Study of the removal capacity of potassium diclofenac drug using the rice husk as a biosorbent alternative
141	Evaluation of different adsorbents for the purification of anthocyanins from <i>Syzygium cumini</i> L.
142	Influence of microwave radiation on characteristics of carbon composites based on resorcinol-formaldehyde resin chars filled with carbon nanotubes
143	Adsorbents based on metal-organic porous structures for small-scale energy-saturated adsorption systems
144	Recuperation of purple cabbage anthocyanin using natural and modified clays as adsorbent
145	In situ synthesis of zeolite LTA in glass fibers Al ₂ O ₃ -SiO ₂
149	Performance of CO ₂ AA and UA models in γ -alumina adsorption isotherms
150	Photocatalytic effect of Zeolite-Sodalite/TiO ₂ nanocomposite on methylene blue dye degradation
152	PSA scheduling and modeling for CH ₄ /CO ₂ separation
158	Evaluation of single and binary adsorption equilibrium of cobalt ions and methylene blue in aqueous systems onto ultrasonic modified chitin
159	Evaluation of binary adsorption of bright blue and tartrazine dyes under dynamic conditions using rice husk
161	Kinetics, equilibrium and thermodynamics of the adsorption process of oxytetracycline in rice husk ash
163	Study of atrazine removal using microspheres of alginate and pure chitosan (Al/Ch) and doped with iron and zinc

165	Mathematical modeling of paracetamol adsorption on activated carbon
168	Application of an important Brazilian agricultural residue to water decontamination: using modified sugarcane bagasse to remove Cd(II) and Pb(II) from spiked aqueous solution
170	Green synthesis of metallic nanoparticles impregnated on carbon nanotubes for glyphosate removal from aqueous matrix
172	Adsorptive Processes For Dye Removal Using Adsorbents Obtained From Alginate And Chitosan Doped With Cu ²⁺ Ions
173	CO ₂ capture by biochars produced from “açai” stones
174	Otimização Do Processo De Adsorção Na Remoção De Compostos Nitrogenados Básicos Do Petróleo Utilizando Carvão Ativado
178	Synthesis of a new adsorbent, from sugarcane bagasse, for removal of As(V) from aqueous solution: using an agricultural waste to water treatment
181	Evaluation of the fruit Terminalia catappa Linn as adsorbent of dyes present in aqueous effluents
183	H ₂ storage in modified natural clinoptilolite
184	Biosorption of anionic dye on activated surface of lemon peel: operating parameters, kinetics and isotherm studies
185	Evaluation Study Of Column Adsorptive Capacity Of Alginate And Chitosan Microspheres In The Removal Of Diclophenac Drug
187	Fixed-bed adsorption of Linear Alkylbenzene Sulfonate (LAS) by granular activated carbon
189	Adsorption of CO ₂ and CH ₄ on MIL-101: mixture prediction utilizing Tóth and IAST
192	Synthesis and addition of zeolites a, x and y in polyaspartic coating
195	Study of dye adsorption by nanostructured materials for the treatment of wastewater from the textile industry
197	Pecan nutshell activated hydrochar for methylene blue adsorption
198	Technical evaluation of activated carbon from ginger (<i>Zingiber officinale</i> Roscoe) residues as adsorbent of methyl orange dye
199	Application SouthWell Plot Method for Determining Equilibrium Time in Adsorption Processes
200	Adsorption of estradiol hormone in bone activated carbon
202	pH effect and kinetics of diclofenac sodium (DCF) adsorption in solution using activated carbon from the tucuma (<i>Astrocaryum aculeatum</i>) endocarp

203	Adsorption of Remazol Black B dye using biochar produced from gasification residues
205	Adsorptive study of indigo carmine dye by iron oxide magnetic nanoparticles
208	Furfural adsorption using a biochar obtained from the gasification of acai endocarp
210	Oil adsorption by ZIF-L: kinetics, adsorbent dosage and recyclability
212	Relationship among immersion enthalpies of adsorbents from sugarcane bagasse, their physicochemical properties and adsorption with dibenzothiophene
213	Mathematical modeling of low-pressure biogas H ₂ S removal by granular activated carbon in fixed bed column
214	Ciprofloxacin removal by biochar produced from banana pseudostem: kinetics, equilibrium and thermodynamics
215	Neural network modeling of successive Ni ²⁺ -Zn ²⁺ adsorption cycles by Sargassum filipendula in fixed bed column
217	Synthesis and characterization of the activated charcoal from the pineapple crown.
218	Characterization of Fresh and Aged Zeolites Using Different X-ray and Adsorption/Desorption Isotherm Techniques
219	Phosphorus adsorption in aqueous medium using biocarbon from cassava agricultural residue (<i>Manihot esculenta</i>)
220	Statistical study for the use of nanostructured material in the removal of dye waste from industrial effluents
224	Pilot plant for H ₂ S and CO ₂ separation from humid mixtures with CH ₄ through swing adsorption processes: concept and operation
226	Relations between Ni ²⁺ , Cu ²⁺ , and Cr ³⁺ during adsorption in multielementary solutions using activated carbon from passion fruit peel
227	Rice husk ash as a renewable source for production of zeolite Y: Thermal stability
228	Comparative Study of Characterization Properties of Activated Carbons-NaOH From Passion Fruit Seed And Tamarind Seed
230	Adsorption of a Natural Surfactant obtained from Crude Glycerin in Sandstone Reservoirs
232	Adsorptive Efficiency Study of Indosol SGFL Blue Dye on Carbonaceous Materials
233	Adsorption isotherms of food red 17 and food blue 2 on PU foam
234	BF-5G blue dye removal using NaY zeolite in finite bath

235	Effect of agitation rate on phenol adsorption using chitosan scaffold hydrogel modified with carbon nanotube
236	METHYLPHENIDATE REMOVAL USING A COMBINATION OF BIOPOLYMER, ACTIVATED CARBON AND MAGNETIC PARTICLES
237	Furfural's adsorption using activated carbon of sisal (<i>Agave sisalana</i>)
238	Characterization and application of vermiculite and smectite clays in the dye adsorption of the textile industry
239	USE OF MAGNETIC NANOPARTICLES TO REMOVE DYES PRESENTS AT WATER SOLUTIONS
241	Zeolitic Imidazolate Framework-8 (ZIF-8): pH influence and adsorption kinetics in oil removal from oil/water emulsion
242	Experimental design for adsorption isotherms discrimination
243	Use of kaolin as a potential low-cost adsorbent for the removal of reactive blue BF-5G dye
245	CO ₂ capture using high surface area activated carbon by temperature-swing adsorption
250	A framework to estimate the thermodynamic parameters on adsorption equilibria using particle swarm optimization
252	Pb ²⁺ , Cu ²⁺ and Cd ²⁺ removal from aqueous solution using graphene oxide
256	Experimental and Computational Analysis of CO ₂ , N ₂ , and CO Adsorption on Hydroxyapatite.
257	Protease immobilization onto graphene oxide via adsorption: a preliminary study
258	Estimation of the transfer free energy of POE tails and application for a spherocylindrical structure prediction for a mixture of P123 and F127 surfactants
259	Rhodamine 6G adsorption from aqueous solution using as a biosorbent the NaOH-activated aqai stalk
260	Preparation and characterization of the analytical Zeolite for Hg ²⁺ remediation in water resources
261	Adsorption kinetics of amaranth dye on organonano clay
262	Multivariate optimization of textile wastewater treatment by adsorption using blast furnace waste
263	Synthesis of Amino Silica Gel Derivative: Crystal Violet Adsorption
265	Molecular dynamics of LTA zeolite: checking force fields using X-ray diffraction patterns

270	Sururu shells as a potential biosorbent to remove rifampicin from water
271	Diffusion Model on Solid Applied to Kinetics of Dye Adsorption on Different Activated Carbons
272	Deoxygenation of oleic acid as a model compound to produce diesel-range hydrocarbons over Ni ₂ P/H-ZSM-5
274	Effect of pH on cephalexin adsorption using mesoporous silica
276	Ceramic monoliths composed with natural zeolite for the removal of contaminants in aqueous media
278	Using of textile PAN activated carbon fiber felt for Tin/Palladium adsorption from wastewater
281	Temperature Influence in the Deactivation of LTA Commercial Zeolites
283	Biobased phenolic resin: an alternative material for micropollutant removal
285	Adsorption of thiamethoxam in water and sugarcane juice by magnetic nanomodified activated carbon and determination by HPLC-DAD
290	Evaluation of C8 Aromatics Adsorption in Porous Clay Heterostructures using the Headspace Technique
293	Adsorption of carbon dioxide on CHA molecular sieve – a model to account for thermal degradation
297	A diffusional approach to the kinetics of adsorption in biomass
299	ASSESSING INTERACTIONS IN DIESEL FUEL ADSORPTIVE DESULFURIZATION OVER Ag/MCM-41 BY COMPUTATIONAL AND EXPERIMENTAL STUDIES
303	Comparative study of extraction of the bioactive lignans from seeds Piper cubeba L. by high-speed counter-current chromatography and supercritical carbon dioxide
306	Mercury adsorption from aqueous solutions using activated carbon, aerogel and carbon aerogel
314	Investigation of Natural Clinoptilolite Over the Adsorption Process of Psychotropic Drug
315	The LaMnO ₃ as adsorbent: kinetic studies and of the regeneration and reuse of adsorbent
323	Fixed-bed adsorption of Linear Alkylbenzene Sulfonate (LAS) by granular activated carbon
329	Adsorptive process application using eggshell as biosorbent for textile dye removal: kinetic and equilibrium study
331	Use of in natura eggshell as a biosorbent for the removal of textile dyes

332	Study of catalytic pyrolysis of low-density polyethylene (LDPE) on HY zeolite containing niobium
334	Development of a biosorbent from coconut fiber biorefinery for removing Rhodamine B from textile wastewater
335	Synthesis and characterization of an unprecedented sugarcane bagasse cellulose ester: investigation of its environmental applicability to remove Cd(II) and Pb(II) by adsorption
337	Phenomenological and neural network modeling of successive Ni ²⁺ desorption cycles with eluent recycle
338	Kinetic and equilibrium studies of Ni-OEP adsorption on coconut shell activated carbon
339	Synthesis and characterization of adsorbents from lignocellulosic residues in the removal of different contaminants
340	Kinetic Modeling of the Adsorption Process Using Different Biomass
341	Experimental design and optimization of Ni-OEP adsorption and desorption processes on coconut shell activated carbon
342	Synthesis of molecularly imprinted polymer for recovery of 5-hydroxymethyl-2-furfuraldehyde in hemicellulosic hydrolysate
343	Adsorption of caffeine using steel wastes composed of magnetite
344	Adsorption of Ethidium Bromide from Aqueous and Whey Solutions by Activated Carbon and Natural Pumice Stone
346	Influence of Residence Time and Temperature of Pyrolysis on the Production of Biochar from Sewage Sludge
347	Synthesis and Characterization of SAPO-18 and MeAPSO-18 Molecular Sieves: Effect of the Chemical Composition on the Acidity
348	Statistical analysis of parameters and adsorption isotherms models
349	Influence of temperature of pyrolysis and activation conditions on the adsorption of ammonia nitrogen onto orange peel biochar
350	Ammonium removal from aqueous solution by activated orange peel biochar: kinetic, isotherm and thermodynamic analysis
351	Adsorption calorimetry as a tool for the characterization of catalysts used in CO ₂ conversion
352	Synthesis and characterization of the modified HZSM-5 zeolite by alkaline treatment
355	Uranium biosorption by hydroxyapatite and bone meal
359	Efficient adsorbents of pollutants based on inorganic-organic sepiolite systems