Cristina Tealdi

List of Publications by Year in descending order

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70	1,664	279701 23	315616 38
papers	citations	h-index	g-index

73	73	73	2713
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of alkaline-doping on the properties of La2Mo2O9 fast oxygen ion conductor. Journal of Materials Chemistry, 2004, 14, 3553.	6.7	86
2	Nature of the Monoclinic to Cubic Phase Transition in the Fast Oxygen Ion Conductor La2Mo2O9(LAMOX). Journal of the American Chemical Society, 2007, 129, 6903-6907.	6.6	84
3	NdCoO3 perovskite as possible candidate for CO-sensors: thin films synthesis and sensing properties. Sensors and Actuators B: Chemical, 2005, 105, 407-411.	4.0	75
4	Graphite-coated ZnO nanosheets as high-capacity, highly stable, and binder-free anodes for lithium-ion batteries. Journal of Power Sources, 2016, 320, 314-321.	4.0	70
5	Role of synthetic route on the transport properties of BaCe1â^'xYxO3 proton conductor. Journal of Alloys and Compounds, 2009, 470, 477-485.	2.8	66
6	Wide band-gap tuning in Sn-based hybrid perovskites through cation replacement: the FA_{1â^'x}MA_xSnBr₃ mixed system. Journal of Materials Chemistry A, 2017, 5, 9391-9395.	5.2	65
7	Aqueous Processing of Na_{0.44}MnO₂ Cathode Material for the Development of Greener Na-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 34891-34899.	4.0	60
8	Feeling the strain: enhancing ionic transport in olivine phosphate cathodes for Li- and Na-ion batteries through strain effects. Journal of Materials Chemistry A, 2016, 4, 6998-7004.	5.2	59
9	Effects of cation vacancy distribution in doped LaMnO3+Î´ perovskites. Journal of Solid State Chemistry, 2005, 178, 2042-2049.	1.4	57
10	Layered LaSrGa₃O₇â€Based Oxideâ€Ion Conductors: Cooperative Transport Mechanisms and Flexible Structures. Advanced Functional Materials, 2010, 20, 3874-3880.	7.8	56
11	Vacancy and interstitial oxide ion migration in heavily doped La2â^'xSrxCoO4Â±Î´. Journal of Materials Chemistry, 2012, 22, 8969.	6.7	51
12	NASICON-type polymer-in-ceramic composite electrolytes for lithium batteries. Physical Chemistry Chemical Physics, 2019, 21, 6142-6149.	1.3	50
13	Improving the performances of Nafionâ„¢-based membranes for microbial fuel cells with silica-based, organically-functionalized mesostructured fillers. Journal of Power Sources, 2016, 334, 120-127.	4.0	45
14	Lithium diffusion in Li1â^'xFePO4: the effect of cationic disorder. Journal of Materials Chemistry, 2012, 22, 24870.	6.7	44
15	Nature of conductivity in SrSiO₃-based fast ion conductors. Chemical Communications, 2014, 50, 14732-14735.	2.2	36
16	Combined Neutron and Synchrotron X-ray Diffraction Investigation of the BaCe_{0.85-<i>x</i>}Zr_{<i>x</i>}Y_{0.15}O_{3-Î´} (0.1 â‰ <i>x</i> â‰) Tj ETQq0 0 0 rgBT /C	3.2	30
17	High-temperature neutron diffraction study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:m Correlation between structure and transport pr. Physical Review B, 2010, 82, .	1.1	29
18	Electrochemical Study of Na2Fe1â^'xMnxP2O7 (x = 0, 0.25, 0.5, 0.75, 1) as Cathode Material for Rechargeable Na-Ion Batteries. Batteries, 2016, 2, 1.	2.1	29

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19	The FA_{1â€“x}MA_xPbI₃ System: Correlations among Stoichiometry Control, Crystal Structure, Optical Properties, and Phase Stability. Journal of Physical Chemistry C, 2017, 121, 8746-8751.	1.5	27
20	Lattice effects in cubic La2Mo2O9: Effect of vacuum and correlation with transport properties. Journal of Solid State Chemistry, 2008, 181, 603-610.	1.4	26
21	Local Structure of Proton-Conducting Lanthanum Tungstate La_{28â€“x}W_{4+x}O_{54+Î´}: a Combined Density Functional Theory and Pair Distribution Function Study. Chemistry of Materials, 2013, 25, 2378-2384.	3.2	25
22	Defect and dopant properties of MgTa2O6. Journal of Solid State Chemistry, 2004, 177, 4359-4367.	1.4	24
23	Columbite-type FexMn1â^'xNb2O6solid solution: structural and magnetic characterization. Physical Chemistry Chemical Physics, 2004, 6, 4056-4061.	1.3	24
24	Improving Oxygen Transport in Perovskite-Type LaGaO3 Solid Electrolyte through Strain. Journal of Physical Chemistry C, 2014, 118, 29574-29582.	1.5	24
25	Interstitial oxide ion migration in scheelite-type electrolytes: a combined neutron diffraction and computational study. Journal of Materials Chemistry A, 2015, 3, 22258-22265.	5.2	24
26	High-pressure stability of the tetragonal spinelMgMn2O4: Role of inversion. Physical Review B, 2005, 71, .	1.1	22
27	Disproportionation, Dopant Incorporation, and Defect Clustering in Perovskite-Structured NdCoO3. Journal of Physical Chemistry B, 2006, 110, 5395-5402.	1.2	22
28	Cold-setting refractory composites from cordierite and mulliteâ€“cordierite design with geopolymer paste as binder: Thermal behavior and phase evolution. Materials Chemistry and Physics, 2015, 154, 66-77.	2.0	22
29	Interstitial oxygen in the Ga-based melilite ion conductor: A neutron total scattering study. International Journal of Hydrogen Energy, 2012, 37, 8073-8080.	3.8	21
30	Local versus Average Structure in LaSrAl₃O₇: A NMR and DFT Investigation. Journal of Physical Chemistry C, 2013, 117, 23451-23458.	1.5	20
31	Insight into the local structure of barium indate oxide-ion conductors: An X-ray total scattering study. Dalton Transactions, 2012, 41, 50-53.	1.6	19
32	Insight into cation disorder of Li2Fe0.5Mn0.5SiO4. Journal of Solid State Chemistry, 2013, 200, 70-75.	1.4	19
33	High-Temperature Structural Evolution in the Ba₃Mo_(1â€“x)W_xNbO_{8.5} System and Correlation with Ionic Transport Properties. Inorganic Chemistry, 2018, 57, 6746-6752.	1.9	19
34	Defect and transport properties of the NdCoO3 catalyst and sensor material. Progress in Solid State Chemistry, 2007, 35, 491-499.	3.9	18
35	Average versus local structure in K2NiF4-type LaSrAlO4: direct experimental evidence of local cationic ordering. Journal of Materials Chemistry, 2012, 22, 10488.	6.7	18
36	Oxygen transport and chemical compatibility with electrode materials in scheelite-type LaWxNb1â^'xO4+x/2 ceramic electrolyte. Journal of Alloys and Compounds, 2017, 697, 392-400.	2.8	18

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37	Efficiency and Quality Issues in the Production of Black Phosphorus by Mechanochemical Synthesis: A Multi-Technique Approach. ACS Applied Energy Materials, 2019, 2, 2794-2802.	2.5	18
38	Correlation between Transport Properties and Lattice Effects in the NdCoO₃-Based Catalysts and Sensor Materials. Chemistry of Materials, 2007, 19, 4741-4750.	3.2	17
39	Solid-state NMR characterization of the structure and thermal stability of hybrid organicâ€“inorganic compounds based on a HLaNb2O7 Dionâ€“Jacobson layered perovskite. Physical Chemistry Chemical Physics, 2016, 18, 21903-21912.	1.3	17
40	Influence of Ru Doping on the Structure, Defect Chemistry, Magnetic Interaction, and Carrier Motion of the La1-xNaxMnO3+Î´Manganite. Journal of Physical Chemistry B, 2005, 109, 20707-20713.	1.2	14
41	Electrode stability and electrochemical performance of Lamox electrolytes under fuel cell conditions. Solid State Ionics, 2010, 181, 1456-1461.	1.3	14
42	Synthesis, crystal structure and ionic conductivity of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0033.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ba</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></m mathvariant="normal">W</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow></m. Journal of Solid State Chemistry, 2018, 258, 628-633.	1.4	13
43	High-Performance Na0.44MnO2 Slabs for Sodium-Ion Batteries Obtained through Urea-Based Solution Combustion Synthesis. Batteries, 2018, 4, 8.	2.1	13
44	Zn ion diffusion in spinel-type cathode materials for rechargeable batteries: the role of point defects. Materials Today Communications, 2020, 25, 101478.	0.9	12
45	Preparation and conductivity measurements of ammonium polyphosphate-based proton conductors. Electrochimica Acta, 2009, 54, 5257-5261.	2.6	11
46	Feasibility of electron and hole injection in heavily doped strontium barium niobate (SBN50) Sr0.5Ba0.5Nb2O6 for thermoelectric applications. Journal of Applied Physics, 2017, 121, .	1.1	11
47	High pressure X-ray diffraction study of MgMn2O4 tetragonal spinel. Nuclear Instruments & Methods in Physics Research B, 2005, 238, 171-174.	0.6	10
48	Melilite LaSrGa_{3â^'x}Al_xO₇ Series: A Combined Solid-State NMR and Neutron Diffraction Study. Journal of Physical Chemistry C, 2014, 118, 15036-15043.	1.5	10
49	Fabrication of Pt/Ti/TiO2 Photoelectrodes by RF-Magnetron Sputtering for Separate Hydrogen and Oxygen Production. Materials, 2016, 9, 279.	1.3	10
50	Redox behavior of Ru-dopedLa1â^'xNaxMnO3+Î´manganites. Physical Review B, 2005, 71, .	1.1	9
51	Radio Frequency Sputter Deposition of Epitaxial Nanocrystalline Nd1-xSrxCoO3Thin Films. Chemistry of Materials, 2006, 18, 5230-5237.	3.2	9
52	Lattice strain effects on doping, hydration and proton transport in scheelite-type electrolytes for solid oxide fuel cells. Physical Chemistry Chemical Physics, 2016, 18, 29330-29336.	1.3	9
53	Oxygen content variation and cation doping dependence of(La)1.4(Sr1â^'yCay)1.6Mn2O7Â±Î´(y=0,0.25,0.5)bilayered manganites. Physical Review B, 2006, 74, .	1.1	8
54	Li⁺ Dynamics of Liquid Electrolytes Nanoconfined in Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2021, 13, 53986-53995.	4.0	8

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55	Flexible deposition of TiO2 electrodes for photocatalytic applications: Modulation of the crystal phase as a function of the layer thickness. Journal of Solid State Chemistry, 2013, 199, 1-6.	1.4	7
56	Chemical compatibility study of melilite-type gallate solid electrolyte with different cathode materials. Journal of Solid State Chemistry, 2014, 213, 287-292.	1.4	7
57	Na⁺ diffusion mechanism and transition metal substitution in tunnel-type manganese-based oxides for Na-ion rechargeable batteries. Materials Advances, 2022, 3, 986-997.	2.6	7
58	Local environments and transport properties of heavily doped strontium barium niobates Sr0.5Ba0.5Nb2O6. Journal of Solid State Chemistry, 2018, 258, 99-107.	1.4	6
59	Doping Effects in Single-Layered La0.5Sr1.5MnO4Manganite. Journal of Physical Chemistry B, 2006, 110, 17430-17436.	1.2	5
60	Glucose-assisted synthesis and wet-chemistry preparation of pyrophosphate cathodes for rechargeable Na-ion batteries. RSC Advances, 2016, 6, 99735-99742.	1.7	5
61	Covalent and Ionic Functionalization of HLN Layered Perovskite by Sonochemical Methods. Inorganic Chemistry, 2017, 56, 645-653.	1.9	5
62	Unexpected effect of Ru-substitution in lightly doped manganites. Chemical Communications, 2004, , 1408-1409.	2.2	4
63	Compound of (NH4)2SnP4O13 with high proton conductivity in both dry and humid atmospheres as electrolyte for intermediate temperature fuel cells. Journal of Alloys and Compounds, 2009, 485, L28-L30.	2.8	4
64	Polymorphism in Na₂(Co/Zn)P₂O₇ and Na₂(Co/Fe)P₂O₇ Pyrophosphates: A Combined Diffraction and ³¹P NMR Study. Journal of Physical Chemistry C, 2022, 126, 701-708.	1.5	4
65	High-temperature neutron diffraction study of the bilayered manganiteLa1.4Sr1.6Mn2O7. Physical Review B, 2005, 72, .	1.1	3
66	Theoretical insights into inorganicâ€“organic intercalation products of the layered perovskite HLaNb₂O₇: perspectives for hybrid proton conductors. Physical Chemistry Chemical Physics, 2019, 21, 16647-16657.	1.3	3
67	Absence of Long-Range Magnetic Order in the La1.4Sr0.8Ca0.8Mn2O7Bilayered Manganite. Journal of Physical Chemistry B, 2006, 110, 17414-17419.	1.2	2
68	In Situ Timeâ€Resolved Neutron Diffraction Investigation during Oxygen Exchange in Layered Cobaltite Cathode Materials. Angewandte Chemie - International Edition, 2009, 48, 8539-8542.	7.2	2
69	Nanoscale stabilization of the scheelite-type structure in La_{0.99}Ca_{0.01}NbO₄thin films. Nanoscale, 2015, 7, 2221-2224.	2.8	1
70	Columbite-Type FexMn1-xNb2O6 Solid Solution: Structural and Magnetic Characterization.. ChemInform, 2004, 35, no.	0.1	0