

Parthiban Pazhamalai

List of Publications by Year in descending order

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55
papers

3,411
citations

126907

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155660

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57
docs citations

57
times ranked

3560
citing authors

#	ARTICLE	IF	CITATIONS
1	MoS ₂ quantum sheets-PVDF nanocomposite film based self-poled piezoelectric nanogenerators and photovoltaically self-charging power cell. <i>Nano Energy</i> , 2022, 93, 106869.	16.0	21
2	Ferroelectric-semiconductor BaTiO ₃ –Ag ₂ O nanohybrid as an efficient piezo-photocatalytic material. <i>Chemosphere</i> , 2022, 292, 133398.	8.2	12
3	Two Faces Under a Hood: Unravelling the Energy Harnessing and Storage Properties of 1T-MoS ₂ Quantum Sheets for Next-Generation Stand-Alone Energy Systems. <i>ACS Nano</i> , 2022, 16, 3723-3734.	14.6	27
4	Decoupling mechano- and electrochemical gating: a direct visualization for piezo-ionic propelled proton tunneling in self-charging supercapacitors. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7818-7829.	10.3	20
5	CuMoO ₄ nanostructures: A novel bifunctional material for supercapacitor and sensor applications. <i>Journal of Energy Storage</i> , 2022, 52, 104784.	8.1	26
6	Recent trends, challenges, and perspectives in piezoelectric-driven self-charging electrochemical supercapacitors. , 2022, 4, 833-855.		16
7	Monolithic integration of MoS ₂ quantum sheets on solid electrolyte for self-charging supercapacitor power cell governed by piezo-ionic effect. <i>Sustainable Materials and Technologies</i> , 2022, , e00459.	3.3	5
8	Topochemically synthesized MoS ₂ nanosheets: A high performance electrode for wide-temperature tolerant aqueous supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 714-722.	9.4	45
9	Two-Dimensional Siloxene–Graphene Heterostructure-Based High-Performance Supercapacitor for Capturing Regenerative Braking Energy in Electric Vehicles. <i>Advanced Functional Materials</i> , 2021, 31, 2008422.	14.9	121
10	Ultrasound irradiation mediated preparation of antimony sulfide (SbS ₂) nanorods as a high-capacity electrode for electrochemical supercapacitors. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2303-2312.	5.9	13
11	Proton conducting solid electrolyte-piezoelectric PVDF hybrids: Novel bifunctional separator for self-charging supercapacitor power cell. <i>Nano Energy</i> , 2021, 83, 105753.	16.0	43
12	Electrospun Polymer-Derived Carbyne Supercapacitor for Alternating Current Line Filtering. <i>Small</i> , 2021, 17, e2102971.	10.0	30
13	Hydrothermally synthesized chalcopyrite platelets as an electrode material for symmetric supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1492-1502.	6.0	47
14	Carbothermal conversion of siloxene sheets into silicon-oxy-carbide lamellae for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 387, 123886.	12.7	61
15	Exploring the bifunctional properties of paper-like carbyne-enriched carbon for maintenance-free self-powered systems. <i>Materials Advances</i> , 2020, 1, 1644-1652.	5.4	9
16	Antimonene dendritic nanostructures: Dual-functional material for high-performance energy storage and harvesting devices. <i>Nano Energy</i> , 2020, 77, 105248.	16.0	86
17	Solar driven renewable energy storage using rhenium disulfide nanostructure based rechargeable supercapacitors. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3290-3301.	5.9	17
18	Probing the energy conversion process in piezoelectric-driven electrochemical self-charging supercapacitor power cell using piezoelectrochemical spectroscopy. <i>Nature Communications</i> , 2020, 11, 2351.	12.8	189

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19	Exceptional interfacial electrochemistry of few-layered 2D MoS ₂ quantum sheets for high performance flexible solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13121-13131.	10.3	36
20	Free-Standing PVDF/Reduced Graphene Oxide Film for All-Solid-State Flexible Supercapacitors towards Self-Powered Systems. <i>Micromachines</i> , 2020, 11, 198.	2.9	22
21	High energy symmetric supercapacitor based on mechanically delaminated few-layered MoS ₂ sheets in organic electrolyte. <i>Journal of Alloys and Compounds</i> , 2019, 771, 803-809.	5.5	74
22	Carbyne-enriched carbon anchored on nickel foam: A novel binder-free electrode for supercapacitor application. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 411-419.	9.4	11
23	A highly efficient 2D siloxene coated Ni foam catalyst for methane dry reforming and an effective approach to recycle the spent catalyst for energy storage applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18950-18958.	10.3	48
24	Supercapacitive properties of amorphous MoS ₃ and crystalline MoS ₂ nanosheets in an organic electrolyte. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2387-2395.	6.0	24
25	Hierarchically Porous Nanostructured Nickel Phosphide with Carbon Particles Embedded by Dielectric Barrier Discharge Plasma Deposition as a Binder-Free Electrode for Hybrid Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14805-14814.	6.7	24
26	High performance self-charging supercapacitors using a porous PVDF-ionic liquid electrolyte sandwiched between two-dimensional graphene electrodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21693-21703.	10.3	80
27	Copper molybdenum sulfide nanoparticles embedded on graphene sheets as advanced electrodes for wide temperature-tolerant supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1775-1784.	6.0	29
28	Two dimensional famatinite sheets decorated on reduced graphene oxide: A novel electrode for high performance supercapacitors. <i>Journal of Power Sources</i> , 2019, 433, 126648.	7.8	38
29	Mechanical energy harvesting properties of free-standing carbyne enriched carbon film derived from dehydrohalogenation of polyvinylidene fluoride. <i>Nano Energy</i> , 2019, 59, 453-463.	16.0	24
30	Understanding the Thermal Treatment Effect of Two-Dimensional Siloxene Sheets and the Origin of Superior Electrochemical Energy Storage Performances. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 624-633.	8.0	74
31	Copper tungsten sulfide anchored on Ni-foam as a high-performance binder free negative electrode for asymmetric supercapacitor. <i>Chemical Engineering Journal</i> , 2019, 359, 409-418.	12.7	114
32	Two-dimensional molybdenum diselenide nanosheets as a novel electrode material for symmetric supercapacitors using organic electrolyte. <i>Electrochimica Acta</i> , 2019, 295, 591-598.	5.2	54
33	Blue TiO ₂ nanosheets as a high-performance electrode material for supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 62-70.	9.4	82
34	Nanostructured ternary metal chalcogenide-based binder-free electrodes for high energy density asymmetric supercapacitors. <i>Nano Energy</i> , 2019, 57, 307-316.	16.0	147
35	A High Efficacy Self-Charging MoSe ₂ Solid-State Supercapacitor Using Electrospun Nanofibrous Piezoelectric Separator with Ionogel Electrolyte. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800055.	3.7	82
36	Mechanochemical Reinforcement of Graphene Sheets into Alkyd Resin Matrix for the Development of Electrically Conductive Paints. <i>ChemNanoMat</i> , 2018, 4, 568-574.	2.8	12

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37	Hydrothermally prepared MnSe nanoparticles as a new pseudocapacitive electrode material for supercapacitor. <i>Electrochimica Acta</i> , 2018, 268, 403-410.	5.2	84
38	Layered farnatinitite nanoplates as an advanced pseudocapacitive electrode material for supercapacitor applications. <i>Electrochimica Acta</i> , 2018, 275, 110-118.	5.2	30
39	Two-dimensional siloxene nanosheets: novel high-performance supercapacitor electrode materials. <i>Energy and Environmental Science</i> , 2018, 11, 1595-1602.	30.8	232
40	Electrodeposited molybdenum selenide sheets on nickel foam as a binder-free electrode for supercapacitor application. <i>Electrochimica Acta</i> , 2018, 265, 514-522.	5.2	77
41	Fabrication of high energy Li-ion hybrid capacitor using manganese hexacyanoferrate nanocubes and graphene electrodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 64, 134-142.	5.8	29
42	Supercapacitive properties of activated carbon electrode using ammonium based proton conducting electrolytes. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 1667-1674.	7.1	24
43	Copper molybdenum sulfide: A novel pseudocapacitive electrode material for electrochemical energy storage device. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12222-12232.	7.1	66
44	High-energy aqueous Li-ion hybrid capacitor based on metal-organic-framework-mimicking insertion-type copper hexacyanoferrate and capacitive-type graphitic carbon electrodes. <i>Journal of Alloys and Compounds</i> , 2018, 765, 1041-1048.	5.5	38
45	Copper molybdenum sulfide anchored nickel foam: a high performance, binder-free, negative electrode for supercapacitors. <i>Nanoscale</i> , 2018, 10, 13883-13888.	5.6	59
46	Titanium carbide sheet based high performance wire type solid state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5726-5736.	10.3	140
47	Electrospun Nd^{3+} -doped LiMn_2O_4 Nanofibers as High-Performance Cathode Material for Li-ion Capacitors. <i>ChemElectroChem</i> , 2017, 4, 2059-2067.	3.4	64
48	Ruthenium sulfide nanoparticles as a new pseudocapacitive material for supercapacitor. <i>Electrochimica Acta</i> , 2017, 227, 85-94.	5.2	175
49	A High-Energy Aqueous Sodium-ion Capacitor with Nickel Hexacyanoferrate and Graphene Electrodes. <i>ChemElectroChem</i> , 2017, 4, 3302-3308.	3.4	49
50	Fabrication of High-Performance Aqueous Li-ion Hybrid Capacitor with LiMn_2O_4 and Graphene. <i>ChemElectroChem</i> , 2017, 4, 396-403.	3.4	45
51	Mechanically delaminated few layered MoS_2 nanosheets based high performance wire type solid-state symmetric supercapacitors. <i>Journal of Power Sources</i> , 2016, 321, 112-119.	7.8	182
52	Enhanced electrochemical performances of graphene based solid-state flexible cable type supercapacitor using redox mediated polymer gel electrolyte. <i>Carbon</i> , 2016, 105, 638-648.	10.3	104
53	Hierarchical copper selenide nanoneedles grown on copper foil as a binder free electrode for supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14830-14835.	7.1	89
54	Designing two dimensional nanoarchitected MoS_2 sheets grown on Mo foil as a binder free electrode for supercapacitors. <i>Electrochimica Acta</i> , 2016, 190, 305-312.	5.2	159

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55	Energy Storage Properties of Topochemically Synthesized Blue TiO ₂ Nanostructures in Aqueous and Organic Electrolyte. , 0, , .		0