S Ramesh

List of Publications by Year
in descending order

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Version: 2024-02-01

387 papers	13,133 citations	20797 60 h-index	37183 96 g-index
391 all docs	391 docs citations	391 times ranked	11419 citing authors

#	Article	IF	Citations
1	A review of polymer electrolytes: fundamental, approaches and applications. Ionics, 2016, 22, 1259-1279.	1.2	488
2	FTIR studies of PVC/PMMA blend based polymer electrolytes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 66, 1237-1242.	2.0	350
3	Properties of hydroxyapatite produced by annealing of bovine bone. Ceramics International, 2007, 33, 1171-1177.	2.3	345
4	Porous hydroxyapatite for artificial bone applications. Science and Technology of Advanced Materials, 2007, 8, 116-123.	2.8	342
5	The effects of sintering temperature on the properties of hydroxyapatite. Ceramics International, 2000, 26, 221-230.	2.3	334
6	Fundamental Concepts of Hydrogels: Synthesis, Properties, and Their Applications. Polymers, 2020, 12, 2702.	2.0	321
7	Design of thin wall structures for energy absorption applications: Enhancement of crashworthiness due to axial and oblique impact forces. Thin-Walled Structures, 2013, 71, 7-17.	2.7	223
8	A review on microstructural study and compressive strength of geopolymer mortar, paste and concrete. Construction and Building Materials, 2018, 186, 550-576.	3.2	202
9	Conductivity and FTIR studies on PEOâ€“LiX [X: CF3SO3â¯, SO42â¯] polymer electrolytes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 69, 670-675.	2.0	171
10	Facile sonochemical synthesis of nanostructured NiO with different particle sizes and its electrochemical properties for supercapacitor application. Journal of Colloid and Interface Science, 2016, 471, 136-144.	5.0	171
11	Good prospect of ionic liquid based-poly(vinyl alcohol) polymer electrolytes for supercapacitors with excellent electrical, electrochemical and thermal properties. International Journal of Hydrogen Energy, 2014, 39, 2953-2963.	3.8	167
12	Ultrahigh capacitance of amorphous nickel phosphate for asymmetric supercapacitor applications. RSC Advances, 2016, 6, 76298-76306.	1.7	167
13	Preparation and characterization of nanocellulose reinforced semi-interpenetrating polymer network of chitosan hydrogel. Cellulose, 2017, 24, 2215-2228.	2.4	148
14	Synthesis and sintering of hydroxyapatite derived from eggshells as a calcium precursor. Ceramics International, 2014, 40, 16349-16359.	2.3	145
15	Ion conducting corn starch biopolymer electrolytes doped with ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate. Journal of Non-Crystalline Solids, 2011, 357, 3654-3660.	1.5	144
16	A review on resistance spot welding of aluminum alloys. International Journal of Advanced Manufacturing Technology, 2017, 90, 605-634.	1.5	137
17	Effect of ethylene carbonate on the ionic conduction in poly(vinylidenefluoride-hexafluoropropylene) based solid polymer electrolytes. Polymer Chemistry, 2010, 1, 702.	1.9	135
18	Enhanced electrochemical performance of cobalt oxide nanocube intercalated reduced graphene oxide for supercapacitor application. RSC Advances, 2016, 6, 34894-34902.	1.7	131

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19	Structural, thermal and electrochemical cell characteristics of poly(vinyl chloride)-based polymer electrolytes. Journal of Power Sources, 2001, 99, 41-47.	4.0	124
20	Characterization of ionic liquid added poly(vinylÂalcohol)-based proton conducting polymer electrolytes and electrochemical studiesÂon the supercapacitors. International Journal of Hydrogen Energy, 2015, 40, 852-862.	3.8	114
21	Electrical, structural, thermal and electrochemical properties of corn starch-based biopolymer electrolytes. Carbohydrate Polymers, 2015, 124, 222-228.	5.1	112
22	Densification behaviour of nanocrystalline hydroxyapatite bioceramics. Journal of Materials Processing Technology, 2008, 206, 221-230.	3.1	107
23	Challenges and advances in laser welding of dissimilar light alloys: Al/Mg, Al/Ti, and Mg/Ti alloys. International Journal of Advanced Manufacturing Technology, 2018, 95, 4353-4369.	1.5	107
24	A review on laser beam welding of titanium alloys. International Journal of Advanced Manufacturing Technology, 2018, 97, 1071-1098.	1.5	101
25	Characterization of biogenic hydroxyapatite derived from animal bones for biomedical applications. Ceramics International, 2018, 44, 10525-10530.	2.3	95
26	Curcumin/Tween 20-incorporated cellulose nanoparticles with enhanced curcumin solubility for nano-drug delivery: characterization and in vitro evaluation. Cellulose, 2019, 26, 5467-5481.	2.4	93
27	Processing of mesoporous silica materials (MCM-41) from coal fly ash. Journal of Materials Processing Technology, 2007, 186, 8-13.	3.1	92
28	Influence of a nonionic surfactant on curcumin delivery of nanocellulose reinforced chitosan hydrogel. International Journal of Biological Macromolecules, 2018, 118, 1055-1064.	3.6	90
29	Conducting polymer and its composite materials based electrochemical sensor for Nicotinamide Adenine Dinucleotide (NADH). Biosensors and Bioelectronics, 2016, 79, 763-775.	5.3	88
30	Electrocoagulation treatment of raw landfill leachate using iron-based electrodes: Effects of process parameters and optimization. Journal of Environmental Management, 2017, 204, 75-81.	3.8	88
31	Investigation on the effects of addition of SiO2 nanoparticles on ionic conductivity, FTIR, and thermal properties of nanocomposite PMMAâ€“LiCF3SO3â€“SiO2. Ionics, 2010, 16, 255-262.	1.2	87
32	Sintering behaviour of natural porous hydroxyapatite derived from bovine bone. Ceramics International, 2015, 41, 3024-3029.	2.3	87
33	Electrical, structural, and thermal studies of antimony trioxide-doped poly(acrylic acid)-based composite polymer electrolytes. Ionics, 2014, 20, 665-674.	1.2	86
34	Consolidation of nanocrystalline hydroxyapatite powder. Science and Technology of Advanced Materials, 2007, 8, 124-130.	2.8	85
35	Advanced composite sandwich structure design for energy absorption applications: Blast protection and crashworthiness. Composites Part B: Engineering, 2012, 43, 2198-2208.	5.9	85
36	Sintering properties of hydroxyapatite powders prepared using different methods. Ceramics International, 2013, 39, 111-119.	2.3	85

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37	Investigation on structural and electrochemical properties of binder free nanostructured nickel oxide thin film. Materials Letters, 2015, 161, 694-697.	1.3	82
38	Direct conversion of eggshell to hydroxyapatite ceramic by a sintering method. Ceramics International, 2016, 42, 7824-7829.	2.3	82
39	Fuzzy logic based model for predicting surface roughness of machined Alâ€“Siâ€“Cuâ€“Fe die casting alloy using different additives-turning. Measurement: Journal of the International Measurement Confederation, 2015, 61, 150-161.	2.5	80
40	An enhanced performance of hybrid supercapacitor based on polyaniline-manganese phosphate binary composite. Journal of Solid State Electrochemistry, 2017, 21, 3205-3213.	1.2	79
41	Comparison between microwave and conventional sintering on the properties and microstructural evolution of tetragonal zirconia. Ceramics International, 2018, 44, 8922-8927.	2.3	79
42	Rapid densification of nanocrystalline hydroxyapatite for biomedical applications. Ceramics International, 2007, 33, 1363-1367.	2.3	78
43	Characterization of conducting cellulose acetate based polymer electrolytes doped with â€œgreenâ€• ionic mixture. Carbohydrate Polymers, 2013, 91, 14-21.	5.1	78
44	Synthesis, characterization, properties of N-succinyl chitosan-g-poly (methacrylic acid) hydrogels and inÂvitro release of theophylline. Polymer, 2016, 92, 36-49.	1.8	77
45	Microstructure and mechanical properties of resistance spot welded in welding-brazing mode and resistance element welded magnesium alloy/austenitic stainless steel joints. Journal of Materials Processing Technology, 2017, 250, 45-54.	3.1	76
46	Sintering, microstructure and mechanical properties of commercial Y-TZPs. Journal of Materials Science, 1996, 31, 6055-6062.	1.7	74
47	Preparation and characterization of lithium ion conducting ionic liquid-based biodegradable corn starch polymer electrolytes. Journal of Solid State Electrochemistry, 2012, 16, 1869-1875.	1.2	74
48	Enhanced ionic conductivity of scandia-ceria-stabilized-zirconia (10Sc1CeSZ) electrolyte synthesized by the microwave-assisted glycine nitrate process. Ceramics International, 2017, 43, 8119-8125.	2.3	73
49	Electric double-layer capacitors with corn starch-based biopolymer electrolytes incorporating silica as filler. Ionics, 2015, 21, 2061-2068.	1.2	72
50	An Approach to Solid-State Electrical Double Layer Capacitors Fabricated with Graphene Oxide-Doped, Ionic Liquid-Based Solid Copolymer Electrolytes. Materials, 2016, 9, 450.	1.3	70
51	Ionic liquid enhanced magnesium-based polymer electrolytes for electrical double-layer capacitors. Ionics, 2016, 22, 919-925.	1.2	70
52	Hydroxypropyl Cellulose Based Non-Volatile Gel Polymer Electrolytes for Dye-Sensitized Solar Cell Applications using 1-methyl-3-propylimidazolium iodide ionic liquid. Scientific Reports, 2015, 5, 18056.	1.6	68
53	Investigating the Machinability of Alâ€“Siâ€“Cu cast alloy containing bismuth and antimony using coated carbide insert. Measurement: Journal of the International Measurement Confederation, 2015, 62, 170-178.	2.5	68
54	Effects of silicate and carbonate substitution on the properties of hydroxyapatite prepared by aqueous co-precipitation method. Materials and Design, 2015, 87, 788-796.	3.3	67

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55	pH responsive N-succinyl chitosan/Poly (acrylamide-co-acrylic acid) hydrogels and in vitro release of 5-fluorouracil. PLoS ONE, 2017, 12, e0179250.	1.1	67
56	A review on laser beam welding of copper alloys. International Journal of Advanced Manufacturing Technology, 2018, 96, 475-490.	1.5	67
57	Preparation and Characterization of Poly(lactic Acid)-based Composite Reinforced with Oil Palm Empty Fruit Bunch Fiber and Nanosilica. BioResources, 2015, 11, .	0.5	66
58	Characteristics and properties of hydoxyapatite derived by solâ€“gel and wet chemical precipitation methods. Ceramics International, 2015, 41, 10434-10441.	2.3	66
59	Studies on the plasticization efficiency of deep eutectic solvent in suppressing the crystallinity of corn starch based polymer electrolytes. Carbohydrate Polymers, 2012, 87, 701-706.	5.1	65
60	Microwave pyrolysis of oil palm fiber (OPF) for hydrogen production: Parametric investigation. Energy Conversion and Management, 2016, 115, 232-243.	4.4	65
61	Composite sandwich structures with nested inserts for energy absorption application. Composite Structures, 2012, 94, 904-916.	3.1	63
62	Comparing Triflate and Hexafluorophosphate Anions of Ionic Liquids in Polymer Electrolytes for Supercapacitor Applications. Materials, 2014, 7, 4019-4033.	1.3	63
63	Electric double layer capacitor based on activated carbon electrode and biodegradable composite polymer electrolyte. Ionics, 2014, 20, 251-258.	1.2	63
64	A review on the hydrothermal ageing behaviour of Y-TZP ceramics. Ceramics International, 2018, 44, 20620-20634.	2.3	63
65	Nanocrystalline forsterite for biomedical applications: Synthesis, microstructure and mechanical properties. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 25, 63-69.	1.5	62
66	A review on resistance spot welding of magnesium alloys. International Journal of Advanced Manufacturing Technology, 2016, 86, 1805-1825.	1.5	62
67	Densification behaviour and properties of manganese oxide doped Y-TZP ceramics. Ceramics International, 2011, 37, 3583-3590.	2.3	61
68	Impact of low viscosity ionic liquid on PMMAâ€“PVCâ€“LiTFSI polymer electrolytes based on AC -impedance, dielectric behavior, and HATRâ€“FTIR characteristics. Journal of Materials Research, 2012, 27, 2996-3004.	1.2	61
69	Oxide scale growth and presumed exfoliation in a 700Â°C or higher steam condition: A simulation study for future operations of ultra-supercritical power plants. Journal of Supercritical Fluids, 2014, 92, 215-222.	1.6	61
70	The effect of manganese oxide on the sinterability of hydroxyapatite. Science and Technology of Advanced Materials, 2007, 8, 257-263.	2.8	60
71	Effect of manganese oxide on the sintered properties and low temperature degradation of Y-TZP ceramics. Ceramics International, 2008, 34, 1603-1608.	2.3	60
72	Effects of manganese doping on properties of solâ€“gel derived biphasic calcium phosphate ceramics. Ceramics International, 2011, 37, 3703-3715.	2.3	60

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73	Sintering behavior of hydroxyapatite prepared from different routes. Materials & Design, 2012, 34, 148-154.	5.1	60
74	Sintering and mechanical properties of MgO-doped nanocrystalline hydroxyapatite. Ceramics International, 2013, 39, 8979-8983.	2.3	60
75	The Effects of Calciumâ€toâ€Phosphorus Ratio on the Densification and Mechanical Properties of Hydroxyapatite Ceramic. International Journal of Applied Ceramic Technology, 2015, 12, 223-227.	1.1	60
76	Effect of two-step sintering on the hydrothermal ageing resistance of tetragonal zirconia polycrystals. Ceramics International, 2017, 43, 7594-7599.	2.3	59
77	Nonsurfactant route of fatty alcohols decomposition for templating of mesoporous silica. Microporous and Mesoporous Materials, 2008, 112, 243-253.	2.2	58
78	Effects of bismuth oxide on the sinterability of hydroxyapatite. Ceramics International, 2011, 37, 599-606.	2.3	58
79	Poly(Acrylic acid)â€“Based Hybrid Inorganicâ€“Organic Electrolytes Membrane for Electrical Double Layer Capacitors Application. Polymers, 2016, 8, 179.	2.0	58
80	Non-hydrothermal synthesis of mesoporous materials using sodium silicate from coal fly ash. Materials Chemistry and Physics, 2007, 101, 344-351.	2.0	57
81	Effect of multi-ions doping on the properties of carbonated hydroxyapatite bioceramic. Ceramics International, 2019, 45, 3473-3477.	2.3	57
82	Novel poly(vinylidene fluoride-co-hexafluoro propylene)/polyethylene oxide based gel polymer electrolyte containing fumed silica (SiO2) nanofiller for high performance dye-sensitized solar cell. Electrochimica Acta, 2016, 220, 573-580.	2.6	56
83	Environmental degradation of CuO-doped Y-TZP ceramics. Ceramics International, 2001, 27, 705-711.	2.3	55
84	Augmented realityâ€“based programming, planning and simulation of a robotic work cell. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 1029-1045.	1.5	55
85	A facile ultrasonic-aided biosynthesis of ZnO nanoparticles using Vaccinium arctostaphylos L. leaf extract and its antidiabetic, antibacterial, and oxidative activity evaluation. Ultrasonics Sonochemistry, 2019, 55, 57-66.	3.8	55
86	A concise review on corrosion inhibitors: types, mechanisms and electrochemical evaluation studies. Journal of Coatings Technology Research, 2022, 19, 241-268.	1.2	55
87	Title is missing!. Journal of Materials Science, 1999, 34, 5457-5467.	1.7	54
88	Sonochemical synthesis of nanostructured nickel hydroxide as an electrode material for improved electrochemical energy storage application. Progress in Natural Science: Materials International, 2017, 27, 416-423.	1.8	54
89	Impedance spectroscopy of CuO-doped Y-TZP ceramics. Journal of Materials Science, 1998, 33, 5103-5110.	1.7	53
90	Conductivity, dielectric behaviour and thermal stability studies of lithium ion dissociation in poly(methyl methacrylate)-based gel polymer electrolytes. Ionics, 2009, 15, 249-254.	1.2	53

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91	The role and contribution of green buildings on sustainable development goals. Building and Environment, 2020, 185, 107091.	3.0	53
92	Machining characteristics of Inconel 718 under several cutting conditions based on Taguchi method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 1889-1897.	1.1	52
93	Electrophoretic deposition of magnesium silicates on titanium implants: Ion migration and silicide interfaces. Applied Surface Science, 2014, 307, 1-6.	3.1	52
94	N-succinyl chitosan preparation, characterization, properties and biomedical applications: a state of the art review. Reviews in Chemical Engineering, 2015, 31, .	2.3	51
95	Effect of different imidazolium-based ionic liquids on gel polymer electrolytes for dye-sensitized solar cells. Ionics, 2019, 25, 2427-2435.	1.2	51
96	Impedance and FTIR studies on plasticized PMMAâ€“LiN(CF3SO2)2 nanocomposite polymer electrolytes. Ionics, 2010, 16, 465-473.	1.2	49
97	A novel design, analysis and 3D printing of Ti-6Al-4V alloy bio-inspired porous femoral stem. Journal of Materials Science: Materials in Medicine, 2020, 31, 78.	1.7	48
98	Ternary nanocomposite of cobalt oxide nanograins and silver nanoparticles grown on reduced graphene oxide conducting platform for high-performance supercapattery electrode material. Journal of Alloys and Compounds, 2020, 821, 153452.	2.8	46
99	Efficiency improvement by incorporating 1-methyl-3-propylimidazolium iodide ionic liquid in gel polymer electrolytes for dye-sensitized solar cells. Electrochimica Acta, 2015, 175, 169-175.	2.6	45
100	Studies on ionic liquid-based corn starch biopolymer electrolytes coupling with high ionic transport number. Cellulose, 2013, 20, 3227-3237.	2.4	44
101	The conductivity and dielectric studies of solid polymer electrolytes based on poly (acrylamide-co-acrylic acid) doped with sodium iodide. Ionics, 2018, 24, 1947-1953.	1.2	44
102	The properties of hydroxyapatite ceramic coatings produced by plasma electrolytic oxidation. Ceramics International, 2018, 44, 1802-1811.	2.3	44
103	Evolution of sustainability in global green building rating tools. Journal of Cleaner Production, 2020, 259, 120912.	4.6	44
104	Formulation and characterization of hybrid polymeric/ZnO nanocomposite coatings with remarkable anti-corrosion and hydrophobic characteristics. Journal of Coatings Technology Research, 2016, 13, 921-930.	1.2	43
105	Degradation of ultra-high molecular weight poly(methyl methacrylate-co-butyl acrylate-co-acrylic) Tj ETQq1 1 0.784314 rgBT /Overloc	1.7	43
106	Rheological behavior of biodegradable N-succinyl chitosan-g-poly (acrylic acid) hydrogels and their applications as drug carrier and in vitro theophylline release. International Journal of Biological Macromolecules, 2018, 117, 454-466.	3.6	43
107	Development of asymmetric device using Co3(PO4)2 as a positive electrode for energy storage application. Journal of Materials Science: Materials in Electronics, 2019, 30, 7435-7446.	1.1	43
108	Binary nanocomposite based on Co3O4 nanocubes and multiwalled carbon nanotubes as an ultrasensitive platform for amperometric determination of dopamine. Mikrochimica Acta, 2017, 184, 2739-2748.	2.5	42

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109	Investigation on the effect of nanosilica towards corn starchâ€“lithium perchlorate-based polymer electrolytes. Journal of Solid State Electrochemistry, 2012, 16, 3165-3170.	1.2	40
110	The influence of Ca/P ratio on the properties of hydroxyapatite bioceramics. Proceedings of SPIE, 2007, 6423, 855.	0.8	39
111	Micro-arc oxidation of bioceramic coatings containing eggshell-derived hydroxyapatite on titanium substrate. Ceramics International, 2019, 45, 18371-18381.	2.3	39
112	Sintering behaviour and properties of manganese-doped alumina. Ceramics International, 2019, 45, 7049-7054.	2.3	39
113	Finite element study of functionally graded porous femoral stems incorporating bodyâ€centered cubic structure. Artificial Organs, 2019, 43, E152-E164.	1.0	38
114	Rheological Studies of PMMAâ€“PVC Based Polymer Blend Electrolytes with LiTFSI as Doping Salt. PLoS ONE, 2014, 9, e102815.	1.1	37
115	Effect of different iodide salts on ionic conductivity and structural and thermal behavior of rice-starch-based polymer electrolytes for dye-sensitized solar cell application. Ionics, 2015, 21, 2383-2391.	1.2	35
116	Effects of ionic liquid on the hydroxylpropylmethyl cellulose (HPMC) solid polymer electrolyte. Ionics, 2016, 22, 2421-2430.	1.2	34
117	Analysis of corrosion protection behavior of Al2O3-TiO2 oxide ceramic coating on carbon steel pipes for petroleum industry. Ceramics International, 2018, 44, 5967-5975.	2.3	34
118	Effect of zinc ions on the structural characteristics of hydroxyapatite bioceramics. Ceramics International, 2020, 46, 13945-13952.	2.3	34
119	Sintering behaviour and properties of graphene oxide-doped Y-TZP ceramics. Ceramics International, 2016, 42, 17620-17625.	2.3	33
120	Conductivity, dielectric studies and structural properties of P(VA-co-PE) and its application in dye sensitized solar cell. Organic Electronics, 2018, 56, 116-124.	1.4	33
121	Effect of pH on the properties of eggshell-derived hydroxyapatite bioceramic synthesized by wet chemical method assisted by microwave irradiation. Ceramics International, 2021, 47, 8879-8887.	2.3	33
122	FTIR spectra of plasticized high molecular weight PVCâ€“LiCF3SO3 electrolytes. Ionics, 2009, 15, 413-420.	1.2	31
123	Comparison of the performance of copper oxide and yttrium oxide nanoparticle based hydroxylethyl cellulose electrolytes for supercapacitors. Journal of Applied Polymer Science, 2017, 134, .	1.3	31
124	The conductivity and dielectric studies of polymer electrolytes based on iota-carrageenan with sodium iodide and 1-butyl-3-methylimidazolium iodide for the dye-sensitized solar cells. Ionics, 2019, 25, 763-771.	1.2	31
125	Poly (1-vinylpyrrolidone-co-vinyl acetate) (PVP-co-VAc) based gel polymer electrolytes for electric double layer capacitors (EDLC). Journal of Polymer Research, 2020, 27, 1.	1.2	31
126	Electrical, thermal, and structural studies on highly conducting additive-free biopolymer electrolytes for electric double-layer capacitor application. Ionics, 2019, 25, 4861-4874.	1.2	30

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127	Effect of dibutyl phthalate as plasticizer on high-molecular weight poly(vinyl chloride)â€“lithium tetraborate-based solid polymer electrolytes. Ionics, 2011, 17, 705-713.	1.2	29
128	Effect of Ag nanoparticles seeding on the properties of silica spheres. Ceramics International, 2018, 44, 5901-5908.	2.3	28
129	Preparation and characterization of poly (ethyl methacrylate) based polymer electrolytes doped with 1-butyl-3-methylimidazolium trifluoromethanesulfonate. Measurement: Journal of the International Measurement Confederation, 2014, 48, 263-273.	2.5	27
130	Conductivity, Mechanical and Thermal Studies on Poly(methyl methacrylate)-Based Polymer Electrolytes Complexed with Lithium Tetraborate and Propylene Carbonate. Journal of Materials Engineering and Performance, 2012, 21, 89-94.	1.2	26
131	Studies on biodegradable polymer electrolyte rice starch (RS) complexed with lithium iodide. Ionics, 2014, 20, 691-695.	1.2	26
132	Sintering behaviour of carbonated hydroxyapatite prepared at different carbonate and phosphate ratios. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2020, 59, 73-80.	0.9	26
133	Effects of sintering additives on the densification and properties of alumina-toughened zirconia ceramic composites. Ceramics International, 2020, 46, 27539-27549.	2.3	26
134	Preparation and characterization of starch-based bioplastic composites with treated oil palm empty fruit bunch fibers and citric acid. Cellulose, 2021, 28, 4191-4210.	2.4	26
135	Exploring the effect of novel N-butyl-6-methylquinolinium bis(trifluoromethylsulfonyl)imide ionic liquid addition to poly(methyl methacrylate-co-methacrylic) acid electrolyte system as employed in gel-state dye sensitized solar cells. Electrochimica Acta, 2017, 240, 361-370.	2.6	25
136	Electrical, dielectric and electrochemical characterization of novel poly(acrylic acid)-based polymer electrolytes complexed with lithium tetrafluoroborate. Chemical Physics Letters, 2018, 692, 19-27.	1.2	25
137	A systematic review on material selection methods. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 1032-1059.	0.7	25
138	Preparation and characterization of plasticized high molecular weight PVC-based polymer electrolytes. Sadhana - Academy Proceedings in Engineering Sciences, 2010, 35, 87-95.	0.8	24
139	Enhancement of ionic conductivity and structural properties by 1â€butylâ€3â€methylimidazolium trifluoromethanesulfonate ionic liquid in poly(vinylidene fluorideâ€“hexafluoropropylene)â€based polymer electrolytes. Journal of Applied Polymer Science, 2012, 126, E484.	1.3	24
140	Discussion on the influence of DES content in CA-based polymer electrolytes. Journal of Materials Science, 2012, 47, 1787-1793.	1.7	24
141	Density functional theory simulation of cobalt oxide aggregation and facile synthesis of a cobalt oxide, gold and multiwalled carbon nanotube based ternary composite for a high performance supercapattery. New Journal of Chemistry, 2019, 43, 13183-13195.	1.4	24
142	Characterization of soft-combustion-derived NASICON-type Li2Co2(MoO4)3 for lithium batteries. Materials Chemistry and Physics, 2004, 87, 318-326.	2.0	23
143	Preparation and performance analysis of barium titanate incorporated in corn starchâ€based polymer electrolytes for electric double layer capacitor application. Journal of Applied Polymer Science, 2016, 133, .	1.3	23
144	The potential of incorporation of binary salts and ionic liquid in P(VP-co-VAc) gel polymer electrolyte in electrochemical and photovoltaic performances. Scientific Reports, 2016, 6, 27630.	1.6	22

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145	Microwave sintering of ceria-doped scandia stabilized zirconia as electrolyte for solid oxide fuel cell. International Journal of Hydrogen Energy, 2016, 41, 14184-14190.	3.8	22
146	Novel development towards preparation of highly efficient ionic liquid based co-polymer electrolytes and its application in dye-sensitized solar cells. Organic Electronics, 2017, 41, 33-41.	1.4	22
147	Cobalt Oxide Nanograins and Silver Nanoparticles Decorated Fibrous Polyaniline Nanocomposite as Battery-Type Electrode for High Performance Supercapattery. Polymers, 2020, 12, 2816.	2.0	22
148	Na-doped LiMnPO4 as an electrode material for enhanced lithium ion batteries. Bulletin of Materials Science, 2017, 40, 171-175.	0.8	21
149	Quasi-solid-state agar-based polymer electrolytes for dye-sensitized solar cell applications using imidazolium-based ionic liquid. Ionics, 2017, 23, 1585-1590.	1.2	21
150	Resistance element weld-bonding and resistance spot weld-bonding of Mg alloy/austenitic stainless steel. Journal of Manufacturing Processes, 2019, 48, 12-30.	2.8	21
151	Effect of sintering temperature on the morphology, crystallinity and mechanical properties of carbonated hydroxyapatite (CHA). Ceramics International, 2020, 46, 26784-26789.	2.3	21
152	Mechanical studies on poly(vinyl chloride)â€“poly(methyl methacrylate)-based polymer electrolytes. Journal of Materials Science, 2010, 45, 1280-1283.	1.7	20
153	Ionic conductivity, dielectric behavior, and HATRâ€“FTIR analysis onto poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Polymer Science, 2013, 127, 2380-2388.	1.3	20
154	Optimization of poly(vinyl alcohol-co-ethylene)-based gel polymer electrolyte containing nickel phosphate nanoparticles for dye-sensitized solar cell application. Solar Energy, 2019, 178, 231-240.	2.9	20
155	A study incorporating nano-sized silica into PVC-blend-based polymer electrolytes for lithium batteries. Journal of Materials Science, 2009, 44, 6404-6407.	1.7	19
156	Structural, thermal, and conductivity studies of high molecular weight poly(vinylchloride)-lithium triflate polymer electrolyte plasticized by dibutyl phthalate. Ionics, 2009, 15, 725-730.	1.2	19
157	Development and investigation on PMMAâ€“PVC blend-based solid polymer electrolytes with LiTFSI as dopant salt. Polymer Bulletin, 2013, 70, 1277-1288.	1.7	19
158	Exact solution for stresses/displacements in a multilayered hollow cylinder under thermo-mechanical loading. International Journal of Pressure Vessels and Piping, 2017, 151, 45-53.	1.2	19
159	Exploration on polypropylene carbonate polymer for gel polymer electrolyte preparation and dyeâ€sensitized solar cell application. Journal of Applied Polymer Science, 2017, 134, 45091.	1.3	19
160	Two-Step Sintering of Ceramics. , 0, , .		19
161	Resistance element welding of magnesium alloy and austenitic stainless steel in three-sheet configurations. Journal of Materials Processing Technology, 2019, 274, 116292.	3.1	19
162	Polyacrylonitrileâ€“poly(1â€vinyl pyrrolidoneâ€coâ€vinyl acetate) blend based gel polymer electrolytes incorporated with sodium iodide salt for dyeâ€sensitized solar cell applications. Journal of Applied Polymer Science, 2019, 136, 47810.	1.3	19

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