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List of Publications by Year
in descending order

85 papers	2,180 citations	236925 25 h-index	302126 39 g-index
86 all docs	86 docs citations	86 times ranked	2353 citing authors

#	Article	IF	Citations
1	Crystal and Defect Chemistry of Rare Earth Cations in BaTiO3. , 2001, 7, 25-34.		376
2	Site Occupancy of Rare-Earth Cations in BaTiO3. Japanese Journal of Applied Physics, 2001, 40, 255-258.	1.5	179
3	Electron Paramagnetic Resonance Investigations of Lanthanide-Doped Barium Titanate:â€‰ Dopant Site Occupancy. Journal of Physical Chemistry B, 2004, 108, 908-917.	2.6	109
4	Analyzing results of impedance spectroscopy using novel evolutionary programming techniques. Journal of Electroceramics, 2010, 24, 245-260.	2.0	83
5	Harnessing evolutionary programming for impedance spectroscopy analysis: A case study of mixed ionic-electronic conductors. Solid State Ionics, 2011, 188, 104-109.	2.7	78
6	Recent Advances in Mechanism Research and Methods for Electricâ€Fieldâ€Assisted Sintering of Ceramics. Advanced Materials, 2018, 30, e1706369.	21.0	76
7	Self-compensation in semiconductors. Physical Review B, 1999, 60, 8138-8146.	3.2	72
8	Analysis of impedance spectroscopy of aqueous supercapacitors by evolutionary programming: Finding DFRT from complex capacitance. Solid State Ionics, 2016, 288, 311-314.	2.7	52
9	A novel approach for supercapacitors degradation characterization. Journal of Power Sources, 2017, 355, 74-82.	7.8	52
10	An aluminum â€“ ionic liquid interface sustaining a durable Al-air battery. Journal of Power Sources, 2017, 364, 110-120.	7.8	48
11	ISGP: Impedance Spectroscopy Analysis Using Evolutionary Programming Procedure. ECS Transactions, 2011, 33, 67-73.	0.5	47
12	Inter-Nanoparticle Bonds in Agglomerates Studied by Nanoindentation. Advanced Materials, 2006, 18, 2028-2030.	21.0	42
13	The Effect of Oxygen Vacancies in the Early Stages of BaTiO3 Nanopowder Sintering. Advanced Materials, 2005, 17, 1606-1608.	21.0	40
14	Use of 1,10-Phenanthroline as an Additive for High-Performance Supercapacitors. Journal of Physical Chemistry C, 2015, 119, 12165-12173.	3.1	40
15	Synthesis of stabilized nanoparticles of zinc peroxide. Chemical Engineering Journal, 2008, 136, 425-429.	12.7	39
16	Surface Stabilization of Nano-sized Titanium Dioxide: Improving the Colloidal Stability and the Sintering Morphology. Journal of Nanoparticle Research, 2007, 9, 403-417.	1.9	38
17	Electrochemical Impedance Analysis of SOFC Cathode Reaction Using Evolutionary Programming. Fuel Cells, 2012, 12, 77-85.	2.4	38
18	Flash sintering of potassium-niobate. Journal of the European Ceramic Society, 2015, 35, 2209-2213.	5.7	32

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19	Impedance spectroscopy analysis inspired by evolutionary programming as a diagnostic tool for SOEC and SOFC. Solid State Ionics, 2016, 288, 307-310.	2.7	32
20	The influence of doping on flash sintering conditions in SrTi1â^'xFexO3â^'Î´. Journal of the European Ceramic Society, 2017, 37, 179-188.	5.7	29
21	Understanding methods of preparation and characterization of pore-filling polymer composites for proton exchange membranes: a beginnerâ€™s guide. Reviews in Chemical Engineering, 2018, 34, 455-479.	4.4	29
22	Point Defect Concentrations in Barium Titanate Revisited. Journal of the American Ceramic Society, 2001, 84, 2147-2149.	3.8	28
23	Effect of Incorporating Method of Niobium on the Properties of Doped Barium Titanate Ceramics. Journal of the American Ceramic Society, 2006, 89, 1584-1589.	3.8	28
24	Line edge roughness detection using deep UV light scatterometry. Microelectronic Engineering, 2007, 84, 619-625.	2.4	27
25	Impedance spectroscopy of Gd-doped ceria analyzed by genetic programming (ISGP) method. Solid State Ionics, 2017, 304, 145-149.	2.7	27
26	Sintering aid (ZnO) effect on proton transport in BaCe_{0.35}Zr_{0.5}Y_{0.15}O_{3â€Î´} and electrode phenomena studied by distribution function of relaxation times. Journal of the American Ceramic Society, 2019, 102, 239-250.	3.8	27
27	Vibrational and impedance spectroscopic analyses of semi-interpenetrating polymer networks as solid polymer electrolytes. Physical Chemistry Chemical Physics, 2017, 19, 14615-14624.	2.8	25
28	Electrochemical studies of Ruddlesden-Popper layered perovskite-type La0.6Sr1.4Co0.2Fe0.8O4+Î´ cathode for solid oxide fuel cells and associated electrical loss phenomena. Ceramics International, 2019, 45, 1641-1650.	4.8	25
29	Analysis of Impedance Spectroscopy Dataâ€”Finding the Best System Function. , 2003, 10, 89-94.		24
30	Ternary NiFeTiOOH Catalyst for the Oxygen Evolution Reaction: Study of the Effect of the Addition of Ti at Different Loadings. ACS Catalysis, 2020, 10, 4879-4887.	11.2	21
31	Electroâ€chemomechanical Contribution to Mechanical Actuation in Gdâ€Doped Ceria Membranes. Advanced Materials Interfaces, 2019, 6, 1801592.	3.7	20
32	Development of a Typical Distribution Function of Relaxation Times Model for Polymer Electrolyte Membrane Fuel Cells and Quantifying the Resistance to Proton Conduction within the Catalyst Layer. Journal of Physical Chemistry C, 2021, 125, 11867-11874.	3.1	20
33	Effect of isovalent doping on grain boundary conductivity for La2Mo2O9 oxide ion conductor: A distribution function of relaxation times approach. Solid State Ionics, 2018, 323, 37-43.	2.7	17
34	Understanding of Oxygen Reduction Reaction on Perovskite-Type Ba_{0.5}Sr_{0.5}Fe_{0.91}Al_{0.09}O_{3-Î´} and Ba_{0.5}Sr_{0.5}Fe_{0.8}Cu_{0.2}O_{3-Î´} Using AC Impedance Spectroscopy Genetic Programming. Journal of Physical Chemistry C, 2018, 122, 15097-15107.	3.1	17
35	Electrochemical impedance spectra of RuO2 during oxygen evolution reaction studied by the distribution function of relaxation times. Electrochemistry Communications, 2020, 110, 106641.	4.7	17
36	Optimization of Niâ^'Coâ^'Feâ€Based Catalysts for Oxygen Evolution Reaction by Surface and Relaxation Phenomena Analysis. ChemSusChem, 2021, 14, 1737-1746.	6.8	17

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37	Eliminating chemical effects from thermal expansion coefficient measurements. Journal of Electroceramics, 2009, 22, 120-124.	2.0	13
38	Utility of Resistance and Capacitance Response in Sensors Based on Monolayer-Capped Metal Nanoparticles. Journal of Physical Chemistry Letters, 2011, 2, 1912-1916.	4.6	13
39	Impurity Solubility Limits in Ionic Crystals, with Application to Cu₂O. Zeitschrift Fur Physikalische Chemie, 1998, 207, 181-213.	2.8	12
40	Determination of grain boundary conductivity using distribution function of relaxation times (DFRT) analysis at room temperature in 10â€mol% Gd doped ceria: A non-classical electrostrictor. Solid State Ionics, 2019, 331, 18-21.	2.7	12
41	Determining the Electrochemical Oxygen Evolution Reaction Kinetics of Fe₃S₄@Ni₃S₂ Using Distribution Function of Relaxation Times. ChemElectroChem, 2021, 8, 517-523.	3.4	12
42	Identification of the Early Stage of Sintering of Nano-BaTiO[sub 3]. Journal of the Electrochemical Society, 2006, 153, F137.	2.9	11
43	The correlation between non-stoichiometry and charge compensation in perovskites. Journal of Electroceramics, 2014, 33, 135-141.	2.0	11
44	Resistive switching phenomena in TiOx nanoparticle layers for memory applications. Applied Physics Letters, 2014, 105, 143506.	3.3	11
45	The Effects of Low Oxygen Activity Conditions on the Phase Equilibria and Cation Occupancy of Strontium Barium Niobate. Journal of the American Ceramic Society, 2016, 99, 3435-3442.	3.8	11
46	Fabrication of nickel-yttria stabilized zirconia 3D micro-pattern by atmospheric plasma spray as a dual-functional electrocatalyst for overall water splitting applications in alkaline medium. Journal of Power Sources, 2020, 473, 228526.	7.8	11
47	Electrochemical Activation of Li2MnO3 Electrodes at 0 Â°C and Its Impact on the Subsequent Performance at Higher Temperatures. Materials, 2020, 13, 4388.	2.9	11
48	A Novel Composite Nafion/Anodized Aluminium Oxide Proton Exchange Membrane. Fuel Cells, 2016, 16, 434-443.	2.4	10
49	A Nafionâ€filled Polycarbonate Trackâ€Etched Composite Membrane with Enhanced Selectivity for Direct Methanol Fuel Cells. Fuel Cells, 2017, 17, 56-66.	2.4	10
50	Triâ€Functional Double Perovskite Oxide Catalysts for Fuel Cells and Electrolyzers. ChemSusChem, 2020, 13, 5671-5682.	6.8	9
51	Recent calculations and measurements of Iâ€“V relations in simple devices based on thin nano versus thick layers of semiconductors with mobile acceptors or donors. Solid State Ionics, 2008, 179, 1187-1193.	2.7	8
52	Electrochemical impedance spectroscopy of supercapacitors: A novel analysis approach using evolutionary programming. , 2014, , .		8
53	Bifunctional PGM-free metal organic framework-based electrocatalysts for alkaline electrolyzers: trends in the activity with different metal centers. Nanoscale, 2021, 13, 4576-4584.	5.6	8
54	Doping of ionic compounds: solubility limit and self-compensation. Solid State Ionics, 1999, 119, 37-42.	2.7	7

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55	Effect of Y-Doping on the Dielectric Properties of BatiO3 Films Deposited in Reducing Atmospheres Using Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1999, 596, 487.	0.1	7
56	How trivalent amphoteric dopants in BaTiO[sub 3] ceramics improve reliability of capacitors. AIP Conference Proceedings, 2000, , .	0.4	7
57	Title is missing!. Journal of Materials Science, 2001, 9, 163-167.	1.2	7
58	Analysis of X-ray Powder Diffraction Data Using the Maximum Likelihood Estimation Method. Journal of the American Ceramic Society, 2004, 83, 2062-2066.	3.8	7
59	A Device for Measuring Electrical Properties of Dielectric Materials. Instrumentation Science and Technology, 2005, 33, 279-287.	1.8	6
60	Cathodic electrophoretic deposition of barium titanate films from aqueous solution. Journal of Materials Science, 2007, 42, 9679-9683.	3.7	6
61	Preparation of core-shell Ti-Nb oxide nanocrystals. Journal of Nanoparticle Research, 2008, 10, 77-85.	1.9	6
62	Synthesis of inside-out coreâ€“shell perovskite-type oxide nanopowder. Chemical Engineering Journal, 2011, 166, 1139-1143.	12.7	6
63	Improving the Oxidation Resistance of Base Metal Powders. Japanese Journal of Applied Physics, 2000, 39, 6004-6007.	1.5	5
64	Properties of solid state devices with significant impurity hopping conduction. Journal Physics D: Applied Physics, 2008, 41, 135106.	2.8	5
65	A novel method for pushing the limits of line edge roughness detection by scatterometry. Proceedings of SPIE, 2008, , .	0.8	5
66	Femtosecond laser processing of ceria-based micro actuators. Microelectronic Engineering, 2019, 217, 111126.	2.4	5
67	Influence of Isovalent â€˜Wâ€™ Substitutions on the Structure and Electrical Properties of La2Mo2O9 Electrolyte for Intermediate-Temperature Solid Oxide Fuel Cells. Ceramics, 2021, 4, 502-515.	2.6	5
68	Uncovering the Change in Catalytic Activity during Electro-oxidation of Urea: Answering Overisolation of the Relaxation Phenomenon. Journal of Physical Chemistry C, 2021, 125, 23126-23132.	3.1	5
69	Using ellipsometry with lock-in detection to measure activation energy of ion diffusion in ionic and mixed conductors. Solid State Ionics, 2014, 264, 7-16.	2.7	4
70	A protocol to detect the phase transition in La 2 Mo 2 O 9 oxide ion conductor. Materials Letters, 2018, 220, 325-327.	2.6	4
71	Interphases Formation and Analysis at the Lithiumâ€“Aluminumâ€“Titaniumâ€“Phosphate (LATP) and Lithiumâ€“Manganese Oxide Spinel (LMO) Interface during Highâ€Temperature Bonding. Energy Technology, 2020, 8, 2000634.	3.8	4
72	Flashâ€Sintering Mechanism Studied Through Interrupted Experiments. Advanced Engineering Materials, 2021, 23, 2001499.	3.5	4

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73	Highly Porous Anode for Application in High-Temperature Electrochemical Devices. Energy Technology, 2013, 1, 25-29.	3.8	4
74	Electrical conductivity of Co doped cuprous oxide. Ionics, 1995, 1, 488-490.	2.4	3
75	Iâ€“V relations in nano thin semi-conductors with mobile acceptors or donors. Solid State Ionics, 2008, 179, 24-24.	2.7	3
76	Investigation of thermo-chemical expansions in Pr and Gd doped ceria by a novel temperature modulated dilatometry approach. Journal of the European Ceramic Society, 2022, 42, 2299-2306.	5.7	3
77	Evolutionary Programming Based Approach for SOFC Cathode Characterization: A Case Study on Co-Free Mixed Conducting Perovskites. ECS Transactions, 2017, 78, 2099-2108.	0.5	2
78	Data for new protocol to detect the monoclinic phase of La2Mo2O9 and related oxide ion conductors. Data in Brief, 2018, 18, 1637-1641.	1.0	2
79	Iâ€“V relations and enhanced mobility of metal vacancies in acceptor doped polycrystalline BaTiO₃ under oxygen activity gradient. Materials Science and Technology, 2009, 25, 1329-1333.	1.6	1
80	Novel method for determining the triple phase boundary width. Solid State Ionics, 2016, 288, 322-324.	2.7	1
81	Novel method for determining the width of the electrochemically active electrode area along the triple phase boundary. Solid State Ionics, 2017, 303, 70-77.	2.7	1
82	Studies on effect of Ca-doping on structure and electrochemical properties of garnet-type Y3-xCaxFe5O12-Î´. Journal of Solid State Chemistry, 2020, 290, 121530.	2.9	1
83	Preformed Oxide Scale Chemistry and Its Influence on Local Metal Loss During Dual Atmosphere Corrosion. Minerals, Metals and Materials Series, 2020, , 635-645.	0.4	1
84	Nb-Doped Barium Titanate: Concentration-Properties Relations. , 2008, , .		0
85	Highly Porous Anode for Application in High-Temperature Electrochemical Devices. Energy Technology, 2013, 1, 25-29.	3.8	0