

# Adriano da Silva

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7268488/publications.pdf>

Version: 2024-02-01

44  
papers

766  
citations

430874

18  
h-index

552781

26  
g-index

44  
all docs

44  
docs citations

44  
times ranked

898  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of the effects of flow channel with non-uniform cross-sectional area on PEMFC species and heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 4462-4472.	4.8	52
2	Low-cost iron-doped catalyst for phenol degradation by heterogeneous Fenton. <i>Journal of Hazardous Materials</i> , 2018, 359, 96-103.	12.4	41
3	Numerical investigation of several physical and geometric parameters in the natural convection into trapezoidal cavities. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 6808-6818.	4.8	39
4	Separation of anthocyanins extracted from red cabbage by adsorption onto chitosan films. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 905-911.	7.5	38
5	The influence of electronic, steric and hydrophobic properties of flavonoid compounds in the inhibition of the xanthine oxidase. <i>Computational and Theoretical Chemistry</i> , 2004, 684, 1-7.	1.5	37
6	Evaluation of the technical and environmental feasibility of adsorption process to remove water soluble organics from produced water: A review. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109360.	4.2	36
7	Natural convection in a partially open square cavity with internal heat source: An analysis of the opening mass flow. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 1369-1386.	4.8	34
8	Production of antimicrobial textiles by cotton fabric functionalization and pectinolytic enzyme immobilization. <i>Materials Chemistry and Physics</i> , 2018, 208, 28-34.	4.0	34
9	Benzene and toluene removal from synthetic automotive gasoline by mono and bicomponent adsorption process. <i>Fuel</i> , 2018, 231, 45-52.	6.4	34
10	Biodegradation of BTEX compounds in a biofilm reactor—Modeling and simulation. <i>Journal of Petroleum Science and Engineering</i> , 2010, 70, 131-139.	4.2	33
11	Oilfield produced water treatment by liquid-liquid extraction: A review. <i>Journal of Petroleum Science and Engineering</i> , 2021, 199, 108282.	4.2	32
12	Adsorption and desorption of water-soluble naphthenic acid in simulated offshore oilfield produced water. <i>Chemical Engineering Research and Design</i> , 2021, 145, 262-272.	5.6	30
13	Three-dimensional analysis of natural convection in a partially-open cavity with internal heat source. <i>International Journal of Heat and Mass Transfer</i> , 2013, 61, 525-542.	4.8	27
14	Application of polyurethane foam chitosan-coated as a low-cost adsorbent in the effluent treatment. <i>Journal of Water Process Engineering</i> , 2017, 20, 201-206.	5.6	26
15	Removal of Mono- and Multicomponent BTX Compounds from Effluents Using Activated Carbon from Coconut Shell as the Adsorbent. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 6461-6469.	3.7	24
16	Natural Convection: Analysis of Partially Open Enclosures With an Internal Heated Source. <i>Numerical Heat Transfer; Part A: Applications</i> , 2007, 52, 595-619.	2.1	22
17	The Influence of Baffles on the Natural Convection in Trapezoidal Cavities. <i>Numerical Heat Transfer; Part A: Applications</i> , 2010, 58, 125-145.	2.1	21
18	Numerical analysis of mixed convection in partially open cavities heated from below. <i>International Journal of Heat and Mass Transfer</i> , 2015, 81, 829-845.	4.8	19

#	ARTICLE	IF	CITATIONS
19	Modification of PVDF hydrophobic microfiltration membrane with a layer of electrospun fibers of PVP-co-PMMA: Increased fouling resistance. <i>Chemical Engineering Research and Design</i> , 2021, 171, 268-276.	5.6	18
20	The use of oilfield gaseous byproducts as extractants of recalcitrant naphthenic acids from synthetic produced water. <i>Separation and Purification Technology</i> , 2020, 248, 117123.	7.9	18
21	Water Reuse and Wastewater Minimization in Chemical Industries Using Differentiated Regeneration of Contaminants. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 7428-7436.	3.7	17
22	Application of FeCl <sub>3</sub> and TiO <sub>2</sub> -coated algae as innovative biophotocatalysts for Cr(VI) removal from aqueous solution: A process intensification strategy. <i>Journal of Cleaner Production</i> , 2020, 268, 122164.	9.3	16
23	Biodegradation of BTEX compounds from petrochemical wastewater: Kinetic and toxicity. <i>Journal of Water Process Engineering</i> , 2019, 32, 100914.	5.6	14
24	Enhanced textile wastewater treatment by a novel biofilm carrier with adsorbed nutrients. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 24, 101527.	3.1	13
25	Perovskite-based Ca-Ni-Fe oxides for azo pollutants fast abatement through dark catalysis. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119747.	20.2	13
26	Treatment of real oilfield produced water by liquid-liquid extraction and efficient phase separation in a mixer-settler based on phase inversion. <i>Chemical Engineering Journal</i> , 2021, 417, 127926.	12.7	12
27	Evaluation of petroleum as extractor fluid in liquid-liquid extraction to reduce the oil and grease content of oilfield produced water. <i>Chemical Engineering Research and Design</i> , 2022, 161, 263-272.	5.6	12
28	Numerical study of n-pentane separation using adsorption column. <i>Brazilian Archives of Biology and Technology</i> , 2005, 48, 267-274.	0.5	9
29	Sensitivity of the turbulent Schmidt number and the turbulence models to simulate catalytic and photocatalytic processes with surface reaction limited by mass transfer. <i>Chemical Engineering Research and Design</i> , 2021, 170, 90-106.	5.6	8
30	Hot Air Drying Characteristics of Soybeans and Influence of Temperature and Velocity on Kinetic Parameters. <i>Journal of Food Process Engineering</i> , 2014, 37, 619-627.	2.9	7
31	Multivariate calibration as a tool for resolution of color from mandarin peel and dyes in aqueous solution for bioadsorption studies. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104605.	6.7	7
32	Statistical Evaluation of Biochemical Kinetic Models for BTX Degradation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 19416-19425.	3.7	6
33	Dispersion of odorants in natural gas distribution networks. <i>Heat and Mass Transfer</i> , 2018, 54, 2827-2834.	2.1	6
34	Fitting semi-empirical drying models using a tool based on wavelet neural networks: Modeling a maize drying process. <i>Journal of Food Process Engineering</i> , 2018, 41, e12633.	2.9	3
35	3D interface analysis of velocity, volume ratio, and Reynolds number effects on core annular flow (CAF). <i>Experimental and Computational Multiphase Flow</i> , 2022, 4, 133-141.	3.9	3
36	Avaliação da produção de biogás de dejetos de suínos utilizando a metodologia de superfície de resposta. <i>Engenharia Sanitaria E Ambiental</i> , 2015, 20, 209-217.	0.5	2

#	ARTICLE	IF	CITATIONS
37	Influence of permeability and pressure on the dye concentration profile in acrylic yarn bobbins in bidirectional flow by simulation. Brazilian Journal of Chemical Engineering, 2020, 37, 515-524.	1.3	2
38	Influência de parâmetros de processo na obtenção de bebida fermento-destilada de uva-japão (Hovenia) Tj ETQq0 0 0 rBT /Over	0.8	1
39	Numerical Study of Natural Convection in a Partially Open Environment With a Heat Generating Source. , 2006, , 665.		0
40	Uso da Metodologia de Superfície de Resposta (RSM) na descoloração do corante Preto Reativo 5 pela levedura Candida infanticola UFSJ 6A isolada de efluente têxtil. BBR - Biochemistry and Biotechnology Reports, 2013, 2, 51.	0.0	0
41	ESTUDO DA DEGRADAÇÃO DE COMPOSTOS FENÓLICOS PRESENTE EM ÁGUAS RESIDUÁRIAS DE POSTOS DE COMBUSTÍVEIS UTILIZANDO FUNGOS FILAMENTOSOS (Aspergillus flavus). Revista Eletrônica Em Gestão Educaçã E Tecnologia Ambiental, 2014, 18, .	0.0	0
42	ANÁLISE ESTATÍSTICA PARAMÉTRICA DE FATORES DE OPERAÇÃO NO PROCESSO DE FERMENTAÇÃO PARA OBTENÇÃO DE CACHAÇA. Brazilian Journal of Food Research, 2016, 7, 1.	0.0	0
43	Ferramentas Computacionais como Recurso Didático no Curso de Engenharia Química. Revista Eletrônica Engenharia Viva, 2017, 4, 29.	0.0	0
44	ANÁLISE DO POTENCIAL BIOCATALÍTICO DE LIPASE DE CANDIDA RUGOSA IMOBILIZADA EM DIFERENTES SUÍPORTES. Revista Acta Ambiental Catarinense, 2020, 18, 10-23.	0.1	0