

Luis Lartundo-Rojas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5442694/publications.pdf>

Version: 2024-02-01

99
papers

2,255
citations

201674

27
h-index

276875

41
g-index

99
all docs

99
docs citations

99
times ranked

3517
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfonic groups anchored on mesoporous carbon Starbons-300 and its use for the esterification of oleic acid. <i>Fuel</i> , 2012, 100, 128-138.	6.4	103
2	Comprehending the Thermal Decomposition and Reconstruction Process of Solâ€”Gel MgAl Layered Double Hydroxides. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2089-2099.	3.1	81
3	Sorption of Gold by Naked and Thiol-Capped Magnetite Nanoparticles: An XPS Approach. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2776-2791.	3.1	75
4	Reactivity of NiO for 2,4-D degradation with ozone: XPS studies. <i>Journal of Hazardous Materials</i> , 2013, 262, 472-481.	12.4	73
5	Enhancing the H ₂ evolution from waterâ€”methanol solution using Mn ²⁺ â€”Mn ³⁺ â€”Mn ⁴⁺ redox species of Mn-doped TiO ₂ solâ€”gel photocatalysts. <i>Catalysis Today</i> , 2016, 266, 9-16.	4.4	65
6	Study of corrosion behavior of API 5L X52 steel in sulfuric acid in the presence of ionic liquid 1-ethyl 3-methylimidazolium thiocyanate as corrosion inhibitor. <i>Journal of Molecular Liquids</i> , 2019, 289, 111106.	4.9	63
7	Contribution to the coordination chemistry of transition metal nitroprussides: a cryo-XPS study. <i>New Journal of Chemistry</i> , 2019, 43, 4835-4848.	2.8	62
8	Electrochemical reduction of NO _x species at the interface of nanostructured Pd and PdCu catalysts in alkaline conditions. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118048.	20.2	59
9	Photodegradation of phenol using reconstructed Ce doped Zn/Al layered double hydroxides as photocatalysts. <i>Catalysis Today</i> , 2016, 271, 213-219.	4.4	56
10	Degradation study of arsenic oxides under XPS measurements. <i>Applied Surface Science</i> , 2020, 511, 145606.	6.1	52
11	Influence of bovine serum albumin in sulphuric acid aqueous solution on the corrosion and the passivation of an ironâ€”chromium alloy. <i>Electrochimica Acta</i> , 2006, 51, 1550-1557.	5.2	51
12	Microstructural properties and distribution of components in microparticles obtained by spray-drying. <i>Journal of Food Engineering</i> , 2015, 152, 105-112.	5.2	51
13	SnO ₂ -TiO ₂ structures and the effect of CuO, CoO metal oxide on photocatalytic hydrogen production. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 1531-1539.	3.2	47
14	Characterization of Tb-doped hydroxyapatite for biomedical applications: optical properties and energy band gap determination. <i>Journal of Materials Science</i> , 2017, 52, 9990-10000.	3.7	47
15	Photocatalytic degradation of 2,4-dichlorophenol with MgAlTi mixed oxides catalysts obtained from layered double hydroxides. <i>Journal of Hazardous Materials</i> , 2013, 263, 67-72.	12.4	45
16	Composite material for supercapacitors formed by polymerization of aniline in the presence of graphene oxide nanosheets. <i>Journal of Power Sources</i> , 2013, 224, 195-201.	7.8	43
17	The role of the WO ₃ nanostructures in the oxygen reduction reaction and PEM fuel cell performance on WO ₃ â€”Pt/C electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 17371-17379.	7.1	43
18	Ti Anodization in Alkaline Electrolyte: The Relationship between Transport of Defects, Film Hydration and Composition. <i>Journal of the Electrochemical Society</i> , 2013, 160, C277-C284.	2.9	42

#	ARTICLE	IF	CITATIONS
19	Synthesis of novel hard mesoporous carbons and their applications as anodes for Li and Na ion batteries. <i>Carbon</i> , 2019, 147, 214-226.	10.3	41
20	Amorphous to crystalline transition studied in hydrated MoO ₃ . <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 135, 88-94.	3.5	40
21	Effect of water and fluoride content on morphology and barrier layer properties of TiO ₂ nanotubes grown in ethylene glycol-based electrolytes. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2939-2947.	2.5	37
22	Methanol electro-oxidation reaction at the interface of (bi)-metallic (PtNi) synthesized nanoparticles supported on carbon Vulcan. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6117-6130.	7.1	36
23	Synthesis of a novel poly-thiolated magnetic nano-platform for heavy metal adsorption. Role of thiol and carboxyl functions. <i>Applied Surface Science</i> , 2016, 386, 160-177.	6.1	35
24	Versailles Project on Advanced Materials and Standards Interlaboratory Study on Measuring the Thickness and Chemistry of Nanoparticle Coatings Using XPS and LEIS. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24070-24079.	3.1	33
25	Preparation of Cu mordenite by ionic exchange reaction under milling: A favorable route to form the mono-(1/4-oxo) dicopper active species. <i>Microporous and Mesoporous Materials</i> , 2014, 185, 113-120.	4.4	32
26	Characterization of anodic deposits formed on Pb-Ag electrodes during electrolysis in mimic zinc electrowinning solutions with different concentrations of Mn(II). <i>Hydrometallurgy</i> , 2015, 156, 53-62.	4.3	32
27	Pd and Pd@PdO core-shell nanoparticles supported on Vulcan carbon XC-72R: comparison of electroactivity for methanol electro-oxidation reaction. <i>Journal of Materials Science</i> , 2019, 54, 13694-13714.	3.7	32
28	Challenges of modelling real nanoparticles: Ni@Pt electrocatalysts for the oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28286-28297.	2.8	30
29	Supramolecular intermediates in the synthesis of polymeric carbon nitride from melamine cyanurate. <i>Journal of Solid State Chemistry</i> , 2015, 226, 170-178.	2.9	29
30	Experimental and Theoretical Analysis Accounting for Differences of Pyrite and Chalcopyrite Oxidative Behaviors for Prospective Environmental and Bioleaching Applications. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18364-18379.	3.1	28
31	Corrosion behavior of AISI 316L borided and non-borided steels immersed in a simulated body fluid solution. <i>Surface and Coatings Technology</i> , 2015, 280, 384-395.	4.8	27
32	Chemical components distribution and morphology of microcapsules of paprika oleoresin by microscopy and spectroscopy. <i>Food Hydrocolloids</i> , 2018, 81, 6-14.	10.7	27
33	Electrochemical Dechlorination of 2-Chlorophenol on Pd/Ti, Ni/Ti and Pd-Ni Alloy/Ti Electrodes. <i>Journal of the Electrochemical Society</i> , 2015, 162, E223-E230.	2.9	26
34	One-step synthesis and photocatalytic behavior for H ₂ production from water of ZnS/MoS ₂ composite material. <i>Catalysis Today</i> , 2021, 360, 99-105.	4.4	26
35	Physicochemical Study of Nanocapsular Layered Double Hydroxides Evolution. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5547-5555.	3.1	25
36	Nitrogen-carbon graphite-like semiconductor synthesized from uric acid. <i>Carbon</i> , 2017, 121, 368-379.	10.3	23

#	ARTICLE	IF	CITATIONS
37	XPS and EIS studies to account for the passive behavior of the alloy Ti-6Al-4V in Hank's solution. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 3187-3196.	2.5	23
38	Study of acid-base properties of supported heteropoly acids in the reactions of secondary alcohols dehydration. <i>Catalysis Today</i> , 2014, 220-222, 32-38.	4.4	20
39	Transparent and low surface roughness HfO ₂ : Tb ³⁺ , Eu ³⁺ luminescent thin films deposited by USP technique. <i>Ceramics International</i> , 2016, 42, 2446-2455.	4.8	19
40	Preparation and characterization of Sb ₂ O ₅ -doped Ti/RuO ₂ -ZrO ₂ for dye decolorization by means of active chlorine. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 3153-3162.	2.5	18
41	Efficient mineralization of benzoic and phthalic acids in water by catalytic ozonation using a nickel oxide catalyst. <i>New Journal of Chemistry</i> , 2015, 39, 7839-7848.	2.8	18
42	Effect of Metal Substrate on Photo(electro)catalytic Activity of B-Doped Graphene Modified TiO ₂ Thin Films: Role of Iron Oxide Nanoparticles at Grain Boundaries of TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 297-306.	3.1	18
43	Application of the Heat Balance Integral Method to the growth kinetics of nickel boride layers on an Inconel 718 superalloy. <i>Surface and Coatings Technology</i> , 2021, 420, 127355.	4.8	18
44	Photo-electrochemical and ozonation process to degrade ciprofloxacin in synthetic municipal wastewater, using C, N-codoped TiO ₂ with high visible-light absorption. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107380.	6.7	18
45	Iron Electrodeposition from Fe(II) Ions Dissolved in a Choline Chloride: Urea Eutectic Mixture. <i>Journal of the Electrochemical Society</i> , 2018, 165, D808-D812.	2.9	17
46	High-throughput study of the iron promotional effect over Pt/WO ₃ -ZrO ₂ catalysts on the skeletal isomerization of n-hexane. <i>Applied Catalysis A: General</i> , 2012, 431-432, 69-78.	4.3	16
47	On site formation of N-doped carbon nanofibers, an efficient electrocatalyst for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 30339-30348.	7.1	16
48	Synthesis and Characterization of the All Solid Z-Scheme Bi ₂ WO ₆ /Ag/AgBr for the Photocatalytic Degradation of Ciprofloxacin in Water. <i>Topics in Catalysis</i> , 2019, 62, 1011-1025.	2.8	16
49	Novelty g-C ₃ N ₄ /HAp composite as highly effective photocatalyst for Cr (VI) photoreduction. <i>Catalysis Today</i> , 2022, 388-389, 168-175.	4.4	16
50	Photocatalytic behavior for the phenol degradation of ZnAl layered double hydroxide functionalized with SDS. <i>Journal of Environmental Management</i> , 2021, 277, 111399.	7.8	16
51	Structural modifications in Au/Al ₂ O ₃ -CeO ₂ mixed oxides as a function of Ce ⁴⁺ content and its effects in the mineralization of the herbicide diuron. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 243, 23-32.	3.9	15
52	Bifunctional electrocatalysts for oxygen reduction/evolution reactions derived from NiCoFe LDH materials. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 947-957.	2.9	15
53	Enhanced performance of urea electro-oxidation in alkaline media on PtPdNi/C, PtNi/C, and Ni/C catalysts synthesized by one-pot reaction from organometallic precursors. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 21419-21432.	7.1	15
54	Synthesis of 1,2-propanediol through glycerol hydrogenolysis on Cu-Al mixed oxides. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2015, 116, 205-222.	1.7	14

#	ARTICLE	IF	CITATIONS
55	Y-OH-decorated-Pt/C electrocatalyst for oxygen reduction reaction. International Journal of Hydrogen Energy, 2016, 41, 23318-23328.	7.1	14
56	Synthesis and characterization of Cu-doped polymeric carbon nitride. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 171-180.	2.1	14
57	Methanol Electro-Oxidation on Pt-Carbon Vulcan Catalyst Modified with WO ₃ Nanostructures: An Approach to the Reaction Sequence Using DEMS. Industrial & Engineering Chemistry Research, 2017, 56, 161-167.	3.7	14
58	Effect of Pd and Cu co-catalyst on the charge carrier trapping, recombination and transfer during photocatalytic hydrogen evolution over WO ₃ -TiO ₂ heterojunction. Journal of Materials Science, 2020, 55, 16641-16658.	3.7	14
59	Photocatalytic membrane reactor based on Mexican Natural Zeolite: RB5 dye removal by photo-Fenton process. Journal of Environmental Chemical Engineering, 2021, 9, 105281.	6.7	14
60	Hydrous cobalt-iridium oxide two-dimensional nanoframes: insights into activity and stability of bimetallic acidic oxygen evolution electrocatalysts. Nanoscale Advances, 2021, 3, 1976-1996.	4.6	14
61	Comparison of the activities of C ₂ N and BCNO towards Congo red degradation. Materials Chemistry and Physics, 2019, 221, 397-408.	4.0	13
62	Enhanced photocatalytic H ₂ production over g-C ₃ N ₄ /NiS hybrid photocatalyst. Materials Letters, 2021, 290, 129476.	2.6	13
63	Photocatalytic activity of a new composite material of Fe (III) oxide nanoparticles wrapped by a matrix of polymeric carbon nitride and amorphous carbon. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 630-636.	2.1	12
64	Ternary g-C ₃ N ₄ /NiOOH/Ag nanocomposite photocatalyst with efficient charges separation and high activity for H ₂ production. Fuel, 2020, 280, 118672.	6.4	12
65	Hydrothermal synthesis of a two-dimensional g-C ₃ N ₄ /MoS ₂ /MnOOH composite material and its potential application as photocatalyst. Journal of Chemical Technology and Biotechnology, 2019, 94, 3447-3456.	3.2	11
66	Effect of pH on the Barrier Layer of TiO ₂ Nanoporous Films Potentiostatically Grown in Aqueous Media Containing Fluoride Ions. Journal of the Electrochemical Society, 2013, 160, C291-C297.	2.9	10
67	Effect of trimesic acid as chelating agent in sulfided CoMoP/Al ₂ O ₃ catalyst for hydrodesulfurization of straight-run gas oil. Catalysis Today, 2020, 349, 244-255.	4.4	10
68	Pulse-Plating Electrodeposition of Metallic Bi in an Organic-Free Aqueous Electrolyte and Its Conversion into BiVO ₄ To Improve Photoelectrochemical Activity toward Pollutant Degradation under Visible Light. Journal of Physical Chemistry C, 2020, 124, 1421-1428.	3.1	10
69	Annealing impact on emission and phase varying of Nd-doped Si-rich-HfO ₂ films prepared by RF magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2020, 31, 4587-4594.	2.2	10
70	Effect of Chitosan on the Performance of NiMoP-Supported Catalysts for the Hydrodesulfurization of Dibenzothiophene. Journal of Nanomaterials, 2016, 2016, 1-13.	2.7	9
71	Reversible photochromic effect in the TiO ₂ -polymer hybrid system. Journal of Sol-Gel Science and Technology, 2017, 82, 51-58.	2.4	9
72	Corrosion Evaluation of Pipeline Steel API 5L X52 in partially deaerated Produced Water with High Chloride Content. International Journal of Electrochemical Science, 2018, 13, 7949-7967.	1.3	9

#	ARTICLE	IF	CITATIONS
73	On the Corrosion Mechanism of Borided X12CrNiMoV12-3 Steel Immersed in a Neutral Aqueous Solution Containing Chloride and Sulfate Ions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4868-4879.	2.2	9
74	Characterization of the Corrosion Layers Electrochemically Formed on the Lead-Silver/H ₂ SO ₄ +Mn(II) Interface. Journal of the Electrochemical Society, 2009, 156, C231.	2.9	8
75	Nanotubes with anatase nanoparticulate walls obtained from NH ₄ TiO ₃ nanotubes prepared by anodizing Ti. RSC Advances, 2016, 6, 41637-41643.	3.6	8
76	The Influence of Ni(II) and Co(II) Adsorptions in the Anomalous Behavior of Co-Ni Alloys: Density Functional Theory and Experimental Studies. ChemistrySelect, 2017, 2, 1826-1834.	1.5	7
77	Directing photocatalytic and photoelectrocatalytic performance of TiO ₂ by using TEA and NH ₄ F as doping precursors. Journal of Sol-Gel Science and Technology, 2016, 80, 462-473.	2.4	6
78	Preparation, characterization and electronic properties of fluorine-doped tin oxide films. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 48-51.	1.0	6
79	Changes in biooxidation mechanism and transient biofilm characteristics by As(V) during arsenopyrite colonization with <i>Acidithiobacillus thiooxidans</i> . Journal of Industrial Microbiology and Biotechnology, 2018, 45, 669-680.	3.0	6
80	In situ reactivation of spent NiMoP/Al ₂ O ₃ catalyst for hydrodesulfurization of straight-run gas oil. Catalysis Today, 2019, 329, 44-52.	4.4	6
81	Synthesis, characterization, and temperature-dependent electronic properties of ZnO nanorods using CBD techniques. Journal of Materials Science: Materials in Electronics, 2021, 32, 8944-8957.	2.2	6
82	Copper complexes within the supramolecular solid structure of cyanuric acid and melamine. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 688-697.	2.1	5
83	Photo-electrochemical and interfacial-process analysis of WO ₃ nanostructures supported on TiO ₂ : An approach to BPA oxidation. Materials Science in Semiconductor Processing, 2017, 72, 115-121.	4.0	5
84	Photo-Fenton Degradation of RB5 Dye in Aqueous Solution Using Fe Supported on Mexican Natural Zeolite. International Journal of Photoenergy, 2019, 2019, 1-15.	2.5	5
85	Ultrasonic spray pyrolyzed copper oxide and copper-aluminum oxide thin films: optical, structural and electronic properties. Materials Research Express, 2019, 6, 026424.	1.6	5
86	Hydration and Structural Transformations during Titanium Anodization under Alkaline Conditions. ECS Transactions, 2013, 50, 21-32.	0.5	4
87	Inhibition Effects of a Quaternary Ammonium-Based Ionic Liquid on Steel in Acid Solution: Electrochemical and Surface Analyses. International Journal of Electrochemical Science, 2016, 11, 7785-7800.	1.3	4
88	Mechanistic Aspects on the Electrografting of Carbon Surfaces by Oxidation of Carboxylates Bearing Unsaturated Groups. ChemElectroChem, 2020, 7, 4431-4439.	3.4	4
89	Hydroisomerization of n-hexane over Pt/WO _x -ZrO ₂ -TiO ₂ catalysts. Catalysis Today, 2021, 360, 12-19.	4.4	4
90	Effect of emulsification techniques on the distribution of components on the surface of microparticles obtained by spray drying. Food and Bioproducts Processing, 2021, 129, 115-123.	3.6	4

#	ARTICLE	IF	CITATIONS
91	Understanding the Surface State and Proton Adsorption Phenomena on Ni-based Alloys at the Hydrogen Evolution Zone in Alkaline Medium by EIS-XPS. <i>Journal of New Materials for Electrochemical Systems</i> , 2013, 16, 183-188.	0.6	4
92	The effect of titania precursors and ceria loadings on textural and chemical properties of TiO ₂ –CeO ₂ and Pt–Rh/TiO ₂ –CeO ₂ . <i>Journal of Sol-Gel Science and Technology</i> , 2015, 74, 707-717.	2.4	3
93	Approximations to defect chemistry in Bi ₄ Ti ₃ O ₁₂ . <i>Functional Materials Letters</i> , 2016, 09, 1642006.	1.2	2
94	Sol–gel synthesis and characterization of calcium-deficient hydroxyapatite photocatalysts suitable for hydrogen production: influence of the drip rate in the photocatalytic activity. <i>SN Applied Sciences</i> , 2019, 1, 1.	2.9	2
95	On a CVD-formed carbon nitrogen (C ₃ N) film doped with Cu and Zn. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2022, 30, 306-313.	2.1	2
96	Hydrothermal synthesis of unsupported MoS ₂ as catalyst for hydrodesulfurization of gas oil. <i>Petroleum Science and Technology</i> , 2016, 34, 1720-1725.	1.5	1
97	Visible Emission on Nanostructured CeO ₂ Thin Films Obtained by Spray Pyrolysis. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000235.	1.8	1
98	The induced effect of chemical and photo-assisted deposition of molybdenum sulfide on carbon towards the hydrogen evolution reaction. <i>Journal of Electroanalytical Chemistry</i> , 2020, 874, 114459.	3.8	1
99	BSA adsorption on Fe-17Cr in acid solution: electrochemical behaviour and surface composition. , 2006, , 357-363.		0