

L M Da Silva

List of Publications by Year in descending order

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63
papers

1,575
citations

361413

20
h-index

330143

37
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63
all docs

63
docs citations

63
times ranked

1508
citing authors

#	ARTICLE	IF	CITATIONS
1	Reviewing the fundamentals of supercapacitors and the difficulties involving the analysis of the electrochemical findings obtained for porous electrode materials. <i>Energy Storage Materials</i> , 2020, 27, 555-590.	18.0	179
2	Electrochemical ozone production: influence of the supporting electrolyte on kinetics and current efficiency. <i>Electrochimica Acta</i> , 2003, 48, 699-709.	5.2	146
3	Surface, kinetics and electrocatalytic properties of Ti/(IrO ₂ + Ta ₂ O ₅) electrodes, prepared using controlled cooling rate, for ozone production. <i>Electrochimica Acta</i> , 2004, 49, 3977-3988.	5.2	94
4	Green processes for environmental application. Electrochemical ozone production. <i>Pure and Applied Chemistry</i> , 2001, 73, 1871-1884.	1.9	73
5	How to Measure and Calculate Equivalent Series Resistance of Electric Double-Layer Capacitors. <i>Molecules</i> , 2019, 24, 1452.	3.8	68
6	Reduction of Hexavalent Chromium in Soil and Ground Water Using Zero-Valent Iron Under Batch and Semi-Batch Conditions. <i>Water, Air, and Soil Pollution</i> , 2009, 197, 49-60.	2.4	63
7	Nickel oxide nanoparticles supported onto oriented multi-walled carbon nanotube as electrodes for electrochemical capacitors. <i>Electrochimica Acta</i> , 2019, 298, 468-483.	5.2	50
8	Application of electrochemically generated ozone to the discoloration and degradation of solutions containing the dye Reactive Orange 122. <i>Journal of Hazardous Materials</i> , 2009, 164, 10-17.	12.4	47
9	Electrochemical impedance spectroscopy study during accelerated life test of conductive oxides: Ti/(Ru + Ti + Ce)O ₂ -system. <i>Electrochimica Acta</i> , 2004, 49, 4893-4906.	5.2	45
10	Electrochemical impedance spectroscopy study of the oxygen evolution reaction on a gas-evolving anode composed of lead dioxide microfibers. <i>Electrochimica Acta</i> , 2013, 90, 332-343.	5.2	40
11	Ragone Plots for Electrochemical Double-Layer Capacitors. <i>Batteries and Supercaps</i> , 2021, 4, 1291-1303.	4.7	36
12	Characterization of an electrochemical reactor for the ozone production in electrolyte-free water. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 855-864.	2.9	35
13	A rational experimental approach to identify correctly the working voltage window of aqueous-based supercapacitors. <i>Scientific Reports</i> , 2020, 10, 19195.	3.3	35
14	Niobium pentoxide nanoparticles @ multi-walled carbon nanotubes and activated carbon composite material as electrodes for electrochemical capacitors. <i>Energy Storage Materials</i> , 2019, 22, 311-322.	18.0	34
15	Characterisation of a laboratory electrochemical ozonation system and its application in advanced oxidation processes. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 523-530.	2.9	33
16	Investigation of surface properties of Ru-based oxide electrodes containing Ti, Ce and Nb. <i>Electrochimica Acta</i> , 2003, 48, 1885-1891.	5.2	27
17	Surface, kinetics and electrocatalytic properties of the Ti/(Ti+Ru+Ce)O ₂ -system for the oxygen evolution reaction in alkaline medium. <i>Electrochimica Acta</i> , 2006, 51, 2809-2818.	5.2	27
18	Improvement of the electrochemical properties of <i>in-situ</i> -grown boron-doped polycrystalline diamond electrodes deposited on tungsten wires using ethanol. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 1449-1457.	2.5	27

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19	Electrochemical Ozone Production as an Environmentally Friendly Technology for Water Treatment. <i>Clean - Soil, Air, Water</i> , 2008, 36, 34-44.	1.1	23
20	Core-niobium pentoxide carbon-shell nanoparticles decorating multiwalled carbon nanotubes as electrode for electrochemical capacitors. <i>Journal of Power Sources</i> , 2019, 434, 226737.	7.8	23
21	Electrochemical ozone production using electrolyte-free water for environmental applications. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 418-427.	6.7	21
22	Application of oxide fine-mesh electrodes composed of Sb-SnO ₂ for the electrochemical oxidation of Cibacron Marine FG using an SPE filter-press reactor. <i>Electrochimica Acta</i> , 2014, 146, 714-732.	5.2	20
23	Characterization of porous cobalt hexacyanoferrate and activated carbon electrodes under dynamic polarization conditions in a sodium-ion pseudocapacitor. <i>Journal of Energy Chemistry</i> , 2021, 54, 53-62.	12.9	20
24	Multi-walled carbon nanotubes and activated carbon composite material as electrodes for electrochemical capacitors. <i>Journal of Energy Storage</i> , 2021, 33, 100738.	8.1	20
25	Fabrication and characterization of a porous gas-evolving anode constituted of lead dioxide microfibers electroformed on a carbon cloth substrate. <i>Electrochimica Acta</i> , 2012, 70, 365-374.	5.2	19
26	Determinação de nimesulida por análise por injeção em fluxo com detecção amperométrica de múltiplos pulsos. <i>Química Nova</i> , 2013, 36, 1296-1302.	0.3	19
27	Surface and Electrochemical Properties of Radially Oriented Multiwalled Carbon Nanotubes Grown on Stainless Steel Mesh. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3684-A3696.	2.9	18
28	Highly stable nickel-aluminum alloy current collectors and highly defective multi-walled carbon nanotubes active material for neutral aqueous-based electrochemical capacitors. <i>Journal of Energy Storage</i> , 2019, 23, 116-127.	8.1	18
29	Antimicrobial alumina nanobiostructures of disulfide- and triazole-linked peptides: Synthesis, characterization, membrane interactions and biological activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 177, 94-104.	5.0	17
30	Pseudocapacitive behaviour of iron oxides supported on carbon nanofibers as a composite electrode material for aqueous-based supercapacitors. <i>Journal of Energy Storage</i> , 2021, 42, 103052.	8.1	17
31	Niobium pentoxide nanoparticles decorated graphene as electrode material in aqueous-based supercapacitors: Accurate determination of the working voltage window and the analysis of the distributed capacitance in the time domain. <i>Journal of Energy Storage</i> , 2021, 44, 103371.	8.1	16
32	Study of the aging process of nanostructured porous carbon-based electrodes in electrochemical capacitors filled with aqueous or organic electrolytes. <i>Journal of Energy Storage</i> , 2020, 28, 101249.	8.1	15
33	Simultaneous Determination of Paracetamol and Ibuprofen in Pharmaceutical Samples by Differential Pulse Voltammetry Using a Boron-Doped Diamond Electrode. <i>Journal of the Brazilian Chemical Society</i> , 2014, , .	0.6	14
34	Characterisation of silica-supported Fe-Ni bimetallic nanoparticles and kinetic study of reductive degradation of the drug nimesulide. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 4354-4365.	6.7	14
35	Nanobiostructure of fibrous-like alumina functionalized with an analog of the BP100 peptide: Synthesis, characterization and biological applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 163, 275-283.	5.0	14
36	Charge-storage mechanism of highly defective NiO nanostructures on carbon nanofibers in electrochemical supercapacitors. <i>Nanoscale</i> , 2021, 13, 9590-9605.	5.6	14

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37	Fabrication and characterization of oxide fine-mesh electrodes composed of Sb-SnO ₂ and study of oxygen evolution from the electrolysis of electrolyte-free water in a solid polymer electrolyte filter-press cell: Possibilities for the combustion of organic pollutants. <i>Electrochimica Acta</i> , 2014, 121, 1-14.	5.2	13
38	Alternative method to obtain the Tafel plot for simple electrode reactions using batch injection analysis coupled with multiple-pulse amperometric detection. <i>Electrochimica Acta</i> , 2017, 242, 180-186.	5.2	13
39	Pseudo-capacitive behavior of multi-walled carbon nanotubes decorated with nickel and manganese (hydr)oxides nanoparticles. <i>Journal of Energy Storage</i> , 2020, 31, 101583.	8.1	13
40	Preparation, characterization, and application in biosensors of functionalized platforms with poly(4-aminobenzoic acid). <i>Journal of Materials Science</i> , 2015, 50, 1103-1116.	3.7	12
41	Chemical Reduction of Hexavalent Chromium and Its Immobilisation Under Batch Conditions Using a Slurry Reactor. <i>Water, Air, and Soil Pollution</i> , 2009, 203, 305-315.	2.4	11
42	Environmentally Friendly Functionalization of Porous Carbon Electrodes for Aqueous-Based Electrochemical Capacitors. <i>IEEE Nanotechnology Magazine</i> , 2019, 18, 73-82.	2.0	10
43	Supercapacitive properties, anomalous diffusion, and porous behavior of nanostructured mixed metal oxides containing Sn, Ru, and Ir. <i>Electrochimica Acta</i> , 2019, 295, 302-315.	5.2	10
44	Direct observation of the CO ₂ formation and C-H consumption of carbon electrode in an aqueous neutral electrolyte supercapacitor by in-situ FTIR and Raman. <i>Journal of Energy Chemistry</i> , 2022, 71, 488-496.	12.9	10
45	In-situ electrochemical and operando Raman techniques to investigate the effect of porosity in different carbon electrodes in organic electrolyte supercapacitors. <i>Journal of Energy Storage</i> , 2022, 50, 104219.	8.1	10
46	New Insights on the Sodium Water-in-Salt Electrolyte and Carbon Electrode Interface from Electrochemistry and Operando Raman Studies. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61139-61153.	8.0	10
47	Tungsten oxide and carbide composite synthesized by hot filament chemical deposition as electrodes in aqueous-based electrochemical capacitors. <i>Journal of Energy Storage</i> , 2019, 26, 100905.	8.1	9
48	Influência das condições de resfriamento sobre as propriedades superficiais e eletroquímicas de anodos dimensionalmente estáveis. <i>Química Nova</i> , 2011, 34, 200-205.	0.3	9
49	Robust, freestanding, and bendable multi-walled carbon nanotube buckypapers as electrode materials for quasi-solid-state potassium-ion supercapacitors. <i>Diamond and Related Materials</i> , 2021, 115, 108354.	3.9	8
50	Chemical Reduction of Hexavalent Chromium Present in Contaminated Soil using a Packed-Bed Column Reactor. <i>Clean - Soil, Air, Water</i> , 2009, 37, 858-865.	1.1	7
51	Fabrication and characterisation of mixed oxide-covered mesh electrodes of nominal composition Ni _x Co _(1-x) O supported on stainless-steel prepared by thermal decomposition using the slow cooling rate method. <i>Electrochimica Acta</i> , 2016, 194, 127-135.	5.2	7
52	Fabrication and characterisation of a mixed oxide-covered mesh electrode composed of NiCo ₂ O ₄ and its capability of generating hydroxyl radicals during the oxygen evolution reaction in electrolyte-free water. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1289-1302.	2.5	7
53	Electrochemical Behavior of Symmetric Electrical Double-Layer Capacitors and Pseudocapacitors and Identification of Transport Anomalies in the Interconnected Ionic and Electronic Phases Using the Impedance Technique. <i>Nanomaterials</i> , 2022, 12, 676.	4.1	7
54	Electrochemical investigation of the passive behaviour of biomaterials based on Ag-Sn and Cu-Zn-Al in carbonate buffer in the absence and presence of chloride. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 961-969.	2.9	6

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55	An environmentally friendly electrochemical reactor for the degradation of organic pollutants in the total absence of a liquid electrolyte: A case study using diclofenac as a model pollutant. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 3873-3881.	6.7	6
56	Synthesis, characterization and electrochemical behavior of the vanadium pentoxide/cetyl pyridinium chloride hybrid material. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 305-312.	2.5	5
57	Degradation of paracetamol in a bubble column reactor with ozone generated in electrolyte-free water using a solid polymer electrolyte filter-press electrochemical reactor. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1349-1363.	2.5	3
58	Synthesis, Characterization, and Application of Fe@Ni Bimetallic Nanoparticles for the Reductive Degradation of Nimesulide. <i>Clean - Soil, Air, Water</i> , 2017, 45, .	1.1	2
59	Double-pulse chronoamperometry using short times for the kinetic study of simple quasi-reversible electrochemical reactions at low overpotentials. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113291.	3.8	2
60	Decolorization, Degradation and Toxicity of Dye Solutions Containing Orange Cassafix® CA-2R after UV/H ₂ O ₂ Oxidation under Laminar Flow Conditions. <i>Journal of Advanced Oxidation Technologies</i> , 2014, 17, .	0.5	1
61	Revisiting ideal gases and proposal of a simple experiment for determining atmospheric pressure in the laboratory. <i>Quimica Nova</i> , 2018, , .	0.3	1
62	Enhanced ferroelectricity and conductance in iron-doped polystyrene sulfonate. <i>Journal of Non-Crystalline Solids</i> , 2019, 503-504, 103-109.	3.1	1
63	Synthesis of chitosan-stabilised bimetallic nanoparticles containing Fe and Ni and the reductive degradation of nimesulide. <i>Eletica Quimica</i> , 2018, 43, 10.	0.5	1