

Sung-Man Lee

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Achieving High-Performance Spherical Natural Graphite Anode through a Modified Carbon Coating for Lithium-Ion Batteries. <i>Energies</i> , 2021, 14, 1946.	1.6	9
2	Electrochemical properties of polydopamine coated Ti-Si alloy anodes for Li-ion batteries. <i>Electrochimica Acta</i> , 2016, 222, 1200-1209.	2.6	15
3	Modification for Improving the Electrochemical Performance of Spherically-Shaped Natural Graphite as Anode Material for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A3078-A3086.	1.3	23
4	Water vapor barrier properties of Si ²⁺ /Zn ²⁺ /O/Al multilayer structures. <i>Surface and Coatings Technology</i> , 2015, 275, 219-223.	2.2	1
5	High-performance characteristics of silicon inverse opal synthesized by the simple magnesium reduction as anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 300, 182-189.	4.0	39
6	Synthesis and electrochemical characterization of anode material with Titanium-silicon alloy solid core/nanoporous silicon shell structures for lithium rechargeable batteries. <i>Journal of Power Sources</i> , 2015, 299, 537-543.	4.0	24
7	NH ₄ PF ₆ as a Structural Modifier for Building a Robust Carbon-Coated Natural Graphite Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2014, 1, 1672-1678.	1.7	10
8	Si/C composite lithium-ion battery anodes synthesized using silicon nanoparticles from porous silicon. <i>Electrochimica Acta</i> , 2014, 133, 73-81.	2.6	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. <i>Journal of Power Sources</i> , 2014, 248, 1191-1196.	4.0	59
10	A hard carbon/microcrystalline graphite/carbon composite with a core-shell structure as novel anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 135, 27-34.	2.6	59
11	A contribution to the progress of high energy batteries: A metal-free, lithium-ion, silicon-sulfur battery. <i>Journal of Power Sources</i> , 2012, 202, 308-313.	4.0	155
12	Electrochemical and interfacial behavior of a FeSi _{2.7} thin film electrode in an ionic liquid electrolyte. <i>Electrochimica Acta</i> , 2011, 56, 9818-9823.	2.6	29
13	Effects of lithium phosphorous oxynitride film coating on electrochemical performance and thermal stability of graphite anodes. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 842-845.	1.9	7
14	Effects of Fe layer on Li insertion/extraction Reactions of Fe/Si Multilayer thin Film Anodes for Lithium Rechargeable Batteries. <i>Journal of Electrochemical Science and Technology</i> , 2011, 2, 193-197.	0.9	2
15	Effects of particle size on the thermal stability of lithiated graphite anode. <i>Electrochimica Acta</i> , 2009, 54, 3339-3343.	2.6	43
16	Effect of carbon coating on thermal stability of natural graphite spheres used as anode materials in lithium-ion batteries. <i>Journal of Power Sources</i> , 2009, 190, 553-557.	4.0	58
17	Fabrication and Electrochemical Characteristics of Crack-Resistant Si-Based Anode Materials for All-Solid-State Thin-Film Batteries. <i>Electronic Materials Letters</i> , 2009, 5, 13-17.	1.0	11
18	Electrochemical characterization of Ti-Si and Ti-Si-Al alloy anodes for Li-ion batteries produced by mechanical ball milling. <i>Journal of Alloys and Compounds</i> , 2009, 472, 461-465.	2.8	58

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19	Spherical silicon/graphite/carbon composites as anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2008, 176, 353-358.	4.0	125
20	Phase formation during mechanical alloying in the Ti-Si system. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 449-451, 1099-1101.	2.6	14
21	Effect of carbon coating on electrochemical performance of hard carbons as anode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2007, 166, 250-254.	4.0	48
22	Rapidly solidified Ti-Si alloys/carbon composites as anode for Li-ion batteries. <i>Electrochimica Acta</i> , 2006, 52, 1523-1526.	2.6	39
23	Structural Change in Si Phase of Fe-Si Multilayer Thin-Film Anodes during Li Insertion/Extraction Reaction. <i>Journal of the Electrochemical Society</i> , 2006, 153, A455.	1.3	21
24	Silver alloying effect on the electrochemical behavior of Si-Zr thin film anodes. <i>Journal of Power Sources</i> , 2005, 146, 464-468.	4.0	15
25	Improvement of capacity and cyclability of Fe/Si multilayer thin film anodes for lithium rechargeable batteries. <i>Electrochimica Acta</i> , 2005, 50, 3390-3394.	2.6	61
26	Electrochemical performance of modified synthetic graphite for lithium ion batteries. <i>Journal of Materials Science</i> , 2005, 40, 347-353.	1.7	6
27	Carbon-coated nano-Si dispersed oxides/graphite composites as anode material for lithium ion batteries. <i>Electrochemistry Communications</i> , 2004, 6, 465-469.	2.3	186
28	Effect of carbon coating on elevated temperature performance of graphite as lithium-ion battery anode material. <i>Journal of Power Sources</i> , 2004, 128, 61-66.	4.0	25
29	Synthesis and electrochemical characterization of Li_xCoO_2 for lithium-ion batteries. <i>Materials Research Bulletin</i> , 2003, 38, 1-9.	2.7	12
30	Electrical conductivity in Li-Si-P-O-N oxynitride thin-films. <i>Journal of Power Sources</i> , 2003, 123, 61-64.	4.0	45
31	An all-solid-state thin film battery using LISIPON electrolyte and Si-V negative electrode films. <i>Electrochemistry Communications</i> , 2003, 5, 32-35.	2.3	71
32	Fe/Si multi-layer thin film anodes for lithium rechargeable thin film batteries. <i>Electrochemistry Communications</i> , 2003, 5, 544-548.	2.3	74
33	Sn-Zr-Ag alloy thin-film anodes. <i>Journal of Power Sources</i> , 2003, 119-121, 106-109.	4.0	22
34	Si-Zr alloy thin-film anodes for microbatteries. <i>Journal of Power Sources</i> , 2003, 119-121, 113-116.	4.0	27
35	Si (Zr)/Ag multilayer thin-film anodes for microbatteries. <i>Journal of Power Sources</i> , 2003, 119-121, 117-120.	4.0	12
36	Amorphous Lithium Nickel Vanadate Thin-Film Anodes for Rechargeable Lithium Microbatteries. <i>Electrochemical and Solid-State Letters</i> , 2002, 5, A138.	2.2	21

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37	Lithium storage properties of nanocrystalline Ni ₃ Sn ₄ alloys prepared by mechanical alloying. Journal of Power Sources, 2002, 112, 8-12.	4.0	82
38	Performance of tin-containing thin-film anodes for rechargeable thin-film batteries. Journal of Power Sources, 2002, 111, 345-349.	4.0	21
39	Graphite-FeSi alloy composites as anode materials for rechargeable lithium batteries. Journal of Power Sources, 2002, 112, 649-654.	4.0	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.	1.0	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.	4.0	91
42	Stress effect on cycle properties of the silicon thin-film anode. Journal of Power Sources, 2001, 97-98, 191-193.	4.0	143
43	Lithium Insertion in SiAg Powders Produced by Mechanical Alloying. Electrochemical and Solid-State Letters, 2001, 4, A97.	2.2	71