

# Lionel Limousy

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8569114/publications.pdf>

Version: 2024-02-01

89  
papers

2,603  
citations

159585

30  
h-index

206112

48  
g-index

90  
all docs

90  
docs citations

90  
times ranked

3151  
citing authors

#	ARTICLE	IF	CITATIONS
1	New insights on the structural evolution of biomass char upon pyrolysis as revealed by the Raman spectroscopy and elemental analysis. <i>Carbon</i> , 2017, 119, 519-521.	10.3	203
2	Gaseous products and particulate matter emissions of biomass residential boiler fired with spent coffee grounds pellets. <i>Fuel</i> , 2013, 107, 323-329.	6.4	133
3	Biomass Chars: The Effects of Pyrolysis Conditions on Their Morphology, Structure, Chemical Properties and Reactivity. <i>Energies</i> , 2017, 10, 796.	3.1	128
4	Thermogravimetric study on the influence of structural, textural and chemical properties of biomass chars on CO <sub>2</sub> gasification reactivity. <i>Energy</i> , 2015, 88, 703-710.	8.8	119
5	Activated carbon prepared by physical activation of olive stones for the removal of NO <sub>2</sub> at ambient temperature. <i>Comptes Rendus Chimie</i> , 2015, 18, 63-74.	0.5	103
6	Nitrite effect on nitrous oxide emission from denitrifying activated sludge. <i>Process Biochemistry</i> , 2008, 43, 683-689.	3.7	92
7	Amoxicillin removal from aqueous solution using activated carbon prepared by chemical activation of olive stone. <i>Environmental Science and Pollution Research</i> , 2017, 24, 9993-10004.	5.3	86
8	Investigations on phosphorus recovery from aqueous solutions by biochars derived from magnesium-pretreated cypress sawdust. <i>Journal of Environmental Management</i> , 2018, 216, 305-314.	7.8	84
9	CO <sub>2</sub> gasification of woody biomass chars: The influence of K and Si on char reactivity. <i>Comptes Rendus Chimie</i> , 2016, 19, 457-465.	0.5	81
10	Adsorption/reduction of nitrogen dioxide on activated carbons: Textural properties versus surface chemistry – A review. <i>Chemical Engineering Journal</i> , 2018, 347, 493-504.	12.7	81
11	Low-cost ceramic membranes: Synthesis, classifications, and applications. <i>Comptes Rendus Chimie</i> , 2019, 22, 175-187.	0.5	77
12	Effect of the carbon source on N <sub>2</sub> O emissions during biological denitrification. <i>Resources, Conservation and Recycling</i> , 2010, 54, 299-302.	10.8	68
13	Thermal characterization and pyrolysis kinetics of tropical biomass feedstocks for energy recovery. <i>Energy for Sustainable Development</i> , 2014, 23, 188-193.	4.5	61
14	Combined NMR structural characterization and thermogravimetric analyses for the assessment of the AAEM effect during lignocellulosic biomass pyrolysis. <i>Energy</i> , 2017, 134, 10-23.	8.8	61
15	Energy recovery from Tunisian agri-food wastes: Evaluation of combustion performance and emissions characteristics of green pellets prepared from tomato residues and grape marc. <i>Energy</i> , 2016, 107, 409-418.	8.8	60
16	Olive Mill Wastewater: From a Pollutant to Green Fuels, Agricultural Water Source and Biofertilizer. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8988-8996.	6.7	59
17	Comparison of NO <sub>2</sub> removal using date pits activated carbon and modified commercialized activated carbon via different preparation methods: Effect of porosity and surface chemistry. <i>Chemical Engineering Journal</i> , 2014, 253, 121-129.	12.7	53
18	Pyrolysis kinetics and physicochemical properties of agropellets produced from spent ground coffee blended with conventional biomass. <i>Chemical Engineering Research and Design</i> , 2014, 92, 1876-1882.	5.6	53

#	ARTICLE	IF	CITATIONS
19	Concentration polarization phenomenon during the nanofiltration of multi-ionic solutions: Influence of the filtrated solution and operating conditions. <i>Water Research</i> , 2013, 47, 2260-2272.	11.3	49
20	Combustion characteristics and kinetics of torrefied olive pomace. <i>Energy</i> , 2016, 107, 453-463.	8.8	49
21	Effect of six engineered biochars on GHG emissions from two agricultural soils: A short-term incubation study. <i>Geoderma</i> , 2018, 327, 73-84.	5.1	46
22	N <sub>2</sub> O and NO emissions during wastewater denitrification step: Influence of temperature on the biological process. <i>Comptes Rendus Chimie</i> , 2015, 18, 15-22.	0.5	44
23	Kenaf stems: Thermal characterization and conversion for biofuel and biochar production. <i>Fuel</i> , 2020, 262, 116654.	6.4	43
24	Impregnation of olive mill wastewater on dry biomasses: Impact on chemical properties and combustion performances. <i>Energy</i> , 2014, 78, 479-489.	8.8	40
25	The Potential of Activated Carbon Made of Agro-Industrial Residues in NO <sub>x</sub> Immissions Abatement. <i>Energies</i> , 2017, 10, 1508.	3.1	39
26	Inorganic and Hybrid (Organic-Inorganic) Lamellar Materials for Heavy metals and Radionuclides Capture in Energy Wastes Management—A Review. <i>Materials</i> , 2019, 12, 1399.	2.9	37
27	Biochar production from Cypress sawdust and olive mill wastewater: Agronomic approach. <i>Science of the Total Environment</i> , 2021, 752, 141713.	8.0	36
28	Pyrolysis of Olive Pomace: Degradation Kinetics, Gaseous Analysis and Char Characterization. <i>Waste and Biomass Valorization</i> , 2017, 8, 1689-1697.	3.4	35
29	Performance and emissions characteristics of compressed spent coffee ground/wood chip logs in a residential stove. <i>Energy for Sustainable Development</i> , 2015, 28, 52-59.	4.5	32
30	Free-standing cellulose film containing manganese dioxide nanoparticles and its use in discoloration of indigo carmine dye. <i>Carbohydrate Polymers</i> , 2020, 230, 115621.	10.2	32
31	Performance of a household boiler fed with agropellets blended from olive mill solid waste and pine sawdust. <i>Fuel</i> , 2015, 153, 431-436.	6.4	31
32	Physico-chemical properties and thermal degradation characteristics of agropellets from olive mill by-products/sawdust blends. <i>Fuel Processing Technology</i> , 2014, 126, 215-221.	7.2	30
33	Design and characterization of flat membrane supports elaborated from kaolin and aluminum powders. <i>Comptes Rendus Chimie</i> , 2016, 19, 496-504.	0.5	28
34	Characterization of coffee residues pellets and their performance in a residential combustor. <i>International Journal of Green Energy</i> , 2016, 13, 608-615.	3.8	25
35	Olive Mill Wastewater: From a Pollutant to Green Fuels, Agricultural Water Source and Bio-Fertilizer—Part 1. The Drying Kinetics. <i>Energies</i> , 2017, 10, 1423.	3.1	23
36	Manufacture and optimization of low-cost tubular ceramic supports for membrane filtration: application to algal solution concentration. <i>Environmental Science and Pollution Research</i> , 2017, 24, 9914-9926.	5.3	21

#	ARTICLE	IF	CITATIONS
37	The relationship between mineral contents, particle matter and bottom ash distribution during pellet combustion: molar balance and chemometric analysis. <i>Environmental Science and Pollution Research</i> , 2017, 24, 9927-9939.	5.3	16
38	Factors Influencing NO <sub>2</sub> Adsorption/Reduction on Microporous Activated Carbon: Porosity vs. Surface Chemistry. <i>Materials</i> , 2018, 11, 622.	2.9	16
39	Nutrient retention and release from raw exhausted grape marc biochars and an amended agricultural soil: Static and dynamic investigation. <i>Environmental Technology and Innovation</i> , 2020, 19, 100885.	6.1	16
40	Potential Valorization of Waste Tires as Activated Carbon-Based Adsorbent for Organic Contaminants Removal. <i>Materials</i> , 2022, 15, 1099.	2.9	16
41	Zwitterionic-surfactant modified LAPONITE®s for removal of ions (Cs <sup>+</sup> , Sr <sup>2+</sup> ) from aqueous wastes. <i>Green Chemistry</i> , 2019, 21, 5118-5127.	9.0	15
42	Experimental Determination of the CH <sub>4</sub> and CO <sub>2</sub> Pure Gas Adsorption Isotherms on Different Activated Carbons. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 3027-3034.	1.9	14
43	Influence of CO <sub>2</sub> Concentration and Inorganic Species on the Gasification of Lignocellulosic Biomass Derived Chars. <i>Waste and Biomass Valorization</i> , 2019, 10, 3745-3752.	3.4	13
44	Understanding the separation of anion mixtures by TiO <sub>2</sub> membranes: Numerical investigation and effect of alkaline treatment on physicochemical properties. <i>Chemical Engineering Journal</i> , 2019, 363, 365-373.	12.7	13
45	Strategies for bioenergy production from agriculture and agrifood processing residues. <i>Biofuels</i> , 2018, 9, 541-543.	2.4	12
46	Synthesis of iron-rich tri-octahedral clay minerals: A review. <i>Applied Clay Science</i> , 2018, 166, 276-287.	5.2	12
47	Determination by zetametry and streaming induced potential™ measurements of the amounts of catalytic precursors necessary to saturate a support. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 181, 91-97.	4.7	10
48	Simultaneous effect of carbon and water on NO <sub>x</sub> adsorption on a stabilized Pt/Ba/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Comptes Rendus Chimie</i> , 2014, 17, 687-700.	0.5	10
49	Stabilisation of the water permeability of mineral ultrafiltration membranes: An empirical modelling of surface and pore hydration. <i>Comptes Rendus Chimie</i> , 2015, 18, 56-62.	0.5	10
50	Synthesis of mono- and bi-layer MFI zeolite films on macroporous alumina tubular supports: Application to nanofiltration. <i>Journal of Crystal Growth</i> , 2015, 428, 71-79.	1.5	10
51	Mass transfer modelling in clay-based material: Estimation of apparent diffusivity of a molecule of interest. <i>Comptes Rendus Chimie</i> , 2019, 22, 250-257.	0.5	10
52	Development of a new cathode for the electro-Fenton process combining carbon felt and iron-containing organic-inorganic hybrids. <i>Comptes Rendus Chimie</i> , 2019, 22, 238-249.	0.5	10
53	Cleaner Synthesis of Silylated Clay Minerals for the Durable Recovery of Ions (Co <sup>2+</sup> and Tj ETQq1 1 0.784314 rgBT /Ovele 2104-2112.	3.7	10
54	The design of separators based on phase inversion at low velocities in the nozzles. <i>Separation and Purification Technology</i> , 2004, 38, 181-189.	7.9	9

#	ARTICLE	IF	CITATIONS
55	Energy applications of coffee processing by-products. , 2017, , 323-367.		9
56	Combined Fixed-Bed Reactor and In Situ DRIFTS Tests of NO Adsorption on a NOx Storage-Reduction System Catalyst. Chemical Engineering and Technology, 2014, 37, 204-212.	1.5	8
57	Modification of the Selectivity Properties of Tubular Ceramic Membranes after Alkaline Treatment. Membranes, 2017, 7, 65.	3.0	8
58	Biomass Chars: Elaboration, Characterization and Applications. Energies, 2017, 10, 2040.	3.1	8
59	Use of Mordenite Surface Acidity Properties for the Selective Separation of Halide Salts: Modification of Dielectric Effects. Industrial & Engineering Chemistry Research, 2011, 50, 4003-4010.	3.7	7
60	Surface energy modification of a Na-mordenite thin layer treated by an alkaline solution. Materials Express, 2015, 5, 451-456.	0.5	7
61	Exhausted Grape Marc Derived Biochars: Effect of Pyrolysis Temperature on the Yield and Quality of Biochar for Soil Amendment. Sustainability, 2021, 13, 11187.	3.2	7
62	Understanding of Ion Transport in a Na-Mordenite Membrane: Use of Numerical Modeling To Estimate Surface-Solute Interactions in the Pore. Industrial & Engineering Chemistry Research, 2014, 53, 8221-8227.	3.7	6
63	Binary Oxides Prepared by Microwave-Assisted Solution Combustion: Synthesis, Characterization and Catalytic Activity. Materials, 2019, 12, 910.	2.9	6
64	Production of a biofertilizer from exhausted grape marc waste: agronomic and environmental impact on plant growth. Biomass Conversion and Biorefinery, 2022, 12, 5605-5618.	4.6	6
65	Synthesis of mono- and bi-layer zeolite films on alumina substrates. Comptes Rendus Chimie, 2016, 19, 486-495.	0.5	5
66	Biomass feedstocks. , 2019, , 1-38.		5
67	Iron-rich clay mineral synthesis using design of experiments approach. Applied Clay Science, 2020, 199, 105876.	5.2	5
68	Synthesis, Characterization and Catalytic Activity of Ternary Oxide Catalysts Using the Microwave-Assisted Solution Combustion Method. Materials, 2020, 13, 4607.	2.9	5
69	Thermal decomposition of a layered double hydroxide as a bottom up approach for the synthesis of metallic nanoparticles embedded in carbon structures. New Journal of Chemistry, 2020, 44, 16721-16732.	2.8	5
70	Hydraulic Performance Modifications of a Zeolite Membrane after an Alkaline Treatment: Contribution of Polar and Apolar Surface Tension Components. Advances in Materials Science and Engineering, 2015, 2015, 1-7.	1.8	4
71	Environmental applications of coffee processing by-products. , 2017, , 245-297.		4
72	Cyprus energy resources and their potential to increase sustainability. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
73	Review: Clay-Modified Electrodes in Heterogeneous Electro-Fenton Process for Degradation of Organic Compounds: The Potential of Structural Fe(III) as Catalytic Sites. <i>Materials</i> , 2021, 14, 7742.	2.9	4
74	Thermal degradation kinetics and mechanisms of <i>Posidonia Oceanica</i> under inert and oxidative atmospheres. <i>International Journal of Green Energy</i> , 2016, 13, 665-671.	3.8	3
75	Process engineering for pollution control and waste minimization. <i>Environmental Science and Pollution Research</i> , 2017, 24, 9827-9830.	5.3	3
76	Sustainability assessment for biomass-derived char production and applications. , 2019, , 447-479.		3
77	Influence of the Fuel/Oxidant Ratio on the Elaboration of Binary Oxide Catalyst by a Microwave-Assisted Solution Combustion Method. <i>Energies</i> , 2020, 13, 3126.	3.1	3
78	Facile Elaboration of Wet Cellulose Film as Catalyst Support of MnOx Nanoparticles for the Catalytic Oxidation of Dyes in Absence of Light. <i>Clean Technologies</i> , 2021, 3, 288-298.	4.2	3
79	Simulation of the Denitrification Process of Waste Water with a Biochemical Systems Model: A Non-Conventional Approach. <i>International Journal of Chemical Reactor Engineering</i> , 2014, 12, 683-693.	1.1	2
80	Recovery of Low-Grade Heat (Heat Waste) from a Cogeneration Unit for Woodchips Drying: Energy and Economic Analyses. <i>Energies</i> , 2019, 12, 501.	3.1	2
81	Laponites® for the Recovery of 133Cs, 59Co, and 88Sr from Aqueous Solutions and Subsequent Storage: Impact of Grafted Silane Loads. <i>Materials</i> , 2020, 13, 572.	2.9	2
82	Impact of sootâ€NSR catalyst contact depending on reactive gas composition on NO <sub>x</sub> storage. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 14-19.	2.3	1
83	Biochar production from grape marc, kenaf stems and flax shives: Effect of temperature on textural and physicochemical properties. , 2019, , .		1
84	Olive oil by-products : From harmful waste to interesting carbonaceous materials : Hydrothermal conversion of olive oil by-products into carbon rich chars. , 2019, , .		1
85	Char combustion. , 2019, , 147-185.		1
86	New Materials and Technologies for Wastewater Treatment. <i>Materials</i> , 2022, 15, 1927.	2.9	1
87	R�alisation et modification des propri�t�s de s�lectivit� d�une membrane min�rale d�ultrafiltration: �tude de la r�tention de solutions salines. <i>Revue Des Sciences De L'Eau</i> , 0, 25, 21-30.	0.2	0
88	Modelling and Optimisation in Chemical and Biological Engineering: Application to Wastewater and Gas Treatment. <i>International Journal of Chemical Reactor Engineering</i> , 2014, 12, 669-669.	1.1	0
89	International Renewable Energy Congress 2015: Focus on biomass energy, environment and sustainable development. <i>Comptes Rendus Chimie</i> , 2016, 19, 419-422.	0.5	0