

# Roberto Spotorno

## List of Publications by Year in descending order

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38  
papers

290  
citations

933447

10  
h-index

1058476

14  
g-index

38  
all docs

38  
docs citations

38  
times ranked

221  
citing authors

#	ARTICLE	IF	CITATIONS
1	Residual alignment and its effect on weld strength in material-extrusion 3D-printing of polylactic acid. <i>Additive Manufacturing</i> , 2020, 36, 101415.	3.0	23
2	Microstructural and Electrical Characterization of Plasma Sprayed Cu-Mn Oxide Spinel as Coating on Metallic Interconnects for Stacking Solid Oxide Fuel Cells. <i>Fuel Cells</i> , 2015, 15, 728-734.	2.4	17
3	K44M ferritic stainless steel as possible interconnect material for SOFC stack operating at 600°C: Characterization of the oxidation behaviour at early working stages. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 3726-3738.	7.1	16
4	Structural Properties and Thermoelectric Performance of the Double-Filled Skutterudite (Sm,Gd) <sub>y</sub> (Fe <sub>x</sub> Ni <sub>1-x</sub> ) <sub>4</sub> Sb <sub>12</sub> . <i>Materials</i> , 2019, 12, 2451.	2.9	15
5	Solid Oxide Fuel Cell Performance Analysis through Local Modelling. <i>Catalysts</i> , 2020, 10, 519.	3.5	15
6	Effect of <i>Pseudomonas fluorescens</i> on the electrochemical behaviour of a single-phase Cu-Sn modern bronze. <i>Corrosion Science</i> , 2018, 139, 227-234.	6.6	13
7	Characterization of Metallic Interconnects Extracted from Solid Oxide Fuel Cell Stacks Operated up to 20,000 h in Real Life Conditions: The Air Side. <i>Energies</i> , 2020, 13, 6487.	3.1	12
8	Influence of Surface Finishing on High-Temperature Oxidation of AISI Type 444 Ferritic Stainless Steel Used in SOFC Stacks. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017, 30, 697-711.	2.9	11
9	Effect of electrical current on the oxidation behavior of electroless nickel-plated ferritic stainless steel in solid oxide fuel cell operating conditions. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 426-434.	7.1	11
10	Dezincification inhibition of a food processing brass OT60 in presence of <i>Pseudomonas fluorescens</i> . <i>Corrosion Science</i> , 2019, 157, 370-381.	6.6	11
11	Structural vs. electrochemical investigation of niobium oxide layers anodically grown in a Ca and P containing electrolyte. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156937.	5.5	11
12	On the High-Temperature Oxidation and Area Specific Resistance of New Commercial Ferritic Stainless Steels. <i>Metals</i> , 2021, 11, 405.	2.3	11
13	Fused Deposition Modeling of Polyamides: Crystallization and Weld Formation. <i>Polymers</i> , 2020, 12, 2980.	4.5	10
14	Addressing planar solid oxide cell degradation mechanisms: A critical review of selected components. <i>Electrochemical Science Advances</i> , 2022, 2, e2100024.	2.8	10
15	Volatilization of chromium from AISI 441 stainless steel: Time and temperature dependence. <i>Surface and Coatings Technology</i> , 2022, 433, 128125.	4.8	10
16	Effect of Cathode Contacting on Anode Supported Cell Performances. <i>Journal of the Electrochemical Society</i> , 2016, 163, F872-F876.	2.9	9
17	Differential Resistance Analysis – a New Tool for Evaluation of Solid Oxide Fuel Cells Degradation. <i>MRS Advances</i> , 2017, 2, 3991-4003.	0.9	8
18	Characterization of metallic interconnects extracted from Solid Oxide Fuel Cell stacks operated up to 20,000h in real life conditions: The fuel side. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 23815-23827.	7.1	8

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19	Interaction between Crofer 22 APU Current Collector and LSCF Cathode Contacting Layer under Cell Operation. ECS Transactions, 2015, 68, 1633-1640.	0.5	7
20	Ageing of Materials at Inlet and Outlet Fuel Manifolds in a SOFC Stack. ECS Transactions, 2015, 68, 2611-2624.	0.5	7
21	Characterization of Glass-Ceramic Sealant for Solid Oxide Fuel Cells at Operating Conditions by Electrochemical Impedance Spectroscopy. Materials, 2020, 13, 4702.	2.9	7
22	Corrosion of the Filled Skutterudite $\text{Sm}_{0.1}(\text{Fe}_{0.45}\text{Ni}_{0.55})_4\text{Sb}_{12}$ by NaCl Solutions: An Electrochemical Study. Journal of Electronic Materials, 2020, 49, 2872-2880.	2.2	7
23	Investigation of a Metallic Interconnect Extracted from an SOFC Stack after 40,000 h of Operation. Energies, 2022, 15, 3548.	3.1	7
24	A Novel Method for Evaluation of Chromium Evaporation from Solid Oxide Fuel Cells Interconnects: A Feasibility Study. Materials Science Forum, 0, 1016, 1109-1113.	0.3	5
25	High-Temperature Oxidation of AISI441 Ferritic Stainless Steel for Solid Oxide Fuel Cells. Materials Science Forum, 0, 1016, 1381-1385.	0.3	4
26	Redox-Cycling – A Tool for Artificial Electrochemical Aging of Solid Oxide Cells. ECS Transactions, 2021, 103, 1137-1149.	0.5	4
27	Test and Modelling of Solid Oxide Fuel Cell Durability: A Focus on Interconnect Role on Global Degradation. Energies, 2022, 15, 2762.	3.1	4
28	$\text{LaNi}_{0.6}\text{Fe}_{0.4}\text{O}_{3\text{as}}$ Cathode Contacting Material: Effect on Anode Supported Cell Performances. ECS Transactions, 2017, 78, 1689-1699.	0.5	3
29	Effect of YSZ Coatings as Diffusion Barrier between Glass Sealing and Steel. ECS Transactions, 2017, 78, 1749-1758.	0.5	3
30	Effect of Cathode Contacting on Anode Supported Cell Performances and Degradation. ECS Transactions, 2015, 68, 2429-2439.	0.5	2
31	Parametrical Coordinates and Microsamples to Investigate Real SOFCs in Operating Stacks. ECS Transactions, 2017, 78, 2087-2098.	0.5	2
32	Wear and Corrosion Resistance of $\text{AlSi}_{10}\text{Mg}/\text{Ti}$ Metal Composite Materials Produced by Electro-Sinter-Forging. Materials, 2021, 14, 6761.	2.9	2
33	A Two-Step Approach to Tune the Micro and Nanoscale Morphology of Porous Niobium Oxide to Promote Osteointegration. Materials, 2022, 15, 473.	2.9	2
34	Light scattering approach to the in situ measurement of polymer crystallization during 3D printing: A feasibility study. Polymer Crystallization, 2021, 4, e10182.	0.8	1
35	Characterization of a metallic interconnect operated in stack during 40,000 hours in SOFC mode. E3S Web of Conferences, 2022, 334, 06005.	0.5	1
36	Accelerated Stress Tests for Solid Oxide Cells via Artificial Aging of the Fuel Electrode. Energies, 2022, 15, 3287.	3.1	1

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37	LaNi <sub>0.6</sub> Fe <sub>0.4</sub> O <sub>3</sub> as Cathode Contacting Material: Effect on Anode Supported Cell Performances. ECS Meeting Abstracts, 2017, , .	0.0	0
38	Effect of YSZ Coatings as Diffusion Barrier between Glass Sealing and Steel. ECS Meeting Abstracts, 2017, , .	0.0	0