

Dejun Li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3226308/publications.pdf>

Version: 2024-02-01

98
papers

3,198
citations

279798

23
h-index

161849

54
g-index

99
all docs

99
docs citations

99
times ranked

4731
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Developments and Understanding of Novel Mixed Transition-Metal Oxides as Anodes in Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1502175.	19.5	756
2	Superior energy density through tailored dopant strategies in multilayer ceramic capacitors. <i>Energy and Environmental Science</i> , 2020, 13, 2938-2948.	30.8	212
3	Controlled SnO ₂ Crystallinity Effectively Dominating Sodium Storage Performance. <i>Advanced Energy Materials</i> , 2016, 6, 1502057.	19.5	180
4	MOF-derived porous hollow Co ₃ O ₄ parallelepipeds for building high-performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22542-22546.	10.3	101
5	Metal-Organic Frameworks-Derived Co ₂ P@N-C@rGO with Dual Protection Layers for Improved Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14641-14648.	8.0	100
6	Superior Cathode Performance of Nitrogen-Doped Graphene Frameworks for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10643-10651.	8.0	98
7	Novel understanding of carbothermal reduction enhancing electronic and ionic conductivity of Li ₄ Ti ₅ O ₁₂ anode. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11773-11781.	10.3	88
8	Influence of annealing temperature on structure and photoelectrical performance of ¹¹² Ga ₂ O ₃ /4H-SiC heterojunction photodetectors. <i>Journal of Alloys and Compounds</i> , 2019, 798, 458-466.	5.5	88
9	Superior sodium storage of novel VO ₂ nano-microspheres encapsulated into crumpled reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4850-4860.	10.3	79
10	Controllable oxygenic functional groups of metal-free cathodes for high performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11376-11386.	10.3	77
11	Investigation of the Nanocrystal CoS ₂ Embedded in 3D Honeycomb-like Graphitic Carbon with a Synergistic Effect for High-Performance Lithium Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33987-33999.	8.0	77
12	Enhanced capacitance of boron-doped graphene aerogels for aqueous symmetric supercapacitors. <i>Applied Surface Science</i> , 2019, 475, 285-293.	6.1	70
13	An optimized Al ₂ O ₃ layer for enhancing the anode performance of NiCo ₂ O ₄ nanosheets for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17881-17888.	10.3	61
14	Effect of nitrogen atomic percentage on N ⁺ -bombarded MWCNTs in cytocompatibility and hemocompatibility. <i>Nanoscale Research Letters</i> , 2014, 9, 142.	5.7	57
15	Development of a Synergistic Activation Strategy for the Pilot-Scale Construction of Hierarchical Porous Graphitic Carbon for Energy Storage Applications. <i>ACS Nano</i> , 2020, 14, 4741-4754.	14.6	47
16	Hydrothermal synthesis of mixed crystal phases TiO ₂ -reduced graphene oxide nanocomposites with small particle size for lithium ion batteries. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16116-16122.	7.1	44
17	Controllably Designed "Vice-Electrode" Interlayers Harvesting High Performance Lithium Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40273-40280.	8.0	44
18	SnO ₂ particles anchored on N-doped graphene surface as sodium-ion battery anode with enhanced electrochemical capability. <i>Applied Surface Science</i> , 2017, 396, 269-277.	6.1	41

#	ARTICLE	IF	CITATIONS
19	Scalable synthesis of functionalized graphene as cathodes in Li-ion electrochemical energy storage devices. <i>Applied Energy</i> , 2016, 175, 512-521.	10.1	37
20	Vertically Aligned Co ₉ S ₈ Nanotube Arrays onto Graphene Papers as High-Performance Flexible Electrodes for Supercapacitors. <i>Chemistry - A European Journal</i> , 2018, 24, 2339-2343.	3.3	37
21	A comparative antibacterial activity and cytocompatibility for different top layers of TiN, Ag or TiN-Ag on nanoscale TiN/Ag multilayers. <i>Applied Surface Science</i> , 2019, 473, 334-342.	6.1	32
22	Phase stability, electronic structures, and superconductivity properties of the BaPb _{1-x} Bi _x O ₃ and Ba _{1-x} K _x BiO ₃ perovskites. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1221-1230.	3.8	29
23	Regulating Li-ion flux with a high-dielectric hybrid artificial SEI for stable Li metal anodes. <i>Nanoscale</i> , 2022, 14, 5033-5043.	5.6	28
24	Structure, Phase Transition, and Electronic Properties of K _{1-x} Na _x NbO ₃ Solid Solutions from First-Principles Theory. <i>Journal of the American Ceramic Society</i> , 2014, 97, 4019-4023.	3.8	25
25	Novel Hoberman Sphere Design for Interlaced Mn ₃ O ₄ @CNT Architecture with Atomic Layer Deposition-Coated TiO ₂ Overlayer as Advanced Anodes in Li-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39282-39292.	8.0	24
26	Recent Advances of Bimetallic Sulfide Anodes for Sodium Ion Batteries. <i>Frontiers in Chemistry</i> , 2020, 8, 353.	3.6	24
27	ZnO Interface Modified LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ Toward Boosting Lithium Storage. <i>Energy and Environmental Materials</i> , 2020, 3, 522-528.	12.8	24
28	PVP-derived carbon nanofibers harvesting enhanced anode performance for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 4193-4199.	3.6	23
29	Novel iodine-doped reduced graphene oxide anode for sodium ion batteries. <i>RSC Advances</i> , 2017, 7, 55060-55066.	3.6	23
30	Mg/Ag ratios induced in vitro cell adhesion and preliminary antibacterial properties of TiN on medical Ti-6Al-4V alloy by Mg and Ag implantation. <i>Surface and Coatings Technology</i> , 2020, 397, 126020.	4.8	21
31	Investigation of anodic plasma electrolytic carbonitriding on medium carbon steel. <i>Surface and Coatings Technology</i> , 2017, 313, 288-293.	4.8	20
32	Nitrogen ion implanted graphene as thrombo-protective safer and cytoprotective alternative for biomedical applications. <i>Carbon</i> , 2013, 61, 321-328.	10.3	19
33	Novel synthesis of tin oxide/graphene aerogel nanocomposites as anode materials for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2015, 646, 1009-1014.	5.5	19
34	Carbon nanotubes cross-linked Zn ₂ SnO ₄ nanoparticles/graphene networks as high capacities, long life anode materials for lithium ion batteries. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 851-860.	2.9	19
35	Hybrid materials of graphene anchored with CoFe ₂ O ₄ for the anode in sodium-ion batteries. <i>Journal of Materials Science</i> , 2017, 52, 3124-3132.	3.7	18
36	Enhanced photoelectrocatalytic degradation of organic pollutants using TiO ₂ nanotubes implanted with nitrogen ions. <i>Journal of Materials Science</i> , 2020, 55, 5843-5860.	3.7	18

#	ARTICLE	IF	CITATIONS
37	The enhanced anticoagulation for graphene induced by COOH+ ion implantation. <i>Nanoscale Research Letters</i> , 2015, 10, 14.	5.7	17
38	Composition- and Pressure-Induced Relaxor Ferroelectrics: First-Principles Calculations and Landau-Devonshire Theory. <i>Journal of the American Ceramic Society</i> , 2016, 99, 3336-3342.	3.8	17
39	Significant impact of individual surface and modulation structure on mechanical properties of NbN/NbB ₂ multilayers. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3225-3232.	5.5	16
40	Exchange bias effect in hybrid improper ferroelectricity Ca _{2.94} Na _{0.06} Mn ₂ O ₇ . <i>AIP Advances</i> , 2018, 8, .	1.3	16
41	Chemical vapor deposition of clean and pure MoS ₂ crystals by the inhibition of MoO ₃ intermediates. <i>CrystEngComm</i> , 2021, 23, 146-152.	2.6	16
42	Regulating the Electronic Configuration of Supported Iron Nanoparticles for Electrochemical Catalytic Nitrogen Fixation. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	16
43	The influence of modulation periods on the evolution of microstructure and mechanical properties of nanoscale HfN/HfB ₂ multilayers. <i>Surface and Coatings Technology</i> , 2017, 326, 368-374.	4.8	15
44	Direct growth of oxide layer on carbon steel by cathodic plasma electrolysis. <i>Surface and Coatings Technology</i> , 2018, 338, 63-68.	4.8	15
45	Effects of Zn and Ag Ratio on Cell Adhesion and Antibacterial Properties of Zn/Ag Coimplanted TiN. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3303-3310.	5.2	15
46	Study on the osteogenesis of rat mesenchymal stem cells and the long-term antibacterial activity of <i>Staphylococcus epidermidis</i> on the surface of silver-rich TiN/Ag modified titanium alloy. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 3008-3021.	3.4	15
47	Three-Dimensional Core-Branch Fe ₂ O ₃ @NiO/Carbon Cloth Heterostructured Electrodes for Flexible Supercapacitors. <i>Frontiers in Chemistry</i> , 2019, 7, 887.	3.6	15
48	Efficient Metal-Oriented Electrodeposition of a Co-Based Metal-Organic Framework with Superior Capacitive Performance. <i>ChemSusChem</i> , 2022, 15, .	6.8	15
49	Encapsulating Sn(OH) ₄ Nanoparticles in Micropores of Mesocarbon Microbeads: A New Anode Material for High-Performance Lithium Ion Batteries. <i>Advanced Materials Technologies</i> , 2021, 6, 2000849.	5.8	14
50	Influence of Ag/Ca ratio on the osteoblast growth and antibacterial activity of TiN coatings on Ti-6Al-4V by Ag and Ca ion implantation. <i>Surface and Coatings Technology</i> , 2020, 403, 126415.	4.8	14
51	Enhancement of interaction of L-929 cells with functionalized graphene via COOH+ ion implantation vs. chemical method. <i>Scientific Reports</i> , 2016, 6, 37112.	3.3	13
52	The simulation of interface structure, energy and electronic properties of TaN/ReB ₂ multilayers using first-principles. <i>Surface and Coatings Technology</i> , 2017, 326, 417-423.	4.8	13
53	Optimized ALD-derived MgO coating layers enhancing silicon anode performance for lithium ion batteries. <i>Journal of Materials Research</i> , 2019, 34, 2425-2434.	2.6	13
54	Improved potassium ion storage performance of graphite by atomic layer deposition of aluminum oxide coatings. <i>International Journal of Energy Research</i> , 2020, 44, 4260-4268.	4.5	13

#	ARTICLE	IF	CITATIONS
55	Highly uniform hierarchical Zn ₂ SnO ₄ microspheres for the construction of high performance dye-sensitized solar cells. RSC Advances, 2017, 7, 43403-43409.	3.6	12
56	Paulownia tomentosa derived porous carbon with enhanced sodium storage. Journal of Materials Research, 2018, 33, 1236-1246.	2.6	12
57	Biological actions of Cu/Zn coimplanted TiN on Ti-6Al-4V alloy. Biointerphases, 2019, 14, 051008.	1.6	12
58	Optimized Zn ₂ SnO ₄ nanoparticles with enhanced performance for photodetectors and photocatalysts. RSC Advances, 2016, 6, 69191-69195.	3.6	11
59	Facile mechanochemical synthesis of non-stoichiometric silica-carbon composite for enhanced lithium storage properties. Journal of Alloys and Compounds, 2019, 801, 658-665.	5.5	11
60	Rapid construction of TiO ₂ /SiO ₂ composite film on Ti foil as lithium-ion battery anode by plasma discharge in solution. Applied Physics Letters, 2019, 114, 043903.	3.3	11
61	Co-regulation of Cu/Zn contents enhanced the biological and mechanical properties of TiN coated Ti-6Al-4V alloy. Surface and Coatings Technology, 2020, 395, 125943.	4.8	11
62	Electrochemical synthesis of ZnO nanorods/porous silicon composites and their gas-sensing properties at room temperature. Journal of Solid State Electrochemistry, 2016, 20, 459-468.	2.5	10
63	Ag ⁺ implantation induces mechanical properties, cell adhesion and antibacterial effects of TiN/Ag multilayers in vitro. Nanomedicine, 2017, 12, 2257-2268.	3.3	10
64	Controlling the Growth of Ni ₃ S ₂ Anode with Tunable Sodium Storage. Advanced Materials Interfaces, 2018, 5, 1701684.	3.7	10
65	The influence of change in structural characteristics induced by beam current on mechanical properties of LiPON solid-state electrolyte films. International Journal of Hydrogen Energy, 2014, 39, 16103-16109.	7.1	9
66	Cathodic plasma electrolysis for preparation of diamond-like carbon particles in glycerol solution. Materials Chemistry and Physics, 2017, 199, 289-294.	4.0	9
67	Mesoporous ZnCo ₂ O ₄ /rGO nanocomposites enhancing sodium storage. Nanotechnology, 2019, 30, 234005.	2.6	9
68	Î ² -FeOOH Interlayer With Abundant Oxygen Vacancy Toward Boosting Catalytic Effect for Lithium Sulfur Batteries. Frontiers in Chemistry, 2020, 8, 309.	3.6	9
69	Efficient exfoliation N-doped graphene from N-containing bamboo-like carbon nanotubes for anode materials of Li-ion battery and Na-ion battery. Applied Physics A: Materials Science and Processing, 2015, 120, 471-478.	2.3	8
70	Enhancement of the mechanical and biological properties on Zn/Ag co-implanted TiN via ions contents regulation. Surface and Coatings Technology, 2020, 394, 125870.	4.8	8
71	Revealing Dopant Local Structure of Se-Doped Black Phosphorus. Chemistry of Materials, 2021, 33, 2029-2036.	6.7	8
72	Dye-sensitized solar cells based on a 1D/3D double-layered ZnO photoanode with improved photovoltaic performance. RSC Advances, 2015, 5, 81253-81259.	3.6	7

#	ARTICLE	IF	CITATIONS
73	Influence of bilayer period on the structure and mechanical properties of as-deposited NbN-NbB ₂ /NbN multilayer coatings. <i>Surface and Coatings Technology</i> , 2019, 365, 115-122.	4.8	7
74	Synthesis of Diamond-like Carbon as a Dielectric Platform for Graphene Field Effect Transistors. <i>ACS Applied Nano Materials</i> , 2021, 4, 1385-1393.	5.0	7
75	Solvothermal growth of Zn ₂ SnO ₄ for efficient dye-sensitized solar cells. <i>Rare Metals</i> , 2022, 41, 942-950.	7.1	7
76	Hundred-gram scale fabrication of few-layered silicene by a continuous vapor-dealloying strategy for high-performance lithium storage. <i>Chemical Communications</i> , 2022, 58, 5717-5720.	4.1	7
77	The comparative biological properties of Mg ⁺ or Ca ⁺ implanted Cu-TiN nanocomposite coatings on titanium alloys. <i>Vacuum</i> , 2021, 194, 110618.	3.5	6
78	Controllable Ag/Ta ratios of co-implanted TiN films on titanium alloys for osteogenic enhancement and antibacterial responses. <i>Surface and Coatings Technology</i> , 2022, 436, 128294.	4.8	6
79	Influence of Content of Al ₂ O ₃ on Structure and Properties of Nanocomposite Nb-B-Al-O films. <i>Nanoscale Research Letters</i> , 2015, 10, 451.	5.7	5
80	Controllable substrate bias voltages effectively tailoring nanocomposite Nb-B-Al-O film properties. <i>Journal of Alloys and Compounds</i> , 2015, 636, 363-367.	5.5	5
81	Design of a flower-like CuS nanostructure via a facile hydrothermal route. <i>Materials Technology</i> , 2016, 31, 510-516.	3.0	5
82	A design of Ti-6Al-4V/ZrB ₂ multilayers with good thermal stability to enhance mechanical properties of titanium alloy. <i>Ceramics International</i> , 2018, 44, 4704-4710.	4.8	5
83	Optimization of the Oxidation Behavior and Mechanical Properties by Designing the TiB ₂ /ZrO ₂ Multilayers. <i>Coatings</i> , 2019, 9, 600.	2.6	5
84	Exposing Cu(100) Surface via Ion-Implantation-Induced Oxidation and Etching for Promoting Hydrogen Evolution Reaction. <i>Langmuir</i> , 2022, 38, 2993-2999.	3.5	5
85	N ⁺ implantation induce cytocompatibility of shape-controlled three-dimensional self-assembly graphene. <i>Nanomedicine</i> , 2017, 12, 2245-2255.	3.3	4
86	Interfacial Model and Characterization for Nanoscale ReB ₂ /TaN Multilayers at Desired Modulation Period and Ratios: First-Principles Calculations and Experimental Investigations. <i>Nanomaterials</i> , 2018, 8, 421.	4.1	3
87	Insights into the Dynamic Catalytic Effect of Metal Sulfides with Prominent Lithiation Process in the Application of Li-S Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 11131-11141.	5.1	3
88	Modulation Effect of Hardness on the Friction Coefficient and Its Mechanism Analysis of ZrB ₂ /Mo Multilayers Synthesized by Magnetron Sputtering. <i>Crystals</i> , 2021, 11, 69.	2.2	3
89	Shape-Control of Three-Dimensional Self-Assembly Graphene by Hydrothermal Reaction Time and Its Biological Application. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 5756-5762.	0.9	2
90	Investigation of Ti-6Al-4V/ZrB ₂ trilaminar structure and its high temperature stability. <i>Surface and Coatings Technology</i> , 2019, 365, 76-82.	4.8	2

#	ARTICLE	IF	CITATIONS
91	One-step plasma electrolytic oxidation for TiO ₂ /SnO ₂ film as LIB anode. Surface Engineering, 2021, 37, 918-925.	2.2	2
92	Enhanced cell growth on 3D graphene scaffolds implanted with nitrogen ions. Biointerphases, 2018, 13, 041001.	1.6	1
93	Influence of Sputtering Power of ZrB ₂ Target on Structure and Properties of Nanocomposite Zr-B-O Films. Coatings, 2019, 9, 611.	2.6	1
94	Chemical Vapor Deposition of N-Doped Graphene through Pre-Implantation of Nitrogen Ions for Long-Term Protection of Copper. Materials, 2021, 14, 3751.	2.9	1
95	Designing spacial skeleton for lithium metal anode with Li ⁺ concentration regulation and interfacial modification. Journal of Alloys and Compounds, 2022, 898, 162802.	5.5	1
96	Sodium Storage: Controlled SnO ₂ Crystallinity Effectively Dominating Sodium Storage Performance (Adv. Energy Mater. 10/2016). Advanced Energy Materials, 2016, 6, .	19.5	0
97	Crystal Growth: Controlling the Growth of Ni ₃ S ₂ Anode with Tunable Sodium Storage (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Over 3.7	3.7	0
98	Evolution of carbon diffusion layer to oxidation film during cathodic plasma electrolysis on steel. Heat Treatment and Surface Engineering, 2020, 2, 1-8.	1.0	0