

Lucas Meili

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

2,106
citations

236925

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276875

41
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99
all docs

99
docs citations

99
times ranked

1596
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Lanthanum hydroxide engineered sewage sludge biochar for efficient phosphate elimination: Mechanism interpretation using physical modelling. <i>Science of the Total Environment</i> , 2022, 803, 149888. | 8.0 | 20 |
| 2 | Sewage sludge-derived biochar for the adsorptive removal of wastewater pollutants: A critical review. <i>Environmental Pollution</i> , 2022, 293, 118581. | 7.5 | 94 |
| 3 | Volcanic ashe and its NaOH modified adsorbent for superb cationic dye uptake from water: Statistical evaluation, optimization, and mechanistic studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 634, 127879. | 4.7 | 12 |
| 4 | Mixed metal oxides derived from layered double hydroxide as catalysts for biodiesel production. <i>Applied Catalysis A: General</i> , 2022, 630, 118470. | 4.3 | 15 |
| 5 | Comparative adsorption of Eriochrome Black T and Tetracycline by NaOH-modified steel dust: Kinetic and process modeling. <i>Separation and Purification Technology</i> , 2022, 287, 120559. | 7.9 | 33 |
| 6 | Comments on "Environmental behaviors of microplastics in aquatic systems: A systematic review on degradation, adsorption, toxicity and biofilm under aging conditions" [J. Hazard. Mater. 423 (2022) 126915]. <i>Journal of Hazardous Materials</i> , 2022, 429, 128307. | 12.4 | 0 |
| 7 | Pyrolysis of Coconut Inflorescence Wastes: Production, Effects of Parameters, Characterization and Optimization of Phenolic-Rich Bio-Oil. <i>International Journal of Environmental Research</i> , 2022, 16, 1. | 2.3 | 4 |
| 8 | Regeneration of activated carbon adsorbent by anodic and cathodic electrochemical process. <i>Chemical Engineering Research and Design</i> , 2022, 159, 1150-1163. | 5.6 | 22 |
| 9 | Comparative adsorption of Eriochrome black T onto recyclable steel dust wastes: Isotherm, kinetics and thermodynamic studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 645, 128828. | 4.7 | 8 |
| 10 | Highly effective adsorption of caffeine by a novel activated carbon prepared from coconut leaf. <i>Environmental Science and Pollution Research</i> , 2022, 29, 50661-50674. | 5.3 | 4 |
| 11 | Calcined <i>Mytella falcata</i> shells as a source for CaAl/LDH production: Synthesis and characterization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 644, 128752. | 4.7 | 10 |
| 12 | Analysis of patents in photocatalytic water and wastewater treatment. Part II " solar energy and nanotechnology. , 2022, , 183-208. | | 0 |
| 13 | Production of magnetic biochar-steel dust composites for enhanced phosphate adsorption. <i>Journal of Water Process Engineering</i> , 2022, 47, 102793. | 5.6 | 14 |
| 14 | Perspectives of the reuse of agricultural wastes from the Rio Grande do Sul, Brazil, as new adsorbent materials. , 2022, , 243-266. | | 5 |
| 15 | A facile synthesis of MgAl/layered double hydroxides from aluminum wastes. <i>Materials Letters</i> , 2022, 324, 132624. | 2.6 | 5 |
| 16 | Layered double hydroxides/biochar composites as adsorbents for water remediation applications: recent trends and perspectives. <i>Journal of Cleaner Production</i> , 2021, 284, 124755. | 9.3 | 68 |
| 17 | Sorption as a rapidly response for oil spill accidents: A material and mechanistic approach. <i>Journal of Hazardous Materials</i> , 2021, 407, 124842. | 12.4 | 64 |
| 18 | Comparative study of diesel sorption performance between <i>Chorisia speciosa</i> fibers and a commercial polyurethane foam. <i>Revista Materia</i> , 2021, 26, . | 0.2 | 2 |

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|----|--|-----|-----------|
| 19 | Fundamentals of Adsorption in Liquid Phase. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 1-24. | 0.5 | 1 |
| 20 | Characteristics of SARS-CoV-2 aerosol dispersion in indoor air: scoping review. <i>Research, Society and Development</i> , 2021, 10, e44310414300. | 0.1 | 2 |
| 21 | Effluent treatment using activated carbon adsorbents: a bibliometric analysis of recent literature. <i>Environmental Science and Pollution Research</i> , 2021, 28, 32224-32235. | 5.3 | 7 |
| 22 | Different routes for MgFe/LDH synthesis and application to remove pollutants of emerging concern. <i>Separation and Purification Technology</i> , 2021, 264, 118353. | 7.9 | 27 |
| 23 | Effect of Drying on the Fabrication of MgAl Layered Double Hydroxides. <i>ACS Omega</i> , 2021, 6, 21819-21829. | 3.5 | 26 |
| 24 | Mollusk shells as adsorbent for removal of endocrine disruptor in different water matrix. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105704. | 6.7 | 11 |
| 25 | Catalytic deoxygenation of palm oil and its residue in green diesel production: A current technological review. <i>Chemical Engineering Research and Design</i> , 2021, 174, 158-187. | 5.6 | 27 |
| 26 | 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. <i>Journal of Molecular Liquids</i> , 2021, 339, 116714. | 4.9 | 37 |
| 27 | Efficient adsorption of dyes by γ -alumina synthesized from aluminum wastes: Kinetics, isotherms, thermodynamics and toxicity assessment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106198. | 6.7 | 28 |
| 28 | COVID-19 pandemic in Uttarakhand, India: Environmental recovery or degradation?. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106595. | 6.7 | 21 |
| 29 | Layered double hydroxides for controlled fluoride release. <i>Brazilian Oral Research</i> , 2021, 35, e104. | 1.4 | 0 |
| 30 | Stirring and mixing in ethylic biodiesel production. <i>Journal of King Saud University - Science</i> , 2020, 32, 54-59. | 3.5 | 21 |
| 31 | Analyzing the universality of the dimensionless vibrating number based on the effective moisture diffusivity and its impact on specific energy consumption. <i>Heat and Mass Transfer</i> , 2020, 56, 1659-1672. | 2.1 | 12 |
| 32 | Mg-Fe layered double hydroxide with chloride intercalated: synthesis, characterization and application for efficient nitrate removal. <i>Environmental Science and Pollution Research</i> , 2020, 27, 5890-5900. | 5.3 | 33 |
| 33 | Adsorption of a non-steroidal anti-inflammatory drug onto MgAl/LDH-activated carbon composite " Experimental investigation and statistical physics modeling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124217. | 4.7 | 51 |
| 34 | Artificial neural networks to model kinetics and energy efficiency in fixed, fluidized and vibro-fluidized bed dryers towards process optimization. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 156, 108089. | 3.6 | 14 |
| 35 | Caffeine removal using <i>Elaeis guineensis</i> activated carbon: adsorption and RSM studies. <i>Environmental Science and Pollution Research</i> , 2020, 27, 27048-27060. | 5.3 | 34 |
| 36 | Electrochemical degradation and toxicity evaluation of reactive dyes mixture and real textile effluent over DSA® electrodes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 153, 107940. | 3.6 | 38 |

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|----|--|-----|-----------|
| 37 | Saturated activated carbon regeneration by UV-light, H ₂ O ₂ and Fenton reaction. Separation and Purification Technology, 2020, 250, 117112. | 7.9 | 35 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | Comparing Electrochemical and Fenton-Based Processes for Aquaculture Biocide Degradation. Water, Air, and Soil Pollution, 2020, 231, 1. | 2.4 | 16 |
| 44 | Adsorptive potential of Zn-Al and Mg-Fe layered double hydroxides for the removal of 2-nitrophenol from aqueous solutions. Journal of Environmental Chemical Engineering, 2020, 8, 103913. | 6.7 | 32 |
| 45 | 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 |
| 46 | 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 |
| 47 | Evaluation of caffeine adsorption by MgAl-LDH/biochar composite. Environmental Science and Pollution Research, 2019, 26, 31804-31811. | 5.3 | 61 |
| 48 | Wodyetia bifurcata biochar for methylene blue removal from aqueous matrix. Bioresource Technology, 2019, 293, 122093. | 9.6 | 61 |
| 49 | Electrochemical degradation of 17- β -Methyltestosterone over DSA [®] electrodes. Chemical Engineering and Processing: Process Intensification, 2019, 142, 107548. | 3.6 | 21 |
| 50 | 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 |
| 51 | Liquid-Liquid Equilibrium of the System {Peanut Biodiesel + Glycerol + Ethanol} at Atmospheric Pressure. Journal of Chemical & Engineering Data, 2019, 64, 2207-2212. | 1.9 | 6 |
| 52 | 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 |
| 53 | Syagrus oleracea-activated carbon prepared by vacuum pyrolysis for methylene blue adsorption. Environmental Science and Pollution Research, 2019, 26, 16470-16481. | 5.3 | 31 |
| 54 | Cassava (<i>Manihot esculenta</i> Crantz) stump biochar: Physical/chemical characteristics and dye affinity. Chemical Engineering Communications, 2019, 206, 829-841. | 2.6 | 22 |

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|----|---|-----|-----------|
| 55 | MgAl-LDH/Biochar composites for methylene blue removal by adsorption. <i>Applied Clay Science</i> , 2019, 168, 11-20. | 5.2 | 186 |
| 56 | Oil PRODUCED WATER TREATMENT USING SUGARCANE SOLID RESIDUE AS BIOSORBENT. <i>Revista Mexicana De Ingeniera Quimica</i> , 2019, 19, 27-38. | 0.4 | 10 |
| 57 | Carbon-covered mesoporous silica and its application in Rhodamine B adsorption. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1123-1132. | 2.2 | 6 |
| 58 | Evaluation of the mass transfer process on thin layer drying of papaya seeds from the perspective of diffusive models. <i>Heat and Mass Transfer</i> , 2018, 54, 463-471. | 2.1 | 7 |
| 59 | Ouricuri (<i>Syagrus coronata</i>) fiber: a novel biosorbent to remove methylene blue from aqueous solutions. <i>Water Science and Technology</i> , 2017, 75, 106-114. | 2.5 | 27 |
| 60 | Kinetics, isotherm, and thermodynamic studies of methylene blue adsorption from water by <i>Mytella falcata</i> waste. <i>Environmental Science and Pollution Research</i> , 2017, 24, 19927-19937. | 5.3 | 24 |
| 61 | Comparison between Brazilian agro-wastes and activated carbon as adsorbents to remove Ni(II) from aqueous solutions. <i>Water Science and Technology</i> , 2016, 73, 2713-2721. | 2.5 | 22 |
| 62 | Convective drying of papaya seeds (<i>Carica papaya</i> L.) and optimization of oil extraction. <i>Industrial Crops and Products</i> , 2016, 85, 221-228. | 5.2 | 46 |
| 63 | Spouted bed drying of papaya seeds for oil production. <i>LWT - Food Science and Technology</i> , 2016, 65, 852-860. | 5.2 | 35 |
| 64 | EMPIRICAL EVALUATION OF STIRRING PROCEDURES IN THE PRODUCTION OF BIODIESEL FROM CASTOR OIL. <i>Brazilian Journal of Petroleum and Gas</i> , 2016, 10, 77-87. | 0.2 | 1 |
| 65 | Biodiesel production from <i>Sterculia striata</i> oil by ethyl transesterification method. <i>Industrial Crops and Products</i> , 2015, 74, 767-772. | 5.2 | 24 |
| 66 | Application of spouted bed elutriation in the recycling of lithium ion batteries. <i>Journal of Power Sources</i> , 2015, 275, 627-632. | 7.8 | 96 |
| 67 | Hydrometallurgical Processing. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2015, , 61-71. | 1.6 | 1 |
| 68 | Electrometallurgical Processing. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2015, , 73-79. | 1.6 | 0 |
| 69 | Mathematical Modeling of Thin Layer Drying of Papaya Seeds in a Tunnel Dryer Using Particle Swarm Optimization Method. <i>Particulate Science and Technology</i> , 2014, 32, 123-130. | 2.1 | 9 |
| 70 | Use of papaya seeds as a biosorbent of methylene blue from aqueous solution. <i>Water Science and Technology</i> , 2013, 68, 441-447. | 2.5 | 40 |
| 71 | Removal of Tannery Dye from Aqueous Solution Using Papaya Seed as an Efficient Natural Biosorbent. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1. | 2.4 | 46 |
| 72 | Adsorption of leather dye onto activated carbon prepared from bottle gourd: equilibrium, kinetic and mechanism studies. <i>Water Science and Technology</i> , 2013, 67, 201-209. | 2.5 | 27 |

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|----|---|-----|-----------|
| 73 | CARACTERIZAÇÃO E PROCESSAMENTO DE TELAS DE LCD DE CELULARES VISANDO A RECICLAGEM. Revista Eletrônica Em Gestão Educação E Tecnologia Ambiental, 2013, 8, . | 0.0 | 2 |
| 74 | Immobilization of inulinase obtained by solid-state fermentation using spray-drying technology. Biocatalysis and Biotransformation, 2012, 30, 409-416. | 2.0 | 8 |
| 75 | 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 |
| 76 | Fluid Dynamics of Fluidized and Vibrofluidized Beds Operating with Geldart C Particles. Chemical Engineering and Technology, 2012, 35, 1649-1656. | 1.5 | 23 |
| 77 | ESTUDO DA SECAGEM E EXTRAÇÃO DE SEMENTES DE MAMÃO (CARICA PAPAYA L.). Revista Eletrônica Em Gestão Educação E Tecnologia Ambiental, 2012, 5, . | 0.0 | 6 |
| 78 | RECUPERAÇÃO DE COBALTO DE BATERIAS LÍQUIDAS ATRAVÉS DE LIXIVIAÇÃO ÁCIDA E ELETRO-OBTENÇÃO. Revista Eletrônica Em Gestão Educação E Tecnologia Ambiental, 2012, 5, . | 0.0 | 0 |
| 79 | 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 |
| 80 | Effects of Operational Variables on the Performance of Venturi Scrubbers with Circular Section. Materials Science Forum, 2006, 530-531, 298-303. | 0.3 | 0 |
| 81 | Fenton-based processes for the regeneration of biochar from Syagrus coronata biomass used as dye adsorbent. , 0, 162, 391-398. | | 16 |
| 82 | ESTUDO NUMÉRICO DA VISCOSIDADE DO FLUXO BIFÁSICO "LEO E GÁS NATURAL EM POÇOS DE PETRÓLEO. , 0, , . | | 0 |
| 83 | ESTUDO DA CINETICA DE ADSORÇÃO DE EFLUENTE DE PRODUTO DE BIODIESEL EM CARVÃO ATIVADO DE OSSO BOVINO. , 0, , . | | 0 |
| 84 | CONSTRUÇÃO DE CURVAS DE TEMPERATURAS PARA A VISCOSIDADE E DENSIDADE DAS BLENDS FORMADAS COM DIESEL MINERAL E BIODIESEL DE COCO, DENDE E OURICURI. , 0, , . | | 0 |
| 85 | Avaliação do efeito de agitação e mistura na produção de biodiesel de soja. , 0, , . | | 1 |
| 86 | ANÁLISE DA FLUIDODINÂMICA DE SEMENTES DE MAMÃO EM UM SECADOR DE LEITO DE JORRO. , 0, , . | | 0 |
| 87 | ESTUDO NUMÉRICO DA INFLUÊNCIA DA VISCOSIDADE DO FLUXO BIFÁSICO "LEO-PESADO E GÁS NATURAL EM UM DUTO VERTICAL. , 0, , . | | 0 |
| 88 | TRATAMENTO DE SOLUÇÃO AQUOSA CONTAMINADA COM IONS FLUORETO VIA ADSORÇÃO. , 0, , . | | 0 |
| 89 | UTILIZAÇÃO DA FIBRA DO OURICURI (SYAGRUS CORONATA) NA REMOÇÃO DO CORANTE AZUL DE METILENO: VÁRIAS DE PROCESSO E ISOTERMA DE ADSORÇÃO. , 0, , . | | 2 |
| 90 | ESTUDO DO TRATAMENTO DE ÁGUA CONTAMINADA COM PIGMENTO UTILIZANDO RESÍDUO DE GRAVIOLA COMO AGENTE ADSORVENTE. , 0, , . | | 0 |

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|----|---|----|-----------|
| 91 | INFLUÊNCIA DA TEMPERATURA NOS RENDIMENTOS DOS PRODUTOS DA PIRÃO LISE DO ENDOCARPO DO OURICURI (SYAGRUS CORONATA (MART) BECC.), 0, , . | | 1 |
| 92 | ESTUDO DO PROCESSO DE PURIFICAÇÃO DE EFLUENTES OLEOSOS DA INDÚSTRIA DE PETRÓLEO. , 0, , . | | 0 |
| 93 | ESTUDO DA INFLUÊNCIA DA TEMPERATURA DE PIRÃO LISE NO BIOCARVÃO OBTIDO A PARTIR DO MESOCARPO DO COCO (COCOS NUCIFERA L.), 0, , . | | 0 |
| 94 | CARACTERIZAÇÃO DO BIOCARVÃO OBTIDO A PARTIR DA PIRÃO LISE DO ENDOCARPO DO COCO (COCOS) Tj ETQq0 0 0 rgBT /Overl | | 0 |
| 95 | SÍNTESE DE COMPOSTOS HDL-BIOCARVÃO DE OURICURI PARA APLICAÇÃO NA REMOÇÃO DE POLUENTES EMERGENTES. , 0, , . | | 0 |