

Mariappan C R

List of Publications by Year in descending order

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63
papers

1,455
citations

304743

22
h-index

330143

37
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65
all docs

65
docs citations

65
times ranked

1790
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation between micro-structural properties and ionic conductivity of Li _{1.5} Al _{0.5} Ge _{1.5} (PO ₄) ₃ ceramics. <i>Journal of Power Sources</i> , 2011, 196, 6456-6464.	7.8	180
2	Grain boundary resistance of fast lithium ion conductors: Comparison between a lithium-ion conductive Li-Al-Ti-P-O-type glass ceramic and a Li _{1.5} Al _{0.5} Ge _{1.5} P ₃ O ₁₂ ceramic. <i>Electrochemistry Communications</i> , 2012, 14, 25-28.	4.7	113
3	Pseudocapacitance of Mesoporous Spinel-Type MCo ₂ O ₄ (M = Co, Zn, and Ni) Rods Fabricated by a Facile Solvothermal Route. <i>ACS Omega</i> , 2017, 2, 6003-6013.	3.5	79
4	Synthesis of nanostructured LiTi ₂ (PO ₄) ₃ powder by a Pechini-type polymerizable complex method. <i>Journal of Solid State Chemistry</i> , 2006, 179, 450-456.	2.9	60
5	Ac conductivity, dielectric studies and conductivity scaling of NASICON materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 94, 82-88.	3.5	59
6	Inorganic Frameworks from Selenidotetrelate Anions [T ₂ Se ₆] ⁴⁻ (T = Ge, Sn): Synthesis, Structures, and Ionic Conductivity of [K ₂ (H ₂ O) ₃][MnGe ₄ Se ₁₀] and (NMe ₄) ₂ [MSn ₄ Se ₁₀] (M = Mn, Fe). <i>Inorganic Chemistry</i> , 2009, 48, 1689-1698.	4.0	54
7	Synthesis and electrochemical properties of rGO/polypyrrole/ferrites nanocomposites obtained via a hydrothermal route for hybrid aqueous supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019, 845, 72-83.	3.8	54
8	Functional properties of ZnCo ₂ O ₄ nano-particles obtained by thermal decomposition of a solution of binary metal nitrates. <i>RSC Advances</i> , 2015, 5, 26843-26849.	3.6	46
9	Lithium and potassium ion conduction in A ₃ TiB ₂ P ₃ O ₁₂ (A=Li, K; B ₂ =Zn, Cd) NASICON-type glasses. <i>Solid State Ionics</i> , 2005, 176, 723-729.	2.7	45
10	Vitrification of K ₃ M ₂ P ₃ O ₁₂ (M=B, Al, Bi) NASICON-type materials and electrical relaxation studies. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 123, 63-68.	3.5	42
11	Influence of silver on the structure, dielectric and antibacterial effect of silver doped bioglass-ceramic nanoparticles. <i>Ceramics International</i> , 2017, 43, 2196-2201.	4.8	42
12	Pseudocapacitive Charge Storage in Thin Nanobelts. <i>Advanced Fiber Materials</i> , 2019, 1, 205-213.	16.1	41
13	Synthesis, characterization and ion dynamic studies of NASICON type glasses. <i>Solid State Ionics</i> , 2002, 147, 49-59.	2.7	37
14	Preparation, characterization, ac conductivity and permittivity studies on vitreous M ₄ AlCdP ₃ O ₁₂ (M=Li, Na, K) system. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 121, 2-8.	3.5	36
15	Electrode polarization in glassy electrolytes: Large interfacial capacitance values and indication for pseudocapacitive charge storage. <i>Solid State Ionics</i> , 2010, 181, 859-863.	2.7	36
16	Conductivity dispersion and scaling studies in Na ₃ M ₂ P ₃ O ₁₂ orthophosphate (M ₂ =Fe ₂ , TiCd, TiZn). <i>Physica B: Condensed Matter</i> , 2004, 353, 65-74.	2.7	34
17	Investigation of bioglass-electrode interfaces after thermal poling. <i>Solid State Ionics</i> , 2008, 179, 671-677.	2.7	31
18	Characterization of mesoporous Zn doped NiCo ₂ O ₄ rods produced by hydrothermal method for NO _x gas sensing application. <i>Journal of Alloys and Compounds</i> , 2019, 773, 158-167.	5.5	31

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19	Bioactivity of electro-thermally poled bioactive silicate glass. <i>Acta Biomaterialia</i> , 2009, 5, 1274-1283.	8.3	27
20	Electrochemical performances of asymmetric aqueous supercapacitor based on porous Cu ₃ Mo ₂ O ₉ petals and La ₂ Mo ₃ O ₁₂ nanoparticles fabricated through a simple co-precipitation method. <i>Applied Surface Science</i> , 2020, 512, 145648.	6.1	27
21	Mechanism and kinetics of Na ⁺ ion depletion under the anode during electro-thermal poling of a bioactive glass. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 720-724.	3.1	26
22	Conductivity and ion dynamic studies in the NaTi(PO) ₃ (0.6) NASICON material. <i>Solid State Ionics</i> , 2005, 176, 1311-1318.	2.7	25
23	Lithium ion conduction in Li ₅ La ₃ Ta ₂ O ₁₂ and Li ₇ La ₃ Ta ₂ O ₁₃ garnet-type materials. <i>Journal of Electroceramics</i> , 2013, 30, 258-265.	2.0	24
24	AC conductivity scaling behavior in grain and grain boundary response regime of fast lithium ionic conductors. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 847-852.	2.3	21
25	High electrochemical performance of 3D highly porous Zn _{0.2} Ni _{0.8} Co ₂ O ₄ microspheres as an electrode material for electrochemical energy storage. <i>CrystEngComm</i> , 2018, 20, 2159-2168.	2.6	19
26	Synthesis, characterization and electrical conductivity studies on A ₃ Bi ₂ P ₃ O ₁₂ (A=Na, K) materials. <i>Materials Research Bulletin</i> , 2005, 40, 610-618.	5.2	18
27	CuWO ₄ : A promising multifunctional electrode material for energy storage as in redox active solid-state asymmetric supercapacitor and an electrocatalyst for energy conversion in methanol electro-oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115504.	3.8	18
28	Ionic conduction and dielectric properties of yttrium doped LiZr ₂ (PO ₄) ₃ obtained by a Pechini-type polymerizable complex route. <i>Ceramics International</i> , 2018, 44, 15509-15516.	4.8	17
29	Structural and ion transport properties of sodium ion conducting Na ₂ MTeO ₆ (M= MgNi and MgZn) solid electrolytes. <i>Ceramics International</i> , 2020, 46, 663-671.	4.8	16
30	Novel semiconducting metal-organic framework: Synthesis, structural characterisation and electrical conductivity studies of manganese based two dimensional coordination polymer. <i>Inorganic Chemistry Communication</i> , 2012, 20, 269-272.	3.9	15
31	Antibacterial and structural properties of mesoporous Ag doped calcium borosilicate glass-ceramics synthesized via a sol-gel route. <i>Journal of Non-Crystalline Solids</i> , 2019, 505, 431-437.	3.1	15
32	Electrical properties of A _{2.6+x} Ti _{1.4-2x} Cd(PO ₄) _{3.4-2x} (A=Li, K; x=0-1.0) phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2737-2745.	3.1	14
33	Mesoporous electroactive silver doped calcium borosilicates: Structural, antibacterial and myogenic potential relationship of improved bio-ceramics. <i>Ceramics International</i> , 2021, 47, 3586-3596.	4.8	14
34	Electrochemical double layers at the interface between glassy electrolytes and platinum: Differentiating between the anode and the cathode capacitance. <i>Physical Review B</i> , 2010, 82, .	3.2	12
35	Correlation between structural, electrical and electrochemical performance of Zn doped high voltage spinel LiNi _{0.5-x} Zn _x Mn _{1.5} O ₄ porous microspheres as a cathode material for Li-Ion batteries. <i>Ceramics International</i> , 2021, 47, 35275-35286.	4.8	12
36	Boosting the Multifunctional Properties of MnCo ₂ O ₄ MnCo ₂ S ₄ Heterostructure for Portable All-Solid-State Symmetric Supercapacitor, Methanol Oxidation and Hydrogen Evolution Reaction. <i>ChemistrySelect</i> , 2021, 6, 11466-11481.	1.5	11

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55	Electrochemical performance of spinel-type Ni doped ZnCo ₂ O ₄ mesoporous rods as an electrode for supercapacitors. AIP Conference Proceedings, 2018, , .	0.4	1
56	Investigation on the electrochemical properties of mesoporous Zn _{0.2} Ni _{0.05} Co _{0.5} O microspheres for supercapacitors. International Journal of Environmental Analytical Chemistry, 2021, 101, 1684-1696.	3.3	1
57	In-Vitro Study of Sol Gel Synthesized Bioactive Glass Ceramics for Anti-Microbial Properties. Journal of Nanoscience and Nanotechnology, 2021, 21, 1606-1612.	0.9	1
58	Synthesis, Characterization and Electrical Properties of Nano-Sized Zn _x Co _{3x} O ₄ (x = 0.0-0.5) Materials. Advanced Science Letters, 2014, 20, 1450-1453.	0.2	1
59	Selective detection of NH ₃ by Ag ₆ Mo ₁₀ O ₃₃ thick film by AC impedance spectroscopy. , 2012, , .		0
60	Zinc doped calcium phosphosilicatebioglass: Study of in-vitro bioactivity and antimicrobial behavior. AIP Conference Proceedings, 2019, , .	0.4	0
61	Silver-doped strontium calcium silicate microspheres: Structural and antibacterial studies. AIP Conference Proceedings, 2019, , .	0.4	0
62	Synthesis and electrical impedance study of Li _{1+2x} Ni _{0.5} Mn _{1.5-x} Zn _x O ₄ (0 ≤ x ≤ 0.3) for Li-ion battery application. Materials Today: Proceedings, 2020, 28, 2258-2262.	1.8	0
63	FREQUENCY DEPENDENT ELECTRICAL PROPERTIES OF THE Na ₃ Fe ₂ P ₃ O ₁₂ AND Na ₄ FeCdP ₃ O ₁₂ NASICON MATERIAL. , 2002, , .		