

Marc Torrell

List of Publications by Year in descending order

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48
papers

1,409
citations

331538

21
h-index

330025

37
g-index

50
all docs

50
docs citations

50
times ranked

1617
citing authors

#	ARTICLE	IF	CITATIONS
1	Residual stress development in cold sprayed Al, Cu and Ti coatings. <i>Acta Materialia</i> , 2013, 61, 6329-6337.	3.8	135
2	Cold gas spray titanium coatings onto a biocompatible polymer. <i>Materials Letters</i> , 2013, 106, 97-99.	1.3	97
3	Three-dimensional printed yttria-stabilized zirconia self-supported electrolytes for solid oxide fuel cell applications. <i>Journal of the European Ceramic Society</i> , 2019, 39, 9-16.	2.8	80
4	Tuning of the surface plasmon resonance in TiO ₂ /Au thin films grown by magnetron sputtering: The effect of thermal annealing. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	74
5	3D printing the next generation of enhanced solid oxide fuel and electrolysis cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16926-16932.	5.2	63
6	Performance and long term degradation of 7 ^W micro-tubular solid oxide fuel cells for portable applications. <i>Journal of Power Sources</i> , 2015, 285, 439-448.	4.0	59
7	Co-electrolysis of steam and CO ₂ in full-ceramic symmetrical SOECs: a strategy for avoiding the use of hydrogen as a safe gas. <i>Faraday Discussions</i> , 2015, 182, 241-255.	1.6	57
8	White Light Emission from Planar Remote Phosphor Based on NHC Cycloplatinated Complexes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16160-16169.	4.0	53
9	Multi-scale analysis of the diffusion barrier layer of gadolinia-doped ceria in a solid oxide fuel cell operated in a stack for 3000 ^h . <i>Journal of Power Sources</i> , 2017, 344, 141-151.	4.0	50
10	The influence of annealing treatments on the properties of Ag:TiO ₂ nanocomposite films prepared by magnetron sputtering. <i>Applied Surface Science</i> , 2012, 258, 4028-4034.	3.1	49
11	Cold spray deposition of WC ¹⁷ and 12Co cermets onto aluminum. <i>Surface and Coatings Technology</i> , 2013, 235, 54-61.	2.2	49
12	High-performing electrolyte-supported symmetrical solid oxide electrolysis cells operating under steam electrolysis and co-electrolysis modes. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14208-14217.	3.8	48
13	Nanoscale color control of TiO ₂ films with embedded Au nanoparticles. <i>Materials Letters</i> , 2010, 64, 2624-2626.	1.3	45
14	Development of new decorative coatings based on gold nanoparticles dispersed in an amorphous TiO ₂ dielectric matrix. <i>Surface and Coatings Technology</i> , 2010, 204, 1569-1575.	2.2	44
15	Functional and optical properties of Au:TiO ₂ nanocomposite films: The influence of thermal annealing. <i>Applied Surface Science</i> , 2010, 256, 6536-6542.	3.1	43
16	Mesoporous ceramic oxides as humidity sensors: A case study for gadolinium-doped ceria. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 41-48.	4.0	38
17	Enhanced Performance of Gadolinia-Doped Ceria Diffusion Barrier Layers Fabricated by Pulsed Laser Deposition for Large-Area Solid Oxide Fuel Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 1955-1964.	2.5	38
18	Study of the HVOF Ni-Based Coatings [™] Corrosion Resistance Applied on Municipal Solid-Waste Incinerators. <i>Journal of Thermal Spray Technology</i> , 2008, 17, 254-262.	1.6	34

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19	Infiltrated mesoporous oxygen electrodes for high temperature co-electrolysis of H ₂ O and CO ₂ in solid oxide electrolysis cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9699-9707.	5.2	29
20	Life Cycle Assessment of microtubular solid oxide fuel cell based auxiliary power unit systems for recreational vehicles. <i>Journal of Cleaner Production</i> , 2017, 165, 312-322.	4.6	27
21	Optimisation of HVOF thermal spray coatings for their implementation as MSWI superheater protectors. <i>Corrosion Engineering Science and Technology</i> , 2010, 45, 84-93.	0.7	22
22	High-surface-area ordered mesoporous oxides for continuous operation in high temperature energy applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3134.	5.2	21
23	Influence of nanostructured ZrO ₂ additions on the wear resistance of Ni-based alloy coatings deposited by APS process. <i>Wear</i> , 2013, 303, 591-601.	1.5	19
24	A Durable Electrode for Solid Oxide Cells: Mesoporous Ce _{0.8} Sm _{0.2} O _{1.9} Scaffolds Infiltrated with a Sm _{0.5} Sr _{0.5} CoO _{3-δ} Catalyst. <i>Electrochimica Acta</i> , 2017, 235, 646-653.	2.6	18
25	TiO ₂ coatings with Au nanoparticles analysed by photothermal IR radiometry. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 105301.	1.3	17
26	Structural and optical studies of Au doped titanium oxide films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 272, 61-65.	0.6	16
27	5ÅkW SOFC stack via 3D printing manufacturing: An evaluation of potential environmental benefits. <i>Applied Energy</i> , 2021, 291, 116803.	5.1	16
28	Tribological characterization of biocompatible HAp-TiO ₂ coatings obtained by high velocity oxy-fuel spray. <i>Wear</i> , 2013, 305, 8-13.	1.5	15
29	Co-electrolysis of steam and carbon dioxide in large area solid oxide cells based on infiltrated mesoporous oxygen electrodes. <i>Journal of Power Sources</i> , 2020, 478, 228774.	4.0	15
30	Tribological characterization of TiO ₂ /Au decorative thin films obtained by PVD magnetron sputtering technology. <i>Wear</i> , 2015, 330-331, 419-428.	1.5	13
31	Synthesis and characterization of robust, mesoporous electrodes for solid oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7650-7657.	5.2	13
32	Towards a high fuel utilization and low degradation of micro-tubular solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13889-13901.	3.8	12
33	Improved mesostructured oxygen electrodes for highly performing solid oxide cells for co-electrolysis of steam and carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27458-27468.	5.2	11
34	Degradation Studies and Sr Diffusion Behaviour in Anode Supported Cell after 3,000 h SOFC Short Stack Testing. <i>ECS Transactions</i> , 2015, 68, 1803-1813.	0.3	10
35	Functional colored ceramic coatings obtained by thermal spray for decorative applications. <i>Journal of the European Ceramic Society</i> , 2012, 32, 3685-3692.	2.8	9
36	Surface Plasmon Resonance Effect on the Optical Properties of TiO ₂ Doped by Noble Metals Nanoparticles. <i>Journal of Nano Research</i> , 0, 18-19, 177-185.	0.8	8

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37	Reversible fuel electrode supported solid oxide cells fabricated by aqueous multilayered tape casting. <i>JPhys Energy</i> , 2021, 3, 024002.	2.3	8
38	Structure and Properties of Silver Clusters Implanted in PET by PVD Sputtering for Active Packaging Applications. <i>Journal of Nano Research</i> , 0, 18-19, 105-116.	0.8	7
39	Synthesis of mesoporous nanocomposites for their application in solid oxide electrolyser cells: microstructural and electrochemical characterization. <i>Faraday Discussions</i> , 2015, 182, 423-435.	1.6	7
40	Erosion corrosion properties of HVOF coatings for municipal solid waste incinerator protection. <i>Corrosion Engineering Science and Technology</i> , 2008, 43, 38-45.	0.7	6
41	Understanding longitudinal degradation mechanisms of large-area micro-tubular solid oxide fuel cells. <i>Electrochimica Acta</i> , 2018, 265, 232-243.	2.6	5
42	Tailoring the Transport Properties of Mesoporous Doped Cerium Oxide for Energy Applications. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16451-16463.	1.5	5
43	Hybrid-3D printing of symmetric solid oxide cells by inkjet printing and robocasting. <i>Additive Manufacturing</i> , 2022, 51, 102636.	1.7	5
44	Treatment of cotton with an alkaline <i>Bacillus</i> spp cellulase: Activity towards crystalline cellulose. <i>Biotechnology Journal</i> , 2012, 7, 275-283.	1.8	4
45	Nanocomposite Thin Films Resulting from Au Nanoclusters Dispersed in Titanium Oxide Dielectric Matrixes: the Surface Plasmon Resonance Effect. , 2011, , .		3
46	Modulated IR Radiometry Applied to Study TiO_2 Coatings with Gold Nanocluster Inclusions. <i>International Journal of Thermophysics</i> , 2013, 34, 1597-1605.	1.0	3
47	WhatEELS. A python-based interactive software solution for ELNES analysis combining clustering and NLLS. <i>Ultramicroscopy</i> , 2022, 232, 113403.	0.8	3
48	Solid Oxide Cell Electrode Nanocomposites Fabricated by Inkjet Printing Infiltration of Ceria Scaffolds. <i>Nanomaterials</i> , 2021, 11, 3435.	1.9	3