

# T A Simoes

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

732  
citations

471509

17  
h-index

552781

26  
g-index

42  
all docs

42  
docs citations

42  
times ranked

708  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spinel ferrite $\text{MFe}_2\text{O}_4$ ( $\text{M}=\text{Ni, Co, or Cu}$ ) nanoparticles prepared by a proteic sol-gel route for oxygen evolution reaction. <i>Advanced Powder Technology</i> , 2022, 33, 103391.	4.1	17
2	Tuning chemical and surface composition of nickel cobaltite-based nanocomposites through solvent and its impact on electrocatalytic activity for oxygen evolution. <i>Journal of Materials Science</i> , 2022, 57, 5097-5117.	3.7	3
3	Catalysts for hydrogen and oxygen evolution reactions (HER/OER) in cells. , 2022, , 457-470.		1
4	Comments on "A facile two-step synthesis of $\text{Ag/CuCo}_2\text{O}_4$ supported on nickel foam as a high-performance electrocatalyst for oxygen evolution reaction. <i>Materials Letters</i> 275 (2020) 128094." <i>Materials Letters</i> , 2021, 283, 128951.	2.6	0
5	Metal-organic frameworks as template for synthesis of $\text{Mn}^{3+}/\text{Mn}^{4+}$ mixed valence manganese cobaltites electrocatalysts for oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 124-136.	9.4	39
6	Nonwoven $\text{NiO}/\text{NiO}/\text{carbon}$ fibers for electrochemical water oxidation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3798-3810.	7.1	28
7	Microstructural influence of sigma phase on pitting corrosion behavior of duplex stainless steel/ $\text{NaCl}$ electrolyte couple. <i>Materials Chemistry and Physics</i> , 2021, 259, 124056.	4.0	27
8	Effect of two-step calcination on the formation of nickel oxide hollow nanofibers. <i>Open Ceramics</i> , 2021, 5, 100087.	2.0	4
9	The role of acetic acid in $\text{FeCO}_3$ scale deposition on $\text{CO}_2$ corrosion of API X65 carbon steel under high temperatures. <i>Corrosion Engineering Science and Technology</i> , 2021, 56, 553-564.	1.4	5
10	Effect of Cu-doping on the activity of calcium cobaltite for oxygen evolution reaction. <i>Materials Letters</i> , 2021, 298, 130026.	2.6	8
11	Fe-doped calcium cobaltites as electrocatalysts for oxygen evolution reaction. <i>Ceramics International</i> , 2021, 47, 26109-26118.	4.8	6
12	Role of oxygen vacancies on the energy storage performance of battery-type $\text{NiO}$ electrodes. <i>Ceramics International</i> , 2020, 46, 9233-9239.	4.8	26
13	Multifunctional solution blow spun $\text{NiFe}/\text{NiFe}_2\text{O}_4$ composite nanofibers: Structure, magnetic properties and OER activity. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 139, 109325.	4.0	34
14	Proteic sol-gel synthesis, structure and battery-type behavior of Fe-based spinels ( $\text{MFe}_2\text{O}_4$ , $\text{M}=\text{Cu, Co}$ ) <i>Tj ETQq0,0,0 rgBT /Overlock 1</i>	4.1	37
15	The Effect of Microstructural Changes on Mechanical and Electrochemical Corrosion Properties of Duplex Stainless Steel Aged for Short Periods. <i>Materials</i> , 2020, 13, 5511.	2.9	10
16	Low-field magnetic analysis for sigma phase embrittlement monitoring in thermally aged 22Cr duplex stainless steel. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 513, 167072.	2.3	8
17	$\text{Ni}/\text{NiO}$ -carbon composite fibers prepared by solution blow spinning: Structure and magnetic properties. <i>Ceramics International</i> , 2020, 46, 18933-18939.	4.8	5
18	The effect of different brines and temperatures on the competitive degradation mechanisms of $\text{CO}_2$ and $\text{H}_2\text{S}$ in API X65 carbon steel. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 80, 103405.	4.4	11

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19	Ni and Ce oxide-based hollow fibers as battery-like electrodes. Journal of Alloys and Compounds, 2020, 830, 154633.	5.5	8
20	CO <sub>2</sub> reforming of methane to produce syngas using Anti-sintering carbon-resistant Ni/CeO <sub>2</sub> fibers produced by solution blow spinning. Environmental Chemistry Letters, 2020, 18, 895-903.	16.2	19
21	Impact of the NiO nanostructure morphology on the oxygen evolution reaction catalysis. Journal of Materials Science, 2020, 55, 6648-6659.	3.7	62
22	Misfit-layered Ca-cobaltite-based cathodes for intermediate-temperature solid oxide fuel cell. , 2020, , 347-377.		0
23	Electrochemical behaviour and microstructural characterization of different austenitic stainless steel for biomedical applications. Materials Research Express, 2020, 7, 105402.	1.6	3
24	Improved mechanical performance of self-adhesive resin cement filled with hybrid nanofibers-embedded with niobium pentoxide. Dental Materials, 2019, 35, e272-e285.	3.5	23
25	The role of temperature and H <sub>2</sub> S (thiosulfate) on the corrosion products of API X65 carbon steel exposed to sweet environment. Journal of Petroleum Science and Engineering, 2019, 180, 78-88.	4.2	24
26	Solution blow spun nickel oxide/carbon nanocomposite hollow fibres as an efficient oxygen evolution reaction electrocatalyst. International Journal of Hydrogen Energy, 2019, 44, 14877-14888.	7.1	44
27	Chemical Evolution of CoCrMo Wear Particles: An in Situ Characterization Study. Journal of Physical Chemistry C, 2019, 123, 9894-9901.	3.1	4
28	Battery-like behavior of Ni-ceria based systems: Synthesis, surface defects and electrochemical assessment. Ceramics International, 2019, 45, 7157-7165.	4.8	23
29	1D hollow MFe <sub>2</sub> O <sub>4</sub> (M = Cu, Co, Ni) fibers by Solution Blow Spinning for oxygen evolution reaction. Journal of Colloid and Interface Science, 2019, 540, 59-65.	9.4	99
30	Evaluation of Micro-Crack Incidence and their Influence on the Corrosion Resistance of Steel Coated with Different Chromium Thicknesses. Revista Virtual De Quimica, 2019, 11, 264-274.	0.4	5
31	Electrochemical assessment of Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> nanofibres obtained by Solution Blow Spinning. Materials Letters, 2018, 221, 81-84.	2.6	23
32	Understanding the reactivity of CoCrMo-implant wear particles. Npj Materials Degradation, 2018, 2, .	5.8	11
33	Tribocorrosion evaluation of hydrogenated and silicon DLC coatings on carbon steel for use in valves, pistons and pumps in oil and gas industry. Wear, 2018, 394-395, 60-70.	3.1	28
34	Understanding the cathodic polarisation behaviour of the misfit [Ca <sub>2</sub> CoO <sub>3</sub> ][CoO <sub>2</sub> ] (C349) as oxygen electrode for IT-SOFC. Electrochimica Acta, 2018, 285, 214-220.	5.2	31
35	Toxicity and oxidative stress responses induced by nano- and micro-CoCrMo particles. Journal of Materials Chemistry B, 2017, 5, 5648-5657.	5.8	7
36	Effect of Microstructure on Hydrogen Diffusion in Weld and API X52 Pipeline Steel Base Metals under Cathodic Protection. International Journal of Corrosion, 2017, 2017, 1-14.	1.1	7

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37	Evidence for the dissolution of molybdenum during tribocorrosion of CoCrMo hip implants in the presence of serum protein. Acta Biomaterialia, 2016, 45, 410-418.	8.3	30
38	Bovine Serum Albumin binding to CoCrMo nanoparticles and the influence on dissolution. Journal of Physics: Conference Series, 2015, 644, 012039.	0.4	7
39	Microstructural characterization of low and high carbon CoCrMo alloy nanoparticles produced by mechanical milling. Journal of Physics: Conference Series, 2014, 522, 012059.	0.4	5