Gaind P Pandey

List of Publications by Year
in descending order

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51 papers	3,211 citations	201575 27 h-index	243529 44 g-index
51 all docs	51 docs citations	51 times ranked	3789 citing authors

#	Article	IF	Citations
1	Solid polymer electrolytes: materials designing and all-solid-state battery applications: an overview. Journal Physics D: Applied Physics, 2008, 41, 223001.	1.3	840
2	Experimental investigations of an ionic-liquid-based, magnesium ion conducting, polymer gel electrolyte. Journal of Power Sources, 2009, 187, 627-634.	4.0	166
3	All-solid-state supercapacitors with poly(3,4-ethylenedioxythiophene)-coated carbon fiber paper electrodes and ionic liquid gel polymer electrolyte. Journal of Power Sources, 2014, 245, 857-865.	4.0	148
4	Gel Polymer Electrolyte Based Electrical Double Layer Capacitors: Comparative Study with Multiwalled Carbon Nanotubes and Activated Carbon Electrodes. Journal of Physical Chemistry C, 2012, 116, 26118-26127.	1.5	140
5	Ionic liquid 1-ethyl-3-methylimidazolium tetracyanoborate-based gel polymer electrolyte for electrochemical capacitors. Journal of Materials Chemistry A, 2013, 1, 3372.	5.2	138
6	Ionic liquid mediated magnesium ion conduction in poly(ethylene oxide) based polymer electrolyte. Electrochimica Acta, 2011, 56, 3864-3873.	2.6	134
7	Ionic liquid incorporated PEO based polymer electrolyte for electrical double layer capacitors: A comparative study with lithium and magnesium systems. Solid State Ionics, 2011, 190, 93-98.	1.3	129
8	Lithium ion transport and ionâ€“polymer interaction in PEO based polymer electrolyte plasticized with ionic liquid. Solid State Ionics, 2011, 201, 73-80.	1.3	128
9	Thermostable gel polymer electrolyte based on succinonitrile and ionic liquid for high-performance solid-state supercapacitors. Journal of Power Sources, 2016, 328, 510-519.	4.0	123
10	Magnesium ion-conducting gel polymer electrolytes dispersed with nanosized magnesium oxide. Journal of Power Sources, 2009, 190, 563-572.	4.0	115
11	Performance Studies of Activated Charcoal Based Electrical Double Layer Capacitors with Ionic Liquid Gel Polymer Electrolytes. Energy & Fuels, 2010, 24, 6644-6652.	2.5	91
12	Performance of solid-state supercapacitors with ionic liquid 1-ethyl-3-methylimidazolium tris(pentafluoroethyl) trifluorophosphate based gel polymer electrolyte and modified MWCNT electrodes. Electrochimica Acta, 2013, 105, 333-341.	2.6	90
13	Hot-press synthesized polyethylene oxide based proton conducting nanocomposite polymer electrolyte dispersed with SiO2 nanoparticles. Solid State Ionics, 2008, 179, 543-549.	1.3	84
14	Multiwalled Carbon Nanotube Electrodes for Electrical Double Layer Capacitors with Ionic Liquid Based Gel Polymer Electrolytes. Journal of the Electrochemical Society, 2010, 157, A105.	1.3	79
15	Magnesium ion-conducting gel polymer electrolytes dispersed with fumed silica for rechargeable magnesium battery application. Journal of Solid State Electrochemistry, 2011, 15, 2253-2264.	1.2	76
16	Mesoporous Hybrids of Reduced Graphene Oxide and Vanadium Pentoxide for Enhanced Performance in Lithium-Ion Batteries and Electrochemical Capacitors. ACS Applied Materials & Interfaces, 2016, 8, 9200-9210.	4.0	70
17	Solid-state supercapacitors with ionic liquid based gel polymer electrolyte: Effect of lithium salt addition. Journal of Power Sources, 2013, 243, 211-218.	4.0	69
18	Performance studies on composite gel polymer electrolytes for rechargeable magnesium battery application. Journal of Physics and Chemistry of Solids, 2011, 72, 1408-1413.	1.9	53

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19	Solid-State Supercapacitors Based on Pulse Polymerized Poly(3,4-ethylenedioxythiophene) Electrodes and Ionic Liquid Gel Polymer Electrolyte. Journal of the Electrochemical Society, 2012, 159, A1664-A1671.	1.3	53
20	Electrochemical cell performance studies on all-solid-state battery using nano-composite polymer electrolyte membrane. Ionics, 2007, 13, 295-298.	1.2	51
21	Synthesis and characterization of pulsed polymerized poly(3,4-ethylenedioxythiophene) electrodes for high-performance electrochemical capacitors. Electrochimica Acta, 2013, 87, 158-168.	2.6	48
22	Chemical vapor-deposited carbon nanofibers on carbon fabric for supercapacitor electrode applications. Nanoscale Research Letters, 2012, 7, 651.	3.1	45
23	Advanced Physical Chemistry of Carbon Nanotubes. Annual Review of Physical Chemistry, 2015, 66, 331-356.	4.8	42
24	Higher-power supercapacitor electrodes based on mesoporous manganese oxide coating on vertically aligned carbon nanofibers. Nanoscale, 2015, 7, 8485-8494.	2.8	38
25	Effective Infiltration of Gel Polymer Electrolyte into Silicon-Coated Vertically Aligned Carbon Nanofibers as Anodes for Solid-State Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 20909-20918.	4.0	37
26	Anomalous capacity increase at high-rates in lithium-ion battery anodes based on silicon-coated vertically aligned carbon nanofibers. Journal of Power Sources, 2015, 276, 73-79.	4.0	30
27	Studies on electrical double layer capacitor with a low-viscosity ionic liquid 1-ethyl-3-methylimidazolium tetracyanoborate as electrolyte. Bulletin of Materials Science, 2013, 36, 729-733.	0.8	29
28	Highly Stable Three Lithium Insertion in Thin V₂O₅ Shells on Vertically Aligned Carbon Nanofiber Arrays for Ultrahighâ€Capacity Lithium Ion Battery Cathodes. Advanced Materials Interfaces, 2016, 3, 1600824.	1.9	28
29	Experimental investigations on a proton conducting nanocomposite polymer electrolyte. Journal Physics D: Applied Physics, 2008, 41, 055409.	1.3	26
30	A Novel High-Power Battery-Pseudocapacitor Hybrid Based on Fast Lithium Reactions in Silicon Anode and Titanium Dioxide Cathode Coated on Vertically Aligned Carbon Nanofibers. Electrochimica Acta, 2015, 178, 797-805.	2.6	17
31	Self-Organization of Ions at the Interface between Graphene and Ionic Liquid DEME-TFSI. ACS Applied Materials & Interfaces, 2017, 9, 35437-35443.	4.0	17
32	Graphene-Based All-Solid-State Supercapacitor with Ionic Liquid Gel Polymer Electrolyte. Materials Research Society Symposia Proceedings, 2012, 1440, 25.	0.1	16
33	Electrical and electrochemical properties of magnesium ion conducting composite gel polymer electrolytes. Journal Physics D: Applied Physics, 2010, 43, 255501.	1.3	12
34	Toward highly stable solid-state unconventional thin-film battery-supercapacitor hybrid devices: Interfacing vertical core-shell array electrodes with a gel polymer electrolyte. Journal of Power Sources, 2017, 342, 1006-1016.	4.0	11
35	Disordered Bilayered V₂O₅â€‰â‹…â€‰nH₂O Shells Deposited on Vertically Aligned Carbon Nanofiber Arrays as Stable Highâ€Capacity Sodium Ion Battery Cathodesâ€‰â‹…â€¦ Energy Technology, 2018, 6, 2438-2449.	1.8	10
36	Transport properties and battery discharge characteristics of the Ag+ ion conducting composite electrolyte system (1â^'x)[0.75AgI: 0.25AgCl]: xFe2O3. Ionics, 2004, 10, 113-117.	1.2	9

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37	Effects of the catalyst and substrate thickness on the carbon nanotubes/nanofibers as supercapacitor electrodes. Physica Scripta, 2012, 86, 065603.	1.2	4
38	Probing the relationship of cations-graphene interaction strength with self-organization behaviors of the anions at the interface between graphene and ionic liquids. Applied Surface Science, 2019, 479, 576-581.	3.1	3
39	Poly(3,4-Ethylenedioxythiophene)-Graphene Composite Electrodes For Solid-State Supercapacitors with Ionic Liquid Gel Polymer Electrolyte. ECS Transactions, 2013, 45, 173-181.	0.3	2
40	Facile Synthesis of Uniform Carbon Coated Li2S/rGO cathode for High-Performance Lithium-Sulfur Batteries. MRS Advances, 2018, 3, 3501-3506.	0.5	2
41	Pulse Polymerized Poly(3,4-ethylenedioxythiophene) Electrodes For Solid-State Supercapacitors with Ionic Liquid Gel Polymer Electrolyte. Materials Research Society Symposia Proceedings, 2012, 1448, 7.	0.1	1
42	High-rate lithium-ion battery anodes based on silicon-coated vertically aligned carbon nanofibers. , 2014, , .		1
43	Lithium Ion Batteries: Highly Stable Three Lithium Insertion in Thin V2 O5 Shells on Vertically Aligned Carbon Nanofiber Arrays for Ultrahigh-Capacity Lithium Ion Battery Cathodes (Adv. Mater. Interfaces) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	1
44	Nanostructured V2O5/Nitrogen-doped Graphene Hybrids for High Rate Lithium Storage. MRS Advances, 2018, 3, 3495-3500.	0.5	1
45	High Performance Tin-coated Vertically Aligned Carbon Nanofiber Array Anode for Lithium-ion Batteries. MRS Advances, 2018, 3, 3519-3524.	0.5	1
46	Poly(propylene carbonate) Interpenetrating Cross-Linked Poly(ethylene glycol) Based Polymer Electrolyte for Solid-State Lithium Batteries. ECS Transactions, 2018, 85, 53-59.	0.3	1
47	CNFs/S1-xSex Composites as Promising Cathode Materials for High-Energy Lithium-Sulfur Batteries. MRS Advances, 2019, 4, 821-828.	0.5	1
48	Architectural Design for Flexible Solid-State Batteries. ACS Symposium Series, 0, , 289-309.	0.5	1
49	Mixtures of Ionic Liquid and Organic Electrolyte with Improved Safety and Electrochemical Performance with Nanostructured Silicon-Anode for Li-Ion Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
50	Effect of Titanium Disulfide Cathode Additive in the Performance of Li-S Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
51	Ceramic-Doped in Cross-Linked Solid Polymer Electrolyte for Solid-State Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 250-250.	0.0	0