Liu Jianhua

List of Publications by Year
in descending order

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111 papers	4,167 citations	94433 37 h-index	123424 61 g-index
111 all docs	111 docs citations	111 times ranked	6181 citing authors

#	Article	IF	Citations
1	Mesoporous NiCo2O4 nanoneedles grown on 3D graphene-nickel foam for supercapacitor and methanol electro-oxidation. Electrochimica Acta, 2015, 151, 99-108.	5.2	222
2	Vertically Aligned Sulfurâ€“Graphene Nanowalls on Substrates for Ultrafast Lithiumâ€“Sulfur Batteries. Nano Letters, 2015, 15, 3073-3079.	9.1	183
3	Inorganic CsPbI₃ Perovskite Coating on PbS Quantum Dot for Highly Efficient and Stable Infrared Light Converting Solar Cells. Advanced Energy Materials, 2018, 8, 1702049.	19.5	143
4	Polyhedralâ€Like NiMnâ€Layered Double Hydroxide/Porous Carbon as Electrode for Enhanced Electrochemical Performance Supercapacitors. Small, 2017, 13, 1702616.	10.0	140
5	Silane modification of titanium dioxide-decorated graphene oxide nanocomposite for enhancing anticorrosion performance of epoxy coatings on AA-2024. Journal of Alloys and Compounds, 2018, 744, 728-739.	5.5	132
6	Polyaniline nanocone arrays synthesized on three-dimensional graphene network by electrodeposition for supercapacitor electrodes. Carbon, 2015, 87, 98-105.	10.3	129
7	Dual Passivation of CsPbI₃ Perovskite Nanocrystals with Amino Acid Ligands for Efficient Quantum Dot Solar Cells. Small, 2020, 16, e2001772.	10.0	127
8	Polyaniline-Grafted Graphene Hybrid with Amide Groups and Its Use in Supercapacitors. Journal of Physical Chemistry C, 2012, 116, 19699-19708.	3.1	124
9	Multifunctional Chemical Bridge and Defect Passivation for Highly Efficient Inverted Perovskite Solar Cells. ACS Energy Letters, 0, , 1596-1606.	17.4	115
10	From Commercial Sponge Toward 3D Grapheneâ€“Silicon Networks for Superior Lithium Storage. Advanced Energy Materials, 2015, 5, 1500289.	19.5	114
11	Preparation of an Amide Group-Connected Grapheneâ€“Polyaniline Nanofiber Hybrid and Its Application in Supercapacitors. ACS Applied Materials & Interfaces, 2012, 4, 2870-2876.	8.0	110
12	Extremely lightweight and ultra-flexible infrared light-converting quantum dot solar cells with high power-per-weight output using a solution-processed bending durable silver nanowire-based electrode. Energy and Environmental Science, 2018, 11, 354-364.	30.8	108
13	Surface matrix curing of inorganic CsPbI₃ perovskite quantum dots for solar cells with efficiency over 16%. Energy and Environmental Science, 2021, 14, 4599-4609.	30.8	96
14	Graphene dip coatings: An effective anticorrosion barrier on aluminum. Applied Surface Science, 2015, 327, 241-245.	6.1	91
15	NiCo₂S₄ nanotube arrays grown on flexible nitrogen-doped carbon foams as three-dimensional binder-free integrated anodes for high-performance lithium-ion batteries. Physical Chemistry Chemical Physics, 2016, 18, 4505-4512.	2.8	90
16	Nanohoneycomb-like manganese cobalt sulfide/three dimensional graphene-nickel foam hybid electrodes for high-rate capability supercapacitors. Applied Surface Science, 2017, 396, 1816-1824.	6.1	87
17	Hierarchical NiMoO₄nanowire arrays supported on macroporous graphene foam as binder-free 3D anodes for high-performance lithium storage. Physical Chemistry Chemical Physics, 2016, 18, 908-915.	2.8	82
18	Enhanced protective Znâ€“Al layered double hydroxide film fabricated on anodized 2198 aluminum alloy. Journal of Alloys and Compounds, 2015, 630, 29-36.	5.5	79

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19	Preparation and characterization of the TiO2-V2O5 photocatalyst with visible-light activity. Rare Metals, 2006, 25, 636-642.	7.1	72
20	Integration of network-like porous NiMoO₄ nanoarchitectures assembled with ultrathin mesoporous nanosheets on three-dimensional graphene foam for highly reversible lithium storage. Journal of Materials Chemistry A, 2015, 3, 13691-13698.	10.3	72
21	Biomass chitin-derived honeycomb-like nitrogen-doped carbon/graphene nanosheet networks for applications in efficient oxygen reduction and robust lithium storage. Journal of Materials Chemistry A, 2016, 4, 11789-11799.	10.3	71
22	Three-dimensional nitrogen doped holey reduced graphene oxide framework as metal-free counter electrodes for high performance dye-sensitized solar cells. Journal of Power Sources, 2016, 308, 44-51.	7.8	59
23	In situ growth of perovskite stacking layers for high-efficiency carbon-based hole conductor free perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 13777-13786.	10.3	58
24	Fabrication of inhibitor anion-intercalated layered double hydroxide host films on aluminum alloy 2024 and their anticorrosion properties. Journal of Coatings Technology Research, 2015, 12, 293-302.	2.5	57
25	Preparation and evaluation of the microwave absorption properties of template-free graphene foam-supported Ni nanoparticles. RSC Advances, 2017, 7, 14733-14741.	3.6	56
26	Hydrothermal synthesis of NiCo 2 O 4 nanowires/nitrogen-doped graphene for high-performance supercapacitor. Applied Surface Science, 2014, 314, 1000-1006.	6.1	55
27	Self-assembly of ultrathin mesoporous CoMoO₄ nanosheet networks on flexible carbon fabric as a binder-free anode for lithium-ion batteries. New Journal of Chemistry, 2016, 40, 2259-2267.	2.8	51
28	Influence of embedded ZnAlCe-NO3â˜' layered double hydroxides on the anticorrosion properties of solâ€“gel coatings for aluminum alloy. Progress in Organic Coatings, 2015, 81, 93-100.	3.9	50
29	Highly Stabilized Quantum Dot Ink for Efficient Infrared Light Absorbing Solar Cells. Advanced Energy Materials, 2019, 9, 1902809.	19.5	50
30	Corrosion protection of AA2024-T3 by sol-gel film modified with graphene oxide. Journal of Alloys and Compounds, 2017, 725, 84-95.	5.5	49
31	A facile approach to superhydrophobic LiAl-layered double hydroxide film on Alâ€“Li alloy substrate. Journal of Coatings Technology Research, 2015, 12, 595-601.	2.5	47
32	Promoting polysulfide conversion by V2O3 hollow sphere for enhanced lithium-sulfur battery. Applied Surface Science, 2019, 473, 1002-1008.	6.1	47
33	Slow recombination in quantum dot solid solar cell using pâ€“iâ€“n architecture with organic p-type hole transport material. Journal of Materials Chemistry A, 2015, 3, 20579-20585.	10.3	46
34	Sub-coherent growth of ZnO nanorod arrays on three-dimensional graphene framework as one-bulk high-performance photocatalyst. Applied Surface Science, 2016, 390, 266-272.	6.1	46
35	Synthesis and Photocatalytic Activity of TiO2/V2O5 Composite Catalyst Doped with Rare Earth Ions. Journal of Rare Earths, 2007, 25, 173-178.	4.8	41
36	Effect of passive film on mechanical properties of martensitic stainless steel 15-5PH in a neutral NaCl solution. Applied Surface Science, 2015, 327, 313-320.	6.1	41

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37	Ultralight Interconnected Grapheneâ€“Amorphous Carbon Hierarchical Foam with Mechanical Resiliency for High Sensitivity and Durable Strain Sensors. ACS Applied Materials & Interfaces, 2017, 9, 27127-27134.	8.0	41
38	Fabrication of superhydrophobic layered double hydroxides films with different metal cations on anodized aluminum 2198 alloy. Materials Letters, 2015, 142, 137-140.	2.6	40
39	Photoinduced Silver Nanoparticles/Nanorings on Plasmid DNA Scaffolds. Small, 2012, 8, 310-316.	10.0	38
40	Effects of graphene oxide-filled sol-gel sealing on the corrosion resistance and paint adhesion of anodized aluminum. Applied Surface Science, 2019, 479, 105-113.	6.1	38
41	Probing and Controlling Surface Passivation of PbS Quantum Dot Solid for Improved Performance of Infrared Absorbing Solar Cells. Chemistry of Materials, 2019, 31, 4081-4091.	6.7	34
42	Regulating Thiol Ligands of p-Type Colloidal Quantum Dots for Efficient Infrared Solar Cells. ACS Energy Letters, 2021, 6, 1970-1979.	17.4	34
43	Platinum nanoparticles-loaded holey reduced graphene oxide framework as freestanding counter electrodes of dye sensitized solar cells and methanol oxidation catalysts. Electrochimica Acta, 2017, 258, 485-494.	5.2	33
44	Electrophoretic deposition of hierarchical Co₃O₄@graphene hybrid films as binder-free anodes for high-performance lithium-ion batteries. RSC Advances, 2015, 5, 33438-33444.	3.6	31
45	Corrosion Protective Properties of Silane Functionalized Graphene Oxide Film on AA2024-T3 Aluminum Alloy. Journal of the Electrochemical Society, 2016, 163, C798-C806.	2.9	31
46	Mesoporous Hollow Nested Nanospheres of Ni, Cu, Co-Based Mixed Sulfides for Electrocatalytic Oxygen Reduction and Evolution. ACS Applied Nano Materials, 2019, 2, 4921-4932.	5.0	30
47	Bioinspired synthesis of Ag@TiO2 plasmonic nanocomposites to enhance the light harvesting of dye-sensitized solar cells. RSC Advances, 2013, 3, 18587.	3.6	29
48	Facile and large-scale fabrication of hierarchical ZnFe₂O₄/graphene hybrid films as advanced binder-free anodes for lithium-ion batteries. New Journal of Chemistry, 2015, 39, 1725-1733.	2.8	29
49	Hydrolysis of metal-organic framework towards three-dimensional nickel cobalt-layered double hydroxide for high performance supercapacitors. Journal of Energy Storage, 2020, 31, 101649.	8.1	29
50	Pre-planted nucleation seeds for rechargeable metallic lithium anodes. Journal of Materials Chemistry A, 2017, 5, 18862-18869.	10.3	28
51	Transparent conducting oxide-free nitrogen-doped graphene/reduced hydroxylated carbon nanotube composite paper as flexible counter electrodes for dye-sensitized solar cells. Journal of Power Sources, 2016, 334, 44-51.	7.8	25
52	Graphene foam supported multilevel network-like NiCo2S4 nanoarchitectures for robust lithium storage and efficient ORR catalysis. New Journal of Chemistry, 2017, 41, 115-125.	2.8	25
53	Effect of divalent metal ions on durability and anticorrosion performance of layered double hydroxides on anodized 2A12 aluminum alloy. Surface and Coatings Technology, 2019, 373, 56-64.	4.8	25
54	Microwave absorption properties of rod-shaped Coâ€“Niâ€“P shells prepared by metallizing Bacillus. Applied Surface Science, 2011, 257, 2383-2386.	6.1	24

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55	Interlamellar Lithiumâ€Ion Conductor Reformed Interface for High Performance Lithium Metal Anode. Advanced Functional Materials, 2021, 31, 2102336.	14.9	23
56	Effects of prior cathodic polarization on crystallographic pit initiation on aluminum. Corrosion Science, 2014, 80, 12-18.	6.6	22
57	Effect of alkaline etching on microstructure and anticorrosion performance of anodic film on Al-Mg-Si alloy. Corrosion Science, 2020, 169, 108642.	6.6	22
58	Controllable synthesis of micro/nano-structured MnCo₂O₄ with multiporous coreâ€“shell architectures as high-performance anode materials for lithium-ion batteries. New Journal of Chemistry, 2015, 39, 8416-8423.	2.8	21
59	SCC investigation of low alloy ultra-high strength steel 30CrMnSiNi2A in 3.5wt% NaCl solution by slow strain rate technique. Chinese Journal of Aeronautics, 2014, 27, 1327-1333.	5.3	19
60	Anchoring nano-sulfur on flat graphene as cathode material for lithiumâ€“sulfur battery. RSC Advances, 2015, 5, 40310-40315.	3.6	19
61	Enhancement of active anticorrosion via Ce-doped Zn-Al layered double hydroxides embedded in sol-gel coatings on aluminum alloy. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 1199-1204.	1.0	19
62	One-step synthesis of the nickel foam supported network-like ZnO nanoarchitectures assembled with ultrathin mesoporous nanosheets with improved lithium storage performance. RSC Advances, 2015, 5, 81341-81347.	3.6	18
63	Enhanced charge carrier extraction by a highly ordered wrinkled MgZnO thin film for colloidal quantum dot solar cells. Journal of Materials Chemistry C, 2017, 5, 11111-11120.	5.5	18
64	Synthesis of Inhibitor Nanocontainers with Two-Dimensional Structure and Their Anticorrosion Action in Sol-Gel Coating on AA2024-T3 Aluminum Alloy. Journal of the Electrochemical Society, 2017, 164, C641-C652.	2.9	18
65	DNA assembled single-walled carbon nanotube nanocomposites for high efficiency dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 11070.	10.3	15
66	Effect of TiO2 nanostructures on specific capacitance of Al2O3â€“TiO2 composite film on etched aluminum foil formed by the solâ€“gel and anodizing. Ceramics International, 2014, 40, 3687-3692.	4.8	15
67	Preparation and characterization of hollow glass microspheresâ€“cobalt ferrite core-shell particles based on homogeneous coprecipitation. Materials Letters, 2011, 65, 929-932.	2.6	14
68	Superior methanol electrooxidation activity and CO tolerance of mesoporous helical nanospindle-like CeO₂ modified Pt/C. RSC Advances, 2015, 5, 64261-64267.	3.6	12
69	Fabrication and magnetic properties of Coâ€“Niâ€“P rod-shaped hollow structures based on Bacillus template. Materials Letters, 2009, 63, 1907-1909.	2.6	11
70	Surface characteristics of anodic oxide films fabricated in acid and neutral electrolytes on Tiâ€“10Vâ€“2Feâ€“3Al alloy. Surface and Interface Analysis, 2013, 45, 661-666.	1.8	11
71	Evolution of Microstructure and Precipitates with Cycle Annealing Temperature of an Alâ€“6Mgâ€“Mnâ€“Scâ€“Zr Alloy. Materials and Manufacturing Processes, 2007, 22, 1-4.	4.7	9
72	Effect of electrolyte concentration on morphology, microstructure and electrochemical impedance of anodic oxide film on titanium alloy Ti-10Vâ€“2Feâ€“3Al. Journal of Applied Electrochemistry, 2010, 40, 1545-1553.	2.9	9

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73	Effect of electropolishing on electrochemical behaviours of titanium alloy Ti-10V-2Fe-3Al. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 469-477.	1.0	9
74	Surface analysis of chemical stripping titanium alloy oxide films. Journal Wuhan University of Technology, Materials Science Edition, 2012, 27, 399-404.	1.0	9
75	Multi-functional DNA-based synthesis of SWNTs@(TiO₂/Ag/Au) nanocomposites for enhanced light-harvesting and charge collection in DSSCs. RSC Advances, 2015, 5, 5604-5610.	3.6	9
76	Magnetic and mechanical properties of micro/nano particles prepared by metallizing rod-shaped bacteria. Materials Letters, 2008, 62, 2999-3002.	2.6	8
77	Fabrication and characterization of Ag nanoparticles based on plasmid DNA as templates. Materials Letters, 2011, 65, 719-721.	2.6	8
78	Insight into the Interface Engineering of a SnO₂/FAPbI₃ Perovskite Using Lead Halide as an Interlayer: A First-Principles Study. Journal of Physical Chemistry Letters, 2021, 12, 11330-11338.	4.6	8
79	Title is missing!. Journal of Polymers and the Environment, 2000, 8, 167-174.	5.0	7
80	Super helical Au/TiO2 nanocomposites based on plasmid DNA for efficiency dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2017, 28, 4138-4145.	2.2	7
81	Improvement of Corrosion Protection of Coating System via Inhibitor Response Order. Coatings, 2018, 8, 365.	2.6	7
82	Long-term cycling stability of NiCo₂S₄ hollow nanowires supported on biomass-derived ultrathin N-doped carbon 3D networks as an anode for lithium-ion batteries. Chemical Communications, 2021, 57, 1002-1005.	4.1	7
83	Preparation and characterization of highly ordered NiO nanowire arrays by sol-gel template method. International Journal of Minerals, Metallurgy, and Materials, 2006, 13, 169-173.	0.2	6
84	Effect of sulphate-reducing bacteria on the electrochemical impedance spectroscopy characteristics of 1Cr18Ni9Ti. International Journal of Minerals, Metallurgy, and Materials, 2007, 14, 425-430.	0.2	6
85	Fabrication and characterization of highly ordered Ni0.5Zn0.5Fe2O4 nanowire/tube arrays by sol-gel template method. International Journal of Minerals, Metallurgy, and Materials, 2007, 14, 469-472.	0.2	6
86	Synthesis and characterization of Agâ€“Ni nanorings based on plasmid DNA templates. Materials Letters, 2012, 67, 277-279.	2.6	6
87	Unique structure and mechanical property of Dabryanus scale. Journal of Bionic Engineering, 2016, 13, 641-649.	5.0	6
88	Corrosion behavior of ultra-high strength steel 300M in different simulated marine environments. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 372-378.	1.0	6
89	Preparation and characterization of high photoactive TiO2 catalyst using the UV irradiation-induced sol-gel method. International Journal of Minerals, Metallurgy, and Materials, 2006, 13, 350-354.	0.2	5
90	Effects of electroplated coatings on corrosion behavior of Ti-1023/30CrMnSiA galvanic couple. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 704-707.	1.0	5

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91	EIS characterization of sealed anodic oxide films on titanium alloy Ti-10V-2Fe-3Al. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 599-605.	1.0	5
92	Sensitive Detection of Polyimides Degradation by Microorganisms Using Electrochemical Impedance Spectroscopy.. Microbes and Environments, 2002, 17, 105-112.	1.6	4
93	Preparation and characterization of Ni-P hollow material based on the shape of Nocadia. Science Bulletin, 2008, 53, 3235-3239.	9.0	4
94	Synthesis and magnetic properties of BaTiO3-CoxFe3-xO4 core-shell particles by homogeneous coprecipitation. Journal of Electroceramics, 2013, 31, 96-101.	2.0	4
95	A facile pre-assembly strategy toward grain boundary-induced-graphene based hybrid frameworks with high capacitance. Chemical Engineering Journal, 2020, 381, 122684.	12.7	4
96	Effect of pre-corrosion on fatigue life of high strength steel 38CrMoAl. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 648-653.	1.0	3
97	Theoretical and experimental studies of passivity breakdown of Aermet 100 ultraâ€high stainless steel in chloride ion medium. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 2020-2032.	1.5	3
98	Effect of Solution and Aging Temperatures on Microstructure and Mechanical Properties of 10Cr13Co13Mo5Ni3W1VE(S280) Steel. Micromachines, 2021, 12, 566.	2.9	3
99	Manifestations in corrosion prophase of ultra-high strength steel 30CrMnSiNi2A in sodium chloride solutions. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 367-373.	1.0	2
100	Effects of sodium tartrate anodizing on fatigue life of TA15 titanium alloy. Chinese Journal of Aeronautics, 2015, 28, 1281-1286.	5.3	2
101	Optically active multi-helical erythrocyte-like Ln(OH)CO₃ (Ln = La, Ce, Pr and Sm). Physical Chemistry Chemical Physics, 2016, 18, 20261-20265.	2.8	2
102	Turning free-standing three-dimensional graphene into electrochemically active by nitrogen doping during chemical vapor deposition process. Journal of Materials Science: Materials in Electronics, 2020, 31, 3759-3768.	2.2	2
103	PREPARATION AND CHARACTERISTICS OF NIXZN(1-X)FE2O4-ENCAPSULATED HOLLOW GLASS SPHERES BY ERRITE PLATING. International Journal of Modern Physics B, 2010, 24, 3215-3220.	2.0	1
104	Effect of Hydrogen on Mechanical Properties of 23Co14Ni12Cr3Mo Ultrahigh Strength Steel. Journal of Materials Engineering and Performance, 2013, 22, 3916-3921.	2.5	1
105	SCC evaluation of a 2297 Al-Li alloy rolled plate using the slow-strain rate technique. Chinese Journal of Aeronautics, 2019, 32, 2516-2525.	5.3	1
106	Role of grain boundary on the growth behavior of anodic film on spark plasma sintered AA6061. Applied Surface Science, 2021, 553, 149473.	6.1	1
107	The Interdiffusion Behavior of NiCoCrAlYHf Coating Deposited by Arc Ion Plating on Carburized Ni-Based Single Crystal Superalloy. Materials, 2021, 14, 7401.	2.9	1
108	Research of mechanical properties of a micro/nano rod material based on the shape of Nocadia. , 2008, , .		0

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109	Influence of different medium aging on advanced composite T300/5405. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 219-223.	1.0	0
110	Self-assembly of near-unity helical Ce_{1â^'x}M_xO₂ (x = 0.1, M =) Tj ETQq0 0 0 rgBT /Overloc	2.8	0
111	Effect of Intermetallic Compounds on Pitting Corrosion of Spark Plasma Sintered AA2024. Corrosion, 2022, 78, 572-583.	1.1	0