

Tulio Matencio

List of Publications by Year in descending order

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83
papers

1,510
citations

331259

21
h-index

344852

36
g-index

85
all docs

85
docs citations

85
times ranked

2106
citing authors

#	ARTICLE	IF	CITATIONS
1	SOFC-APU systems for aircraft: A review. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16311-16333.	3.8	94
2	Metal complexes of 2-benzoylpyridine-derived thiosemicarbazones: structural, electrochemical and biological studies. <i>Journal of Coordination Chemistry</i> , 2005, 58, 1307-1319.	0.8	88
3	Ionic exchanges in dodecylbenzenesulfonate doped polypyrrole Part 1. Optical beam deflection studies. <i>Synthetic Metals</i> , 1995, 72, 59-64.	2.1	81
4	Electrochemical impedance spectroscopy and linear polarization applied to evaluation of porosity of phosphate conversion coatings on electrogalvanized steels. <i>Applied Surface Science</i> , 2006, 253, 2875-2884.	3.1	74
5	Nanostructured γ -FeOOH: a novel photocatalyst for water splitting. <i>Journal of Materials Chemistry</i> , 2011, 21, 10280.	6.7	66
6	Ionic exchanges in dodecylbenzenesulfonate-doped polypyrrole Part II: Electrochemical quartz crystal microbalance study. <i>Synthetic Metals</i> , 1995, 72, 283-287.	2.1	61
7	Mass transfer and convolution. <i>Journal of Electroanalytical Chemistry</i> , 1994, 368, 183-191.	1.9	56
8	Electrical degradation of porous and dense LSM/YSZ interface. <i>Solid State Ionics</i> , 2006, 177, 915-921.	1.3	50
9	Physicochemical study of floranol, its copper(II) and iron(III) complexes, and their inhibitory effect on LDL oxidation. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 935-943.	1.5	45
10	Electrochemical recycling of cobalt from spent cathodes of lithium-ion batteries: its application as coating on SOFC interconnects. <i>Journal of Applied Electrochemistry</i> , 2011, 41, 1373-1379.	1.5	45
11	Thermal, mechanical and electrochemical behaviour of poly(vinyl chloride)/ polypyrrole blends (PVC/PPy). <i>Polymer</i> , 1996, 37, 5165-5170.	1.8	44
12	Electrochemical impedance spectroscopy studies for chemically prepared poly(o-methoxyaniline) doped with functionalized acids. <i>Electrochimica Acta</i> , 1998, 43, 457-464.	2.6	41
13	Electrochemical recycling of cobalt from spent cathodes of lithium-ion batteries: its application as supercapacitor. <i>Journal of Applied Electrochemistry</i> , 2012, 42, 361-366.	1.5	41
14	Electrochemical study of $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_3$ during oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6400-6406.	3.8	40
15	Electrochemical behavior of polyurethane ether electrolytes/carbon black composites and application to double layer capacitor. <i>Electrochimica Acta</i> , 2001, 46, 1629-1634.	2.6	32
16	Synthesis and characterization of NiO-YSZ for SOFCs. <i>Materials Research Bulletin</i> , 2009, 44, 451-456.	2.7	28
17	The anode environmentally friendly for water electrolysis based in LiCoO_2 recycled from spent lithium-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16795-16799.	3.8	27
18	Electrochemical study of chalcopyrite dissolution in sulfuric, nitric and hydrochloric acid solutions. <i>International Journal of Mineral Processing</i> , 2016, 149, 25-33.	2.6	26

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19	Effect of the Current Density on Morphology, Porosity, and Tribological Properties of Electrodeposited Nickel on Copper. <i>Journal of Materials Engineering and Performance</i> , 2008, 17, 741-745.	1.2	23
20	Electrochemical polymerization and characterization of new copolymers of 3-substituted thiophenes. <i>Synthetic Metals</i> , 2010, 160, 22-27.	2.1	23
21	Non-Enzymatic Impedimetric Sensor Based on 3-Aminophenylboronic Acid Functionalized Screen-Printed Carbon Electrode for Highly Sensitive Glucose Detection. <i>Sensors</i> , 2019, 19, 1686.	2.1	23
22	Copper hexacyanoferrate as cathode material for hydrogen peroxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25708-25718.	3.8	22
23	Faradaic and non-faradaic electrochemical impedance spectroscopy as transduction techniques for sensing applications. <i>International Journal of Biosensors & Bioelectronics</i> , 2019, 5, .	0.2	22
24	Study of the rheological behavior of an anode slurry and the microstructural properties of an anode functional film obtained by spray coating. <i>Powder Technology</i> , 2009, 192, 352-358.	2.1	21
25	Preparation of Magnetoliposomes with a Green, Low-Cost, Fast and Scalable Methodology and Activity Study against <i>S. aureus</i> and <i>C. freundii</i> Bacterial Strains. <i>Journal of the Brazilian Chemical Society</i> , 2018, 29, 2636-2645.	0.6	21
26	Poly(2,5-dimethoxy aniline)/fluoropolymer blend coatings to corrosion inhibition on stainless steel. <i>Synthetic Metals</i> , 2006, 156, 1036-1042.	2.1	20
27	Temperature and time dependence on ZnS microstructure and phases obtained through hydrothermal decomposition of diethyldithiocarbamate complexes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6796.	1.3	20
28	Blends of poly(2,5-dimethoxy aniline) and fluoropolymers as protective coatings. <i>Electrochimica Acta</i> , 2004, 49, 3507-3516.	2.6	18
29	Synthesis of new porphyrin/fullerene supramolecular assemblies: a spectroscopic and electrochemical investigation of their coordination equilibrium in solution. <i>Tetrahedron</i> , 2011, 67, 228-235.	1.0	18
30	Electrochemical recycling of cell phone Li-ion batteries: application as corrosion protector of AISI 430 stainless steel in artificial seawater. <i>Ionics</i> , 2016, 22, 735-741.	1.2	18
31	Ethanol extract of propolis as a protective coating for mild steel in chloride media. <i>Journal of Coatings Technology Research</i> , 2016, 13, 543-555.	1.2	17
32	Electrical and Microstructural Aging of Porous Lanthanum Strontium Manganite/Yttria-Doped Cubic Zirconia Electrodes. <i>Chemistry of Materials</i> , 2001, 13, 3954-3961.	3.2	15
33	Barium-modified NiOâ€“YSZ/NiOâ€“GDC cermet as new anode material for solid oxide fuel cells (SOFC). <i>Solid State Ionics</i> , 2014, 261, 36-44.	1.3	15
34	Development of an Impedimetric Immunosensor for Specific Detection of Snake Venom. <i>BioNanoScience</i> , 2018, 8, 988-996.	1.5	15
35	Solid oxide fuel cell technology paths: National innovation system contributions from Japan and the United States. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 127, 109879.	8.2	15
36	Synthesis and electrochemical and optical characterization of poly(3-octadecylthiophene). <i>Synthetic Metals</i> , 2008, 158, 1037-1042.	2.1	14

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37	Electrical study of cathodic activation and relaxation of La _{0,80} Sr _{0,20} MnO ₃ . <i>Ionics</i> , 2009, 15, 227-232.	1.2	14
38	Analysis of hysteresis phenomenon as observed from voltammetric data of conducting polymers: part I. <i>Journal of the Brazilian Chemical Society</i> , 2003, 14, 90-96.	0.6	14
39	Synthesis and characterization of new 3-substituted thiophene copolymers. <i>Journal of the Brazilian Chemical Society</i> , 2011, 22, 248-256.	0.6	13
40	Development of a new hybrid CNT-TEPA@poly(3,4-ethylenedioxythiophene-co-3-(pyrrol-1-methyl)pyridine) for application as electrode active material in supercapacitors. <i>Polymer</i> , 2020, 194, 122368.	1.8	10
41	Correlation between yttria stabilized zirconia particle size and morphological properties of NiO@YSZ films prepared by spray coating process. <i>Ceramics International</i> , 2009, 35, 3421-3425.	2.3	9
42	Development of nanohybrids based on carbon nanotubes/P(EDOT-co-MPy) and P(EDOT-co-PyMP) copolymers as electrode materials for aqueous supercapacitors. <i>Electrochimica Acta</i> , 2020, 335, 135637.	2.6	9
43	Application of screen-printed carbon electrode as an electrochemical transducer in biosensors. <i>International Journal of Biosensors & Bioelectronics</i> , 2019, 5, .	0.2	9
44	Hysteresis, relaxation and ionic movements in conducting polymers studied by in-situ quartz microbalance, ESR and mirage effect. <i>Synthetic Metals</i> , 1991, 43, 2837.	2.1	8
45	Electrochemical study of poly(vinyl chloride)/polypyrrole blends. <i>Electrochimica Acta</i> , 1994, 39, 1393-1400.	2.6	8
46	Montagem e caracterização elétrica de pilhas a combustível de ácido sulfúrico (PaCOS). <i>Química Nova</i> , 2009, 32, 1297-1305.	0.3	8
47	Determination of the Mn ³⁺ /Mn ⁴⁺ ratio in La _{1-x} Sr _x MnO ₃ ±d powders. <i>Journal of Alloys and Compounds</i> , 2012, 521, 50-54.	2.8	8
48	Ionic Diffusion Processes in Polypyrrole. <i>Journal of the Brazilian Chemical Society</i> , 1994, 5, 191-196.	0.6	8
49	Variable capacitance and conductance in polyaniline : A simple model with interacting sites and a single quasi-reversible charge transfer. <i>Synthetic Metals</i> , 1991, 43, 3001-3004.	2.1	7
50	Cross-linking effect on thermal, conducting and electrochemical properties of an elastomeric polymer electrolyte. <i>Solid State Ionics</i> , 2003, 159, 301-311.	1.3	7
51	Ceramic Materials for Solid Oxide Fuel Cells. , 2011, , .		7
52	Bismuth sulphides prepared by thermal and hydrothermal decomposition of a single source precursor: the effect of reaction parameters on morphology, microstructure and catalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16236.	1.3	7
53	Corrosion in Hank's Solution and Mechanical Strength of Ultrafine-Grained Pure Iron. <i>Advanced Engineering Materials</i> , 2020, 22, 2000183.	1.6	7
54	Inhibitory Effect of Ethanolic Extract of Propolis on Corrosion of Ferritic Stainless Steel in Chloride Media. <i>Chemical and Biochemical Engineering Quarterly</i> , 2019, 33, 213-219.	0.5	7

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55	A new molecular magnetic semiconductor based on tetrathiafulvalene (tff) and oxamato ligand (opba): [tff] ₂ [Cu(opba)]·H ₂ O. Journal of the Brazilian Chemical Society, 2010, 21, 1274-1282.	0.6	6
56	Phase and morphology dependence on the annealing temperature of tin sulfides and oxides prepared by thermal decomposition of organotin precursors. Journal of Organometallic Chemistry, 2012, 715, 48-53.	0.8	6
57	Simultaneous quartz microbalance and mirage effect studies of poly(3-methoxythiophene) electrosynthesis and electrochemical characterisations. Electrochimica Acta, 2013, 105, 347-352.	2.6	6
58	Limiting Factors for a Planar Solid Oxide Fuel Cell Under Different Flow and Temperature Conditions. Fuel Cells, 2013, 13, n/a-n/a.	1.5	5
59	Influence of cathode functional layer composition on electrochemical performance of solid oxide fuel cells. Journal of Solid State Electrochemistry, 2016, 20, 2575-2580.	1.2	5
60	Oligômeros e polímeros derivados do tiofeno: síntese e aplicações. Química Nova, 2010, 33, 2165-2175.	0.3	4
61	Evaluation of the electrode/electrolyte contact quality in solid oxide fuel cells. Electrochimica Acta, 2012, 60, 224-229.	2.6	4
62	Metallic and Oxide Electrodeposition. , 2013, , .		4
63	Synthesis and electrochemical investigation of beta-substituted thiophene-based donor-acceptor copolymers with 3,4-ethylenedioxythiophene (EDOT). Journal of Solid State Electrochemistry, 2016, 20, 2541-2550.	1.2	4
64	Polyvinyl alcohol/walled carbon nanotubes nanocomposites with ordered macroporous structures prepared by templating. Journal of Applied Polymer Science, 2021, 138, 49837.	1.3	4
65	High Temperature Cyclic Oxidation Resistance of Iron Chromium Base Alloys. Chemical Engineering and Technology, 2010, 33, 334-340.	0.9	3
66	Obtaining Mn-Co Alloys in AISI 430 Steel from Lithium-Ion Battery Recycling: Application in SOFC Interconnectors. ChemEngineering, 2020, 4, 10.	1.0	3
67	Electrical and spectroelectrochemical investigation of thiophene-based donor-acceptor copolymers with 3,4-ethylenedioxythiophene. Polímeros, 2020, 30, .	0.2	3
68	Strategies for corrosion inhibition of slurry pipelines prior to commissioning. Revista Escola De Minas, 2016, 69, 161-166.	0.1	3
69	Correlation between morphological properties and ionic conductivity in an electrolyte based on poly(vinylidene fluoride) and poly (2-hydroxyethyl methacrylate). Materials Research, 2014, 17, 115-120.	0.6	2
70	Electrochemical Behavior of Screen-Printed Carbon Electrodes as Transducers in Biosensors. Corrosion, 2020, 76, 553-561.	0.5	2
71	Propriedades elétricas e magnéticas de novos compostos com o ânion condutor [Ni(dmit) ₂]- e radicais magnéticos nitronil nitróxido. Química Nova, 2007, 30, 904-908.	0.3	1
72	A importância da camada funcional em meia células catalíticas para pilhas PaCOS. Revista Materia, 2008, 13, 522-532.	0.1	1

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73	Preparation of High Porous Ni-YSZ Cermets Electrodes and Their Application for Methanol Oxidation. <i>Electrocatalysis</i> , 2013, 4, 71-75.	1.5	1
74	Solid oxide fuel cell™s interconnectors. , 2020, , 27-54.		1
75	TiO2 Sol-gel Coating as a Transducer Substrate for Impedimetric Immunosensors. <i>Chemical and Biochemical Engineering Quarterly</i> , 2020, 33, 437-447.	0.5	1
76	Importância dos materiais cerâmicos na nossa sociedade. <i>Revista Materia</i> , 2020, 25, .	0.1	1
77	Eletrodeposição de ligas Mn-Co em aço inoxidável ferrítico AISI 430 a partir da reciclagem de baterias Æon-Li: aplicação em interconectores das PaCOS. <i>Revista Materia</i> , 2021, 26, .	0.1	1
78	NiO/YSZ Composites for SOFC: Synthesis and Characterization. , 2006, , 621.		0
79	Estudo da contiguidade das fases do cermet Ni/ZrO ₂ . <i>Revista Materia</i> , 2008, 13, 597-604.	0.1	0
80	Propriedades reológicas e microestruturais de eletrólito de ZrO ₂ /Y ₂ O ₃ . <i>Revista Materia</i> , 2008, 13, 480-487.	0.1	0
81	A novel impedimetric sensor for trace level detection of dimethyl sulfide (DMS). <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10398-10407.	1.1	0
82	Enhanced Catalytic Performance of Strontium-Doped Lanthanum Manganites by the Presence of Molybdenum Oxides for Electro-Reduction of Hydrogen Peroxide. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	0
83	APLICAÇÃO DA ESPECTROSCOPIA NO INFRAVERMELHO E DIFRAÇÃO DE RAIOS-X NA DETERMINAÇÃO DE SACARINA EM ADOÇANTES LÍQUIDOS ARTIFICIAIS PELO MÉTODO VOLUMÉTRICO COM AG+. <i>Ecletica Quimica</i> , 0, 35, 25.	0.2	0