Jian Chen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	?-Fe2O3 Nanotubes in Gas Sensor and Lithium-Ion Battery Applications. Advanced Materials, 2005, 17, 582-586.	11.1	1,564
2	All-MXene-Based Integrated Electrode Constructed by Ti ₃ C ₂ Nanoribbon Framework Host and Nanosheet Interlayer for High-Energy-Density Li–S Batteries. ACS Nano, 2018, 12, 2381-2388.	7.3	340
3	Electrically conductive hydrogels for flexible energy storage systems. Progress in Polymer Science, 2019, 88, 220-240.	11.8	260
4	<i>In situ</i> synthesis of CNTs@Ti ₃ C ₂ hybrid structures by microwave irradiation for high-performance anodes in lithium ion batteries. Journal of Materials Chemistry A, 2018, 6, 3543-3551.	5.2	133
5	Indentation fracture and toughness assessment for thin optical coatings on glass. Journal Physics D: Applied Physics, 2007, 40, 5401-5417.	1.3	109
6	On the factors affecting the critical indenter penetration for measurement of coating hardness. Vacuum, 2009, 83, 911-920.	1.6	108
7	Modulating Mn4+ Ions and Oxygen Vacancies in Nonstoichiometric LaMnO3 Perovskite by a Facile Sol-Gel Method as High-Performance Supercapacitor Electrodes. Electrochimica Acta, 2017, 253, 422-429.	2.6	91
8	Lithiophilic metallic nitrides modified nickel foam by plasma for stable lithium metal anode. Energy Storage Materials, 2019, 23, 539-546.	9.5	88
9	Fabrication of Lithiophilic Copper Foam with Interfacial Modulation toward High-Rate Lithium Metal Anodes. ACS Applied Materials & Interfaces, 2018, 10, 27764-27770.	4.0	78
10	On the relationship between plastic zone radius and maximum depth during nanoindentation. Surface and Coatings Technology, 2006, 201, 4289-4293.	2.2	73
11	Plasma-Introduced Oxygen Defects Confined in Li ₄ Ti ₅ O ₁₂ Nanosheets for Boosting Lithium-Ion Diffusion. ACS Applied Materials & Interfaces, 2019, 11, 17384-17392.	4.0	72
12	Boosting sodium storage properties of titanium dioxide by a multiscale design based on MOF-derived strategy. Energy Storage Materials, 2019, 17, 126-135.	9.5	68
13	Self-Assembled 3D MnO ₂ Nanosheets@Delaminated-Ti ₃ C ₂ Aerogel as Sulfur Host for Lithium–Sulfur Battery Cathodes. ACS Applied Energy Materials, 2019, 2, 705-714.	2.5	65
14	Three-dimensional nitrogen-doped graphene wrapped LaMnO3 nanocomposites as high-performance supercapacitor electrodes. Journal of Alloys and Compounds, 2018, 740, 148-155.	2.8	60
15	Freestanding nitrogen-doped d-Ti3C2/reduced graphene oxide hybrid films for high performance supercapacitors. Electrochimica Acta, 2019, 300, 349-356.	2.6	57
16	Heteroatom-doped porous carbons derived from lotus pollen for supercapacitors: Comparison of three activators. Journal of Alloys and Compounds, 2021, 859, 158390.	2.8	56
17	Hierarchically porous carbon-coated SnO2@graphene foams as anodes for lithium ion storage. Carbon, 2017, 124, 565-575.	5.4	55
18	Fabrication of Li4Ti5O12-TiO2 Nanosheets with Structural Defects as High-Rate and Long-Life Anodes for Lithium-Ion Batteries. Scientific Reports, 2017, 7, 2960.	1.6	54

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19	Porous graphene paper for supercapacitor applications. Journal of Materials Science and Technology, 2017, 33, 793-799.	5.6	54
20	In–situ hybridization of polyaniline nanofibers on functionalized reduced graphene oxide films for high-performance supercapacitor. Electrochimica Acta, 2018, 285, 221-229.	2.6	54
21	Improving the wear properties of Stellite 21 alloy by plasma surface alloying with carbon and nitrogen. Wear, 2008, 264, 157-165.	1.5	53
22	Enhancing hydrogen storage performances of MgH ₂ by Ni nano-particles over mesoporous carbon CMK-3. Nanotechnology, 2018, 29, 265705.	1.3	52
23	A multidimensional nanostructural design towards electrochemically stable and mechanically strong hydrogel electrodes. Nanoscale, 2020, 12, 6637-6643.	2.8	49
24	High-efficient catalytic reduction of 4-nitrophenol based on reusable Ag nanoparticles/graphene-loading loofah sponge hybrid. Nanotechnology, 2018, 29, 315702.	1.3	45
25	Effects of mechanical properties and layer structure on the cyclic dynamic loading of TiN-based coatings. Surface and Coatings Technology, 2011, 206, 522-529.	2.2	44
26	3D d-Ti3C2 xerogel framework decorated with core-shell SnO2@C for high-performance lithium-ion batteries. Electrochimica Acta, 2018, 285, 94-102.	2.6	44
27	MXene/CNTs films prepared by electrophoretic deposition for supercapacitor electrodes. Journal of Electroanalytical Chemistry, 2018, 830-831, 1-6.	1.9	43
28	Microwave-assisted synthesis of SnO2-Ti3C2 nanocomposite for enhanced supercapacitive performance. Materials Letters, 2017, 209, 122-125.	1.3	38
29	Stabilizing plasma-induced highly nitrogen-deficient g-C3N4 by heteroatom-refilling for excellent lithium-ion battery anodes. Chemical Engineering Journal, 2022, 427, 131032.	6.6	38
30	Nanomechanical properties of graphene on poly(ethylene terephthalate) substrate. Carbon, 2013, 55, 144-150.	5.4	36
31	Corrosion and degradation mechanism of Ag/Ti3AlC2 composites under dynamic electric arc discharge. Corrosion Science, 2019, 156, 147-160.	3.0	35
32	Effects of deposition temperature on the nanomechanical properties of refractory high entropy TaNbHfZr films. Journal of Alloys and Compounds, 2019, 797, 1025-1030.	2.8	35
33	In-situ thermally fabricated porous and heterogeneous yolk-shell selenides wrapped in carbon as anode for high-performance hybrid lithium-ion capacitors. Carbon, 2020, 166, 91-100.	5.4	35
34	Superhard TiAlCN coatings prepared by radio frequency magnetron sputtering. Thin Solid Films, 2015, 584, 283-288.	0.8	32
35	Load sensitivity in repetitive nano-impact testing of TiN and AlTiN coatings. Surface and Coatings Technology, 2016, 308, 289-297.	2.2	31
36	Effects of loading rate on development of pile-up during indentation creep of polycrystalline copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 656, 216-221.	2.6	31

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37	A Flexible Multi-Channel Hollow CNT/Carbon Nanofiber Composites with S/N Co-Doping for Sodium/Potassium Ion Energy Storage. ACS Applied Materials & Interfaces, 2021, 13, 44369-44378.	4.0	31
38	Toward advanced sodium-ion batteries: a wheel-inspired yolk–shell design for large-volume-change anode materials. Journal of Materials Chemistry A, 2018, 6, 13153-13163.	5.2	30
39	Fabrication of continuous conductive network for Li4Ti5O12 anode by Cu-doping and graphene wrapping to boost lithium storage. Journal of Alloys and Compounds, 2019, 780, 1-7.	2.8	29
40	Plasma modulated MOF-derived TiO2/C for enhanced lithium storage. Chemical Engineering Journal, 2021, 417, 128003.	6.6	29
41	Atomistic insights into the prismatic dislocation loop on Al (1 0 0) during nanoindentation investigated by molecular dynamics. Computational Materials Science, 2018, 143, 384-390.	1.4	28
42	Controllable Synthesis of Anatase TiO ₂ Nanosheets Grown on Amorphous TiO ₂ /C Frameworks for Ultrafast Pseudocapacitive Sodium Storage. ACS Applied Materials & Interfaces, 2020, 12, 43813-43823.	4.0	28
43	Plasma-enabled synthesis and modification of advanced materials for electrochemical energy storage. Energy Storage Materials, 2022, 50, 161-185.	9.5	28
44	Oxygen/sulfur decorated 2D MXene V2C for promising lithium ion battery anodes. Materials Today Communications, 2020, 22, 100713.	0.9	27
45	The role of mechanical pressure on dendritic surface toward stable lithium metal anode. Nano Energy, 2020, 77, 105098.	8.2	27
46	Scalable synthesis of nano-Si embedded in porous C and its enhanced performance as anode of Li-ion batteries. Electrochimica Acta, 2017, 249, 166-172.	2.6	26
47	Structural hybridization of ternary (0D, 1D and 2D) composites as anodes for high-performance Li-ion batteries. Energy Storage Materials, 2018, 13, 293-302.	9.5	26
48	Tribological performance of graphite-like carbon films with varied thickness. Tribology International, 2020, 149, 105586.	3.0	26
49	An investigation into the correlation between nano-impact resistance and erosion performance of EB-PVD thermal barrier coatings on thermal ageing. Surface and Coatings Technology, 2012, 206, 4992-4998.	2.2	25
50	Au nanoparticles decorated graphene/nickel foam nanocomposite for sensitive detection of hydrogen peroxide. Journal of Materials Science and Technology, 2017, 33, 246-250.	5.6	25
51	Investigation on dynamic hardness and high strain rate indentation size effects in aluminium (110) using nano-impact. Mechanics of Materials, 2019, 133, 55-62.	1.7	25
52	Reducing and multiple-element doping of graphene oxide using active screen plasma treatments. Carbon, 2015, 95, 338-346.	5.4	24
53	Graphene Containing Composite Coatings as a Protective Coatings against Hydrogen Embrittlement in Quenching & Partitioning High Strength Steel. Journal of the Electrochemical Society, 2016, 163, D160-D166.	1.3	24
54	A study of low temperature mechanical properties and creep behaviour of polypropylene using a new sub-ambient temperature nanoindentation test platform. Journal Physics D: Applied Physics, 2010, 43, 425404.	1.3	23

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55	The influence of dehydration on the interfacial bonding, microstructure and mechanical properties of poly(vinyl alcohol)/graphene oxide nanocomposites. Carbon, 2015, 94, 845-855.	5.4	22
56	Anisotropic properties of Ag/Ti3AlC2 electrical contact materials prepared by equal channel angular pressing. Journal of Alloys and Compounds, 2019, 784, 431-438.	2.8	22
57	Microstructure evolution, oxidation behavior and corrosion mechanism of Ag/Ti2SnC composite during dynamic electric arc discharging. Journal of Alloys and Compounds, 2019, 785, 1086-1096.	2.8	22
58	Microwave-assisted synthesis of three-dimensional MXene derived metal oxide/carbon nanotube/iron hybrids for enhanced lithium-ions storage. Journal of Electroanalytical Chemistry, 2019, 835, 205-211.	1.9	22
59	Straining copper foils to regulate the nucleation of lithium for stable lithium metal anode. Energy Storage Materials, 2022, 44, 278-284.	9.5	22
60	Damage mechanisms evolution of TiN/Ti multilayer films with different modulation periods in cyclic impact conditions. Applied Surface Science, 2021, 540, 148366.	3.1	20
61	Fabrication and Corrosion Performances of Pure Ni and Ni-Based Coatings Containing Rare Earth Element Ce and Graphene by Reverse Pulse Electrodeposition. Journal of the Electrochemical Society, 2017, 164, D75-D81.	1.3	19
62	Nitrogen-Doped Carbon-Coated TiO ₂ /TiF ₃ Heterostructure Nanoboxes with Enhanced Lithium and Sodium Storage Performance. ACS Applied Energy Materials, 2020, 3, 4738-4745.	2.5	19
63	lonic conductivities of lithium borohydride-lithium nitride composites. Solid State Ionics, 2017, 304, 150-155.	1.3	18
64	An investigation into the dynamic indentation response of metallic materials. Journal of Materials Science, 2016, 51, 8310-8322.	1.7	16
65	Li ₂ NHâ€LiBH ₄ : a Complex Hydride with Near Ambient Hydrogen Adsorption and Fast Lithium Ion Conduction. Chemistry - A European Journal, 2018, 24, 1342-1347.	1.7	16
66	The hydrogen storage performance of a 4MgH2LiAlH4TiH2 composite system. Journal of Alloys and Compounds, 2016, 676, 557-564.	2.8	15
67	Carbon-coated Li ₄ Ti ₅ O ₁₂ –TiO ₂ microspheres as anode materials for lithium ion batteries. Surface Engineering, 2017, 33, 559-566.	1.1	15
68	Mechanical properties of porous TiO ₂ ceramics fabricated by freeze casting process. Advances in Applied Ceramics, 2013, 112, 436-441.	0.6	14
69	Investigation on the interfacial stability of multilayered Cu–W films at elevated deposition temperatures during co-sputtering. Vacuum, 2019, 166, 162-169.	1.6	14
70	Design and characterisation of an advanced duplex system based on carbon S-phase case and GiC coatings for 316LVM austenitic stainless steel. Surface and Coatings Technology, 2009, 203, 1273-1280.	2.2	13
71	Study on xLiBH4-NaBH4 (xÂ=Â1.6, 2.3, and 4) composites with enhanced lithium ionic conductivity. Journal of Alloys and Compounds, 2017, 729, 936-941.	2.8	13
72	Failure mechanism and protective role of ultrathin ta-C films on Si (100) during cyclic nano-impact. Surface and Coatings Technology, 2019, 364, 32-42.	2.2	13

IF # ARTICLE CITATIONS Solution-processable Li₁₀GeP₂S₁₂ solid electrolyte for a composite electrode in all-solid-state lithium batteries. Sustainable Energy and Fuels, 2021, 5, 1211-1221. SnO₂ nanorods encapsulated within a 3D interconnected graphene network architecture 74 2.5 12 as high-performance lithium-ion battery anodes. Sustainable Energy and Fuels, 2018, 2, 262-270. Effects of helium implantation on mechanical properties of (Al _{0.31} Cr _{0.20} Fe) Tj ETQq1, 0.784314 rgBT Fabrication of multiscale structured hydrophobic NiCrZrN coating with high abrasion resistance 76 2.8 12 using multi-arc ion plating. Journal of Álloys and Compounds, 2020, 812, 152140. Threeâ€Dimensional Wettable Carbon Felt Host for Stable Lithium Metal Anode. Energy Technology, 1.8 2020, 8, 2000604. Amino-functionalized MOF derived porous Fe₃O₄/N-doped C encapsulated 78 within a graphene network by self-assembling for enhanced Li-ion storage. Sustainable Energy and 2.5 12 Fuels, 2020, 4, 3519-3527. Investigation of the nanomechanical properties of nylon 6 and nylon 6/clay nanocomposites at 79 1.3 sub-ambient temperatures. Journal of Experimental Nanoscience, 2016, 11, 695-706. ZnO nanosheet-assisted immobilization of Ag nanoparticles on graphene/Ni foam for highly efficient 80 1.7 11 reduction of 4-nitrophenol. RSC Advances, 2017, 7, 16924-16930. LiBH4-NaX (X=Cl, I) composites with enhanced lithium ionic conductivity. Journal of Alloys and 2.8 Compounds, 2018, 764, 307-313. Fretting wear behavior of graphite-like carbon films with bias-graded deposition. Applied Surface 82 3.111 Science, 2019, 494, 929-940. Low Temperature Nano-Tribological Study on a Functionally Graded Tribological Coating Using 10 Nanoscratch Tests. Tribology Letters, 2011, 43, 351-360. <i>In-situ</i> observation of nanomechanical behavior arising from critical-temperature-induced phase transformation in Ba(Zr0.2Ti0.8)O3-0.5(Ba0.7Ca0.3)TiO3 thin film. Applied Physics Letters, 2013, 84 1.510 103, . The effects of Pd and/or Zr additives on the structures and cyclic stabilities of Mg50Ni50-based 3.8 electrode alloys. International Journal of Hydrogen Energy, 2015, 40, 2768-2774. Intrinsic mechanical properties and fracture mechanism of monolayer penta-graphene investigated by 86 1.4 10 nanoindentation: A molecular dynamics study. Computational Materials Science, 2019, 169, 109145. Theoretical Prediction and Experimentally Realizing Cathodic Doping of Sulfur in Li₄Ti₅O₁₂ for Superior Lithium Storage Performance. ACS Applied Energy Materials, 2021, 4, 5995-6004. The electrochemical hydrogen storage performances of Mg x Co 100–x (xÂ=Â40, 45, 50, 55, 60, 63) body-centered cubic alloys and their Pd-doped system. International Journal of Hydrogen Energy, 2016, 88 3.8 9 41, 1089-1097. Ionic liquid assisted multi-heteroatom doping in core-shell ZnFe2O4@rGO with highly reversible 2.8 lithiation/delithiation kinetics. Journal of Alloys and Compounds, 2020, 848, 156593. Effects of thermomechanical treatments on the microstructures and mechanical properties of 90 GTA-welded AZ31B magnesium alloy. International Journal of Minerals, Metallurgy and Materials, 2012, 2.4 8 19, 945-950.

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91	The reversible hydrogen storage performances of Mg50Co50 and Mg50Co45Pd5 alloys with body-centered cubic phase in electrochemical system. International Journal of Hydrogen Energy, 2015, 40, 3944-3952.	3.8	8
92	The ionic conductivities, stabilities and ionic mobilities of xLiBH4-Li2NH (xÂ=Â1, 2, 4) composites as fast ion conductor. Journal of Alloys and Compounds, 2017, 695, 2894-2901.	2.8	8
93	The lithium ionic conductivity of 2LiBH4-MgH2 composite as solid electrolyte. Inorganic Chemistry Communication, 2017, 83, 62-65.	1.8	8
94	Hydrogen storage performances and reaction mechanism of non-stoichiometric compound Li1.3Na1.7AlH6 doped with Ti3C2. Chemical Physics, 2018, 513, 135-140.	0.9	7
95	Investigation on the phase transformation of monocrystalline silicon during nanoindentation at cryogenic temperature by molecular dynamics simulation. Physica B: Condensed Matter, 2019, 555, 139-144.	1.3	7
96	Investigation of the relationship between work done during indentation and the hardness and Young's modulus obtained by indentation testing. International Journal of Materials Research, 2008, 99, 852-857.	0.1	6
97	Electrochemical performances of Mg45M5Co50 (M=Pd, Zr) ternary hydrogen storage electrodes. Transactions of Nonferrous Metals Society of China, 2016, 26, 1388-1395.	1.7	6
98	The electrochemical hydrogen storage properties of Mg67â^'Pd Co33 (x=1, 3, 5, 7) electrodes with BCC phase. Journal of Alloys and Compounds, 2016, 662, 396-403.	2.8	6
99	Facile preparation of surfactant-free Au NPs/RGO/Ni foam for degradation of 4-nitrophenol and detection of hydrogen peroxide. Nanotechnology, 2018, 29, 235706.	1.3	6
100	A fast approach to the synthesis of MO/CNT/Fe hybrid nanostructures built on MXene for enhanced Li-ion uptake. Ceramics International, 2018, 44, 22456-22461.	2.3	6
101	Nano-mechanical properties of TaNbHfZr metallic glass films. Surface Engineering, 2019, 35, 728-735.	1.1	6
102	Dynamic fracture of CrN coating by highly-resolved nano-impact. Surface and Coatings Technology, 2020, 383, 125288.	2.2	6
103	A self-optimized dual zinc/copper-electrolyte anodic interfaces by mechanical rolling toward zinc ion batteries with high capacity and long cycle life. Materials Today Energy, 2022, 23, 100897.	2.5	6
104	Corrosion and corrosion wear behaviour of plasma carburised Stellite 21 Co–Cr alloy. Tribology - Materials, Surfaces and Interfaces, 2009, 3, 24-30.	0.6	5
105	Nanomechanical properties of duplex treated 42CrMo4 steel. Surface Engineering, 2013, 29, 462-467.	1.1	5
106	Lead-free 0.5Ba(Ti0.8Zr0.2)O3-0.5(Ba0.7Ca0.3)TiO3 thin films with enhanced electric properties fabricated from optimized sol-gel systems. Materials Chemistry and Physics, 2017, 186, 528-533.	2.0	5
107	Ternary LiBH4-NaBH4-MgH2 composite as fast ionic conductor. Solid State Ionics, 2018, 324, 109-113.	1.3	5
108	Effects of periods on the evolution of microstructure and mechanical properties of multilayered Cu-W films during thermal annealing. Surface and Coatings Technology, 2020, 381, 125179.	2.2	5

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109	Probing polymer chain constraint and synergistic effects in nylon 6-clay nanocomposites and nylon 6-silica flake sub-micro composites with nanomechanics. Nanocomposites, 2015, 1, 185-194.	2.2	4
110	Interfacial modulation achieving a flexible anode of FeP/N-doped C@carbon cloth with a robust structure for high areal capacity lithium storage. Sustainable Energy and Fuels, 2021, 5, 5247-5256.	2.5	4
111	Graphene-based anode materials for lithium-ion batteries. , 2020, , 139-164.		3
112	Decorating carbon felt with oxides by dipping as dendrite-free host for lithium metal anode. Ionics, 2020, 26, 4381-4390.	1.2	3
113	Environmental Nanomechanical Testing of Polymers and Nanocomposites. Solid Mechanics and Its Applications, 2014, , 63-84.	0.1	3
114	Formation and characterisations of S phase in plasma carburised high carbon Stellite 21 CoCr alloy. Surface Engineering, 2010, 26, 233-241.	1.1	2
115	Effects of TiO ₂ content on the microstructure, mechanical properties and photocatalytic activity of three dimensional TiO ₂ –Graphene composite prepared by hydrothermal reaction. Materials Research Express, 2016, 3, 075602.	0.8	2
116	Dynamic contact behavior of graphite-like carbon films on ductile substrate under nano/micro-scale impact. Surface and Coatings Technology, 2021, 422, 127515.	2.2	2
117	Preparations and de/re-hydrogenation properties of LixNa3-xAlH6 (x=0.9–1.3) non-stoichiometric compounds. Journal of Alloys and Compounds, 2017, 729, 648-654.	2.8	1
118	Structure, Mechanical and Electrochemical Properties of Thermally Reduced Graphene Oxide-poly (Vinyl Alcohol) Foams. Periodica Polytechnica: Chemical Engineering, 2017, , .	0.5	1
119	Temperature and frequency dependences of the electric properties of CLBO crystals. Journal of Alloys and Compounds, 2014, 591, 377-382.	2.8	Ο