Sung-Man Lee

List of Publications by Year
in descending order

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43 papers	2,011 citations	257357 24 h-index	254106 43 g-index
43 all docs	43 docs citations	43 times ranked	2187 citing authors

#	Article	IF	Citations
1	Carbon-coated nano-Si dispersed oxides/graphite composites as anode material for lithium ion batteries. Electrochemistry Communications, 2004, 6, 465-469.	2.3	186
2	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.	4.0	155
3	Stress effect on cycle properties of the silicon thin-film anode. Journal of Power Sources, 2001, 97-98, 191-193.	4.0	143
4	Graphiteâ€“FeSi alloy composites as anode materials for rechargeable lithium batteries. Journal of Power Sources, 2002, 112, 649-654.	4.0	135
5	Spherical silicon/graphite/carbon composites as anode material for lithium-ion batteries. Journal of Power Sources, 2008, 176, 353-358.	4.0	125
6	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.	4.0	91
7	Lithium storage properties of nanocrystalline Ni3Sn4 alloys prepared by mechanical alloying. Journal of Power Sources, 2002, 112, 8-12.	4.0	82
8	Fe/Si multi-layer thin film anodes for lithium rechargeable thin film batteries. Electrochemistry Communications, 2003, 5, 544-548.	2.3	74
9	Lithium Insertion in SiAg Powders Produced by Mechanical Alloying. Electrochemical and Solid-State Letters, 2001, 4, A97.	2.2	71
10	An all-solid-state thin film battery using LISIPON electrolyte and Siâ€“V negative electrode films. Electrochemistry Communications, 2003, 5, 32-35.	2.3	71
11	Improvement of capacity and cyclability of Fe/Si multilayer thin film anodes for lithium rechargeable batteries. Electrochimica Acta, 2005, 50, 3390-3394.	2.6	61
12	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.	4.0	59
13	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.	2.6	59
14	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.	4.0	58
15	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.	2.8	58
16	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.	4.0	48
17	Electrical conductivity in Liâ€“Siâ€“Pâ€“Oâ€“N oxynitride thin-films. Journal of Power Sources, 2003, 123, 61-64.	4.0	45
18	Effects of particle size on the thermal stability of lithiated graphite anode. Electrochimica Acta, 2009, 54, 3339-3343.	2.6	43

#	Article	IF	Citations
19	Rapidly solidified Tiâ€“Si alloys/carbon composites as anode for Li-ion batteries. Electrochimica Acta, 2006, 52, 1523-1526.	2.6	39
20	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.	4.0	39
21	Electrochemical and interfacial behavior of a FeSi2.7 thin film electrode in an ionic liquid electrolyte. Electrochimica Acta, 2011, 56, 9818-9823.	2.6	29
22	Siâ€“Zr alloy thin-film anodes for microbatteries. Journal of Power Sources, 2003, 119-121, 113-116.	4.0	27
23	Effect of carbon coating on elevated temperature performance of graphite as lithium-ion battery anode material. Journal of Power Sources, 2004, 128, 61-66.	4.0	25
24	Si/C composite lithium-ion battery anodes synthesized using silicon nanoparticles from porous silicon. Electrochimica Acta, 2014, 133, 73-81.	2.6	25
25	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.	4.0	24
26	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.	1.3	23
27	Snâ€“Zrâ€“Ag alloy thin-film anodes. Journal of Power Sources, 2003, 119-121, 106-109.	4.0	22
28	Amorphous Lithium Nickel Vanadate Thin-Film Anodes for Rechargeable Lithium Microbatteries. Electrochemical and Solid-State Letters, 2002, 5, A138.	2.2	21
29	Performance of tin-containing thin-film anodes for rechargeable thin-film batteries. Journal of Power Sources, 2002, 111, 345-349.	4.0	21
30	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.	1.3	21
31	The improvement of electrical properties of Pd-based contact to p-GaN by surface treatment. Journal of Electronic Materials, 2001, 30, 183-187.	1.0	17
32	Silver alloying effect on the electrochemical behavior of Siâ€“Zr thin film anodes. Journal of Power Sources, 2005, 146, 464-468.	4.0	15
33	Electrochemical properties of polydopamine coated Ti-Si alloy anodes for Li-ion batteries. Electrochimica Acta, 2016, 222, 1200-1209.	2.6	15
34	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.	2.6	14
35	Synthesis and electrochemical characterization of LixCoO2 for lithium-ion batteries. Materials Research Bulletin, 2003, 38, 1-9.	2.7	12
36	Si (â€“Zr)/Ag multilayer thin-film anodes for microbatteries. Journal of Power Sources, 2003, 119-121, 117-120.	4.0	12

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37	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.	1.0	11
38	NH₄PF₆ as a Structural Modifier for Building a Robust Carbonâ€Coated Natural Graphite Anode for Lithiumâ€Ion Batteries. ChemElectroChem, 2014, 1, 1672-1678.	1.7	10
39	Achieving High-Performance Spherical Natural Graphite Anode through a Modified Carbon Coating for Lithium-Ion Batteries. Energies, 2021, 14, 1946.	1.6	9
40	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.	1.9	7
41	Electrochemical performance of modified synthetic graphite for lithium ion batteries. Journal of Materials Science, 2005, 40, 347-353.	1.7	6
42	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.	0.9	2
43	Water vapor barrier properties of Siâ€“Znâ€“O/Al multilayer structures. Surface and Coatings Technology, 2015, 275, 219-223.	2.2	1