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List of Publications by Year in descending order

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all docs

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docs citations

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times ranked

2284
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of electrochemical impedance spectroscopy (EIS) to monitor the corrosion of reinforced concrete: A new approach. <i>Construction and Building Materials</i> , 2016, 111, 98-104.	3.2	227
2	The effect of cobalt oxide sintering aid on electronic transport in Ce _{0.80} Gd _{0.20} O _{2-δ} electrolyte. <i>Electrochimica Acta</i> , 2003, 48, 1023-1029.	2.6	112
3	An alternative representation of impedance spectra of ceramics. <i>Materials Research Bulletin</i> , 2000, 35, 727-740.	2.7	106
4	Applicability of the brick layer model to describe the grain boundary properties of strontium titanate ceramics. <i>Journal of the European Ceramic Society</i> , 2000, 20, 1603-1609.	2.8	89
5	Use of Electrochemical Impedance Spectroscopy (EIS) to monitoring the corrosion of reinforced concrete. <i>Revista IBRACON De Estruturas E Materiais</i> , 2015, 8, 529-546.	0.3	85
6	Effects of Mn-doping on the structure and biological properties of β -tricalcium phosphate. <i>Journal of Inorganic Biochemistry</i> , 2014, 136, 57-66.	1.5	75
7	Conductivity of CGO and CSO ceramics obtained from freeze-dried precursors. <i>Electrochimica Acta</i> , 2003, 48, 1551-1557.	2.6	70
8	Biocompatibility and antimicrobial activity of biphasic calcium phosphate powders doped with metal ions for regenerative medicine. <i>Ceramics International</i> , 2017, 43, 15719-15728.	2.3	61
9	Effects of firing conditions and addition of Co on bulk and grain boundary properties of CGO. <i>Solid State Ionics</i> , 2005, 176, 2799-2805.	1.3	59
10	Influence of Mg-doping, calcium pyrophosphate impurities and cooling rate on the allotropic $\beta \rightarrow \alpha$ β -tricalcium phosphate phase transformations. <i>Journal of the European Ceramic Society</i> , 2016, 36, 817-827.	2.8	59
11	Synthesis and characterization of La ₂ Mo ₂ O ₉ obtained from freeze-dried precursors. <i>Journal of Solid State Chemistry</i> , 2004, 177, 2378-2386.	1.4	54
12	Electronic transport in Ce _{0.8} Sm _{0.2} O _{1.9-δ} ceramics under reducing conditions. <i>Electrochimica Acta</i> , 2003, 48, 2761-2766.	2.6	49
13	Ionic and electronic conductivity of Yb _{2+x} Ti _{2-x} O _{7-$x/2$} materials. <i>Solid State Ionics</i> , 2006, 177, 1785-1788.	1.3	49
14	Synthesis and electrical transport properties of Lu _{2+x} Ti _{2-x} O _{7-$x/2$} oxide-ion conductors. <i>Solid State Ionics</i> , 2006, 177, 1149-1155.	1.3	40
15	Hydration and phase development of recycled cement. <i>Cement and Concrete Composites</i> , 2022, 127, 104405.	4.6	38
16	Representations of impedance spectra of ceramics. <i>Materials Research Bulletin</i> , 2000, 35, 955-964.	2.7	37
17	Novel sintering-free scaffolds obtained by additive manufacturing for concurrent bone regeneration and drug delivery: Proof of concept. <i>Materials Science and Engineering C</i> , 2019, 94, 426-436.	3.8	35
18	Synthesis and conductivity of Yb ₂ Ti ₂ O ₇ nanoceramics. <i>Solid State Ionics</i> , 2005, 176, 1653-1656.	1.3	33

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19	Reducibility of $Ce_{1-x}Gd_xO_{2-\delta}$ in prospective working conditions. <i>Journal of Power Sources</i> , 2007, 173, 291-297.	4.0	33
20	Effect of Pr^{3+}/Pr^{4+} ratio on the oxygen ion transport and thermomechanical properties of the pyrochlore and fluorite phases in the $ZrO_2\text{-}Pr_2O_3$ system. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9982-9992.	3.8	30
21	Stability and transport properties of $La_2Mo_2O_9$. <i>Journal of Solid State Electrochemistry</i> , 2004, 8, 638.	1.2	28
22	Evaluation of $SrTi_{1-x}Nb_xO_3$ materials for gas sensors. <i>Sensors and Actuators B: Chemical</i> , 1999, 56, 198-205.	4.0	27
23	Cellular ceramics processed by paraffin emulsified suspensions with collagen consolidation. <i>Materials Letters</i> , 2013, 98, 120-123.	1.3	27
24	Predicting processing-sintering-related properties of mullite-alumina ceramic bodies based on Al-rich anodising sludge by impedance spectroscopy. <i>Journal of the European Ceramic Society</i> , 2004, 24, 3841-3848.	2.8	26
25	Influence of the Ca/P ratio and cooling rate on the allotropic β -tricalcium phosphate phase transformations. <i>Ceramics International</i> , 2018, 44, 8249-8256.	2.3	25
26	Evolution of Oxygen Ion and Proton Conductivity in Ca-Doped $Ln_2Zr_2O_7$ ($Ln = Sm, Gd$), Located Near Pyrochlore-Fluorite Phase Boundary. <i>Materials</i> , 2019, 12, 2452.	1.3	24
27	Injectable MnSr-doped brushite bone cements with improved biological performance. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2775-2787.	2.9	23
28	Cellular ceramics by gelatin gelcasting of emulsified suspensions with sunflower oil. <i>Journal of the European Ceramic Society</i> , 2015, 35, 2577-2585.	2.8	22
29	Surface functionalization of cuttlefish bone-derived biphasic calcium phosphate scaffolds with polymeric coatings. <i>Materials Science and Engineering C</i> , 2019, 105, 110014.	3.8	22
30	Extrusion of ceramic emulsions: Plastic behavior. <i>Applied Clay Science</i> , 2014, 101, 315-319.	2.6	20
31	Effects of processing parameters on cellular ceramics obtained by paraffin emulsified suspensions. <i>Ceramics International</i> , 2014, 40, 9045-9053.	2.3	20
32	Oxygen stoichiometry of $Sr_{0.97}(Ti,Fe)O_{3-\delta}$ materials. <i>Solid State Ionics</i> , 2000, 135, 761-764.	1.3	19
33	Representations of impedance spectra of ceramics. <i>Materials Research Bulletin</i> , 2000, 35, 965-976.	2.7	19
34	Order-disorder phase transitions and high-temperature oxide ion conductivity of $Er_{2+x}Ti_2-xO_7$ ($x=0, 0.096$). <i>Materials Research Bulletin</i> , 2007, 42, 742-752.	2.7	19
35	Hydrothermal synthesis of boehmite in cellular alumina monoliths for catalytic and separation applications. <i>Journal of the European Ceramic Society</i> , 2015, 35, 3119-3125.	2.8	19
36	Quality criteria for phase change materials selection. <i>Energy Conversion and Management</i> , 2016, 124, 598-606.	4.4	19

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37	Effects of sintering additives on the mixed transport properties of ceria-based materials under reducing conditions. <i>Journal of Solid State Electrochemistry</i> , 2004, 8, 644.	1.2	16
38	Cellular PCM/graphite composites with improved thermal and electrical response. <i>Materials Letters</i> , 2013, 92, 100-103.	1.3	16
39	Behavior of strontium titanate ceramics in reducing conditions suggesting enhanced conductivity along grain contacts. <i>Journal of the European Ceramic Society</i> , 2002, 22, 1683-1691.	2.8	15
40	Structure and conductivity of Nd ₆ MoO ₁₂ -based potential electron-proton conductors under dry and wet redox conditions. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 566-575.	3.0	15
41	Microstructural effects on the electrical behaviour of SrTi _{0.95} Nb _{0.05} O _{3+δ} materials on changing from reducing to oxidising conditions. <i>Sensors and Actuators B: Chemical</i> , 2001, 75, 88-94.	4.0	12
42	New Oxide-Ion Conductors Ln _{2+x} Ti _{2-x} O _{7-x/2} (Ln = Dy, Lu); <i>TJ ETQq0000 rgBT 10verlock 1</i>		
43	Numerical solutions for mixed controlled solidification of phase change materials. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 5335-5342.	2.5	12
44	Grain boundary conductivity of heterogeneous ceria gadolinia. <i>Electrochimica Acta</i> , 2012, 85, 116-121.	2.6	12
45	Cellular MgAl ₂ O ₄ spinels prepared by reactive sintering of emulsified suspensions. <i>Materials Letters</i> , 2016, 164, 190-193.	1.3	12
46	Design of NiAl ₂ O ₄ cellular monoliths for catalytic applications. <i>Materials and Design</i> , 2017, 117, 332-337.	3.3	12
47	Impedance analysis of Sr-substituted CePO ₄ with mixed protonic and p-type electronic conduction. <i>Ceramics International</i> , 2009, 35, 1481-1486.	2.3	11
48	Gelled graphite/gelatin composites for latent heat cold storage. <i>Applied Energy</i> , 2013, 104, 890-897.	5.1	11
49	Study of oxygen-ion conductivity and luminescence in the ZrO ₂ -Nd ₂ O ₃ system: Impact of local heterogeneity. <i>Electrochimica Acta</i> , 2022, 403, 139632.	2.6	11
50	Oxygen losses and electrical conductivity of SrTi _{1-δ} Nb _δ O _{3+δ} materials. <i>Journal of the European Ceramic Society</i> , 1999, 19, 773-776.	2.8	10
51	Effective production of multifunctional magnetic-sensitive biomaterial by an extrusion-based additive manufacturing technique. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 015011.	1.7	10
52	Effect of Nb substitution for Ti on the electrical properties of Yb ₂ Ti ₂ O ₇ -based oxygen ion conductors. <i>Solid State Ionics</i> , 2014, 261, 131-140.	1.3	9
53	Structure, conductivity and magnetism of orthorhombic and fluorite polymorphs in MoO ₃ -Ln ₂ O ₃ (Ln) <i>Tj ETQq1 1.0.784314 rgBT /Dv</i>	1.6	9
54	Combined effects of A-site deficiency and dopant content on the transport properties of Nb-doped strontium titanate. <i>Ionics</i> , 1997, 3, 16-22.	1.2	8

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55	Solutions for Heat or Cold Discharge from Encapsulated Phase-Change Materials. Numerical Heat Transfer, Part B: Fundamentals, 2013, 64, 421-435.	0.6	8
56	Highly conducting core-shell phase change materials for thermal regulation. Applied Thermal Engineering, 2014, 66, 131-139.	3.0	8
57	On the use of multichannel data acquisition of impedance spectra. Ionics, 2003, 9, 370-374.	1.2	7
58	Effects of composition and frozen-in conditions on bulk and grain boundary conductivities of Yb ₂ Ti ₂ O ₇ -based materials. Solid State Ionics, 2009, 180, 774-777.	1.3	7
59	New oxide-ion conductor Ho ₂ (Ti _{1.904} Ho _{0.096})O _{6.952} : structure and conductivity. Journal of Crystal Growth, 2011, 318, 966-970.	0.7	7
60	Evaluation of ionic transport number of CeO ₂ doped Y-TZP and PSZ ceramics with alumina additions. Solid State Ionics, 1992, 50, 167-173.	1.3	6
61	Effects of Fe-additions on sintering and transport properties of Yb ₂ Ti ₂ Fe _y O ₇ . Journal of the European Ceramic Society, 2007, 27, 4283-4286.	2.8	6
62	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
63	Extrusion of ceramic pastes: An alternative approach to obtain the Benbow's model parameters. Ceramics International, 2014, 40, 14543-14547.	2.3	6
64	Burnout effects on cellular ceramics obtained from gelatine gelcasted emulsified suspensions. Journal of the European Ceramic Society, 2015, 35, 971-979.	2.8	6
65	Electrochemical behavior of the pyrochlore- and fluorite-like solid solutions in the Pr ₂ O ₃ -ZrO ₂ system. Part I. Solid State Ionics, 2015, 271, 79-85.	1.3	6
66	Kinetics of phase transformations for constant heating rate occurring close to the thermodynamic transition. Thermochimica Acta, 2005, 435, 85-91.	1.2	5
67	Microstructure and Electrical Conductivity of Yb _{2+x} Ti _{2-x} O _{7/2} . Materials Science Forum, 2006, 514-516, 417-421.	0.3	5
68	Effects of Yb:Ti ratio on transport properties of Yb _{2-x} Ti _{2-x} O ₇ . Solid State Ionics, 2008, 179, 1046-1049.	1.3	5
69	Porous hollow tubes processed by extrusion of ceramic emulsions. Applied Clay Science, 2015, 105-106, 60-65.	2.6	5
70	Extrusion of ceramic emulsions: Preparation and characterization of cellular ceramics. Applied Clay Science, 2015, 109-110, 15-21.	2.6	5
71	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
72	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

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73	Electrical conductivity of Sr _{1-x} TiO ₃ materials. <i>Ionics</i> , 1997, 3, 436-441.	1.2	4
74	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. <i>Sustainability</i> , 2021, 13, 2175.	1.6	4
75	Self-functionalization of cellular alumina monoliths in hydrothermal conditions. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1053-1058.	2.8	3
76	Electrical Characterization of Mullite Bodies Containing Al-Rich Anodizing Sludge. <i>Materials Science Forum</i> , 2006, 514-516, 1726-1730.	0.3	2
77	Correlation between impedance spectra of bulk ceramics and films with in-plane configuration. <i>Journal of the European Ceramic Society</i> , 2010, 30, 221-225.	2.8	2
78	Linking sintering stresses to nano modification in the microstructure of BaLa ₄ Ti ₄ O ₁₅ by transmission electron microscopy. <i>Materials Characterization</i> , 2018, 142, 1-8.	1.9	2
79	Study of the dust produced in rehabilitation works. <i>Procedia Structural Integrity</i> , 2019, 22, 144-150.	0.3	2
80	Interpretation of impedance spectra based on local minima of imaginary Z vs frequency. <i>Electrochimica Acta</i> , 2008, 53, 8222-8227.	2.6	1
81	Rheological Behavior of Paraffin-Alumina Emulsions and their Microstructural Effects. <i>Materials Science Forum</i> , 2016, 869, 85-90.	0.3	1
82	Onset of resistive internal interfaces in SrTi _{0.95} Nb _{0.05} O ₃ + $\hat{\Gamma}$ materials on changing from reducing to oxidising conditions and on cooling. <i>Ionics</i> , 1999, 5, 410-414.	1.2	0
83	Statistical analysis of grain size distributions in pressure-assisted BaLa ₄ Ti ₄ O ₁₅ microstructures. <i>Microscopy and Microanalysis</i> , 2016, 22, 36-37.	0.2	0