

Roman D Mysyk

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

3,437
citations

361413
20
h-index

501196
28
g-index

28
all docs

28
docs citations

28
times ranked

5478
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on supercapacitors: Technologies and materials. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 58, 1189-1206.	16.4	2,197
2	Effect of pore texture on performance of activated carbon supercapacitor electrodes derived from olive pits. <i>Electrochimica Acta</i> , 2015, 160, 178-184.	5.2	144
3	Lithium and sodium ion capacitors with high energy and power densities based on carbons from recycled olive pits. <i>Journal of Power Sources</i> , 2017, 359, 17-26.	7.8	133
4	Saturation of subnanometer pores in an electric double-layer capacitor. <i>Electrochemistry Communications</i> , 2009, 11, 554-556.	4.7	107
5	Reduced graphene oxide decorated with SnO ₂ nanoparticles as negative electrode for lithium ion capacitors. <i>Electrochimica Acta</i> , 2018, 284, 542-550.	5.2	73
6	Effect of cation (Li ⁺ , Na ⁺ , K ⁺ , Rb ⁺ , Cs ⁺) in aqueous electrolyte on the electrochemical redox of Prussian blue analogue (PBA) cathodes. <i>Journal of Energy Chemistry</i> , 2020, 40, 31-38.	12.9	69
7	Pseudo-capacitance of nanoporous carbons in pyrrolidinium-based protic ionic liquids. <i>Electrochemistry Communications</i> , 2010, 12, 414-417.	4.7	68
8	Thin films of pure vanadium nitride: Evidence for anomalous non-faradaic capacitance. <i>Journal of Power Sources</i> , 2016, 324, 439-446.	7.8	67
9	Nanoporosity development in the thermal-shock KOH activation of brown coal. <i>Carbon</i> , 2010, 48, 4556-4558.	10.3	61
10	One-pot synthesis of highly activated carbons from melamine and terephthalaldehyde as electrodes for high energy aqueous supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14619-14629.	10.3	58
11	Nanoporous carbons from natural lignin: study of structural and textural properties and application to organic-based supercapacitors. <i>RSC Advances</i> , 2014, 4, 48336-48343.	3.6	50
12	Confinement of Symmetric Tetraalkylammonium Ions in Nanoporous Carbon Electrodes of Electric Double-Layer Capacitors. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13443-13449.	3.1	49
13	Porous Graphene Oxide/Diboronic Acid Materials: Structure and Hydrogen Sorption. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27179-27191.	3.1	49
14	Graphene-based lithium ion capacitor with high gravimetric energy and power densities. <i>Journal of Power Sources</i> , 2017, 363, 422-427.	7.8	49
15	Highly packed graphene/CNT films as electrodes for aqueous supercapacitors with high volumetric performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3667-3673.	10.3	43
16	Microporous carbons finely-tuned by cyclic high-pressure low-temperature oxidation and their use in electrochemical capacitors. <i>Carbon</i> , 2012, 50, 3367-3374.	10.3	32
17	Effect of Mesopore Ordering in Otherwise Similar Micro/Mesoporous Carbons on the High-Rate Performance of Electric Double-Layer Capacitors. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27715-27720.	3.1	28
18	The decisive role of electrolyte concentration in the performance of aqueous chloride-based carbon/carbon supercapacitors with extended voltage window. <i>Electrochimica Acta</i> , 2016, 221, 177-183.	5.2	24

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19	Understanding enhanced charge storage of phosphorus-functionalized graphene in aqueous acidic electrolytes. <i>Electrochimica Acta</i> , 2020, 361, 136985.	5.2	22
20	Outstanding room-temperature capacitance of biomass-derived microporous carbons in ionic liquid electrolyte. <i>Electrochemistry Communications</i> , 2017, 79, 5-8.	4.7	20
21	Theoretical study of stability of graphite intercalation compounds with Brønsted acids. <i>Carbon</i> , 2003, 41, 2757-2760.	10.3	17
22	Investigation of factors affecting crystallization of cyclopentane clathrate hydrate. <i>Journal of Chemical Physics</i> , 2008, 129, 174502.	3.0	16
23	Ball-milling-enhanced capacitive charge storage of activated graphene in aqueous, organic and ionic liquid electrolytes. <i>Electrochimica Acta</i> , 2021, 370, 137738.	5.2	16
24	Relation between texture and high-rate capacitance of oppositely charged microporous carbons from biomass waste in acetonitrile-based supercapacitors. <i>Electrochimica Acta</i> , 2019, 293, 496-503.	5.2	13
25	New graphite nitrate derived intercalation compounds of higher thermal stability. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1127-1131.	4.0	11
26	Robust NiCo ₂ O ₄ /Superactivated Carbon Aqueous Supercapacitor with High Power Density and Stable Cyclability. <i>ChemElectroChem</i> , 2019, 6, 2536-2545.	3.4	11
27	Electrowetting of Ionic Liquid on Graphite: Probing via in Situ Electrochemical X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 2018, 34, 14528-14536.	3.5	6
28	Ion transport from water-in-salt electrolyte through porosity of hierarchical porous carbons unraveled by solid-state NMR. <i>Electrochimica Acta</i> , 2022, 404, 139716.	5.2	4