

# Maria AngÃ©lica S D Barros

## List of Publications by Year in descending order

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41  
papers

946  
citations

471509

17  
h-index

477307

29  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1131  
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative study for the ion exchange of Fe(III) and Zn(II) on zeolite NaY. Journal of Hazardous Materials, 2009, 161, 1404-1412.	12.4	124
2	Chitosan, alginate and other macromolecules as activated carbon immobilizing agents: A review on composite adsorbents for the removal of water contaminants. International Journal of Biological Macromolecules, 2020, 164, 2535-2549.	7.5	93
3	Removal of Cr(III) in the fixed bed column and batch reactors using as adsorbent zeolite NaX. Chemical Engineering Science, 2004, 59, 5959-5966.	3.8	73
4	Effect of solution pH and influence of water hardness on caffeine adsorption onto activated carbons. Canadian Journal of Chemical Engineering, 2015, 93, 68-77.	1.7	56
5	Cleaner production of antimicrobial and anti-UV cotton materials through dyeing with eucalyptus leaves extract. Journal of Cleaner Production, 2018, 199, 807-816.	9.3	51
6	Activated hydrochar produced from brewer's spent grain and its application in the removal of acetaminophen. Bioresource Technology, 2020, 310, 123399.	9.6	50
7	Effect of Solution pH on the Removal of Paracetamol by Activated Carbon of Dende Coconut Mesocarp. Chemical and Biochemical Engineering Quarterly, 0, 29, 47-53.	0.9	45
8	Thermodynamics of the Exchange Processes between $K^{+}$ , $Ca^{2+}$ and $Cr^{3+}$ in Zeolite NaA. Adsorption, 2004, 10, 227-235.	3.0	39
9	Preparation and characterization of calcium treated bentonite clay and its application for the removal of lead and cadmium ions: Adsorption and thermodynamic modeling. Chemical Engineering Research and Design, 2017, 111, 244-252.	5.6	37
10	Acetaminophen removal by calcium alginate/activated hydrochar composite beads: Batch and fixed-bed studies. International Journal of Biological Macromolecules, 2022, 203, 553-562.	7.5	32
11	Cationization of cotton with ovalbumin to improve dyeing of modified cotton with cochineal natural dye. Textile Research Journal, 2020, 90, 1805-1822.	2.2	25
12	Evaluation of novel activated carbons from chichĩ-do-cerrado (Sterculia striata St. Hil. et Naud) fruit shells on metformin adsorption and treatment of a synthetic mixture. Journal of Environmental Chemical Engineering, 2021, 9, 104914.	6.7	23
13	Chromium uptake from tricomponent solution in zeolite fixed bed. Adsorption, 2006, 12, 239-248.	3.0	21
14	Mass Transfer Mechanism of Ion Exchange in Fixed Bed Columns. Journal of Chemical & Engineering Data, 2011, 56, 375-382.	1.9	20
15	Study of $Pb^{2+}$ adsorption in a packed bed column of bentonite using CFD. Applied Clay Science, 2015, 104, 48-58.	5.2	20
16	Kinetics and thermodynamics studies of silver ions adsorption onto coconut shell activated carbon. Environmental Technology (United Kingdom), 2016, 37, 3087-3093.	2.2	20
17	Biosorption mechanisms of cationic and anionic dyes in a low-cost residue from brewer's spent grain. Environmental Technology (United Kingdom), 2021, 42, 2925-2940.	2.2	19
18	Caffeine removal by chitosan/activated carbon composite beads: Adsorption in tap water and synthetic hospital wastewater. Chemical Engineering Research and Design, 2022, 184, 1-12.	5.6	18

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19	Ecofriendly dyeing of silk with extract of yerba mate ( <i>Ilex paraguariensis</i> ). Textile Research Journal, 2017, 87, 829-837.	2.2	17
20	Adsorption and desorption cycles of reactive blue BF-5G dye in a bone char fixed-bed column. Environmental Science and Pollution Research, 2019, 26, 28500-28509.	5.3	17
21	Zinc adsorption in bentonite clay: influence of pH and initial concentration. Acta Scientiarum - Technology, 2013, 35, .	0.4	16
22	CO <sub>2</sub> adsorption in hydrochar produced from waste biomass. SN Applied Sciences, 2019, 1, 1.	2.9	16
23	Chromium adsorption in olive stone activated carbon. Adsorption, 2006, 12, 155-162.	3.0	14
24	A kinetic and equilibrium study of zinc removal by Brazilian bentonite clay. Materials Research, 2013, 16, 128-136.	1.3	14
25	Study of dye desorption mechanism of bone char utilizing different regenerating agents. SN Applied Sciences, 2020, 2, 1.	2.9	14
26	Adsorption of Reactive Blue 5G Dye by Activated Carbon and Pyrolyzed Shale Oil Residue. Adsorption Science and Technology, 2007, 25, 741-749.	3.2	12
27	Multi-component adsorption study by using bone char: modelling and removal mechanisms. Environmental Technology (United Kingdom), 2022, 43, 789-804.	2.2	11
28	Synthesis of hydrochars derived from industrial laundry sludge and its application in the removal of cationic dye. Journal of Water Process Engineering, 2021, 40, 101999.	5.6	8
29	Study of wool dyeing with natural dye extracted from chamomile flowers. Journal of Natural Fibers, 2020, 17, 271-283.	3.1	7
30	The Removal of Fe(III) Ions by Adsorption onto Zeolite Columns. Adsorption Science and Technology, 2007, 25, 757-768.	3.2	6
31	ADSORPTION OF THE DYE REACTIVE BLUE 5G IN RETORTED SHALE. Brazilian Journal of Chemical Engineering, 2015, 32, 269-281.	1.3	6
32	Competing Ion Exchange of Zn <sup>2+</sup> and Fe <sup>3+</sup> in NaY Zeolite. Adsorption Science and Technology, 2012, 30, 275-291.	3.2	5
33	Determination of the maximum retention of cobalt by ion exchange in h-zeolites. Brazilian Journal of Chemical Engineering, 2012, 29, 385-392.	1.3	5
34	Experimental and modelling studies of ion exchange equilibria between zeolite NaY and an electrolytic solution of iron. Fluid Phase Equilibria, 2014, 372, 76-84.	2.5	5
35	Linear Driving Force Model in Carbon Dioxide Capture by Adsorption. Applied Mechanics and Materials, 0, 830, 38-45.	0.2	4
36	Comparative Study of Dyeing with Cochineal Dye in Cationized Cotton with Various Proteins. Journal of Natural Fibers, 2022, 19, 4263-4275.	3.1	2

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37	Estudo da remoção do $\text{Fe (II)}$ em colunas de leito fixo, utilizando-se a Zeólita NaY. Acta Scientiarum - Technology, 2011, 33, .	0.4	1
38	<b>Evaluation of NaX and NaY packed beds for chromium uptake from multicomponent solution<b>. Acta Scientiarum - Technology, 2014, 36, 279.	0.4	0
39	FUNCCIONALIZAÇfO fCIDA DE CARVfO ATIVADO DE DENDf NA REMOÇfO DE PARACETAMOL. , 0, , .		0
40	Estudo da cinética de remoção de Manganês utilizando carvão ativado impregnado com fido de Manganês. Brazilian Journal of Development, 2019, 5, 22239-22244.	0.1	0
41	OtimizaçfO da produçfO de biochar a partir de casca de tingui / Optimization of biochar production from tingui bark. Brazilian Journal of Development, 2022, 8, 9602-9615.	0.1	0