Michel Cassir

List of Publications by Year
in descending order

45 papers	959 citations	361413 20 h-index	454955 30 g-index
47 all docs	47 docs citations	47 times ranked	848 citing authors

#	Article	IF	Citations
1	Corrosion analysis of AISI 430 stainless steel in the presence of Escherichia coli and Staphylococcus aureus. Corrosion Science, 2021, 181, 109204.	6.6	9
2	Oxidation behavior of H2 and CO produced by H2O and/or CO2 reduction in molten carbonates: Effect of gas environment and hydroxides. Electrochimica Acta, 2021, 395, 139202.	5.2	1
3	Input on the Measurement and Comprehension of CO₂ Solubility in Molten Alkali Carbonates in View of Its Valorization. Journal of the Electrochemical Society, 2020, 167, 064504.	2.9	11
4	Electrolytic Cell Design to Simulate the Electrochemical Skin Response. Electroanalysis, 2019, 31, 22-30.	2.9	0
5	Electrochemical Behavior of Stainless Steels for Sudomotor Dysfunction Applications. Electroanalysis, 2018, 30, 162-169.	2.9	2
6	Electrochemical Behavior of Electrode Materials (Nickel and Stainless Steels) for Sudomotor Dysfunction Applications: A Review. Electroanalysis, 2018, 30, 2525-2534.	2.9	4
7	Influence of pressure on the electrical and electrochemical behaviour of high-temperature steam electrolyser La0.6Sr0.4Co0.2Fe0.8O3 anode. Journal of Solid State Electrochemistry, 2018, 22, 3663-3671.	2.5	2
8	Mechanisms of enhanced lithium intercalation into thin film V 2 O 5 in ionic liquids investigated by X-ray photoelectron spectroscopy and time-of-flight secondary ion mass spectrometry. Journal of Power Sources, 2017, 364, 61-71.	7.8	1
9	Influence of Cs and Rb additions in LiK and LiNa molten carbonates on the behaviour of MCFC commercial porous Ni cathode. International Journal of Hydrogen Energy, 2017, 42, 1853-1858.	7.1	9
10	Mechanistic approach of the electrochemical reduction of CO2 into CO at a gold electrode in molten carbonates by cyclic voltammetry. International Journal of Hydrogen Energy, 2016, 41, 18706-18712.	7.1	22
11	Corrosion Behavior of Biocompatible Stainless Steels in Physiological Medium for Nonâ€invasive Diagnosis of Small Fiber Neuropathies Applications. Electroanalysis, 2016, 28, 380-384.	2.9	4
12	Novel La2-x Cu x NiO4Â±Î´ /La4Ni3O10-Î´ composite materials for intermediate temperature solid oxide fuel cells, IT-SOFC. Journal of Solid State Electrochemistry, 2016, 20, 911-920.	2.5	6
13	CO2 electrochemical reduction into CO or C in molten carbonates: a thermodynamic point of view. Electrochimica Acta, 2015, 160, 74-81.	5.2	58
14	Effect of pressure on high temperature steam electrolysis: Model and experimental tests. International Journal of Hydrogen Energy, 2015, 40, 11378-11384.	7.1	7
15	A kinetic approach on the effect of Cs addition on oxygen reduction for MCFC application. Electrochimica Acta, 2015, 184, 295-300.	5.2	11
16	Electrochemical detection of nitromethane vapors combined with a solubilization device. Talanta, 2015, 132, 334-338.	5.5	4
17	Small fiber neuropathy diagnosis by a non-invasive electrochemical method: mimicking the in-vivo responses by optimization of electrolytic cell parameters. Electrochimica Acta, 2014, 140, 37-41.	5.2	7
18	Effect of Lithiation Potential and Cycling on Chemical and Morphological Evolution of Si Thin Film Electrode Studied by ToF-SIMS. ACS Applied Materials & Interfaces, 2014, 6, 13023-13033.	8.0	49

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19	Thermodynamic and experimental approach of electrochemical reduction of CO2 in molten carbonates. International Journal of Hydrogen Energy, 2014, 39, 12330-12339.	7.1	48
20	Electrochemical properties of Atomic layer deposition processed CeO2 as a protective layer for the molten carbonate fuel cell cathode. Electrochimica Acta, 2014, 140, 174-181.	5.2	16
21	Electrochemical behavior of Mxâ^'1Ox (MÂ=ÂTi, Ce and Co) ultra-thin protective layers for MCFC cathode. International Journal of Hydrogen Energy, 2014, 39, 12233-12241.	7.1	10
22	TiO2 protective coating processed by Atomic Layer Deposition for the improvement of MCFC cathode. International Journal of Hydrogen Energy, 2013, 38, 13443-13452.	7.1	23
23	Optimization of the electrochemical reduction of nitromethane for the development of an integrated portable sensor. Electrochimica Acta, 2013, 99, 94-101.	5.2	2
24	Noninvasive Galvanic Skin Sensor for Early Diagnosis of Sudomotor Dysfunction: Application to Diabetes. IEEE Sensors Journal, 2012, 12, 456-463.	4.7	35
25	Ageing of nickel used as sensitive material for early detection of sudomotor dysfunction. Applied Surface Science, 2012, 258, 2724-2731.	6.1	7
26	Theoretical predictions vs. experimental measurements of the electrical conductivity of molten Li2CO3â€“K2CO3 modified by additives. International Journal of Hydrogen Energy, 2012, 37, 19357-19364.	7.1	32
27	Gadolinia-doped ceria mixed with alkali carbonates for SOFC applications: II â€“ An electrochemical insight. International Journal of Hydrogen Energy, 2012, 37, 19371-19379.	7.1	71
28	Strategies and new developments in the field of molten carbonates and high-temperature fuel cells in the carbon cycle. International Journal of Hydrogen Energy, 2012, 37, 19345-19350.	7.1	61
29	Electrochemical Characterization of Stainless Steel as a New Electrode Material in a Medical Device for the Diagnosis of Sudomotor Dysfunction. Electroanalysis, 2012, 24, 1324-1333.	2.9	12
30	La1.98Ni04Â±Î´, a new cathode material for solid oxide fuel cell: Impedance spectroscopy study and compatibility with gadolinia-doped ceria and yttria-stabilized zirconia electrolytes. Electrochimica Acta, 2012, 75, 80-87.	5.2	32
31	Electrochemical Kinetics of Anodic Ni Dissolution in Aqueous Media as a Function of Chloride Ion Concentration at pH Values Close to Physiological Conditions. Electroanalysis, 2012, 24, 386-391.	2.9	8
32	Gadolinia-doped ceria mixed with alkali carbonates for solid oxide fuel cell applications: I. A thermal, structural and morphological insight. Journal of Power Sources, 2011, 196, 5546-5554.	7.8	75
33	SUDOSCAN Device for the Early Detection of Diabetes: In Vitro Measurement versus Results of Clinical Tests. Sensor Letters, 2011, 9, 2147-2149.	0.4	5
34	Electrochemical Characterization of Nickel Electrodes in Phosphate and Carbonate Electrolytes in View of Assessing a Medical Diagnostic Device for the Detection of Early Diabetes. Electroanalysis, 2010, 22, 2483-2490.	2.9	24
35	Synthesis, structural analysis and electrochemical performance of low-copper content La2Ni1â^'xCuxO4+Î´ materials as new cathodes for solid oxide fuel cells. Electrochimica Acta, 2009, 54, 6341-6346.	5.2	30
36	Porous nickel MCFC cathode coated by potentiostatically deposited cobalt oxide. Journal of Power Sources, 2007, 171, 261-267.	7.8	10

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37	Morphological, structural and electrochemical analysis of sputter-deposited ceria and titania coatings for MCFC application. Journal of Power Sources, 2006, 160, 821-826.	7.8	16
38	Electrochemical deposition of Co3O4 thin layers in order to protect the nickel-based molten carbonate fuel cell cathode. Journal of Electroanalytical Chemistry, 2003, 548, 95-107.	3.8	36
39	Chemical and electrochemical behaviour of Niâ€“Ti in the cathodic conditions used in molten carbonate fuel cells. Journal of Electroanalytical Chemistry, 2001, 503, 69-77.	3.8	24
40	Title is missing!. Journal of Applied Electrochemistry, 2000, 30, 1405-1413.	2.9	37
41	Behaviour of titanium species in molten Li2CO3+Na2CO3 and Li2CO3+K2CO3 in the anodic conditions used in molten carbonate fuel cells. Journal of Electroanalytical Chemistry, 1999, 474, 9-15.	3.8	25
42	Behavior of titanium species in molten Li2CO3â€“Na2CO3 and Li2CO3â€“K2CO3 under anodic and cathodic conditions. I â€“ Thermodynamic predictions at 550â€“750Â°C. Electrochimica Acta, 1998, 43, 1991-2003.	5.2	28
43	Thermodynamic and electrochemical behavior of nickel in molten Li2CO3â€“Na2CO3 modified by addition of calcium carbonate. Journal of Electroanalytical Chemistry, 1998, 452, 127-137.	3.8	38
44	Identification and electrochemical characterization of in situ produced and added reduced oxygen species in molten Li2CO3 + K2CO3. Journal of Electroanalytical Chemistry, 1997, 433, 195-205.	3.8	34
45	Molten carbonate fuel cells: contribution to the study of cathode behaviour and oxygen reduction in molten Li2CO3î—¸K2CO3 at 650Â°C. Journal of Power Sources, 1996, 61, 149-153.	7.8	13