Gyu-bong Cho

List of Publications by Year
in descending order

117 papers	2,245 citations	361413 20 h-index	233421 45 g-index
117 all docs	117 docs citations	117 times ranked	2941 citing authors

#	Article	IF	Citations
1	Ultrahigh-rate nickel monosulfide anodes for sodium/potassium-ion storage. Nanoscale, 2021, 13, 10447-10454.	5.6	8
2	Thermally-enhanced microstructures of Si/TiNi film electrodes for improved electrochemical properties. Journal of Alloys and Compounds, 2021, 860, 158507.	5.5	2
3	Ultra-long cycle life of flexible Sn anode using DME electrolyte. Journal of Alloys and Compounds, 2021, 871, 159549.	5.5	12
4	Layered-like structure of TiO2-Ti3C2 Mxene as an efficient sulfur host for room-temperature sodium-sulfur batteries. Journal of Alloys and Compounds, 2021, 883, 160910.	5.5	20
5	A high rate and long-cycle-life anode based on micrometer-sized Pb powder for sodium-ion batteries. Journal of Alloys and Compounds, 2021, 886, 161240.	5.5	7
6	Development and Evaluation of Sn Foil Anode for Sodiumâ€Ion Batteries. Small, 2021, 17, e2102618.	10.0	11
7	Electrochemical Properties of Silicon-Polyacrylonitrile (PAN) Composite Anodes for Flexible Batteries. Journal of Nanoscience and Nanotechnology, 2020, 20, 7039-7044.	0.9	5
8	Fabrication of Nickel Sulfide/Nitrogen-Doped Reduced Graphene Oxide Nanocomposite as Anode Material for Lithium-Ion Batteries and Its Electrochemical Performance. Journal of Nanoscience and Nanotechnology, 2020, 20, 6782-6787.	0.9	6
9	High power Na₃V₂(PO₄)₃ symmetric full cell for sodium-ion batteries. Nanoscale Advances, 2020, 2, 5166-5170.	4.6	16
10	Optimization of carbon coating thickness to prevent crack generation in Sn nanoparticles during charge/discharge process and their electrochemical properties. Journal of Alloys and Compounds, 2020, 843, 155892.	5.5	3
11	Free-Standing NiS2 Electrode as High-Rate Anode Material for Sodium-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2020, 20, 7119-7123.	0.9	2
12	Enhanced Electrochemical Performances of Ni-Rich LiNi0.8Co0.15Al0.05O2 Cathode Materials by Ti Doping or/and Al(OH)3 Coating. Science of Advanced Materials, 2020, 12, 1283-1288.	0.7	1
13	The Effect of Si Doping or/and Ti Coating on the Electrochemical Properties of Ni-Rich NCA (LiNi0.8Co0.15Al0.05O2) Cathode Material for Lithium-Ion Batteries. Science of Advanced Materials, 2020, 12, 1581-1585.	0.7	1
14	Effects of Morphological Collapse of Sphere Secondary Particles on Electrochemical Properties of a LiNi_{0.83}Co_{0.11}Mn_{0.06}O₂ Cathode Material for Lithium-Ion Batteries. Science of Advanced Materials, 2020, 12, 1278-1282.	0.7	2
15	Electrochemical Properties of Micro-Sized Bismuth Anode for Sodium Ion Batteries. Science of Advanced Materials, 2020, 12, 1429-1432.	0.7	3
16	Electrochemical Properties of Sn/C Nanoparticles Fabricated by Pulse Wire Evaporation for Lithium Secondary Batteries. Journal of Nanoscience and Nanotechnology, 2020, 20, 7045-7050.	0.9	0
17	Si film electrodes adopting a dual thermal effect of metal-induced crystallization (MIC) and Kirkendall effect. Journal of Alloys and Compounds, 2019, 809, 151810.	5.5	4
18	Nano silicon encapsulated in modified copper as an anode for high performance lithium ion battery. Applied Surface Science, 2019, 481, 307-312.	6.1	10

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19	Composition Dependence of the Î² Phase Stability and Mechanical Properties of Tiâ€“Nb Thin Films. Journal of Nanoscience and Nanotechnology, 2019, 19, 3627-3630.	0.9	0
20	Fabrication of multilayer graphene-encapsulated Sn/SnO2 nanocomposite as an anode material for lithium-ion batteries and its electrochemical properties. Applied Surface Science, 2019, 481, 736-740.	6.1	15
21	Electrochemical Properties of Si Film Electrodes Containing TiNi Thin-Film Current Collectors. Shape Memory and Superelasticity, 2018, 4, 121-126.	2.2	2
22	Annealing effect on electrochemical properties of patterned Si film electrodes for thin-film batteries. Current Applied Physics, 2018, 18, S28-S32.	2.4	2
23	Effect of sodium salts on the cycling performance of tin anode in sodium ion batteries. Ionics, 2018, 24, 753-761.	2.4	21
24	Carbon nanotubes radially anchored on carbon fibers formed by polyacrylonitrile. Materials Research Bulletin, 2018, 97, 49-55.	5.2	3
25	Effect of surface coating on the electrochemical performance of cathode made of sulfurâ€“loaded TiO2 nanotube arrays. Journal of Alloys and Compounds, 2018, 737, 248-254.	5.5	6
26	A self-healing Sn anode with an ultra-long cycle life for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 22809-22818.	10.3	49
27	Effect of Ball Milling on Electrochemical Properties of Sulfur/Polyacrylonitrile (SPAN) Cathode in Li/S Battery. Journal of Nanoscience and Nanotechnology, 2018, 18, 6431-6436.	0.9	5
28	Electrochemical Properties of Micron-Sized SnO Anode Using a Glyme-Based Electrolyte for Sodium-Ion Battery. Journal of Nanoscience and Nanotechnology, 2018, 18, 6422-6426.	0.9	6
29	Characteristics of Sputter-Deposited Tiâ€“Niâ€“Cu Shape Memory Alloy Thin Films. Science of Advanced Materials, 2018, 10, 974-978.	0.7	0
30	Influence of the metal-induced crystallization on the structural and electrochemical properties of sputtered LiCoO2 thin films. Thin Solid Films, 2017, 641, 53-58.	1.8	6
31	Electrochemical properties of Sn/C nanoparticles fabricated by redox treatment and pulsed wire evaporation method. Applied Surface Science, 2017, 415, 14-18.	6.1	6
32	Facile fabrication of patterned Si film electrodes containing trench-structured Cu current collectors for thin-film batteries. Electrochimica Acta, 2017, 224, 649-659.	5.2	21
33	Electrochemical properties of sulfurized poly-acrylonitrile (SPAN) cathode containing carbon fiber current collectors. Surface and Coatings Technology, 2017, 326, 443-449.	4.8	8
34	Patterned Si Film Electrode Fabricated on Shape Memory Alloy. Journal of Nanoscience and Nanotechnology, 2017, 17, 8163-8168.	0.9	0
35	Preparation of Si Thin Film Electrode on Patterned Cu Current Collector and Its Electrochemical Properties. Journal of Nanoscience and Nanotechnology, 2016, 16, 10552-10557.	0.9	2
36	Electrochemical Properties of Si Film Electrodes Grown on Current Collectors with Reduced Cu₂O Nanostructures for Li Ion Battery. Journal of Nanoscience and Nanotechnology, 2016, 16, 10520-10525.	0.9	0

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37	Si film electrodes with surface-modified Cu current collectors for micro Li batteries. Materials Research Bulletin, 2016, 82, 87-91.	5.2	6
38	Long-term cycling stability of porous Sn anode for sodium-ion batteries. Journal of Power Sources, 2016, 317, 153-158.	7.8	74
39	Si film electrodes containing surface-modified Cu current collectors prepared by a low temperature oxidation-reduction process. Vacuum, 2016, 132, 130-137.	3.5	1
40	Electrochemical properties of Sn-based nanopowders synthesized by a pulsed wire evaporation method and effect of binder coating. Materials Research Bulletin, 2016, 82, 55-60.	5.2	2
41	Electrochemical Performance of Sn/SnO Nanoparticles with Coreâ€“Shell Structure as Anode Materials for Sodium-Ion and Lithium-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2016, 16, 10735-10739.	0.9	5
42	Microstructural and Electrochemical Properties of LiCoO₂ Thin Films Prepared by Metal-Induced Crystallization. Journal of Nanoscience and Nanotechnology, 2015, 15, 8187-8190.	0.9	4
43	Effect of sulfur content in a sulfur-activated carbon composite on the electrochemical properties of a lithium/sulfur battery. Materials Research Bulletin, 2015, 69, 24-28.	5.2	10
44	A hybrid solid electrolyte for flexible solid-state sodium batteries. Energy and Environmental Science, 2015, 8, 3589-3596.	30.8	204
45	Structural and Electrochemical Properties of Lithium Nickel Oxide Thin Films. Journal of Chemistry, 2014, 2014, 1-5.	1.9	3
46	Electrochemical properties of a full cell of lithium iron phosphate cathode using thin amorphous silicon anode. Solid State Ionics, 2014, 268, 256-260.	2.7	15
47	Synthesis of LiMn₂O₄ with Outstanding Lithiumâ€insertion Kinetics and Longâ€Term Stability. ChemElectroChem, 2014, 1, 1537-1542.	3.4	7
48	Electrochemical properties of monolithic nickel sulfide electrodes for use in sodium batteries. Materials Research Bulletin, 2014, 58, 190-194.	5.2	25
49	A layer-built rechargeable lithium ribbon-type battery for high energy density textile battery applications. Journal of Materials Chemistry A, 2014, 2, 1774-1780.	10.3	19
50	Nano Ni particle embedded Ni3S2 cathode prepared by melt spinning and ball milling processes. Journal of Alloys and Compounds, 2014, 614, 1-6.	5.5	5
51	Electrochemical Properties of Si Film Electrodes Grown on Current Collectors with CuO Nanostructures for Thin-Film Microbatteries. Journal of Nanoscience and Nanotechnology, 2014, 14, 9300-9306.	0.9	3
52	Microstructure and electrochemical properties of magnetron-sputtered LiCoO2/LiNiO2 multi-layer thin film electrode. Materials Research Bulletin, 2013, 48, 4993-4996.	5.2	6
53	Influence of the substrate texture on the structural and electrochemical properties of sputtered LiCoO2 thin films. Thin Solid Films, 2013, 546, 414-417.	1.8	12
54	Microstructure and martensitic transformation in Si-coated TiNi powders prepared by ball milling. Materials Research Bulletin, 2013, 48, 5070-5075.	5.2	2

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55	Si film electrodes prepared on discontinuous current collector. Thin Solid Films, 2013, 546, 410-413.	1.8	1
56	Degradation mechanism of room temperature Na/Ni3S2 cells using Ni3S2 electrodes prepared by mechanical alloying. Journal of Power Sources, 2013, 244, 764-770.	7.8	42
57	Crystallization and grain refinement of Ti30Ni20Cu (at%) alloy ribbons prepared by melt spinning. Journal of Alloys and Compounds, 2013, 577, S179-S183.	5.5	3
58	Martensitic transformation behavior of Tiâ€“Niâ€“Sn alloys. Journal of Alloys and Compounds, 2013, 577, S200-S204.	5.5	6
59	Electrochemical properties of Si film electrodes with TiNi shape memory alloy as a current collector. Journal of Alloys and Compounds, 2013, 577, S190-S194.	5.5	7
60	Protection Effect of ZrO₂ Coating Layer on LiCoO₂ Thin Film Fabricated by DC Magnetron Sputtering. Journal of Nanoscience and Nanotechnology, 2013, 13, 7152-7154.	0.9	9
61	The Effects of Substrate and Annealing on Structural and Electrochemical Properties in LiCoO₂ Thin Films Prepared by DC Magnetron Sputtering. Journal of Nanoscience and Nanotechnology, 2012, 12, 5937-5941.	0.9	3
62	Influences of Ti Film Thickness on Electrochemical Properties of Si/Ti/Cu Film Electrodes. Journal of Nanoscience and Nanotechnology, 2012, 12, 5962-5966.	0.9	0
63	Fabrication of LiCoO2 thin film cathodes by DC magnetron sputtering method. Materials Research Bulletin, 2012, 47, 2823-2826.	5.2	13
64	Improved electrochemical properties of patterned Si film electrodes. Microelectronic Engineering, 2012, 89, 104-108.	2.4	11
65	Patterned Si thin film electrodes for enhancing structural stability. Nanoscale Research Letters, 2012, 7, 20.	5.7	13
66	Dependence of Milling Time on Electrochemical Properties of Nano Si Electrodes Prepared by Ball-Milling. Journal of Nanoscience and Nanotechnology, 2011, 11, 6262-6265.	0.9	6
67	Electrochemical properties of Na/Ni3S2 cells with liquid electrolytes using various sodium salts. Current Applied Physics, 2011, 11, S11-S14.	2.4	17
68	The addition of iron to Ni3S2 electrode for sodium secondary battery. Current Applied Physics, 2011, 11, S215-S218.	2.4	27
69	Electrochemical properties of Si film electrodes deposited on electrochemically etched Cu substrate. Physica Scripta, 2010, T139, 014064.	2.5	0
70	Improved cycle performance of annealed Si/Ni/Cu film electrodes. Physica Scripta, 2010, T139, 014065.	2.5	0
71	Transformation temperatures and shape memory characteristics of a Tiâ€“45Niâ€“5Cu(at %) alloy annealed by Joule heating. Physica Scripta, 2010, T139, 014068.	2.5	1
72	Electrochemical properties of Liâ€“Feâ€“S ternary metal sulfide (lithium iron sulfide) synthesized via the molten salt method. Physica Scripta, 2010, T139, 014063.	2.5	6

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73	Electrochemical studies on polymer electrolytes based on poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td (fluoride) comparative study. Materials Research Bulletin, 2010, 45, 362-366.	5.2	34
74	Electrosprayed polyaniline as cathode material for lithium secondary batteries. Materials Research Bulletin, 2010, 45, 265-268.	5.2	20
75	Grain refinement of a rapidly solidified Tiâ€“30Niâ€“20Cu alloy by two-step annealing. Scripta Materialia, 2010, 63, 1001-1004.	5.2	5
76	Effect of processing parameters on the electrochemical properties of a polymer electrolyte prepared by the phase inversion process. Physica Scripta, 2010, T139, 014036.	2.5	2
77	Mechanical stability of Si thin film deposited on a Tiâ€“50.3Ni(at%) alloy. Journal of Alloys and Compounds, 2010, 497, L13-L16.	5.5	6
78	Doping of high concentration of Beryllium in GaAs layers, by molecular-beam epitaxy. Journal of Alloys and Compounds, 2010, 503, 71-75.	5.5	1
79	Shape memory effect-induced crack closure in Si thin film deposited on a Tiâ€“50.3Ni (at%) alloy substrate. Journal of Alloys and Compounds, 2010, 507, L8-L12.	5.5	5
80	ELECTROCHEMICALLY ACTIVE LITHIATED NICKEL OXIDE FILMS FABRICATED BY NOVEL THERMAL SYNTHESIS USING Ni/Li/Ni FILMS. Functional Materials Letters, 2009, 02, 37-40.	1.2	4
81	Catalytic Growth and Structural Characterization of Semiconducting <I>Î²</I>-Ga₂O₃ Nanowires. Journal of Nanoscience and Nanotechnology, 2009, 9, 3728-3733.	0.9	5
82	Surface-modified Si thin film electrode for Li ion batteries (LiFePO4/Si) by cluster-structured Ni under layer. Journal of Power Sources, 2009, 189, 738-742.	7.8	32
83	The growth behavior of Î²-Ga2O3 nanowires on the basis of catalyst size. Journal of Crystal Growth, 2009, 311, 1195-1200.	1.5	19
84	Ni sulfide/Ti50Ni50 electrode with the superelasticity. Journal of Power Sources, 2009, 189, 378-384.	7.8	9
85	The electrochemical properties of copper sulfide as cathode material for rechargeable sodium cell at room temperature. Journal of Power Sources, 2009, 189, 864-868.	7.8	90
86	Investigation of discharge reaction mechanism of lithium | liquid electrolyte | sulfur battery. Journal of Power Sources, 2009, 189, 1179-1183.	7.8	134
87	Morphological characteristics of Ni sulfides fabricated by chemical vapor deposition. Journal of Alloys and Compounds, 2009, 477, L24-L27.	5.5	6
88	Electrochemical properties of nickel-precipitated pyrite as cathode active material for lithium/pyrite cell. Journal of Alloys and Compounds, 2009, 485, 462-466.	5.5	21
89	Electrochemical and mechanical properties of superelastic electrode consisting of Ti substitute LiNiO2 film on Tiâ€“50Ni alloy. Journal of Alloys and Compounds, 2009, 488, L17-L20.	5.5	5
90	The discharge properties of Na/Ni3S2 cell at ambient temperature. Journal of Power Sources, 2008, 178, 852-856.	7.8	109

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91	Microstructures and mechanical properties of Tiâ€“45at.%Niâ€“5at.%Cu alloy ribbons containing Ti2Ni particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 483-484, 460-463.	5.6	4
92	Applications of Tiâ€“Ni alloys for secondary batteries. Journal of Alloys and Compounds, 2008, 449, 317-321.	5.5	14
93	Transformation behavior of Tiâ€“Niâ€“Cuâ€“Mo alloys. Journal of Alloys and Compounds, 2008, 449, 129-133.	5.5	14
94	Catalytic growth of single- and double-walled carbon nanotubes from Feâ€“Mo nanoparticles supported on MgO. Journal of Alloys and Compounds, 2008, 449, 269-273.	5.5	20
95	Influences of fabrication processes on electrochemical properties of Si thin film electrodes for Li ion microbatteries. Journal of Alloys and Compounds, 2008, 449, 308-312.	5.5	7
96	Electrochemical characteristics of Na/FeS2 battery by mechanical alloying. Journal of Alloys and Compounds, 2008, 449, 304-307.	5.5	55
97	Microstructures and Shape Memory Characteristics of a Nanostructured Ti-50.0Ni(at%) Alloy. Journal of Nanoscience and Nanotechnology, 2008, 8, 949-954.	0.9	0
98	Li0.98Ni0.7Ti0.3O1.92 cathode materials fabricated by thermal synthesis of Ni/Li/TiNi film. Physica Scripta, 2007, T129, 218-221.	2.5	0
99	Ti-content dependence of shape memory characteristics of Ti-Ni-Cu alloy ribbons. Proceedings of SPIE, 2007, , .	0.8	1
100	Microstructure and superelasticity of NiS/TiNi composite electrode. Proceedings of SPIE, 2007, , .	0.8	0
101	Electrochemical properties of sodium/pyrite battery at room temperature. Journal of Power Sources, 2007, 174, 1275-1278.	7.8	135
102	Electrochemical properties of lithium sulfur cells using PEO polymer electrolytes prepared under three different mixing conditions. Journal of Power Sources, 2007, 174, 745-750.	7.8	172
103	A modified mechanical activation synthesis for carbon-coated LiFePO4 cathode in lithium batteries. Materials Letters, 2007, 61, 3822-3825.	2.6	98
104	Effect of mechanical activation process parameters on the properties of LiFePO4 cathode material. Journal of Power Sources, 2007, 166, 211-218.	7.8	110
105	Nanocrystallization of a Tiâ€“50.0Ni(at.%) alloy by cold working and stress/strain behavior. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 531-535.	5.6	49
106	Stability of the B19 martensite in rapidly solidified Tiâ€“Niâ€“Cu alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 687-690.	5.6	5
107	The three-stage B2-R-B19-B19â€² and shape memory characteristics in Tiâ€“Niâ€“Cuâ€“Fe alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 500-503.	5.6	13
108	Discharge behavior of lithium/sulfur cell with TEGDME based electrolyte at low temperature. Journal of Power Sources, 2006, 163, 201-206.	7.8	132

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109	Solid state amorphization and nanocrystallization of a Tiâˆ’50.0 Ni(at.%) alloy. Metals and Materials International, 2006, 12, 173-179.	3.4	5
110	Transformation behavior and mechanical properties of a nanostructured Tiâˆ’50.0Ni(at.%) alloy. Metals and Materials International, 2006, 12, 181-187.	3.4	18
111	Lattice deformation and shape memory characteristics of Tiâ€“30Niâ€“20Cu(at.%) alloy ribbons. Scripta Materialia, 2006, 55, 597-600.	5.2	6
112	Effects of Ni film thickness on the structural stability of Si/Ni/Cu film electrodes. Materials Letters, 2006, 60, 90-93.	2.6	11
113	Structural and electrochemical properties of thermal sulfurized Niâ€“Ti alloy for the integration electrode. Materials Letters, 2006, 60, 643-645.	2.6	5
114	Transformation behavior and mechanical properties of a Tiâ€“43.0Niâ€“5.0Cuâ€“2.0Fe (at.%) alloy. Scripta Materialia, 2005, 53, 281-285.	5.2	13
115	Investigation of Self-Organized Steps and Terraces in SrTiO3(001) Substrate Inclined in [110] Direction by Scanning Tunneling Microscopy. Japanese Journal of Applied Physics, 2004, 43, 1555-1560.	1.5	4
116	Surface features of self-organized SrTiO3 (001) substrates inclined in [100] and [110] directions. Thin Solid Films, 2004, 464-465, 80-84.	1.8	11
117	Film thickness dependence on morphology of Fe films on self-organized SrTiO3(001) substrates with inclined angles. Science and Technology of Advanced Materials, 2004, 5, 89-94.	6.1	3