Lucas Meili

List of Publications by Year
in descending order

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95 papers	2,106 citations	236925 25 h-index	276875 41 g-index
99 all docs	99 docs citations	99 times ranked	1596 citing authors

#	Article	IF	Citations
1	MgAl-LDH/Biochar composites for methylene blue removal by adsorption. Applied Clay Science, 2019, 168, 11-20.	5.2	186
2	Adsorption of methylene blue on agroindustrial wastes: Experimental investigation and phenomenological modelling. Progress in Biophysics and Molecular Biology, 2019, 141, 60-71.	2.9	130
3	Application of spouted bed elutriation in the recycling of lithium ion batteries. Journal of Power Sources, 2015, 275, 627-632.	7.8	96
4	Sewage sludge-derived biochar for the adsorptive removal of wastewater pollutants: A critical review. Environmental Pollution, 2022, 293, 118581.	7.5	94
5	Layered double hydroxides/biochar composites as adsorbents for water remediation applications: recent trends and perspectives. Journal of Cleaner Production, 2021, 284, 124755.	9.3	68
6	Adsorption of anti-inflammatory drug diclofenac by MgAl/layered double hydroxide supported on Syagrus coronata biochar. Powder Technology, 2020, 364, 229-240.	4.2	66
7	Sorption as a rapidly response for oil spill accidents: A material and mechanistic approach. Journal of Hazardous Materials, 2021, 407, 124842.	12.4	64
8	Evaluation of caffeine adsorption by MgAl-LDH/biochar composite. Environmental Science and Pollution Research, 2019, 26, 31804-31811.	5.3	61
9	Wodyetia bifurcata biochar for methylene blue removal from aqueous matrix. Bioresource Technology, 2019, 293, 122093.	9.6	61
10	Adsorption of a non-steroidal anti-inflammatory drug onto MgAl/LDH-activated carbon composite â€“ Experimental investigation and statistical physics modeling. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124217.	4.7	51
11	Potential of Cedrella fissilis bark as an adsorbent for the removal of red 97 dye from aqueous effluents. Environmental Science and Pollution Research, 2019, 26, 19207-19219.	5.3	50
12	Removal of Tannery Dye from Aqueous Solution Using Papaya Seed as an Efficient Natural Biosorbent. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	46
13	Convective drying of papaya seeds (Carica papaya L.) and optimization of oil extraction. Industrial Crops and Products, 2016, 85, 221-228.	5.2	46
14	Use of papaya seeds as a biosorbent of methylene blue from aqueous solution. Water Science and Technology, 2013, 68, 441-447.	2.5	40
15	Electrochemical degradation and toxicity evaluation of reactive dyes mixture and real textile effluent over DSAÂ® electrodes. Chemical Engineering and Processing: Process Intensification, 2020, 153, 107940.	3.6	38
16	RSM-CCD optimization approach for the adsorptive removal of Eriochrome Black T from aqueous system using steel slag-based adsorbent: Characterization, Isotherm, Kinetic modeling and thermodynamic analysis. Journal of Molecular Liquids, 2021, 339, 116714.	4.9	37
17	Spouted bed drying of papaya seeds for oil production. LWT - Food Science and Technology, 2016, 65, 852-860.	5.2	35
18	Saturated activated carbon regeneration by UV-light, H2O2 and Fenton reaction. Separation and Purification Technology, 2020, 250, 117112.	7.9	35

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19	Caffeine removal using Elaeis guineensis activated carbon: adsorption and RSM studies. Environmental Science and Pollution Research, 2020, 27, 27048-27060.	5.3	34
20	Mg-Fe layered double hydroxide with chloride intercalated: synthesis, characterization and application for efficient nitrate removal. Environmental Science and Pollution Research, 2020, 27, 5890-5900.	5.3	33
21	Comparative adsorption of Eriochrome Black T and Tetracycline by NaOH-modified steel dust: Kinetic and process modeling. Separation and Purification Technology, 2022, 287, 120559.	7.9	33
22	Adsorptive potential of Znâ€“Al and Mgâ€“Fe layered double hydroxides for the removal of 2â€“nitrophenol from aqueous solutions. Journal of Environmental Chemical Engineering, 2020, 8, 103913.	6.7	32
23	Syagrus oleraceaâ€“activated carbon prepared by vacuum pyrolysis for methylene blue adsorption. Environmental Science and Pollution Research, 2019, 26, 16470-16481.	5.3	31
24	Calcined Mytella falcata shells as alternative adsorbent for efficient removal of rifampicin antibiotic from aqueous solutions. Journal of Environmental Chemical Engineering, 2020, 8, 103782.	6.7	28
25	Efficient adsorption of dyes by Î³-alumina synthesized from aluminum wastes: Kinetics, isotherms, thermodynamics and toxicity assessment. Journal of Environmental Chemical Engineering, 2021, 9, 106198.	6.7	28
26	Adsorption of leather dye onto activated carbon prepared from bottle gourd: equilibrium, kinetic and mechanism studies. Water Science and Technology, 2013, 67, 201-209.	2.5	27
27	Ouricuri (Syagrus coronata) fiber: a novel biosorbent to remove methylene blue from aqueous solutions. Water Science and Technology, 2017, 75, 106-114.	2.5	27
28	Different routes for MgFe/LDH synthesis and application to remove pollutants of emerging concern. Separation and Purification Technology, 2021, 264, 118353.	7.9	27
29	Catalytic deoxygenation of palm oil and its residue in green diesel production: A current technological review. Chemical Engineering Research and Design, 2021, 174, 158-187.	5.6	27
30	Effect of Drying on the Fabrication of MgAl Layered Double Hydroxides. ACS Omega, 2021, 6, 21819-21829.	3.5	26
31	Ultrafast diesel oil spill removal by fibers from silk-cotton tree: Characterization and sorption potential evaluation. Journal of Cleaner Production, 2020, 263, 121448.	9.3	25
32	Biodiesel production from Sterculia striata oil by ethyl transesterification method. Industrial Crops and Products, 2015, 74, 767-772.	5.2	24
33	Kinetics, isotherm, and thermodynamic studies of methylene blue adsorption from water by Mytella falcata waste. Environmental Science and Pollution Research, 2017, 24, 19927-19937.	5.3	24
34	Fluid Dynamics of Fluidized and Vibrofluidized Beds Operating with Geldart C Particles. Chemical Engineering and Technology, 2012, 35, 1649-1656.	1.5	23
35	Comparison between Brazilian agro-wastes and activated carbon as adsorbents to remove Ni(II) from aqueous solutions. Water Science and Technology, 2016, 73, 2713-2721.	2.5	22
36	Cassava (Manihot esculenta Crantz) stump biochar: Physical/chemical characteristics and dye affinity. Chemical Engineering Communications, 2019, 206, 829-841.	2.6	22

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37	Regeneration of activated carbon adsorbent by anodic and cathodic electrochemical process. Chemical Engineering Research and Design, 2022, 159, 1150-1163.	5.6	22
38	Electrochemical degradation of 17-Î±-Methyltestosterone over DSAÂ® electrodes. Chemical Engineering and Processing: Process Intensification, 2019, 142, 107548.	3.6	21
39	Stirring and mixing in ethylic biodiesel production. Journal of King Saud University - Science, 2020, 32, 54-59.	3.5	21
40	COVID-19 pandemic in Uttarakhand, India: Environmental recovery or degradation?. Journal of Environmental Chemical Engineering, 2021, 9, 106595.	6.7	21
41	Lanthanum hydroxide engineered sewage sludge biochar for efficient phosphate elimination: Mechanism interpretation using physical modelling. Science of the Total Environment, 2022, 803, 149888.	8.0	20
42	Waste of Mytella Falcata shells for removal of a triarylmethane biocide from water: Kinetic, equilibrium, regeneration and thermodynamic studies. Colloids and Surfaces B: Biointerfaces, 2020, 195, 111230.	5.0	19
43	Removal of Reactive Dyes from Aqueous Solution by Fenton Reaction: Kinetic Study and Phytotoxicity Tests. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	18
44	Analysis of the Influence of Dimensionless Vibration Number on the Drying of Pastes in Vibrofluidized Beds. Drying Technology, 2010, 28, 402-411.	3.1	16
45	Comparing Electrochemical and Fenton-Based Processes for Aquaculture Biocide Degradation. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	16
46	Fenton-based processes for the regeneration of biochar from Syagrus coronata biomass used as dye adsorbent. , 0, 162, 391-398.		16
47	Mixed metal oxides derived from layered double hydroxide as catalysts for biodiesel production. Applied Catalysis A: General, 2022, 630, 118470.	4.3	15
48	Electrochemical process and Fenton reaction followed by lamellar settler to oil/surfactant effluent degradation. Journal of Water Process Engineering, 2019, 31, 100841.	5.6	14
49	Artificial neural networks to model kinetics and energy efficiency in fixed, fluidized and vibro-fluidized bed dryers towards process optimization. Chemical Engineering and Processing: Process Intensification, 2020, 156, 108089.	3.6	14
50	Production of magnetic biochar-steel dust composites for enhanced phosphate adsorption. Journal of Water Process Engineering, 2022, 47, 102793.	5.6	14
51	Analyzing the universality of the dimensionless vibrating number based on the effective moisture diffusivity and its impact on specific energy consumption. Heat and Mass Transfer, 2020, 56, 1659-1672.	2.1	12
52	Volcanic ashe and its NaOH modified adsorbent for superb cationic dye uptake from water: Statistical evaluation, optimization, and mechanistic studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 634, 127879.	4.7	12
53	Mollusk shells as adsorbent for removal of endocrine disruptor in different water matrix. Journal of Environmental Chemical Engineering, 2021, 9, 105704.	6.7	11
54	Oï»¿IL PRODUCED WATER TREATMENT USING SUGARCANE SOLID RESIDUE AS BIOSORBENT. Revista Mexicana De Ingeniera Quimica, 2019, 19, 27-38.	0.4	10

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55	Calcined Mytella falcata shells as a source for CaAl/LDH production: Synthesis and characterization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 644, 128752.	4.7	10
56	Mathematical Modeling of Thin Layer Drying of Papaya Seeds in a Tunnel Dryer Using Particle Swarm Optimization Method. Particulate Science and Technology, 2014, 32, 123-130.	2.1	9
57	Impact of temperature on vacuum pyrolysis of Syagrus coronata for biochar production. Journal of Material Cycles and Waste Management, 2020, 22, 878-886.	3.0	9
58	Immobilization of inulinase obtained by solid-state fermentation using spray-drying technology. Biocatalysis and Biotransformation, 2012, 30, 409-416.	2.0	8
59	Comparative adsorption of Eriochrome black T onto recyclable steel dust wastes: Isotherm, kinetics and thermodynamic studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 645, 128828.	4.7	8
60	Fluid Dynamics of Vibrofluidized Beds during the Transient Period of Water Evaporation and Drying of Solutions. Chemical Engineering and Technology, 2012, 35, 1803-1809.	1.5	7
61	Evaluation of the mass transfer process on thin layer drying of papaya seeds from the perspective of diffusive models. Heat and Mass Transfer, 2018, 54, 463-471.	2.1	7
62	Effluent treatment using activated carbon adsorbents: a bibliometric analysis of recent literature. Environmental Science and Pollution Research, 2021, 28, 32224-32235.	5.3	7
63	Carbon-covered mesoporous silica and its application in Rhodamine B adsorption. Environmental Technology (United Kingdom), 2018, 39, 1123-1132.	2.2	6
64	Liquidâ€“Liquid Equilibrium of the System {Peanut Biodiesel + Glycerol + Ethanol} at Atmospheric Pressure. Journal of Chemical & Engineering Data, 2019, 64, 2207-2212.	1.9	6
65	ESTUDO DA SECAGEM E EXTRAÃ‡ÃƒO DE SEMENTES DE MAMÃƒO (CARICA PAPAYA L.). Revista EletrÃ´nica Em GestÃ£o EducaÃ§Ã£o E Tecnologia Ambiental, 2012, 5, .	0.0	6
66	Perspectives of the reuse of agricultural wastes from the Rio Grande do Sul, Brazil, as new adsorbent materials. , 2022, , 243-266.		5
67	A facile synthesis of MgAl/layered double hydroxides from aluminum wastes. Materials Letters, 2022, 324, 132624.	2.6	5
68	Pyrolysis of Coconut Inflorescence Wastes: Production, Effects of Parameters, Characterization and Optimization of Phenolic-Rich Bio-Oil. International Journal of Environmental Research, 2022, 16, 1.	2.3	4
69	Highly effective adsorption of caffeine by a novel activated carbon prepared from coconut leaf. Environmental Science and Pollution Research, 2022, 29, 50661-50674.	5.3	4
70	Comparative study of diesel sorption performance between Chorisia speciosa fibers and a commercial polyurethane foam. Revista Materia, 2021, 26, .	0.2	2
71	Characteristics of SARS-CoV-2 aerosol dispersion in indoor air: scoping review. Research, Society and Development, 2021, 10, e44310414300.	0.1	2
72	CARACTERIZAÃ‡ÃƒO E PROCESSAMENTO DE TELAS DE LCD DE CELULARES VISANDO A RECICLAGEM. Revista EletrÃ´nica Em GestÃ£o EducaÃ§Ã£o E Tecnologia Ambiental, 2013, 8, .	0.0	2

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73	UTILIZAÃ‡ÃƒO DA FIBRA DO OURICURI (SYAGRUS CORONATA) NA REMOÃ‡ÃƒO DO CORANTE AZUL DE METILENO: VARIÃVEIS DE PROCESSO E ISOTERMA DE ADSORÃ‡ÃƒO. , 0, , .		2
74	Fundamentals of Adsorption in Liquid Phase. Environmental Chemistry for A Sustainable World, 2021, , 1-24.	0.5	1
75	Hydrometallurgical Processing. Topics in Mining, Metallurgy and Materials Engineering, 2015, , 61-71.	1.6	1
76	EMPIRICAL EVALUATION OF STIRRING PROCEDURES IN THE PRODUCTION OF BIODIESEL FROM CASTOR OIL. Brazilian Journal of Petroleum and Gas, 2016, 10, 77-87.	0.2	1
77	AvaliaÃ§Ã£o do efeito de agitaÃ§Ã£o e mistura na produÃ§Ã£o de biodiesel de soja. , 0, , .		1
78	INFLUÃŠNCIA DA TEMPERATURA NOS RENDIMENTOS DOS PRODUTOS DA PIRÃ“LISE DO ENDOCARPO DO OURICURI (SYAGRUS CORONATA (MART) BECC.). , 0, , .		1
79	Effects of Operational Variables on the Performance of Venturi Scrubbers with Circular Section. Materials Science Forum, 2006, 530-531, 298-303.	0.3	0
80	RECUPERAÃ‡ÃƒO DE COBALTO DE BATERIAS Ã“N-LÃTIO ATRAVÃ‰S DE LIXIVIAÃ‡ÃƒO Ã‰CIDA E ELETRO-OBTENÃ‡ÃƒO. Revista EletrÃ´nica Em GestÃ£o EducaÃ§Ã£o E Tecnologia Ambiental, 2012, 5, .	0.0	0
81	ESTUDO NUMÃ‰RICO DA VISCOSIDADE DO FLUXO BIFÃSICO Ã“LEO E GÃS NATURAL EM POÃ‡OS DE PETRÃ“LEO. , 0, , .		0
82	ESTUDO DA CINÃ‰TICA DE ADSORÃ‡ÃƒO DE EFLUENTE DE PRODUÃ‡ÃƒO DE BIODIESEL EM CARVÃƒO ATIVADO DE OSSO BOVINO. , 0, , .		0
83	Electrometallurgical Processing. Topics in Mining, Metallurgy and Materials Engineering, 2015, , 73-79.	1.6	0
84	CONSTRUÃ‡ÃƒO DE CURVAS DE TEMPERATURAS PARA A VISCOSIDADE E DENSIDADE DAS BLENDAS FORMADAS COM DIESEL MINERAL E BIODIESEL DE COCO, DENDE E OURICURI. , 0, , .		0
85	ANÃLISE DA FLUIDODINÃ‚MICA DE SEMENTES DE MAMÃƒO EM UM SECADOR DE LEITO DE JORRO. , 0, , .		0
86	ESTUDO NUMÃ‰RICO DA INFLUÃŠNCIA DA VISCOSIDADE DO FLUXO BIFÃSICO NÃƒO-ISOTÃ‰RMICO DE Ã“LEO PESADO E GÃS NATURAL EM UM DUTO VERTICAL. , 0, , .		0
87	TRATAMENTO DE SOLUÃ‡ÃƒO AQUOSA CONTAMINADA COM Ã“NS FLUORETO VIA ADSORÃ‡ÃƒO. , 0, , .		0
88	ESTUDO DO TRATAMENTO DE Ã‰GUA CONTAMINADA COM PIGMENTO UTILIZANDO RESÃDUO DE GRAVIOLA COMO AGENTE ADSORVENTE. , 0, , .		0
89	ESTUDO DO PROCESSO DE PURIFICAÃ‡ÃƒO DE EFLUENTES OLEOSOS DA INDÃšSTRIA DE PETRÃ“LEO. , 0, , .		0
90	ESTUDO DA INFLUÃŠNCIA DA TEMPERATURA DE PIRÃ“LISE NO BIOCARVÃƒO OBTIDO A PARTIR DO MESOCARPO DO COCO (COCOS NUCIFERA L.). , 0, , .		0

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91	CARACTERIZAÃ‡ÃƒO DO BIOCARVÃƒO OBTIDO A PARTIR DA PIRÃ“LISE DO ENDOCARPO DO COCO (COCOS) Tj ETQq1 1 0.784314 rgB		0
92	SÃNTESE DE COMPÃ“SITOS HDL-BIOCARVÃƒO DE OURICURI PARA APLICAÃ‡ÃƒO NA REMOÃ‡ÃƒO DE POLUENTES EMERGENTES. , 0, , .		0
93	Layered double hydroxides for controlled fluoride release. Brazilian Oral Research, 2021, 35, e104.	1.4	0
94	Comments on â€œEnvironmental behaviors of microplastics in aquatic systems: A systematic review on degradation, adsorption, toxicity and biofilm under aging conditionsâ€•[J. Hazard. Mater. 423 (2022) 126915]. Journal of Hazardous Materials, 2022, 429, 128307.	12.4	0
95	Analysis of patents in photocatalytic water and wastewater treatment. Part II â€“ solar energy and nanotechnology. , 2022, , 183-208.		0