ChiamWen Liew

List of Publications by Citations

36 papers	1,677 citations	23 h-index	36 g-index
36 ext. papers	1,942 ext. citations	3.7 avg, IF	5.21 L-index

#	Paper	IF	Citations
36	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
35	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
34	Evaluation and investigation on the effect of ionic liquid onto PMMA-PVC gel polymer blend electrolytes. *Journal of Non-Crystalline Solids*, **2011**, 357, 2132-2138	3.9	101
33	Capacitive behavior studies on electrical double layer capacitor using poly (vinyl alcohol)–lithium perchlorate based polymer electrolyte incorporated with TiO2. *Materials Chemistry and Physics*, **2014**, 143, 661-667	4.4	97
32	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
31	Electrical, structural, thermal and electrochemical properties of corn starch-based biopolymer electrolytes. *Carbohydrate Polymers*, **2015**, 124, 222-8	10.3	87
30	Effect of PVC on ionic conductivity, crystallographic structural, morphological and thermal characterizations in PMMA–PVC blend-based polymer electrolytes. *Thermochimica Acta*, **2010**, 511, 140-146	2.9	81
29	Enhanced capacitance of EDLCs (electrical double layer capacitors) based on ionic liquid-added polymer electrolytes. *Energy*, **2016**, 109, 546-556	7.9	77
28	A novel approach on ionic liquid-based poly(vinyl alcohol) proton conductive polymer electrolytes for fuel cell applications. *International Journal of Hydrogen Energy*, **2014**, 39, 2917-2928	6.7	77
27	Investigation on the effects of addition of SiO2 nanoparticles on ionic conductivity, FTIR, and thermal properties of nanocomposite PMMA–LiCF3SO3–SiO2. *Ionics*, **2010**, 16, 255-262	2.7	67
26	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
25	Electrical, structural, and thermal studies of antimony trioxide-doped poly(acrylic acid)-based composite polymer electrolytes. *Ionics*, **2014**, 20, 665-674	2.7	52
24	Electric double layer capacitor based on activated carbon electrode and biodegradable composite polymer electrolyte. *Ionics*, **2014**, 20, 251-258	2.7	48
23	Electric double-layer capacitors with corn starch-based biopolymer electrolytes incorporating silica as filler. *Ionics*, **2015**, 21, 2061-2068	2.7	47
22	Comparing Triflate and Hexafluorophosphate Anions of Ionic Liquids in Polymer Electrolytes for Supercapacitor Applications. *Materials*, **2014**, 7, 4019-4033	3.5	47
21	Enhancing the performance of green solid-state electric double-layer capacitor incorporated with fumed silica nanoparticles. *Journal of Physics and Chemistry of Solids*, **2018**, 117, 194-203	3.9	44
20	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

19	Studies on ionic liquid-based corn starch biopolymer electrolytes coupling with high ionic transport number. *Cellulose*, **2013**, 20, 3227-3237	5.5	38
18	Poly(ε-caprolactone)-based polymer electrolyte for electrical double-layer capacitors. *High Performance Polymers*, **2014**, 26, 637-640	1.6	35
17	Exploration on nano-composite fumed silica-based composite polymer electrolytes with doping of ionic liquid. *Journal of Non-Crystalline Solids*, **2012**, 358, 931-940	3.9	33
16	Solid polymer electrolytes based on poly(vinyl alcohol) incorporated with sodium salt and ionic liquid for electrical double layer capacitor. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2019**, 251, 114468	3.1	33
15	Rheological studies of PMMA-PVC based polymer blend electrolytes with LiTFSI as doping salt. *PLoS ONE*, **2014**, 9, e102815	3.7	29
14	Ionic liquid enhanced magnesium-based polymer electrolytes for electrical double-layer capacitors. *Ionics*, **2016**, 22, 919-925	2.7	27
13	Investigation of ionic liquid-based poly(vinyl alcohol) proton conductor for electrochemical double-layer capacitor. *High Performance Polymers*, **2014**, 26, 632-636	1.6	20
12	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
11	Effects of ionic liquid on the hydroxylpropylmethyl cellulose (HPMC) solid polymer electrolyte. *Ionics*, **2016**, 22, 2421-2430	2.7	20
10	Effect of halide anions in ionic liquid added poly(vinyl alcohol)-based ion conductors for electrical double layer capacitors. *Journal of Non-Crystalline Solids*, **2017**, 458, 97-106	3.9	19
9	Electrical and structural studies of ionic liquid-based poly(vinyl alcohol) proton conductors. *Journal of Non-Crystalline Solids*, **2015**, 425, 163-172	3.9	18
8	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
7	Rheological characterizations of ionic liquid-based gel polymer electrolytes and fumed silica-based composite polymer electrolytes. *Ceramics International*, **2012**, 38, 3411-3417	5.1	15
6	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
5	Development and investigation on PMMA–PVC blend-based solid polymer electrolytes with LiTFSI as dopant salt. *Polymer Bulletin*, **2013**, 70, 1277-1288	2.4	14
4	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
3	Tailor-made fumed silica-based nano-composite polymer electrolytes consisting of BmImTFSI ionic liquid. *Iranian Polymer Journal (English Edition)*, **2012**, 21, 273-281	2.3	10
2	Effect of ionic liquid 1-butyl-3-methylimidazolium bromide on ionic conductivity of poly(ethyl methacrylate) based polymer electrolytes. *Materials Express*, **2016**, 6, 252-258	1.3	8

1	Development of poly(vinyl alcohol) (PVA)-based sodium ion conductors for electric double-layer capacitors application. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2021**, 263, 114804	3.1	7