S Ramesh

List of Publications by Citations

372	8,569	48	77
papers	citations	h-index	g-index
391	11,032	3.2	6.62
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
372	A review of polymer electrolytes: fundamental, approaches and applications. *Ionics*, **2016**, 22, 1259-1279	2.7	307
371	Porous hydroxyapatite for artificial bone applications. *Science and Technology of Advanced Materials*, **2007**, 8, 116-123	7.1	287
370	Properties of hydroxyapatite produced by annealing of bovine bone. *Ceramics International*, **2007**, 33, 1171-1177	5.1	283
369	The effects of sintering temperature on the properties of hydroxyapatite. *Ceramics International*, **2000**, 26, 221-230	5.1	278
368	FTIR studies of PVC/PMMA blend based polymer electrolytes. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2007**, 66, 1237-42	4.4	268
367	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	4.7	160
366	Conductivity and FTIR studies on PEO-LiX [X: CF3SO3(-), SO4(2-)] polymer electrolytes. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2008**, 69, 670-5	4.4	140
365	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	6.7	138
364	Ion conducting corn starch biopolymer electrolytes doped with ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate. *Journal of Non-Crystalline Solids*, **2011**, 357, 3654-3660	3.9	124
363	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	9.3	115
362	Effect of ethylene carbonate on the ionic conduction in poly(vinylidenefluoride-hexafluoropropylene) based solid polymer electrolytes. *Polymer Chemistry*, **2010**, 1, 702	4.9	109
361	Ultrahigh capacitance of amorphous nickel phosphate for asymmetric supercapacitor applications. *RSC Advances*, **2016**, 6, 76298-76306	3.7	109
360	Preparation and characterization of nanocellulose reinforced semi-interpenetrating polymer network of chitosan hydrogel. *Cellulose*, **2017**, 24, 2215-2228	5.5	108
359	Structural, thermal and electrochemical cell characteristics of poly(vinyl chloride)-based polymer electrolytes. *Journal of Power Sources*, **2001**, 99, 41-47	8.9	106
358	A review on microstructural study and compressive strength of geopolymer mortar, paste and concrete. *Construction and Building Materials*, **2018**, 186, 550-576	6.7	104
357	Synthesis and sintering of hydroxyapatite derived from eggshells as a calcium precursor. *Ceramics International*, **2014**, 40, 16349-16359	5.1	94
356	Characterization of ionic liquid added poly(vinyl alcohol)-based proton conducting polymer electrolytes and electrochemical studies on the supercapacitors. *International Journal of Hydrogen Energy*, **2015**, 40, 852-862	6.7	92

355	Electrical, structural, thermal and electrochemical properties of corn starch-based biopolymer electrolytes. *Carbohydrate Polymers*, **2015**, 124, 222-8	10.3	87
354	A review on resistance spot welding of aluminum alloys. *International Journal of Advanced Manufacturing Technology*, **2017**, 90, 605-634	3.2	87
353	Densification behaviour of nanocrystalline hydroxyapatite bioceramics. *Journal of Materials Processing Technology*, **2008**, 206, 221-230	5.3	86
352	Processing of mesoporous silica materials (MCM-41) from coal fly ash. *Journal of Materials Processing Technology*, **2007**, 186, 8-13	5.3	82
351	Enhanced electrochemical performance of cobalt oxide nanocube intercalated reduced graphene oxide for supercapacitor application. *RSC Advances*, **2016**, 6, 34894-34902	3.7	78
350	Consolidation of nanocrystalline hydroxyapatite powder. *Science and Technology of Advanced Materials*, **2007**, 8, 124-130	7.1	76
349	Conducting polymer and its composite materials based electrochemical sensor for Nicotinamide Adenine Dinucleotide (NADH). *Biosensors and Bioelectronics*, **2016**, 79, 763-75	11.8	72
348	Rapid densification of nanocrystalline hydroxyapatite for biomedical applications. *Ceramics International*, **2007**, 33, 1363-1367	5.1	71
347	Sintering properties of hydroxyapatite powders prepared using different methods. *Ceramics International*, **2013**, 39, 111-119	5.1	70
346	Fundamental Concepts of Hydrogels: Synthesis, Properties, and Their Applications. *Polymers*, **2020**, 12,	4.5	70
345	Sintering behaviour of natural porous hydroxyapatite derived from bovine bone. *Ceramics International*, **2015**, 41, 3024-3029	5.1	67
344	Fuzzy logic based model for predicting surface roughness of machined Al□Si□Cu□e die casting alloy using different additives-turning. *Measurement: Journal of the International Measurement Confederation*, **2015**, 61, 150-161	4.6	67
343	Investigation on the effects of addition of SiO2 nanoparticles on ionic conductivity, FTIR, and thermal properties of nanocomposite PMMA□iCF3SO3□iO2. *Ionics*, **2010**, 16, 255-262	2.7	67
342	Advanced composite sandwich structure design for energy absorption applications: Blast protection and crashworthiness. *Composites Part B: Engineering*, **2012**, 43, 2198-2208	10	64
341	Preparation and characterization of lithium ion conducting ionic liquid-based biodegradable corn starch polymer electrolytes. *Journal of Solid State Electrochemistry*, **2012**, 16, 1869-1875	2.6	63
340	Synthesis, characterization, properties of N-succinyl chitosan-g-poly (methacrylic acid) hydrogels and in vitro release of theophylline. *Polymer*, **2016**, 92, 36-49	3.9	61
339	Characterization of conducting cellulose acetate based polymer electrolytes doped with "green" ionic mixture. *Carbohydrate Polymers*, **2013**, 91, 14-21	10.3	60
338	An Approach to Solid-State Electrical Double Layer Capacitors Fabricated with Graphene Oxide-Doped, Ionic Liquid-Based Solid Copolymer Electrolytes. *Materials*, **2016**, 9,	3.5	60

337	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	4.9	59
336	Sintering, microstructure and mechanical properties of commercial Y-TZPs. *Journal of Materials Science*, **1996**, 31, 6055-6062	4.3	58
335	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	3.2	55
334	Direct conversion of eggshell to hydroxyapatite ceramic by a sintering method. *Ceramics International*, **2016**, 42, 7824-7829	5.1	55
333	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	10.3	54
332	A review on laser beam welding of titanium alloys. *International Journal of Advanced Manufacturing Technology*, **2018**, 97, 1071-1098	3.2	53
331	Electrical, structural, and thermal studies of antimony trioxide-doped poly(acrylic acid)-based composite polymer electrolytes. *Ionics*, **2014**, 20, 665-674	2.7	52
330	Composite sandwich structures with nested inserts for energy absorption application. *Composite Structures*, **2012**, 94, 904-916	5.3	52
329	Non-hydrothermal synthesis of mesoporous materials using sodium silicate from coal fly ash. *Materials Chemistry and Physics*, **2007**, 101, 344-351	4.4	52
328	Electrocoagulation treatment of raw landfill leachate using iron-based electrodes: Effects of process parameters and optimization. *Journal of Environmental Management*, **2017**, 204, 75-81	7.9	51
327	Characterization of biogenic hydroxyapatite derived from animal bones for biomedical applications. *Ceramics International*, **2018**, 44, 10525-10530	5.1	50
326	Conductivity, dielectric behaviour and thermal stability studies of lithium ion dissociation in poly(methyl methacrylate)-based gel polymer electrolytes. *Ionics*, **2009**, 15, 249-254	2.7	50
325	Electric double layer capacitor based on activated carbon electrode and biodegradable composite polymer electrolyte. *Ionics*, **2014**, 20, 251-258	2.7	48
324	Electric double-layer capacitors with corn starch-based biopolymer electrolytes incorporating silica as filler. *Ionics*, **2015**, 21, 2061-2068	2.7	47
323	Comparing Triflate and Hexafluorophosphate Anions of Ionic Liquids in Polymer Electrolytes for Supercapacitor Applications. *Materials*, **2014**, 7, 4019-4033	3.5	47
322	Microwave pyrolysis of oil palm fiber (OPF) for hydrogen production: Parametric investigation. *Energy Conversion and Management*, **2016**, 115, 232-243	10.6	45
321	Nanocrystalline forsterite for biomedical applications: synthesis, microstructure and mechanical properties. *Journal of the Mechanical Behavior of Biomedical Materials*, **2013**, 25, 63-9	4.1	45
320	Influence of a nonionic surfactant on curcumin delivery of nanocellulose reinforced chitosan hydrogel. *International Journal of Biological Macromolecules*, **2018**, 118, 1055-1064	7.9	45

319	Effects of silicate and carbonate substitution on the properties of hydroxyapatite prepared by aqueous co-precipitation method. *Materials and Design*, **2015**, 87, 788-796	8.1	44
318	pH responsive N-succinyl chitosan/Poly (acrylamide-co-acrylic acid) hydrogels and in vitro release of 5-fluorouracil. *PLoS ONE*, **2017**, 12, e0179250	3.7	44
317	Impact of low viscosity ionic liquid on PMMA-PVC-LiTFSI polymer electrolytes based on AC -impedance, dielectric behavior, and HATR-FTIR characteristics. *Journal of Materials Research*, **2012**, 27, 2996-3004	2.5	44
316	An enhanced performance of hybrid supercapacitor based on polyaniline-manganese phosphate binary composite. *Journal of Solid State Electrochemistry*, **2017**, 21, 3205-3213	2.6	43
315	Novel poly(vinylidene fluoride-co-hexafluoro propylene)/polyethylene oxide based gel polymer electrolyte containing fumed silica (SiO 2) nanofiller for high performance dye-sensitized solar cell. *Electrochimica Acta*, **2016**, 220, 573-580	6.7	42
314	Effects of manganese doping on properties of sol□gel derived biphasic calcium phosphate ceramics. *Ceramics International*, **2011**, 37, 3703-3715	5.1	41
313	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	6.7	40
312	Investigation on structural and electrochemical properties of binder free nanostructured nickel oxide thin film. *Materials Letters*, **2015**, 161, 694-697	3.3	39
311	The effect of copper oxide on sintering, microstructure, mechanical properties and hydrothermal ageing of coated 2.5Y-TZP ceramics. *Journal of Materials Science*, **1999**, 34, 5457-5467	4.3	39
310	Characteristics and properties of hydoxyapatite derived by sol□gel and wet chemical precipitation methods. *Ceramics International*, **2015**, 41, 10434-10441	5.1	38
309	Studies on ionic liquid-based corn starch biopolymer electrolytes coupling with high ionic transport number. *Cellulose*, **2013**, 20, 3227-3237	5.5	38
308	Impedance and FTIR studies on plasticized PMMA□iN(CF3SO2)2 nanocomposite polymer electrolytes. *Ionics*, **2010**, 16, 465-473	2.7	38
307	Curcumin/Tween 20-incorporated cellulose nanoparticles with enhanced curcumin solubility for nano-drug delivery: characterization and in vitro evaluation. *Cellulose*, **2019**, 26, 5467-5481	5.5	37
306	Effect of manganese oxide on the sintered properties and low temperature degradation of Y-TZP ceramics. *Ceramics International*, **2008**, 34, 1603-1608	5.1	37
305	Poly(Acrylic acid)?Based Hybrid Inorganic?Organic Electrolytes Membrane for Electrical Double Layer Capacitors Application. *Polymers*, **2016**, 8,	4.5	37
304	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	8.9	36
303	N-succinyl chitosan preparation, characterization, properties and biomedical applications: a state of the art review. *Reviews in Chemical Engineering*, **2015**, 31,	5	36
302	A review on resistance spot welding of magnesium alloys. *International Journal of Advanced Manufacturing Technology*, **2016**, 86, 1805-1825	3.2	36

301	Sintering behavior of hydroxyapatite prepared from different routes. *Materials & Design*, **2012**, 34, 148-154		36
300	The effect of manganese oxide on the sinterability of hydroxyapatite. *Science and Technology of Advanced Materials*, **2007**, 8, 257-263	7.1	36
299	Investigation on the effect of nanosilica towards corn starch□thium perchlorate-based polymer electrolytes. *Journal of Solid State Electrochemistry*, **2012**, 16, 3165-3170	2.6	35
298	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	2.7	34
297	Effect of multi-ions doping on the properties of carbonated hydroxyapatite bioceramic. *Ceramics International*, **2019**, 45, 3473-3477	5.1	34
296	A review on laser beam welding of copper alloys. *International Journal of Advanced Manufacturing Technology*, **2018**, 96, 475-490	3.2	33
295	A review on the hydrothermal ageing behaviour of Y-TZP ceramics. *Ceramics International*, **2018**, 44, 20620-20634	3.1	33
294	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	3.6	33
293	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	5.7	33
292	Sintering and mechanical properties of MgO-doped nanocrystalline hydroxyapatite. *Ceramics International*, **2013**, 39, 8979-8983	5.1	32
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290	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	5.3	31
289	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	5.8	30
288	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	1.3	30
287	Formulation and characterization of hybrid polymeric/ZnO nanocomposite coatings with remarkable anti-corrosion and hydrophobic characteristics **2016**, 13, 921-930		30
286	Effect of different imidazolium-based ionic liquids on gel polymer electrolytes for dye-sensitized solar cells. *Ionics*, **2019**, 25, 2427-2435	2.7	29
285	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	2.7	29
284	Rheological studies of PMMA-PVC based polymer blend electrolytes with LiTFSI as doping salt. *PLoS ONE*, **2014**, 9, e102815	3.7	29

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282	Ionic liquid enhanced magnesium-based polymer electrolytes for electrical double-layer capacitors. *Ionics*, **2016**, 22, 919-925	2.7	27
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280	Investigating the Machinability of Al□Si□Cu cast alloy containing bismuth and antimony using coated carbide insert. *Measurement: Journal of the International Measurement Confederation*, **2015**, 62, 170-178	4.6	26
279	FTIR spectra of plasticized high molecular weight PVC□LiCF3SO3 electrolytes. *Ionics*, **2009**, 15, 413-420	2.7	26
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277	Nonsurfactant route of fatty alcohols decomposition for templating of mesoporous silica. *Microporous and Mesoporous Materials*, **2008**, 112, 243-253	5.3	24
276	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	6.7	23
275	Evolution of sustainability in global green building rating tools. *Journal of Cleaner Production*, **2020**, 259, 120912	10.3	23
274	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	3.5	23
273	Oxide scale growth and presumed exfoliation in a 700□C or higher steam condition: A simulation study for future operations of ultra-supercritical power plants. *Journal of Supercritical Fluids*, **2014**, 92, 215-222	4.2	23
272	Densification behaviour and properties of manganese oxide doped Y-TZP ceramics. *Ceramics International*, **2011**, 37, 3583-3590	5.1	23
271	The influence of Ca/P ratio on the properties of hydroxyapatite bioceramics **2007**, 6423, 855		23
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269	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	2.1	22
268	Finite element study of functionally graded porous femoral stems incorporating body-centered cubic structure. *Artificial Organs*, **2019**, 43, E152-E164	2.6	22
267	Sintering behaviour and properties of graphene oxide-doped Y-TZP ceramics. *Ceramics International*, **2016**, 42, 17620-17625	5.1	22
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264	Degradation of ultra-high molecular weight poly(methyl methacrylate-co-butyl acrylate-co-acrylic acid) under ultra violet irradiation. *RSC Advances*, **2017**, 7, 112-120	3.7	21
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257	Studies on biodegradable polymer electrolyte rice starch (RS) complexed with lithium iodide. *Ionics*, **2014**, 20, 691-695	2.7	20
256	Effect of dibutyl phthalate as plasticizer on high-molecular weight poly(vinyl chloride)–lithium tetraborate-based solid polymer electrolytes. *Ionics*, **2011**, 17, 705-713	2.7	20
255	Effects of ionic liquid on the hydroxylpropylmethyl cellulose (HPMC) solid polymer electrolyte. *Ionics*, **2016**, 22, 2421-2430	2.7	20
254	Quasi-solid-state agar-based polymer electrolytes for dye-sensitized solar cell applications using imidazolium-based ionic liquid. *Ionics*, **2017**, 23, 1585-1590	2.7	19
253	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	4.6	19
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251	Preparation and characterization of plasticized high molecular weight PVC-based polymer electrolytes. *Sadhana - Academy Proceedings in Engineering Sciences*, **2010**, 35, 87-95	1	19
250	Ionic conductivity, dielectric behavior, and HATR-FTIR analysis onto poly(methyl methacrylate)–poly(vinyl chloride) binary solid polymer blend electrolytes. *Journal of Applied Polymer Science*, **2013**, 127, 2380-2388	2.9	18
249	A study incorporating nano-sized silica into PVC-blend-based polymer electrolytes for lithium batteries. *Journal of Materials Science*, **2009**, 44, 6404-6407	4.3	18
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245	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	4.9	18
244	Exploration on polypropylene carbonate polymer for gel polymer electrolyte preparation and dye-sensitized solar cell application. *Journal of Applied Polymer Science*, **2017**, 134, 45091	2.9	17
243	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	3.5	17
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240	Environmental degradation of CuO-doped Y-TZP ceramics. *Ceramics International*, **2001**, 27, 705-711	5.1	17
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235	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	4.5	16
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233	Electrical, dielectric and electrochemical characterization of novel poly(acrylic acid)-based polymer electrolytes complexed with lithium tetrafluoroborate. *Chemical Physics Letters*, **2018**, 692, 19-27	2.5	16
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229	Poly(vinyl alcohol)-chitin composites reinforced by oil palm empty fruit bunch fiber-derived nanocellulose. *International Journal of Polymer Analysis and Characterization*, **2017**, 22, 294-304	1.7	14
228	Effect of two-step sintering on the hydrothermal ageing resistance of tetragonal zirconia polycrystals. *Ceramics International*, **2017**, 43, 7594-7599	5.1	14
227	The Effects of Calcium-to-Phosphorus Ratio on the Densification and Mechanical Properties of Hydroxyapatite Ceramic. *International Journal of Applied Ceramic Technology*, **2015**, 12, 223-227	2	14
226	Effect of zinc ions on the structural characteristics of hydroxyapatite bioceramics. *Ceramics International*, **2020**, 46, 13945-13952	5.1	14
225	Comparative study on the corrosion and wear behavior of plasma-sprayed vs. high velocity oxygen fuel-sprayed Al8Si20BN ceramic coatings. *Ceramics International*, **2018**, 44, 12180-12193	5.1	14
224	Preparation and performance analysis of barium titanate incorporated in corn starch-based polymer electrolytes for electric double layer capacitor application. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	14
223	Synthesis and characterization of silica nanospheres using nonsurfactant template. *Ceramics International*, **2013**, 39, 931-940	5.1	14
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218	Polyacrylonitrile–poly(1-vinyl pyrrolidone-co-vinyl acetate) blend based gel polymer electrolytes incorporated with sodium iodide salt for dye-sensitized solar cell applications. *Journal of Applied Polymer Science*, **2019**, 136, 47810	2.9	13
217	Electrical, thermal, and structural studies on highly conducting additive-free biopolymer electrolytes for electric double-layer capacitor application. *Ionics*, **2019**, 25, 4861-4874	2.7	13
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