

Gyu-bong Cho

List of Publications by Year in descending order

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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	A hybrid solid electrolyte for flexible solid-state sodium batteries. <i>Energy and Environmental Science</i> , 2015, 8, 3589-3596.	30.8	204
2	Electrochemical properties of lithium sulfur cells using PEO polymer electrolytes prepared under three different mixing conditions. <i>Journal of Power Sources</i> , 2007, 174, 745-750.	7.8	172
3	Electrochemical properties of sodium/pyrite battery at room temperature. <i>Journal of Power Sources</i> , 2007, 174, 1275-1278.	7.8	135
4	Investigation of discharge reaction mechanism of lithium liquid electrolyte sulfur battery. <i>Journal of Power Sources</i> , 2009, 189, 1179-1183.	7.8	134
5	Discharge behavior of lithium/sulfur cell with TEGDME based electrolyte at low temperature. <i>Journal of Power Sources</i> , 2006, 163, 201-206.	7.8	132
6	Effect of mechanical activation process parameters on the properties of LiFePO ₄ cathode material. <i>Journal of Power Sources</i> , 2007, 166, 211-218.	7.8	110
7	The discharge properties of Na/Ni ₃ S ₂ cell at ambient temperature. <i>Journal of Power Sources</i> , 2008, 178, 852-856.	7.8	109
8	A modified mechanical activation synthesis for carbon-coated LiFePO ₄ cathode in lithium batteries. <i>Materials Letters</i> , 2007, 61, 3822-3825.	2.6	98
9	The electrochemical properties of copper sulfide as cathode material for rechargeable sodium cell at room temperature. <i>Journal of Power Sources</i> , 2009, 189, 864-868.	7.8	90
10	Long-term cycling stability of porous Sn anode for sodium-ion batteries. <i>Journal of Power Sources</i> , 2016, 317, 153-158.	7.8	74
11	Electrochemical characteristics of Na/FeS ₂ battery by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2008, 449, 304-307.	5.5	55
12	Nanocrystallization of a Ti-50.0Ni(at.%) alloy by cold working and stress/strain behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 438-440, 531-535.	5.6	49
13	A self-healing Sn anode with an ultra-long cycle life for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22809-22818.	10.3	49
14	Degradation mechanism of room temperature Na/Ni ₃ S ₂ cells using Ni ₃ S ₂ electrodes prepared by mechanical alloying. <i>Journal of Power Sources</i> , 2013, 244, 764-770.	7.8	42
15	Electrochemical studies on polymer electrolytes based on poly(vinylidene fluoride) comparative study. <i>Materials Research Bulletin</i> , 2010, 45, 362-366.	5.2	34
16	Surface-modified Si thin film electrode for Li ion batteries (LiFePO ₄ /Si) by cluster-structured Ni under layer. <i>Journal of Power Sources</i> , 2009, 189, 738-742.	7.8	32
17	The addition of iron to Ni ₃ S ₂ electrode for sodium secondary battery. <i>Current Applied Physics</i> , 2011, 11, S215-S218.	2.4	27
18	Electrochemical properties of monolithic nickel sulfide electrodes for use in sodium batteries. <i>Materials Research Bulletin</i> , 2014, 58, 190-194.	5.2	25

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19	Electrochemical properties of nickel-precipitated pyrite as cathode active material for lithium/pyrite cell. <i>Journal of Alloys and Compounds</i> , 2009, 485, 462-466.	5.5	21
20	Facile fabrication of patterned Si film electrodes containing trench-structured Cu current collectors for thin-film batteries. <i>Electrochimica Acta</i> , 2017, 224, 649-659.	5.2	21
21	Effect of sodium salts on the cycling performance of tin anode in sodium ion batteries. <i>Ionics</i> , 2018, 24, 753-761.	2.4	21
22	Catalytic growth of single- and double-walled carbon nanotubes from Fe@Mo nanoparticles supported on MgO. <i>Journal of Alloys and Compounds</i> , 2008, 449, 269-273.	5.5	20
23	Electrosprayed polyaniline as cathode material for lithium secondary batteries. <i>Materials Research Bulletin</i> , 2010, 45, 265-268.	5.2	20
24	Layered-like structure of TiO ₂ -Ti ₃ C ₂ Mxene as an efficient sulfur host for room-temperature sodium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160910.	5.5	20
25	The growth behavior of In ²⁺ -Ga ₂ O ₃ nanowires on the basis of catalyst size. <i>Journal of Crystal Growth</i> , 2009, 311, 1195-1200.	1.5	19
26	A layer-built rechargeable lithium ribbon-type battery for high energy density textile battery applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1774-1780.	10.3	19
27	Transformation behavior and mechanical properties of a nanostructured Ti-50Ni (at.%) alloy. <i>Metals and Materials International</i> , 2006, 12, 181-187.	3.4	18
28	Electrochemical properties of Na/Ni ₃ S ₂ cells with liquid electrolytes using various sodium salts. <i>Current Applied Physics</i> , 2011, 11, S11-S14.	2.4	17
29	High power Na ₃ V ₂ (PO ₄) ₃ symmetric full cell for sodium-ion batteries. <i>Nanoscale Advances</i> , 2020, 2, 5166-5170.	4.6	16
30	Electrochemical properties of a full cell of lithium iron phosphate cathode using thin amorphous silicon anode. <i>Solid State Ionics</i> , 2014, 268, 256-260.	2.7	15
31	Fabrication of multilayer graphene-encapsulated Sn/SnO ₂ nanocomposite as an anode material for lithium-ion batteries and its electrochemical properties. <i>Applied Surface Science</i> , 2019, 481, 736-740.	6.1	15
32	Applications of Ti-Ni alloys for secondary batteries. <i>Journal of Alloys and Compounds</i> , 2008, 449, 317-321.	5.5	14
33	Transformation behavior of Ti-Ni-Cu-Mo alloys. <i>Journal of Alloys and Compounds</i> , 2008, 449, 129-133.	5.5	14
34	Transformation behavior and mechanical properties of a Ti-43Ni-5.0Cu-2.0Fe (at.%) alloy. <i>Scripta Materialia</i> , 2005, 53, 281-285.	5.2	13
35	The three-stage B2-R-B19' and shape memory characteristics in Ti-Ni-Cu-Fe alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 438-440, 500-503.	5.6	13
36	Fabrication of LiCoO ₂ thin film cathodes by DC magnetron sputtering method. <i>Materials Research Bulletin</i> , 2012, 47, 2823-2826.	5.2	13

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37	Patterned Si thin film electrodes for enhancing structural stability. <i>Nanoscale Research Letters</i> , 2012, 7, 20.	5.7	13
38	Influence of the substrate texture on the structural and electrochemical properties of sputtered LiCoO ₂ thin films. <i>Thin Solid Films</i> , 2013, 546, 414-417.	1.8	12
39	Ultra-long cycle life of flexible Sn anode using DME electrolyte. <i>Journal of Alloys and Compounds</i> , 2021, 871, 159549.	5.5	12
40	Surface features of self-organized SrTiO ₃ (001) substrates inclined in [100] and [110] directions. <i>Thin Solid Films</i> , 2004, 464-465, 80-84.	1.8	11
41	Effects of Ni film thickness on the structural stability of Si/Ni/Cu film electrodes. <i>Materials Letters</i> , 2006, 60, 90-93.	2.6	11
42	Improved electrochemical properties of patterned Si film electrodes. <i>Microelectronic Engineering</i> , 2012, 89, 104-108.	2.4	11
43	Development and Evaluation of Sn Foil Anode for Sodium-Ion Batteries. <i>Small</i> , 2021, 17, e2102618.	10.0	11
44	Effect of sulfur content in a sulfur-activated carbon composite on the electrochemical properties of a lithium/sulfur battery. <i>Materials Research Bulletin</i> , 2015, 69, 24-28.	5.2	10
45	Nano silicon encapsulated in modified copper as an anode for high performance lithium ion battery. <i>Applied Surface Science</i> , 2019, 481, 307-312.	6.1	10
46	Ni sulfide/Ti ₅₀ Ni ₅₀ electrode with the superelasticity. <i>Journal of Power Sources</i> , 2009, 189, 378-384.	7.8	9
47	Protection Effect of ZrO ₂ Coating Layer on LiCoO ₂ Thin Film Fabricated by DC Magnetron Sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 7152-7154.	0.9	9
48	Electrochemical properties of sulfurized poly-acrylonitrile (SPAN) cathode containing carbon fiber current collectors. <i>Surface and Coatings Technology</i> , 2017, 326, 443-449.	4.8	8
49	Ultrahigh-rate nickel monosulfide anodes for sodium/potassium-ion storage. <i>Nanoscale</i> , 2021, 13, 10447-10454.	5.6	8
50	Influences of fabrication processes on electrochemical properties of Si thin film electrodes for Li ion microbatteries. <i>Journal of Alloys and Compounds</i> , 2008, 449, 308-312.	5.5	7
51	Electrochemical properties of Si film electrodes with TiNi shape memory alloy as a current collector. <i>Journal of Alloys and Compounds</i> , 2013, 577, S190-S194.	5.5	7
52	Synthesis of LiMn ₂ O ₄ with Outstanding Lithium-Insertion Kinetics and Long-Term Stability. <i>ChemElectroChem</i> , 2014, 1, 1537-1542.	3.4	7
53	A high rate and long-cycle-life anode based on micrometer-sized Pb powder for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161240.	5.5	7
54	Lattice deformation and shape memory characteristics of Ti-30Ni-20Cu(at.%) alloy ribbons. <i>Scripta Materialia</i> , 2006, 55, 597-600.	5.2	6

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55	Morphological characteristics of Ni sulfides fabricated by chemical vapor deposition. Journal of Alloys and Compounds, 2009, 477, L24-L27.	5.5	6
56	Electrochemical properties of Li-Fe-S ternary metal sulfide (lithium iron sulfide) synthesized via the molten salt method. Physica Scripta, 2010, T139, 014063.	2.5	6
57	Mechanical stability of Si thin film deposited on a Ti-50.3Ni(at%) alloy. Journal of Alloys and Compounds, 2010, 497, L13-L16.	5.5	6
58	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
59	Microstructure and electrochemical properties of magnetron-sputtered LiCoO ₂ /LiNiO ₂ multi-layer thin film electrode. Materials Research Bulletin, 2013, 48, 4993-4996.	5.2	6
60	Martensitic transformation behavior of Ti-Ni-Sn alloys. Journal of Alloys and Compounds, 2013, 577, S200-S204.	5.5	6
61	Si film electrodes with surface-modified Cu current collectors for micro Li batteries. Materials Research Bulletin, 2016, 82, 87-91.	5.2	6
62	Influence of the metal-induced crystallization on the structural and electrochemical properties of sputtered LiCoO ₂ thin films. Thin Solid Films, 2017, 641, 53-58.	1.8	6
63	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
64	Effect of surface coating on the electrochemical performance of cathode made of sulfur-loaded TiO ₂ nanotube arrays. Journal of Alloys and Compounds, 2018, 737, 248-254.	5.5	6
65	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
66	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
67	Stability of the B19 martensite in rapidly solidified Ti-Ni-Cu alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 687-690.	5.6	5
68	Solid state amorphization and nanocrystallization of a Ti-50.0 Ni(at.%) alloy. Metals and Materials International, 2006, 12, 173-179.	3.4	5
69	Structural and electrochemical properties of thermal sulfurized Ni-Ti alloy for the integration electrode. Materials Letters, 2006, 60, 643-645.	2.6	5
70	Catalytic Growth and Structural Characterization of Semiconducting Ga ₂ O ₃ Nanowires. Journal of Nanoscience and Nanotechnology, 2009, 9, 3728-3733.	0.9	5
71	Electrochemical and mechanical properties of superelastic electrode consisting of Ti substitute LiNiO ₂ film on Ti-50Ni alloy. Journal of Alloys and Compounds, 2009, 488, L17-L20.	5.5	5
72	Grain refinement of a rapidly solidified Ti-30Ni-20Cu alloy by two-step annealing. Scripta Materialia, 2010, 63, 1001-1004.	5.2	5

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73	Shape memory effect-induced crack closure in Si thin film deposited on a Ti-50.3Ni (at%) alloy substrate. <i>Journal of Alloys and Compounds</i> , 2010, 507, L8-L12.	5.5	5
74	Nano Ni particle embedded Ni ₃ S ₂ cathode prepared by melt spinning and ball milling processes. <i>Journal of Alloys and Compounds</i> , 2014, 614, 1-6.	5.5	5
75	Effect of Ball Milling on Electrochemical Properties of Sulfur/Polyacrylonitrile (SPAN) Cathode in Li/S Battery. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 6431-6436.	0.9	5
76	Electrochemical Properties of Silicon-Polyacrylonitrile (PAN) Composite Anodes for Flexible Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 7039-7044.	0.9	5
77	Electrochemical Performance of Sn/SnO Nanoparticles with Core-Shell Structure as Anode Materials for Sodium-Ion and Lithium-Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10735-10739.	0.9	5
78	Investigation of Self-Organized Steps and Terraces in SrTiO ₃ (001) Substrate Inclined in [110] Direction by Scanning Tunneling Microscopy. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 1555-1560.	1.5	4
79	Microstructures and mechanical properties of Ti-45at.%Ni-5at.%Cu alloy ribbons containing Ti ₂ Ni particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 483-484, 460-463.	5.6	4
80	ELECTROCHEMICALLY ACTIVE LITHIATED NICKEL OXIDE FILMS FABRICATED BY NOVEL THERMAL SYNTHESIS USING Ni/Li/Ni FILMS. <i>Functional Materials Letters</i> , 2009, 02, 37-40.	1.2	4
81	Microstructural and Electrochemical Properties of LiCoO ₂ Thin Films Prepared by Metal-Induced Crystallization. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 8187-8190.	0.9	4
82	Si film electrodes adopting a dual thermal effect of metal-induced crystallization (MIC) and Kirkendall effect. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151810.	5.5	4
83	Film thickness dependence on morphology of Fe films on self-organized SrTiO ₃ (001) substrates with inclined angles. <i>Science and Technology of Advanced Materials</i> , 2004, 5, 89-94.	6.1	3
84	The Effects of Substrate and Annealing on Structural and Electrochemical Properties in LiCoO ₂ Thin Films Prepared by DC Magnetron Sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 5937-5941.	0.9	3
85	Crystallization and grain refinement of Ti ₃₀ Ni ₂₀ Cu (at%) alloy ribbons prepared by melt spinning. <i>Journal of Alloys and Compounds</i> , 2013, 577, S179-S183.	5.5	3
86	Structural and Electrochemical Properties of Lithium Nickel Oxide Thin Films. <i>Journal of Chemistry</i> , 2014, 2014, 1-5.	1.9	3
87	Electrochemical Properties of Si Film Electrodes Grown on Current Collectors with CuO Nanostructures for Thin-Film Microbatteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 9300-9306.	0.9	3
88	Carbon nanotubes radially anchored on carbon fibers formed by polyacrylonitrile. <i>Materials Research Bulletin</i> , 2018, 97, 49-55.	5.2	3
89	Optimization of carbon coating thickness to prevent crack generation in Sn nanoparticles during charge/discharge process and their electrochemical properties. <i>Journal of Alloys and Compounds</i> , 2020, 843, 155892.	5.5	3
90	Electrochemical Properties of Micro-Sized Bismuth Anode for Sodium Ion Batteries. <i>Science of Advanced Materials</i> , 2020, 12, 1429-1432.	0.7	3

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91	Effect of processing parameters on the electrochemical properties of a polymer electrolyte prepared by the phase inversion process. <i>Physica Scripta</i> , 2010, T139, 014036.	2.5	2
92	Microstructure and martensitic transformation in Si-coated TiNi powders prepared by ball milling. <i>Materials Research Bulletin</i> , 2013, 48, 5070-5075.	5.2	2
93	Preparation of Si Thin Film Electrode on Patterned Cu Current Collector and Its Electrochemical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10552-10557.	0.9	2
94	Electrochemical properties of Sn-based nanopowders synthesized by a pulsed wire evaporation method and effect of binder coating. <i>Materials Research Bulletin</i> , 2016, 82, 55-60.	5.2	2
95	Electrochemical Properties of Si Film Electrodes Containing TiNi Thin-Film Current Collectors. <i>Shape Memory and Superelasticity</i> , 2018, 4, 121-126.	2.2	2
96	Annealing effect on electrochemical properties of patterned Si film electrodes for thin-film batteries. <i>Current Applied Physics</i> , 2018, 18, S28-S32.	2.4	2
97	Thermally-enhanced microstructures of Si/TiNi film electrodes for improved electrochemical properties. <i>Journal of Alloys and Compounds</i> , 2021, 860, 158507.	5.5	2
98	Free-Standing NiS ₂ Electrode as High-Rate Anode Material for Sodium-Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 7119-7123.	0.9	2
99	Effects of Morphological Collapse of Sphere Secondary Particles on Electrochemical Properties of a LiNi _{0.83} Co _{0.11} Mn _{0.06} O ₂ Cathode Material for Lithium-Ion Batteries. <i>Science of Advanced Materials</i> , 2020, 12, 1278-1282.	0.7	2
100	Ti-content dependence of shape memory characteristics of Ti-Ni-Cu alloy ribbons. <i>Proceedings of SPIE</i> , 2007, , .	0.8	1
101	Transformation temperatures and shape memory characteristics of a Ti-45Ni-5Cu(at %) alloy annealed by Joule heating. <i>Physica Scripta</i> , 2010, T139, 014068.	2.5	1
102	Doping of high concentration of Beryllium in GaAs layers, by molecular-beam epitaxy. <i>Journal of Alloys and Compounds</i> , 2010, 503, 71-75.	5.5	1
103	Si film electrodes prepared on discontinuous current collector. <i>Thin Solid Films</i> , 2013, 546, 410-413.	1.8	1
104	Si film electrodes containing surface-modified Cu current collectors prepared by a low temperature oxidation-reduction process. <i>Vacuum</i> , 2016, 132, 130-137.	3.5	1
105	Enhanced Electrochemical Performances of Ni-Rich LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ Cathode Materials by Ti Doping or/and Al(OH) ₃ Coating. <i>Science of Advanced Materials</i> , 2020, 12, 1283-1288.	0.7	1
106	The Effect of Si Doping or/and Ti Coating on the Electrochemical Properties of Ni-Rich NCA (LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂) Cathode Material for Lithium-Ion Batteries. <i>Science of Advanced Materials</i> , 2020, 12, 1581-1585.	0.7	1
107	Li _{0.98} Ni _{0.7} Ti _{0.3} O _{1.92} cathode materials fabricated by thermal synthesis of Ni/Li/TiNi film. <i>Physica Scripta</i> , 2007, T129, 218-221.	2.5	0
108	Microstructure and superelasticity of NiS/TiNi composite electrode. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0

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109	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
110	Electrochemical properties of Si film electrodes deposited on electrochemically etched Cu substrate. Physica Scripta, 2010, T139, 014064.	2.5	0
111	Improved cycle performance of annealed Si/Ni/Cu film electrodes. Physica Scripta, 2010, T139, 014065.	2.5	0
112	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
113	Electrochemical Properties of Si Film Electrodes Grown on Current Collectors with Reduced Cu ₂ O Nanostructures for Li Ion Battery. Journal of Nanoscience and Nanotechnology, 2016, 16, 10520-10525.	0.9	0
114	Patterned Si Film Electrode Fabricated on Shape Memory Alloy. Journal of Nanoscience and Nanotechnology, 2017, 17, 8163-8168.	0.9	0
115	Composition Dependence of the β^2 Phase Stability and Mechanical Properties of Ti-Nb Thin Films. Journal of Nanoscience and Nanotechnology, 2019, 19, 3627-3630.	0.9	0
116	Characteristics of Sputter-Deposited Ti-Ni-Cu Shape Memory Alloy Thin Films. Science of Advanced Materials, 2018, 10, 974-978.	0.7	0
117	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