JoÃ£o Cc Abrantes

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9381462/publications.pdf

Version: 2024-02-01

83	2,042	257101	264894
papers	citations	24 h-index	42 g-index

84	84	84	2284
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Study of oxygen-ion conductivity and luminescence in the ZrO2Ââ€“ Nd2O3 system: Impact of local heterogeneity. Electrochimica Acta, 2022, 403, 139632.	2.6	11
2	Hydration and phase development of recycled cement. Cement and Concrete Composites, 2022, 127, 104405.	4.6	38
3	Combined Pretreatment by Ultrasound and Struvite Precipitation of Raw Substrates: A Strategy to Overcome C/N Ratio Unbalance in Nitrogen-Rich Anaerobic Co-Digestion Systems. Sustainability, 2021, 13, 2175.	1.6	4
4	Effective production of multifunctional magnetic-sensitive biomaterial by an extrusion-based additive manufacturing technique. Biomedical Materials (Bristol), 2021, 16, 015011.	1.7	10
5	Structure, conductivity and magnetism of orthorhombic and fluorite polymorphs in MoO3â€“Ln2O3 (Ln) Tj ETQq1 1 0.784314 rgBT /Ov	1.6	9
6	Evolution of Oxygenâ€“Ion and Proton Conductivity in Ca-Doped Ln2Zr2O7 (Ln = Sm, Gd), Located Near Pyrochloreâ€“Fluorite Phase Boundary. Materials, 2019, 12, 2452.	1.3	24
7	Surface functionalization of cuttlefish bone-derived biphasic calcium phosphate scaffolds with polymeric coatings. Materials Science and Engineering C, 2019, 105, 110014.	3.8	22
8	Structure and conductivity of Nd₆MoO₁₂-based potential electronâ€“proton conductors under dry and wet redox conditions. Inorganic Chemistry Frontiers, 2019, 6, 566-575.	3.0	15
9	Study of the dust produced in rehabilitation works. Procedia Structural Integrity, 2019, 22, 144-150.	0.3	2
10	Novel sintering-free scaffolds obtained by additive manufacturing for concurrent bone regeneration and drug delivery: Proof of concept. Materials Science and Engineering C, 2019, 94, 426-436.	3.8	35
11	Influence of the Ca/P ratio and cooling rate on the allotropic Î±â†”Î²-tricalcium phosphate phase transformations. Ceramics International, 2018, 44, 8249-8256.	2.3	25
12	Linking sintering stresses to nano modification in the microstructure of BaLa4Ti4O15 by transmission electron microscopy. Materials Characterization, 2018, 142, 1-8.	1.9	2
13	Design of NiAl2O4 cellular monoliths for catalytic applications. Materials and Design, 2017, 117, 332-337.	3.3	12
14	Injectable MnSr-doped brushite bone cements with improved biological performance. Journal of Materials Chemistry B, 2017, 5, 2775-2787.	2.9	23
15	Electrical characterization of La 9.33 Si 2 Ge 4 O 26 oxyapatite for prospective intermediate-temperature solid oxide fuel cells. Ceramics International, 2017, 43, 3847-3853.	2.3	5
16	Biocompatibility and antimicrobial activity of biphasic calcium phosphate powders doped with metal ions for regenerative medicine. Ceramics International, 2017, 43, 15719-15728.	2.3	61
17	Methodology for Analysis of the Reactivity of Coal Fly Ash Using Selective Dissolution by Hydrofluoric Acid. Key Engineering Materials, 2016, 711, 1126-1133.	0.4	5
18	Statistical analysis of grain size distributions in pressure-assisted BaLa4Ti4O15 microstructures. Microscopy and Microanalysis, 2016, 22, 36-37.	0.2	0

#	Article	IF	Citations
19	Effect of Pr3+/Pr4+ ratio on the oxygen ion transport and thermomechanical properties of the pyrochlore and fluorite phases in the ZrO2â€“Pr2O3 system. International Journal of Hydrogen Energy, 2016, 41, 9982-9992.	3.8	30
20	Quality criteria for phase change materials selection. Energy Conversion and Management, 2016, 124, 598-606.	4.4	19
21	Rheological Behavior of Paraffin-Alumina Emulsions and their Microstructural Effects. Materials Science Forum, 2016, 869, 85-90.	0.3	1
22	Cellular MgAl2O4 spinels prepared by reactive sintering of emulsified suspensions. Materials Letters, 2016, 164, 190-193.	1.3	12
23	Self-functionalization of cellular alumina monoliths in hydrothermal conditions. Journal of the European Ceramic Society, 2016, 36, 1053-1058.	2.8	3
24	Application of electrochemical impedance spectroscopy (EIS) to monitor the corrosion of reinforced concrete: A new approach. Construction and Building Materials, 2016, 111, 98-104.	3.2	227
25	Influence of Mg-doping, calcium pyrophosphate impurities and cooling rate on the allotropic Î± â†” Î²-tricalcium phosphate phase transformations. Journal of the European Ceramic Society, 2016, 36, 817-827.	2.8	59
26	Use of Electrochemical Impedance Spectroscopy (EIS) to monitoring the corrosion of reinforced concrete. Revista IBRACON De Estruturas E Materiais, 2015, 8, 529-546.	0.3	85
27	Porous hollow tubes processed by extrusion of ceramic emulsions. Applied Clay Science, 2015, 105-106, 60-65.	2.6	5
28	Cellular ceramics by gelatin gelcasting of emulsified suspensions with sunflower oil. Journal of the European Ceramic Society, 2015, 35, 2577-2585.	2.8	22
29	Extrusion of ceramic emulsions: Preparation and characterization of cellular ceramics. Applied Clay Science, 2015, 109-110, 15-21.	2.6	5
30	Hydrothermal synthesis of boehmite in cellular alumina monoliths for catalytic and separation applications. Journal of the European Ceramic Society, 2015, 35, 3119-3125.	2.8	19
31	Burnout effects on cellular ceramics obtained from gelatine gelcasted emulsified suspensions. Journal of the European Ceramic Society, 2015, 35, 971-979.	2.8	6
32	Electrochemical behavior of the pyrochlore- and fluorite-like solid solutions in the Pr2O3â€“ZrO2 system. Part I. Solid State Ionics, 2015, 271, 79-85.	1.3	6
33	Effects of Mn-doping on the structure and biological properties of Î²-tricalcium phosphate. Journal of Inorganic Biochemistry, 2014, 136, 57-66.	1.5	75
34	Extrusion of ceramic emulsions: Plastic behavior. Applied Clay Science, 2014, 101, 315-319.	2.6	20
35	Effect of Nb substitution for Ti on the electrical properties of Yb2Ti2O7-based oxygen ion conductors. Solid State Ionics, 2014, 261, 131-140.	1.3	9
36	Effects of processing parameters on cellular ceramics obtained by paraffin emulsified suspensions. Ceramics International, 2014, 40, 9045-9053.	2.3	20

#	Article	IF	Citations
37	Highly conducting coreâ€“shell phase change materials for thermal regulation. Applied Thermal Engineering, 2014, 66, 131-139.	3.0	8
38	Extrusion of ceramic pastes: An alternative approach to obtain the Benbow×³s model parameters. Ceramics International, 2014, 40, 14543-14547.	2.3	6
39	Cellular ceramics processed by paraffin emulsified suspensions with collagen consolidation. Materials Letters, 2013, 98, 120-123.	1.3	27
40	Gelled graphite/gelatin composites for latent heat cold storage. Applied Energy, 2013, 104, 890-897.	5.1	11
41	Solutions for Heat or Cold Discharge from Encapsulated Phase-Change Materials. Numerical Heat Transfer, Part B: Fundamentals, 2013, 64, 421-435.	0.6	8
42	Cellular PCM/graphite composites with improved thermal and electrical response. Materials Letters, 2013, 92, 100-103.	1.3	16
43	Grain boundary conductivity of heterogeneous ceria gadolinia. Electrochimica Acta, 2012, 85, 116-121.	2.6	12
44	New oxide-ion conductor Ho2(Ti1.904Ho0.096)O6.952: structure and conductivity. Journal of Crystal Growth, 2011, 318, 966-970.	0.7	7
45	Numerical solutions for mixed controlled solidification of phase change materials. International Journal of Heat and Mass Transfer, 2010, 53, 5335-5342.	2.5	12
46	Correlation between impedance spectra of bulk ceramics and films with in-plane configuration. Journal of the European Ceramic Society, 2010, 30, 221-225.	2.8	2
47	De-convolution of bulk and interfacial contributions based on impedance spectroscopy with external load resistance. Materials Research Bulletin, 2009, 44, 884-888.	2.7	6
48	Effects of composition and frozen-in conditions on bulk and grain boundary conductivities of Yb2Ti2O7-based materials. Solid State Ionics, 2009, 180, 774-777.	1.3	7
49	Impedance analysis of Sr-substituted CePO4 with mixed protonic and p-type electronic conduction. Ceramics International, 2009, 35, 1481-1486.	2.3	11
50	Interpretation of impedance spectra based on local minima of imaginary Z vs frequency. Electrochimica Acta, 2008, 53, 8222-8227.	2.6	1
51	Effects of Yb:Ti ratio on transport properties of Yb2Â±xTi2Â±xO7Â±Î´. Solid State Ionics, 2008, 179, 1046-1049.	1.3	5
52	Reducibility of Ce1â^'xGdxO2â^'Î´ in prospective working conditions. Journal of Power Sources, 2007, 173, 291-297.	4.0	33
53	Effects of Fe-additions on sintering and transport properties of Yb2Ti2â^'yFeyO7â^'Î´. Journal of the European Ceramic Society, 2007, 27, 4283-4286.	2.8	6
54	Orderâ€“disorder phase transitions and high-temperature oxide ion conductivity of Er2+xTi2â^'xO7â^'Î´ (x=0, 0.096). Materials Research Bulletin, 2007, 42, 742-752.	2.7	19

#	Article	IF	Citations
55	Microstructure and Electrical Conductivity of Yb_{2+x}Ti_{2-x}O_{7-x/2} Materials. Materials Science Forum, 2006, 514-516, 417-421.	0.3	5
56	Ionic and electronic conductivity of Yb2+xTi2â^'xO7â^'x/2 materials. Solid State Ionics, 2006, 177, 1785-1788.	1.3	49
57	Synthesis and electrical transport properties of Lu2+xTi2â^'xO7â^'x/2 oxide-ion conductors. Solid State Ionics, 2006, 177, 1149-1155.	1.3	40
58	New Oxide-Ion Conductors Ln_{2+x}Ti_{2-x}O_{7-x/2} (Ln = Dy â€“ Lu;) Tj ETQq0 0 0 rgBT /Overlock 1	1.3	10
59	Electrical Characterization of Mullite Bodies Containing Al-Rich Anodizing Sludge. Materials Science Forum, 2006, 514-516, 1726-1730.	0.3	2
60	Synthesis and conductivity of Yb2Ti2O7 nanoceramics. Solid State Ionics, 2005, 176, 1653-1656.	1.3	33
61	Effects of firing conditions and addition of Co on bulk and grain boundary properties of CGO. Solid State Ionics, 2005, 176, 2799-2805.	1.3	59
62	Kinetics of phase transformations for constant heating rate occurring close to the thermodynamic transition. Thermochimica Acta, 2005, 435, 85-91.	1.2	5
63	Stability and transport properties of La2Mo2O9. Journal of Solid State Electrochemistry, 2004, 8, 638.	1.2	28
64	Effects of sintering additives on the mixed transport properties of ceria-based materials under reducing conditions. Journal of Solid State Electrochemistry, 2004, 8, 644.	1.2	16
65	Predicting processing-sintering-related properties of mulliteâ€“alumina ceramic bodies based on Al-rich anodising sludge by impedance spectroscopy. Journal of the European Ceramic Society, 2004, 24, 3841-3848.	2.8	26
66	Synthesis and characterization of La2Mo2O9 obtained from freeze-dried precursors. Journal of Solid State Chemistry, 2004, 177, 2378-2386.	1.4	54
67	On the use of multichannel data acquisition of impedance spectra. Ionics, 2003, 9, 370-374.	1.2	7
68	The effect of cobalt oxide sintering aid on electronic transport in Ce0.80Gd0.20O2â^'Î´ electrolyte. Electrochimica Acta, 2003, 48, 1023-1029.	2.6	112
69	Conductivity of CGO and CSO ceramics obtained from freeze-dried precursors. Electrochimica Acta, 2003, 48, 1551-1557.	2.6	70
70	Electronic transport in Ce0.8Sm0.2O1.9â^'Î´ ceramics under reducing conditions. Electrochimica Acta, 2003, 48, 2761-2766.	2.6	49
71	Behavior of strontium titanate ceramics in reducing conditions suggesting enhanced conductivity along grain contacts. Journal of the European Ceramic Society, 2002, 22, 1683-1691.	2.8	15
72	Microstructural effects on the electrical behaviour of SrTi0.95Nb0.05O3+Î´ materials on changing from reducing to oxidising conditions. Sensors and Actuators B: Chemical, 2001, 75, 88-94.	4.0	12

#	Article	IF	Citations
73	Applicability of the brick layer model to describe the grain boundary properties of strontium titanate ceramics. Journal of the European Ceramic Society, 2000, 20, 1603-1609.	2.8	89
74	Oxygen stoichiometry of Sr0.97(Ti,Fe)O3â˜Î´ materials. Solid State Ionics, 2000, 135, 761-764.	1.3	19
75	An alternative representation of impedance spectra of ceramics. Materials Research Bulletin, 2000, 35, 727-740.	2.7	106
76	Representations of impedance spectra of ceramics. Materials Research Bulletin, 2000, 35, 965-976.	2.7	19
77	Representations of impedance spectra of ceramics. Materials Research Bulletin, 2000, 35, 955-964.	2.7	37
78	Evaluation of SrTi1Ã¢ÂˆÂ’yNbyO3+ÃŽÂ´ materials for gas sensors. Sensors and Actuators B: Chemical, 1999, 56, 198-205.	4.0	27
79	Oxygen losses and electrical conductivity of SrTi1â˜’yNbyO3+Î´ materials. Journal of the European Ceramic Society, 1999, 19, 773-776.	2.8	10
80	Onset of resistive internal interfaces in SrTi0.95Nb0.05O3+Î´ materials on changing from reducing to oxidising conditions and on cooling. Ionics, 1999, 5, 410-414.	1.2	0
81	Combined effects of A-site deficiency and dopant content on the transport properties of Nb-doped strontium titanate. Ionics, 1997, 3, 16-22.	1.2	8
82	Electrical conductivity of Sr1â˜’xTiO3â˜’Î´ materialsmaterials. Ionics, 1997, 3, 436-441.	1.2	4
83	Evaluation of ionic transport number of CeO2 doped Y-TZP and PSZ ceramics with alumina additions. Solid State Ionics, 1992, 50, 167-173.	1.3	6