

Hudson Zanin

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78
papers

1,426
citations

21
h-index

33
g-index

89
ext. papers

1,772
ext. citations

6.2
avg, IF

4.84
L-index

#	Paper	IF	Citations
78	Porous boron-doped diamond/carbon nanotube electrodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 990-5	9.5	117
77	Reviewing the fundamentals of supercapacitors and the difficulties involving the analysis of the electrochemical findings obtained for porous electrode materials. <i>Energy Storage Materials</i> , 2020 , 27, 555-590	19.4	79
76	Diamond-coated black silicon as a promising material for high-surface-area electrochemical electrodes and antibacterial surfaces. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 5737-5746	7.3	73
75	Electrochemical behaviour of vertically aligned carbon nanotubes and graphene oxide nanocomposite as electrode material. <i>Electrochimica Acta</i> , 2014 , 119, 114-119	6.7	66
74	Field emission from hybrid diamond-like carbon and carbon nanotube composite structures. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12238-43	9.5	65
73	Fast preparation of nano-hydroxyapatite/superhydrophilic reduced graphene oxide composites for bioactive applications. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4947-4955	7.3	50
72	Graphene and carbon nanotube nanocomposite for gene transfection. <i>Materials Science and Engineering C</i> , 2014 , 39, 288-98	8.3	46
71	Assisted deposition of nano-hydroxyapatite onto exfoliated carbon nanotube oxide scaffolds. <i>Nanoscale</i> , 2015 , 7, 10218-32	7.7	43
70	Reduced graphene oxide and vertically aligned carbon nanotubes superhydrophilic films for supercapacitors devices. <i>Materials Research Bulletin</i> , 2014 , 49, 487-493	5.1	41
69	Effect of ultrasound irradiation on the production of nHAp/MWCNT nanocomposites. <i>Materials Science and Engineering C</i> , 2013 , 33, 4305-12	8.3	37
68	How to Measure and Calculate Equivalent Series Resistance of Electric Double-Layer Capacitors. <i>Molecules</i> , 2019 , 24,	4.8	34
67	Electrochemical performance of porous diamond-like carbon electrodes for sensing hormones, neurotransmitters, and endocrine disruptors. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21086-92	9.5	32
66	Nickel oxide nanoparticles supported onto oriented multi-walled carbon nanotube as electrodes for electrochemical capacitors. <i>Electrochimica Acta</i> , 2019 , 298, 468-483	6.7	32
65	Absence of mutagenic and recombinagenic activity of multi-walled carbon nanotubes in the Drosophila wing-spot test and Allium cepa test. <i>Ecotoxicology and Environmental Safety</i> , 2014 , 99, 92-7	7	29
64	Differential pulse adsorptive stripping voltammetric determination of nanomolar levels of atorvastatin calcium in pharmaceutical and biological samples using a vertically aligned carbon nanotube/graphene oxide electrode. <i>Analyst, The</i> , 2014 , 139, 2832-41	5	28
63	Promising electrochemical performance of high-surface-area boron-doped diamond/carbon nanotube electroanalytical sensors. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 2403-2409	2.6	25
62	Fast preparation of free-standing nanohydroxyapatite-vertically aligned carbon nanotube scaffolds. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1196-1204	7.3	25

61	Electrochemical determination of rosuvastatin calcium in pharmaceutical and human body fluid samples using a composite of vertically aligned carbon nanotubes and graphene oxide as the electrode material. <i>Sensors and Actuators B: Chemical</i> , 2015 , 218, 51-59	8.5	24
60	Niobium pentoxide nanoparticles @ multi-walled carbon nanotubes and activated carbon composite material as electrodes for electrochemical capacitors. <i>Energy Storage Materials</i> , 2019 , 22, 311-322	19.4	23
59	Functionalized Multiwalled Carbon Nanotube Electrochemical Sensor for Determination of Anticancer Drug Flutamide. <i>Journal of Electronic Materials</i> , 2017 , 46, 5619-5628	1.9	22
58	Effect of Multi-Walled Carbon Nanotubes Incorporation on the Structure, Optical and Electrochemical Properties of Diamond-Like Carbon Thin Films. <i>Journal of the Electrochemical Society</i> , 2014 , 161, H290-H295	3.9	22
57	Multi-walled carbon nanotubes/graphene oxide hybrid and nanohydroxyapatite composite: A novel coating to prevent dentin erosion. <i>Materials Science and Engineering C</i> , 2017 , 79, 199-208	8.3	19
56	Novel electrochemical sensor based on nanodiamonds and manioc starch for detection of diquat in environmental samples. <i>Diamond and Related Materials</i> , 2019 , 98, 107512	3.5	18
55	Direct growth of mesoporous Carbon on aluminum foil for supercapacitors devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 10573-10582	2.1	18
54	Carbon nanoparticles for gene transfection in eukaryotic cell lines. <i>Materials Science and Engineering C</i> , 2014 , 39, 359-70	8.3	18
53	Freestanding Aligned Multi-walled Carbon Nanotubes for Supercapacitor Devices. <i>Journal of Electronic Materials</i> , 2016 , 45, 5781-5788	1.9	18
52	Graphene and carbon nanotube composite enabling a new prospective treatment for trichomoniasis disease. <i>Materials Science and Engineering C</i> , 2014 , 41, 65-9	8.3	17
51	Diamond cylindrical anodes for electrochemical treatment of persistent compounds in aqueous solution. <i>Journal of Applied Electrochemistry</i> , 2013 , 43, 323-330	2.6	17
50	Hydrothermal electrochemical synthesis of nano-hydroxyapatite crystals on superhydrophilic vertically aligned carbon nanotubes. <i>Materials Letters</i> , 2014 , 132, 70-74	3.3	16
49	High surface area diamond-like carbon electrodes grown on vertically aligned carbon nanotubes. <i>Carbon</i> , 2015 , 82, 288-296	10.4	15
48	Simultaneous Voltammetric Determination of Paracetamol, Codeine and Caffeine on Diamond-like Carbon Porous Electrodes. <i>Electroanalysis</i> , 2017 , 29, 907-916	3	15
47	Surface and Electrochemical Properties of Radially Oriented Multiwalled Carbon Nanotubes Grown on Stainless Steel Mesh. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A3684-A3696	3.9	14
46	Core-niobium pentoxide carbon-shell nanoparticles decorating multiwalled carbon nanotubes as electrode for electrochemical capacitors. <i>Journal of Power Sources</i> , 2019 , 434, 226737	8.9	13
45	Exploring doped or vacancy-modified graphene-based electrodes for applications in asymmetric supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 3906-3913	3.6	13
44	Evaluation of a novel composite based on functionalized multi-walled carbon nanotube and iron phthalocyanine for electroanalytical determination of isoniazid. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 1089-1099	2.6	13

43	Oxygen Plasma Exfoliated Vertically-Aligned Carbon Nanotubes as Electrodes for Ultrasensitive Stripping Detection of Pb ²⁺ . <i>Journal of the Electrochemical Society</i> , 2014 , 161, H321-H325	3.9	12
42	Effect of gold oxide incorporation on electrochemical corrosion resistance of diamond-like carbon. <i>Diamond and Related Materials</i> , 2015 , 53, 40-44	3.5	12
41	Electro-Deposition of Carbon Structures at Mid Voltage and Room Temperature Using Ethanol/Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 2012 , 159, D159-D161	3.9	12
40	A rational experimental approach to identify correctly the working voltage window of aqueous-based supercapacitors. <i>Scientific Reports</i> , 2020 , 10, 19195	4.9	12
39	Multi-walled carbon nanotubes and activated carbon composite material as electrodes for electrochemical capacitors. <i>Journal of Energy Storage</i> , 2021 , 33, 100738	7.8	12
38	Highly stable nickel-aluminum alloy current collectors and highly defective multi-walled carbon nanotubes active material for neutral aqueous-based electrochemical capacitors. <i>Journal of Energy Storage</i> , 2019 , 23, 116-127	7.8	11
37	Diamond and Carbon Nanotube Composites for Supercapacitor Devices. <i>Journal of Electronic Materials</i> , 2017 , 46, 929-935	1.9	11
36	Magnetic and cytotoxic properties of hot-filament chemical vapour deposited diamond. <i>Materials Science and Engineering C</i> , 2012 , 32, 2340-2343	8.3	11
35	Raman probing carbon & aqueous electrolytes interfaces and molecular dynamics simulations towards understanding electrochemical properties under polarization conditions in supercapacitors. <i>Journal of Energy Chemistry</i> , 2021 , 60, 279-292	12	11
34	Bioactivity behaviour of nano-hydroxyapatite/freestanding aligned carbon nanotube oxide composite. <i>Journal of Materials Science: Materials in Medicine</i> , 2015 , 26, 113	4.5	10
33	Electrodeposition and biomineralization of nano-hydroxylapatite on graphenated carbon nanotubes. <i>Surface and Coatings Technology</i> , 2016 , 297, 51-57	4.4	10
32	High loading of graphene oxide/multi-walled carbon nanotubes into PDLLA: A route towards the design of osteoconductive, bactericidal and non-immunogenic 3D porous scaffolds. <i>Materials Chemistry and Physics</i> , 2016 , 177, 56-66	4.4	10
31	Field emission properties of the graphenated carbon nanotube electrode. <i>Applied Surface Science</i> , 2015 , 324, 174-178	6.7	9
30	Study of the aging process of nanostructured porous carbon-based electrodes in electrochemical capacitors filled with aqueous or organic electrolytes. <i>Journal of Energy Storage</i> , 2020 , 28, 101249	7.8	9
29	Pseudo-capacitive behavior of multi-walled carbon nanotubes decorated with nickel and manganese (hydr)oxides nanoparticles. <i>Journal of Energy Storage</i> , 2020 , 31, 101583	7.8	9
28	Characterization of porous cobalt hexacyanoferrate and activated carbon electrodes under dynamic polarization conditions in a sodium-ion pseudocapacitor. <i>Journal of Energy Chemistry</i> , 2021 , 54, 53-62	12	9
27	Synthesis and Characterization of Magnetic Nanocrystalline Diamond Films. <i>Ferroelectrics</i> , 2012 , 436, 96-100	0.6	7
26	Determination of tadalafil in pharmaceutical samples by vertically oriented multi-walled carbon nanotube electrochemical sensing device. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 877, 114501	4.1	7

25	Ragone Plots for Electrochemical Double-Layer Capacitors. <i>Batteries and Supercaps</i> , 2021 , 4, 1291-1303	5.6	7
24	Radially ordered carbon nanotubes performance for Li-O ₂ batteries: Pre-treatment influence on capacity and discharge products. <i>Catalysis Today</i> , 2020 , 348, 299-306	5.3	7
23	Pseudocapacitive behaviour of iron oxides supported on carbon nanofibers as a composite electrode material for aqueous-based supercapacitors. <i>Journal of Energy Storage</i> , 2021 , 42, 103052	7.8	7
22	Electrochemical sensor for detection of imipramine antidepressant at low potential based on oxidized carbon nanotubes, ferrocenecarboxylic acid, and cyclodextrin: application in psychotropic drugs and urine samples. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 1385-1394	2.6	6
21	Large-Area Cylindrical Diamond Electrodes. <i>ECS Journal of Solid State Science and Technology</i> , 2012 , 1, N67-N72	2	6
20	Recent advances on quasi-solid-state electrolytes for supercapacitors. <i>Journal of Energy Chemistry</i> , 2021 , 67, 697-697	12	6
19	Fast electron transfer kinetics on novel interconnected nanospheres of graphene layers electrodes. <i>Thin Solid Films</i> , 2016 , 616, 698-702	2.2	6
18	Environmentally Friendly Functionalization of Porous Carbon Electrodes for Aqueous-Based Electrochemical Capacitors. <i>IEEE Nanotechnology Magazine</i> , 2019 , 18, 73-82	2.6	6
17	Tungsten oxide and carbide composite synthesized by hot filament chemical deposition as electrodes in aqueous-based electrochemical capacitors. <i>Journal of Energy Storage</i> , 2019 , 26, 100905	7.8	5
16	Blockchain review for battery supply chain monitoring and battery trading. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 157, 112078	16.2	5
15	Additive Manufacturing of Electrochemical Energy Storage Systems Electrodes. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000111	1.6	5
14	Supercapacitive properties, anomalous diffusion, and porous behavior of nanostructured mixed metal oxides containing Sn, Ru, and Ir. <i>Electrochimica Acta</i> , 2019 , 295, 302-315	6.7	5
13	Combined Density Functional Theory and Molecular Dynamics Simulations To Investigate the Effects of Quantum and Double-Layer Capacitances in Functionalized Graphene as the Electrode Material of Aqueous-Based Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 5518-5524	3.8	5
12	Niobium pentoxide nanoparticles decorated graphene as electrode material in aqueous-based supercapacitors: Accurate determination of the working voltage window and the analysis of the distributed capacitance in the time domain. <i>Journal of Energy Storage</i> , 2021 , 44, 103371	7.8	3
11	Preparation and electroanalytical applications of vertically aligned carbon nanotubes. <i>SPR Electrochemistry</i> , 2015 , 50-96		3
10	Robust, freestanding, and bendable multi-walled carbon nanotube buckypapers as electrode materials for quasi-solid-state potassium-ion supercapacitors. <i>Diamond and Related Materials</i> , 2021 , 115, 108354	3.5	3
9	Robust, flexible, freestanding and high surface area activated carbon and multi-walled carbon nanotubes composite material with outstanding electrode properties for aqueous-based supercapacitors. <i>Materials Advances</i> , 2021 , 2, 4264-4276	3.3	3
8	Charge-storage mechanism of highly defective NiO nanostructures on carbon nanofibers in electrochemical supercapacitors. <i>Nanoscale</i> , 2021 , 13, 9590-9605	7.7	3

7	Effect of conductivity, viscosity, and density of water-in-salt electrolytes on the electrochemical behavior of supercapacitors: molecular dynamics simulations and in situ characterization studies. <i>Materials Advances</i> , 2022 , 3, 611-623	3.3	2
6	Ragone Plots for Electrochemical Double-Layer Capacitors. <i>Batteries and Supercaps</i> , 2021 , 4, 1199-1200	5.6	2
5	Freestanding niobium pentoxide-decorated multiwalled carbon nanotube electrode: Charge storage mechanism in sodium-ion pseudocapacitor and battery. <i>Journal of Energy Storage</i> , 2022 , 52, 104793	7.8	2
4	Relating mechanical properties of vertebral trabecular bones to osteoporosis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 54-68	2.1	1
3	Analyses of dispersive effects and the distributed capacitance in the time and frequency domains of activated carbon nanofiber electrodes as symmetric supercapacitors. <i>Electrochimica Acta</i> , 2021 , 402, 139299	6.7	1
2	In-situ electrochemical and operando Raman techniques to investigate the effect of porosity in different carbon electrodes in organic electrolyte supercapacitors. <i>Journal of Energy Storage</i> , 2022 , 50, 104219	7.8	1
1	New Insights on the Sodium Water-in-Salt Electrolyte and Carbon Electrode Interface from Electrochemistry and Operando Raman Studies.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 61139-61153	9.5	1