

Soshi Shiraishi

List of Publications by Year in descending order

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117625

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docs citations

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times ranked

5287
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen-Enriched Nonporous Carbon Electrodes with Extraordinary Supercapacitance. <i>Advanced Functional Materials</i> , 2009, 19, 1800-1809.	14.9	720
2	Influence of pore structure and surface chemistry on electric double layer capacitance in non-aqueous electrolyte. <i>Carbon</i> , 2003, 41, 1765-1775.	10.3	414
3	XPS Analysis of Lithium Surfaces Following Immersion in Various Solvents Containing LiBF ₄ . <i>Journal of the Electrochemical Society</i> , 1995, 142, 340-347.	2.9	233
4	Electrochemical Deposition of Very Smooth Lithium Using Nonaqueous Electrolytes Containing HF. <i>Journal of the Electrochemical Society</i> , 1996, 143, 2187-2197.	2.9	212
5	Electric double layer capacitance of highly pure single-walled carbon nanotubes (HiPco, Buckytubes, C) in propylene carbonate electrolytes. <i>Electrochemistry Communications</i> , 2002, 4, 593-598.	4.7	192
6	Surface Condition Changes in Lithium Metal Deposited in Nonaqueous Electrolyte Containing HF by Dissolution-Deposition Cycles. <i>Journal of the Electrochemical Society</i> , 1999, 146, 1633-1639.	2.9	161
7	Structural Analysis of Sucrose-Derived Hard Carbon and Correlation with the Electrochemical Properties for Lithium, Sodium, and Potassium Insertion. <i>Chemistry of Materials</i> , 2020, 32, 2961-2977.	6.7	150
8	Morphology and chemical compositions of surface films of lithium deposited on a Ni substrate in nonaqueous electrolytes. <i>Journal of Electroanalytical Chemistry</i> , 1995, 394, 49-62.	3.8	145
9	X-Ray Photoelectron Spectroscopic Analysis and Scanning Electron Microscopic Observation of the Lithium Surface Immersed in Nonaqueous Solvents. <i>Journal of the Electrochemical Society</i> , 1994, 141, 2379-2385.	2.9	121
10	High-Capacity Hard Carbon Synthesized from Macroporous Phenolic Resin for Sodium-Ion and Potassium-Ion Battery. <i>ACS Applied Energy Materials</i> , 2020, 3, 135-140.	5.1	113
11	Chemical Reaction of Lithium Surface during Immersion in LiClO ₄ or LiPF ₆ /DEC Electrolyte. <i>Journal of the Electrochemical Society</i> , 1997, 144, 1900-1906.	2.9	110
12	Electric double layer capacitance of multi-walled carbon nanotubes and B-doping effect. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 82, 585-591.	2.3	110
13	Electric Double Layer Capacitance of Highly Porous Carbon Derived from Lithium Metal and Polytetrafluoroethylene. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, A5.	2.2	104
14	Electrochemical Deposition of Uniform Lithium on an Ni Substrate in a Nonaqueous Electrolyte. <i>Journal of the Electrochemical Society</i> , 1994, 141, L108-L110.	2.9	95
15	Electric Double-Layer Capacitance of Meso/Macroporous Activated Carbon Fibers Prepared by the Blending Method. <i>Journal of the Electrochemical Society</i> , 2002, 149, A855.	2.9	94
16	XPS analysis for the lithium surface immersed in γ -butyrolactone containing various salts. <i>Electrochimica Acta</i> , 1995, 40, 913-921.	5.2	90
17	Study of the Surface Composition of Highly Smooth Lithium Deposited in Various Carbonate Electrolytes Containing HF. <i>Langmuir</i> , 1997, 13, 3542-3549.	3.5	90
18	Studies on electrochemical oxidation of non-aqueous electrolyte on the LiCoO ₂ thin film electrode. <i>Journal of Electroanalytical Chemistry</i> , 1996, 419, 77-84.	3.8	89

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19	Electrochemical Behavior of Al Current Collector of Rechargeable Lithium Batteries in Propylene Carbonate with LiCF ₃ SO ₃ , Li(CF ₃ SO ₂) ₂ N, or Li(C ₄ F ₉ SO ₃) _{Tj} ETQq1 1207843148gBT /Ove	10.3	48
20	Electromechanical behavior of a fully plastic actuator based on dispersed nano-carbon/ionic-liquid-gel electrodes. Carbon, 2009, 47, 1373-1380.	10.3	81
21	Mechanism of heterogeneous graphitization observed in phenolic resin-derived thin carbon fibers heated at 3000 Å°C. Carbon, 2004, 42, 667-669.	10.3	78
22	Preparation and pore control of highly mesoporous carbon from defluorinated PTFE. Carbon, 2003, 41, 1759-1764.	10.3	77
23	Electrochemical reaction of fructose dehydrogenase on carbon cryogel electrodes with controlled pore sizes. Electrochemistry Communications, 2010, 12, 446-449.	4.7	74
24	XPS Analysis of the Surface of a Carbon Electrode Intercalated by Lithium Ions. Chemistry of Materials, 1997, 9, 1797-1804.	6.7	73
25	Studies on Electrochemical Oxidation of Nonaqueous Electrolytes Using In Situ FTIR Spectroscopy: I. The Effect of Type of Electrode on Onset Potential for Electrochemical Oxidation of Propylene Carbonate Containing 1.0 mol dm ⁻³ . Journal of the Electrochemical Society, 1995, 142, 1383-1389.	2.9	71
26	Oxidation of propylene carbonate containing LiBF ₄ or LiPF ₆ on LiCoO ₂ thin film electrode for lithium batteries. Electrochimica Acta, 2001, 47, 433-439.	5.2	70
27	Influence of initial surface condition of lithium metal anodes on surface modification with HF. Journal of Applied Electrochemistry, 1999, 29, 867-879.	2.9	67
28	Improvement of carbon materials performance by nitrogen functional groups in electrochemical capacitors in organic electrolyte at severe conditions. Carbon, 2015, 82, 205-213.	10.3	66
29	Effect of surface modification using various acids on electrodeposition of lithium. Journal of Applied Electrochemistry, 1995, 25, 584-591.	2.9	49
30	Membrane Knobs of Unfixed Plasmodium falciparum Infected Erythrocytes: New Findings as Revealed by Atomic Force Microscopy and Surface Potential Spectroscopy. Experimental Parasitology, 1996, 84, 339-343.	1.2	49
31	Measuring cycle efficiency and capacitance of chemically activated carbons in propylene carbonate. Carbon, 2010, 48, 1451-1456.	10.3	40
32	Electrochemical Oxidation Processes on Ni Electrodes in Propylene Carbonate Containing Various Electrolyte Salts. Journal of the Electrochemical Society, 1996, 143, 2548-2558.	2.9	39
33	Electrochemical deposition of lithium metal in nonaqueous electrolyte containing (C ₂ H ₅) ₄ NF(HF) ₄ additive. Journal of Fluorine Chemistry, 1998, 87, 235-243.	1.7	35
34	Electric Double Layer Capacitance of Mesoporous Activated Carbon Fiber. Electrochemistry, 2001, 69, 440-443.	1.4	34
35	Heat-Treatment and Nitrogen-Doping of Activated Carbons for High Voltage Operation of Electric Double Layer Capacitor. Key Engineering Materials, 0, 497, 80-86.	0.4	33
36	Preparation of Porous Carbon by Defluorination of Poly(tetrafluoroethylene) and the Effect of γ -Irradiation on the Polymer. Chemistry of Materials, 2001, 13, 2933-2939.	6.7	31

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37	Heterogeneous graphitization of thin carbon fiber derived from phenol-formaldehyde resin. Carbon, 2003, 41, 1654-1656.	10.3	31
38	Imaging for Uniformity of Lithium Metal Surface Using Tapping Mode-Atomic Force and Surface Potential Microscopy. Journal of Physical Chemistry B, 2001, 105, 123-134.	2.6	30
39	Mesoporous carbon from poly(tetrafluoroethylene) defluorinated by sodium metal. Carbon, 2002, 40, 457-459.	10.3	29
40	Electric Double Layer Capacitance Performance of Porous Carbons Prepared by Defluorination of Polytetrafluoroethylene with Potassium. Electrochemical and Solid-State Letters, 2002, 5, A283.	2.2	27
41	Electric Double Layer Capacitance of Activated Carbon Fibers in Ionic Liquid : EMImBF ₄ . Electrochemistry, 2005, 73, 593-596.	1.4	25
42	Electric Double Layer Capacitance of Activated Carbon Nanofibers in Ionic Liquid: EMImBF ₄ . Electrochemistry, 2007, 75, 619-621.	1.4	23
43	Carbon-carbon asymmetric aqueous capacitor by pseudocapacitive positive and stable negative electrodes. Carbon, 2014, 67, 792-794.	10.3	23
44	Direct conversion mechanism of fluorine-GIC into poly(carbon monofluoride), (CF). Carbon, 2003, 41, 1971-1977.	10.3	22
45	Polyion Complex Nanocomposite Electrode Incorporating Enzyme and Carbon Nanotube for Biofuel Cells. Electrochemistry, 2008, 76, 55-58.	1.4	19
46	Morphology Control of Lithium Deposited in Nonaqueous Media. Chemistry Letters, 1995, 24, 209-210.	1.3	17
47	The Observation of Electrochemical Dissolution of Lithium Metal Using Electrochemical Quartz Crystal Microbalance and in-Situ Tapping Mode Atomic Force Microscopy. Langmuir, 1998, 14, 7082-7086.	3.5	17
48	Nitrogen-Doped Seamless Activated Carbon Electrode with Excellent Durability for Electric Double Layer Capacitor. Journal of the Electrochemical Society, 2020, 167, 060523.	2.9	17
49	Optimization of Enzyme Anode and Cathode with Polyion Complex for the Application to Biofuel Cells. Electrochemistry, 2008, 76, 619-624.	1.4	16
50	Preparation of Silicon Carbide-based Nanoporous Materials by Replica Technique. Chemistry Letters, 2008, 37, 574-575.	1.3	14
51	Preparation of porous carbon by defluorination of PTFE and its application to electric double layer capacitor. Tanso, 2004, 2004, 285-294.	0.1	13
52	Quartz Crystal Microbalance Study of Lithium Deposition and Dissolution in Nonaqueous Electrolyte with Hydrofluoric Acid. Journal of the Electrochemical Society, 2000, 147, 2070.	2.9	12
53	Preparation of Porous Carbon with Defluorination of PTFE by Radical Anion. Tanso, 2000, 2000, 395-399.	0.1	11
54	Preparation and Characterization of Porous Carbons By Defluorination of PTFE with Alkali Metals - Effect of Alkali Metals on the Porous Structure -. Molecular Crystals and Liquid Crystals, 2002, 388, 45-50.	0.9	10

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55	Double Layer Capacitance Of Porous Carbons Derived From Defluorination Of Ptf. Molecular Crystals and Liquid Crystals, 2002, 388, 129-135.	0.9	10
56	Pyrolytically prepared carbon from fluorineâ€“GIC. Carbon, 2003, 41, 1149-1156.	10.3	10
57	Electric Double Layer Capacitors. , 2003, , 447-457.		10
58	Characterization of activated carbons for electric double layer capacitor and its attention. Tanso, 2007, 2007, 195-199.	0.1	10
59	Electrochemical capacitance of carbonized polyaniline. Tanso, 2008, 2008, 61-66.	0.1	10
60	Membrane knobs of unfixed Babesia bovis-infected erythrocytes: new findings as revealed by atomic force microscopy and surface potential spectroscopy. Parasitology International, 1997, 46, 241-246.	1.3	9
61	Electrochemical Lithium Ion Doping and Undoping Behavior of Carbyne-like Carbon Film Electrode. Chemistry Letters, 2005, 34, 1678-1679.	1.3	9
62	Effect of the thickness of single-walled carbon nanotube electrodes on the discharge properties of Liâ€“air batteries. Journal of Electroanalytical Chemistry, 2020, 878, 114603.	3.8	9
63	XPS Analysis for Lithium Surface Immersed in Tetrahydrofuran Containing Various Salts. Electrochemistry, 1993, 61, 1377-1382.	0.3	7
64	Influence of organics adsorption on electric double layer capacitance for activated carbon electrode. Tanso, 2004, 2004, 255-257.	0.1	5
65	Development of Novel Carbon Electrode for Electrochemical Energy Storage. Nano-sized Carbon and Classic Carbon Electrodes for Capacitors. Electrochemistry, 2021, 89, 491-499.	1.4	5
66	Regeneration of Fully-discharged Graphite-Fluoride Lithium Primary Battery as Electrochemical Capacitor. Electrochemistry, 2021, 89, 87-93.	1.4	5
67	Durability evaluation method of activated carbon electrode for electric double layer capacitor. Tanso, 2019, 2019, 154-158.	0.1	5
68	Dependence of electric double layer capacitance on electrolyte ion for carbon electrolyte interface. Tanso, 2007, 2007, 237-241.	0.1	5
69	Application of Thin Carbon Fibers Prepared by Polymer-Blend Technique for Lithium-Ion Battery Negative Electrode. Electrochemistry, 2003, 71, 1157-1159.	1.4	4
70	Characterization of Carbon Microstructure by Electrochemical Oxidation. Electrochemistry, 2010, 78, 517-522.	1.4	4
71	Quartz Crystal Microbalance Study for Lithium Deposition and Dissolution in Nonaqueous Electrolyte with HF. Electrochemistry, 1999, 67, 1264-1267.	1.4	4
72	Synthesis and properties of 5,10,15,20-tetrakis[4-(alkoxysilyl)phenyl]porphyrins: an application of selective deprotection of benzaldehyde diethyl acetals in the presence of alkoxysilyl groups. Dalton Transactions, 2010, 39, 9421.	3.3	3

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91	Preparation of nanoporous carbons by defluorination. Tanso, 2008, 2008, 92-97.	0.1	1
92	Dynamic Observation of Surface Reactions of Lithium Foils Immersed in Diethyl Carbonate Electrolytes by Using in situ FTIR Measurement. Electrochemistry, 1998, 66, 272-278.	0.3	1
93	Preparation of Porous Carbon from Lithium Acetylide. Tanso, 2002, 2002, 266-269.	0.1	0
94	Raman spectral change during electrochemical lithium-ion doping/dedoping for carbon nanofiber prepared by polymer blend spinning technique. Tanso, 2005, 2005, 283-285.	0.1	0
95	Influence of heating duration on high-voltage charging durability of an activated carbon electrode for electric double layer capacitors. Tanso, 2009, 2009, 226-229.	0.1	0