Sung-Man Lee

List of Publications by Year
in descending order

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Version: 2024-02-01

43 papers	2,011 citations	257450 24 h-index	254184 43 g-index
43 all docs	43 docs citations	43 times ranked	2187 citing authors

#	Article	IF	Citations
1	Achieving High-Performance Spherical Natural Graphite Anode through a Modified Carbon Coating for Lithium-Ion Batteries. Energies, 2021, 14, 1946.	3.1	9
2	Electrochemical properties of polydopamine coated Ti-Si alloy anodes for Li-ion batteries. Electrochimica Acta, 2016, 222, 1200-1209.	5.2	15
3	Modification for Improving the Electrochemical Performance of Spherically-Shaped Natural Graphite as Anode Material for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2016, 163, A3078-A3086.	2.9	23
4	Water vapor barrier properties of Siâ€“Znâ€“O/Al multilayer structures. Surface and Coatings Technology, 2015, 275, 219-223.	4.8	1
5	High-performance characteristics of silicon inverse opal synthesized by the simple magnesium reduction as anodes for lithium-ion batteries. Journal of Power Sources, 2015, 300, 182-189.	7.8	39
6	Synthesis and electrochemical characterization of anode material withÂtitaniumâ€“silicon alloy solid core/nanoporous silicon shell structures for lithium rechargeable batteries. Journal of Power Sources, 2015, 299, 537-543.	7.8	24
7	NH₄PF₆ as a Structural Modifier for Building a Robust Carbonâ€Coated Natural Graphite Anode for Lithiumâ€Ion Batteries. ChemElectroChem, 2014, 1, 1672-1678.	3.4	10
8	Si/C composite lithium-ion battery anodes synthesized using silicon nanoparticles from porous silicon. Electrochimica Acta, 2014, 133, 73-81.	5.2	25
9	Effect of polymeric binder type on the thermal stability and tolerance to roll-pressing of spherical natural graphite anodes for Li-ion batteries. Journal of Power Sources, 2014, 248, 1191-1196.	7.8	59
10	A hard carbon/microcrystalline graphite/carbon composite with a core-shell structure as novel anode materials for lithium-ion batteries. Electrochimica Acta, 2014, 135, 27-34.	5.2	59
11	A contribution to the progress of high energy batteries: A metal-free, lithium-ion, siliconâ€“sulfur battery. Journal of Power Sources, 2012, 202, 308-313.	7.8	155
12	Electrochemical and interfacial behavior of a FeSi2.7 thin film electrode in an ionic liquid electrolyte. Electrochimica Acta, 2011, 56, 9818-9823.	5.2	29
13	Effects of lithium phosphorous oxynitride film coating on electrochemical performance and thermal stability of graphite anodes. Journal of Physics and Chemistry of Solids, 2011, 72, 842-845.	4.0	7
14	Effects of Fe layer on Li insertion/extraction Reactions of Fe/Si Multilayer thin Film Anodes for Lithium Rechargeable Batteries. Journal of Electrochemical Science and Technology, 2011, 2, 193-197.	2.2	2
15	Effects of particle size on the thermal stability of lithiated graphite anode. Electrochimica Acta, 2009, 54, 3339-3343.	5.2	43
16	Effect of carbon coating on thermal stability of natural graphite spheres used as anode materials in lithium-ion batteries. Journal of Power Sources, 2009, 190, 553-557.	7.8	58
17	Fabrication and Electrochemical Characteristics of Crack-Resistant Si-Based Anode Materials for All-Solid-State Thin-Film Batteries. Electronic Materials Letters, 2009, 5, 13-17.	2.2	11
18	Electrochemical characterization of Tiâ€“Si and Tiâ€“Siâ€“Al alloy anodes for Li-ion batteries produced by mechanical ball milling. Journal of Alloys and Compounds, 2009, 472, 461-465.	5.5	58

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19	Spherical silicon/graphite/carbon composites as anode material for lithium-ion batteries. Journal of Power Sources, 2008, 176, 353-358.	7.8	125
20	Phase formation during mechanical alloying in the Tiâ€“Si system. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 1099-1101.	5.6	14
21	Effect of carbon coating on electrochemical performance of hard carbons as anode materials for lithium-ion batteries. Journal of Power Sources, 2007, 166, 250-254.	7.8	48
22	Rapidly solidified Tiâ€“Si alloys/carbon composites as anode for Li-ion batteries. Electrochimica Acta, 2006, 52, 1523-1526.	5.2	39
23	Structural Change in Si Phase of Feâ•Si Multilayer Thin-Film Anodes during Li Insertion/Extraction Reaction. Journal of the Electrochemical Society, 2006, 153, A455.	2.9	21
24	Silver alloying effect on the electrochemical behavior of Siâ€“Zr thin film anodes. Journal of Power Sources, 2005, 146, 464-468.	7.8	15
25	Improvement of capacity and cyclability of Fe/Si multilayer thin film anodes for lithium rechargeable batteries. Electrochimica Acta, 2005, 50, 3390-3394.	5.2	61
26	Electrochemical performance of modified synthetic graphite for lithium ion batteries. Journal of Materials Science, 2005, 40, 347-353.	3.7	6
27	Carbon-coated nano-Si dispersed oxides/graphite composites as anode material for lithium ion batteries. Electrochemistry Communications, 2004, 6, 465-469.	4.7	186
28	Effect of carbon coating on elevated temperature performance of graphite as lithium-ion battery anode material. Journal of Power Sources, 2004, 128, 61-66.	7.8	25
29	Synthesis and electrochemical characterization of LixCoO2 for lithium-ion batteries. Materials Research Bulletin, 2003, 38, 1-9.	5.2	12
30	Electrical conductivity in Liâ€“Siâ€“Pâ€“Oâ€“N oxynitride thin-films. Journal of Power Sources, 2003, 123, 61-64.	7.8	45
31	An all-solid-state thin film battery using LISIPON electrolyte and Siâ€“V negative electrode films. Electrochemistry Communications, 2003, 5, 32-35.	4.7	71
32	Fe/Si multi-layer thin film anodes for lithium rechargeable thin film batteries. Electrochemistry Communications, 2003, 5, 544-548.	4.7	74
33	Snâ€“Zrâ€“Ag alloy thin-film anodes. Journal of Power Sources, 2003, 119-121, 106-109.	7.8	22
34	Siâ€“Zr alloy thin-film anodes for microbatteries. Journal of Power Sources, 2003, 119-121, 113-116.	7.8	27
35	Si (â€“Zr)/Ag multilayer thin-film anodes for microbatteries. Journal of Power Sources, 2003, 119-121, 117-120.	7.8	12
36	Amorphous Lithium Nickel Vanadate Thin-Film Anodes for Rechargeable Lithium Microbatteries. Electrochemical and Solid-State Letters, 2002, 5, A138.	2.2	21

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37	Lithium storage properties of nanocrystalline Ni3Sn4 alloys prepared by mechanical alloying. Journal of Power Sources, 2002, 112, 8-12.	7.8	82
38	Performance of tin-containing thin-film anodes for rechargeable thin-film batteries. Journal of Power Sources, 2002, 111, 345-349.	7.8	21
39	Graphiteâ€“FeSi alloy composites as anode materials for rechargeable lithium batteries. Journal of Power Sources, 2002, 112, 649-654.	7.8	135
40	The improvement of electrical properties of Pd-based contact to p-GaN by surface treatment. Journal of Electronic Materials, 2001, 30, 183-187.	2.2	17
41	Characteristics of carbon-coated graphite prepared from mixture of graphite and polyvinylchloride as anode materials for lithium ion batteries. Journal of Power Sources, 2001, 101, 206-212.	7.8	91
42	Stress effect on cycle properties of the silicon thin-film anode. Journal of Power Sources, 2001, 97-98, 191-193.	7.8	143
43	Lithium Insertion in SiAg Powders Produced by Mechanical Alloying. Electrochemical and Solid-State Letters, 2001, 4, A97.	2.2	71