Andrea Cavallaro

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Progress towards all-chemical superconducting YBa2Cu3O7-coated conductors. Superconductor Science and Technology, 2006, 19, S13-S26.	3.5	205
2	Chemical solution deposition: a path towards low cost coated conductors. Superconductor Science and Technology, 2004, 17, 1055-1064.	3.5	121
3	Electronic nature of the enhanced conductivity in YSZ-STO multilayers deposited by PLD. Solid State lonics, 2010, 181, 592-601.	2.7	111
4	Garnet Electrolytes for Solid State Batteries: Visualization of Moisture-Induced Chemical Degradation and Revealing Its Impact on the Li-Ion Dynamics. Chemistry of Materials, 2018, 30, 3704-3713.	6.7	108
5	Elucidating the role of dopants in the critical current density for dendrite formation in garnet electrolytes. Journal of Materials Chemistry A, 2018, 6, 19817-19827.	10.3	88
6	Engineering Mixed Ionic Electronic Conduction in La _{0.8} Sr _{0.2} MnO _{3+<i>δ</i>} Nanostructures through Fast Grain Boundary Oxygen Diffusivity. Advanced Energy Materials, 2015, 5, 1500377.	19.5	75
7	Growth Mechanism, Microstructure, and Surface Modification of Nanostructured CeO2 Films by Chemical Solution Deposition. Advanced Functional Materials, 2006, 16, 1363-1372.	14.9	69
8	Electrical characterization of thermomechanically stable YSZ membranes for micro solid oxide fuel cells applications. Solid State Ionics, 2010, 181, 322-331.	2.7	61
9	High quality YBa2Cu3O7thin films grown by trifluoroacetates metalorganic deposition. Superconductor Science and Technology, 2003, 16, 45-53.	3.5	56
10	Mn valence instability inLa2â^•3Ca1â^•3MnO3thin films. Physical Review B, 2006, 73, .	3.2	48
11	The effects of lattice strain, dislocations, and microstructure on the transport properties of YSZ films. Physical Chemistry Chemical Physics, 2017, 19, 14319-14336.	2.8	42
12	Crystal structure and surface characteristics of Sr-doped GdBaCo ₂ O _{6â^'δ} double perovskites: oxygen evolution reaction and conductivity. Journal of Materials Chemistry A, 2018, 6, 5335-5345.	10.3	42
13	Influence of porosity on the critical currents of trifluoroacetate-MOD YBa/sub 2/Cu/sub 3/O/sub 7/ films. IEEE Transactions on Applied Superconductivity, 2003, 13, 2504-2507.	1.7	38
14	A high-entropy manganite in an ordered nanocomposite for long-term application in solid oxide cells. Nature Communications, 2021, 12, 2660.	12.8	37
15	Mechanisms of nanostructural and morphological evolution of CeO2functional films by chemical solution deposition. Nanotechnology, 2005, 16, 1809-1813.	2.6	35
16	The origin of chemical inhomogeneity in garnet electrolytes and its impact on the electrochemical performance. Journal of Materials Chemistry A, 2020, 8, 14265-14276.	10.3	26
17	Relaxations and Relaxor-Ferroelectric-Like Response of Nanotubularly Confined Poly(vinylidene) Tj ETQq1 1 0.78	4314.rgBT 6.7	Overlock 1
18	All-chemical YBa2Cu3O7coated conductors on IBAD-YSZ stainless steel substrates. Superconductor	3.5	22

All-chemical YBa2Cu3O7coated conductor Science and Technology, 2006, 19, L1-L4.

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19	Chemistry and structure of homoepitaxial SrTiO3 films and their influence on oxide-heterostructure interfaces. Nanoscale, 2014, 6, 2598.	5.6	22
20	Amorphous-cathode-route towards low temperature SOFC. Sustainable Energy and Fuels, 2018, 2, 862-875.	4.9	20
21	Residual Stress of Free-Standing Membranes of Yttria-Stabilized Zirconia for Micro Solid Oxide Fuel Cell Applications. Journal of Nanoscience and Nanotechnology, 2010, 10, 1327-1337.	0.9	19
22	All-chemical high-Jc YBa2Cu3O7 multilayers with SrTiO3 as cap layer. Journal of Materials Research, 2006, 21, 1106-1116.	2.6	18
23	Heteroepitaxial orientation control of YSZ thin films by selective growth on SrO-, TiO2-terminated SrTiO3crystal surfaces. CrystEngComm, 2011, 13, 1625-1631.	2.6	16
24	Chemical solution techniques for epitaxial growth of oxide buffer and YBa2Cu3O7 films. Journal of the European Ceramic Society, 2004, 24, 1831-1835.	5.7	14
25	Preparation of <tex>\$rm MZrO_3 (rm M=rm Ba,rm Sr)\$</tex> Buffer Layers on Surface Oxidized Ni/NiO Templates by PLD and MOD. IEEE Transactions on Applied Superconductivity, 2005, 15, 3024-3027.	1.7	12
26	Interface control in all metalorganic deposited coated conductors: Influence on critical currents. Journal of Materials Research, 2006, 21, 2176-2184.	2.6	12
27	Direct Measurement of Oxygen Mass Transport at the Nanoscale. Advanced Materials, 2021, 33, e2105622.	21.0	11
28	Controlling the surface termination of NdGaO3 (110): the role of the gas atmosphere. Nanoscale, 2014, 6, 7263.	5.6	6
29	Revealing Strain Effects on the Chemical Composition of Perovskite Oxide Thin Films Surface, Bulk, and Interfaces. Advanced Materials Interfaces, 2020, 7, 1901440.	3.7	6
30	Large memcapacitance and memristance at Nb:SrTiO3/La0.5Sr0.5Mn0.5Co0.5O3-δ topotactic redox interface. Applied Physics Letters, 2020, 116, .	3.3	6
31	Chemical solution growth of superconductors: a new path towards high critical current coated conductors. Physica C: Superconductivity and Its Applications, 2004, 408-410, 913-914.	1.2	4
32	Epitaxial films of the proton-conducting Ca-doped LaNbO4 material and a study of their charge transport properties. Solid State Ionics, 2012, 216, 25-30.	2.7	4
33	Analysis of H ₂ O-induced surface degradation in SrCoO ₃ -derivatives and its impact on redox kinetics. Journal of Materials Chemistry A, 2021, 9, 24528-24538.	10.3	4
34	Visualizing local fast ionic conduction pathways in nanocrystalline lanthanum manganite by isotope exchange-atom probe tomography. Journal of Materials Chemistry A, 2022, 10, 2228-2234.	10.3	4
35	Understanding surface structure and chemistry of single crystal lanthanum aluminate. Scientific Reports, 2017, 7, 43721.	3.3	3
36	Fast grain boundary oxygen ion diffusion in the α-phase of Bi2O3. Solid State Ionics, 2017, 299, 89-92.	2.7	3

#	Article	IF	CITATIONS
37	Surface Restructuring of Thin-Film Electrodes Based on Thermal History and Its Significance for the Catalytic Activity and Stability at the Gas/Solid and Solid/Solid Interfaces. ACS Applied Materials & Interfaces, 2020, 12, 34388-34401.	8.0	3
38	High <tex>\$rm J_rm c\$</tex> YBCO Thin Films and Multilayers Grown by Chemical Solution Deposition. IEEE Transactions on Applied Superconductivity, 2005, 15, 2747-2750.	1.7	2
39	Fabrication and characterization of yttria-stabilized zirconia membranes for micro solid oxide fuel cells. , 2009, , .		2
40	Grain Boundary Engineering to Improve Ionic Conduction in Thin Films for Micro-SOFCs. ECS Transactions, 2015, 69, 11-16.	0.5	2
41	Fast Redox Kinetics in SrCo _{1â^x} Sb _x O _{3â^î} Perovskites for Thermochemical Energy Storage. Journal of the Electrochemical Society, 2022, 169, 044509.	2.9	2
42	CRYSTAL STRUCTURE DATA ON A NEW CUBIC PHASE ACTING AS ANTAGONIST IN THE SYNTHESIS OF Hg(Re)-1223 SUPERCONDUCTOR. International Journal of Modern Physics B, 2000, 14, 2706-2712.	2.0	1
43	Coated Conductor: Some Critical Aspects from Substrate to Device. Materials Science Forum, 2007, 546-549, 1855-1864.	0.3	1
44	YSZ Free-standing Membranes for Silicon-based Micro SOFCs. ECS Transactions, 2009, 25, 931-938.	0.5	1
45	Silicon-based Micro Platforms for Characterization of Nanostructured Layers With Application in Intermediate Temperature Micro Solid Oxide Fuel Cells. Materials Research Society Symposia Proceedings, 2010, 1256, 1.	0.1	1
46	Growth Mechanism and Opmization of MOD CeO2 Buffer Layers for TFA YBa2Cu3O7/CeO2 Multilayers. Materials Research Society Symposia Proceedings, 2005, 868, 681.	0.1	0
47	Interface Control in All MOD Coated Conductors: Influence on Critical Currents. Materials Research Society Symposia Proceedings, 2005, 868, 661.	0.1	Ο