

Heisi Kurig

List of Publications by Year in descending order

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55
papers

1,738
citations

304743

22
h-index

276875

41
g-index

56
all docs

56
docs citations

56
times ranked

1962
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterisation of activated nanoporous carbon for supercapacitor electrode materials. Carbon, 2007, 45, 1226-1233.	10.3	242
2	Nanoscale fine-tuning of porosity of carbide-derived carbon prepared from molybdenum carbide. Carbon, 2009, 47, 23-29.	10.3	128
3	High power density supercapacitors based on the carbon dioxide activated d-glucose derived carbon electrodes and 1-ethyl-3-methylimidazolium tetrafluoroborate ionic liquid. Journal of Power Sources, 2015, 280, 667-677.	7.8	111
4	Electrochemical Characteristics of Carbide-Derived Carbon $\hat{\text{C}}$ 1-Ethyl-3-methylimidazolium Tetrafluoroborate Supercapacitor Cells. Journal of the Electrochemical Society, 2010, 157, A272.	2.9	102
5	Influence of Room Temperature Ionic Liquid Anion Chemical Composition and Electrical Charge Delocalization on the Supercapacitor Properties. Journal of the Electrochemical Society, 2012, 159, A944-A951.	2.9	85
6	Huge enhancement of energy storage capacity and power density of supercapacitors based on the carbon dioxide activated microporous SiC-CDC. Electrochimica Acta, 2015, 161, 364-370.	5.2	75
7	Microporous $\hat{\text{C}}$ mesoporous carbons for energy storage synthesized by activation of carbonaceous material by zinc chloride, potassium hydroxide or mixture of them. Journal of Power Sources, 2016, 326, 624-634.	7.8	68
8	Is the mixture of 1-ethyl-3-methylimidazolium tetrafluoroborate and 1-butyl-3-methylimidazolium tetrafluoroborate applicable as electrolyte in electrical double layer capacitors?. Electrochemistry Communications, 2012, 22, 203-206.	4.7	65
9	LiPF6 based ethylene carbonate $\hat{\text{C}}$ dimethyl carbonate electrolyte for high power density electrical double layer capacitor. Electrochimica Acta, 2009, 54, 4587-4594.	5.2	61
10	Mesoporous carbide-derived carbons prepared from different chromium carbides. Microporous and Mesoporous Materials, 2011, 141, 88-93.	4.4	55
11	Electrical Double Layer Capacitors Based on Two 1-Ethyl-3-Methylimidazolium Ionic Liquids with Different Anions. Electrochemical and Solid-State Letters, 2011, 14, A120.	2.2	52
12	The suitability of infinite slit-shaped pore model to describe the pores in highly porous carbon materials. Carbon, 2016, 100, 617-624.	10.3	50
13	Influence of Mesoporous Separator Properties on the Parameters of Electrical Double-Layer Capacitor Single Cells. Journal of the Electrochemical Society, 2009, 156, A334.	2.9	48
14	Novel micromesoporous carbon materials synthesized from tantalum hafnium carbide and tungsten titanium carbide. Carbon, 2014, 67, 607-616.	10.3	46
15	On the porosity of polypyrrole films. Synthetic Metals, 2007, 157, 1085-1090.	3.9	44
16	Supercapacitors based on carbide-derived carbons synthesised using HCl and Cl ₂ as reactants. Journal of Solid State Electrochemistry, 2013, 17, 19-28.	2.5	42
17	Electrical double layer capacitors based on 1-ethyl-3-methylimidazolium tetrafluoroborate with small addition of acetonitrile. Electrochimica Acta, 2012, 85, 139-144.	5.2	41
18	Novel sol-gel synthesis route of carbide-derived carbon composites for very high power density supercapacitors. Chemical Engineering Journal, 2017, 320, 576-587.	12.7	41

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19	Novel doubly charged cation based electrolytes for non-aqueous supercapacitors. <i>Electrochemistry Communications</i> , 2010, 12, 535-539.	4.7	37
20	Influence of porosity parameters and electrolyte chemical composition on the power densities of non-aqueous and ionic liquid based supercapacitors. <i>Electrochimica Acta</i> , 2018, 283, 931-948.	5.2	37
21	Electrochemical and gas phase parameters of cathodes for intermediate temperature solid oxide fuel cells. <i>Electrochimica Acta</i> , 2010, 55, 7669-7678.	5.2	25
22	Performance of Polymer Electrolyte Membrane Fuel Cell Single Cells Prepared Using Hierarchical Microporous-Mesoporous Carbon Supported Pt Nanoparticles Activated Catalysts. <i>Electrochimica Acta</i> , 2016, 203, 221-229.	5.2	23
23	Electrochemical impedance characteristics and electroreduction of oxygen at tungsten carbide derived micromesoporous carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2013, 689, 176-184.	3.8	22
24	Influence of Different Organic Solvent Additives on 1-ethyl-3-methylimidazolium Tetrafluoroborate Electrolyte Based Electrical Double Layer Capacitors. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1741-A1745.	2.9	18
25	Transport properties of H ₂ confined in carbide-derived carbons with different pore shapes and sizes. <i>Carbon</i> , 2019, 155, 122-128.	10.3	18
26	Study of the structural curvature in Mo ₂ C derived carbons with contrast matched small-angle neutron scattering. <i>Carbon</i> , 2021, 171, 695-703.	10.3	18
27	Application of multistep electrospinning method for preparation of electrical double-layer capacitor half-cells. <i>Electrochimica Acta</i> , 2014, 119, 72-77.	5.2	17
28	Methane adsorption on specially designed TiC and Mo ₂ C derived carbons with different pore size and surface morphology. <i>Microporous and Mesoporous Materials</i> , 2015, 218, 167-173.	4.4	16
29	NaAlH ₄ /microporous carbon composite materials for reversible hydrogen storage. <i>Microporous and Mesoporous Materials</i> , 2018, 264, 8-12.	4.4	16
30	Development of porous cathode powders for SOFC and influence of cathode structure on the oxygen electroreduction kinetics. <i>Electrochemistry Communications</i> , 2008, 10, 1455-1458.	4.7	15
31	Substituted phosphonium cation based electrolytes for nonaqueous electrical double-layer capacitors. <i>Journal of Materials Research</i> , 2010, 25, 1447-1450.	2.6	15
32	Micro- and Mesoporous Carbide-Derived Carbon Materials and Polymer Membranes for Supercapacitors. <i>ECS Transactions</i> , 2008, 16, 57-67.	0.5	14
33	Carbon electrodes for energy storage: general discussion. <i>Faraday Discussions</i> , 2014, 172, 239-260.	3.2	11
34	Carbide-Derived Carbons: WAXS and Raman Spectra for Detailed Structural Analysis. <i>Journal of Carbon Research</i> , 2021, 7, 29.	2.7	10
35	Enhanced stability of symmetrical polymer electrolyte membrane fuel cell single cells based on novel hierarchical microporous-mesoporous carbon supports. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 1035-1043.	2.5	9
36	Pore wall corrugation effect on the dynamics of adsorbed H ₂ studied by in situ quasi-elastic neutron scattering: Observation of two timescaled diffusion. <i>Carbon</i> , 2022, 197, 359-367.	10.3	8

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37	Structure and stability of partially chlorinated molybdenum carbide composite materials synthesised via high temperature chlorination. <i>Electrochimica Acta</i> , 2016, 191, 337-345.	5.2	7
38	Influence of Mesoporosity of the Anode on the Characteristics of Mediumtemperature SOFC Single Cells. <i>ECS Transactions</i> , 2007, 7, 1609-1616.	0.5	6
39	Electrochemical Characteristics of Titanium Carbide Derived Carbon 1-Ethyl-3-Methylimidazolium Tetrafluoroborate Electrical Double Layer Capacitors. <i>ECS Transactions</i> , 2010, 25, 15-23.	0.5	6
40	Characteristics of Capacitors Based on Ionic Liquids: From Dielectric Polymers to Redox-Active Adsorbed Species. <i>ECS Transactions</i> , 2016, 75, 161-170.	0.5	6
41	Influence of Cathode Porosity on the Characteristics of Medium-Temperature SOFC Single Cells. <i>ECS Transactions</i> , 2008, 12, 293-302.	0.5	4
42	Different Carbide Derived Nanoporous Carbon Supports and Electroreduction of Oxygen. <i>ECS Transactions</i> , 2015, 66, 69-80.	0.5	4
43	Neutron Scattering Applications to Hydrogen Storage Materials. <i>Neutron News</i> , 2016, 27, 14-15.	0.2	4
44	Application of Some Carbon Fabrics as Outstanding Supercapacitor Electrode Materials in Acetonitrile Based Electrolyte. <i>Journal of the Electrochemical Society</i> , 2017, 164, A453-A460.	2.9	4
45	Influence of Cathode Porosity and Potential on Oxygen Reduction Kinetics at Intermediate Temperature SOFCs Cathodes. <i>ECS Transactions</i> , 2007, 7, 1071-1080.	0.5	3
46	Enhanced Stability of Novel Hierarchical Carbon Supports in PEMFC Application. <i>ECS Transactions</i> , 2016, 75, 789-799.	0.5	3
47	Characterization of Activated Nanoporous Carbon as Electrical Double Layer Capacitor Electrode Materials. <i>ECS Transactions</i> , 2007, 3, 39-48.	0.5	2
48	Advanced nanostructured carbon materials for electrical double layer capacitors. <i>Journal of Physics: Conference Series</i> , 2007, 93, 012002.	0.4	2
49	Publisher's Note: Electrical Double Layer Capacitors Based on Two 1-Ethyl-3-methylimidazolium Ionic Liquids with Different Anions [<i>Electrochem. Solid-State Lett.</i> , 14, A120 (2011)]. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, S7.	2.2	1
50	Carbon electrode interfaces for synthesis, sensing and electrocatalysis: general discussion. <i>Faraday Discussions</i> , 2014, 172, 497-520.	3.2	1
51	Solid Oxide Fuel Cells Based on the Nano-meso-macro-porous Cathodes and Anodes. <i>ECS Meeting Abstracts</i> , 2008, , .	0.0	0
52	Medium Temperature Solid Oxide Fuel Cells Based on the Micro-Meso-Macro-Porous Cathodes and Anodes. <i>ECS Transactions</i> , 2009, 25, 325-333.	0.5	0
53	Characterization of Non-Aqueous Supercapacitors Based on Titanium Carbide Derived Carbon Electrodes and Novel Doubly Charged Cation Based Salts. <i>ECS Transactions</i> , 2010, 33, 47-54.	0.5	0
54	Synthesis and Characterization of Carbide-Derived Carbons Prepared from Different Chromium Carbides. <i>ECS Meeting Abstracts</i> , 2011, , .	0.0	0

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55	Medium Temperature Solid Oxide Fuel Cells Based on Supporting Porous Anode and Bilayered Electrolyte. ECS Transactions, 2011, 35, 333-342.	0.5	0