

Li-jia Pan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6662821/publications.pdf>

Version: 2024-02-01

121
papers

14,179
citations

43973

48
h-index

23472

111
g-index

124
all docs

124
docs citations

124
times ranked

20389
citing authors

#	ARTICLE	IF	CITATIONS
1	An ultra-sensitive resistive pressure sensor based on hollow-sphere microstructure induced elasticity in conducting polymer film. <i>Nature Communications</i> , 2014, 5, 3002.	5.8	1,225
2	Stable Li-ion battery anodes by in-situ polymerization of conducting hydrogel to conformally coat silicon nanoparticles. <i>Nature Communications</i> , 2013, 4, 1943.	5.8	1,138
3	Hierarchical nanostructured conducting polymer hydrogel with high electrochemical activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9287-9292.	3.3	1,025
4	Hybrid nanostructured materials for high-performance electrochemical capacitors. <i>Nano Energy</i> , 2013, 2, 213-234.	8.2	976
5	Highly Sensitive Glucose Sensor Based on Pt Nanoparticle/Polyaniline Hydrogel Heterostructures. <i>ACS Nano</i> , 2013, 7, 3540-3546.	7.3	699
6	Nanostructured conductive polypyrrole hydrogels as high-performance, flexible supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6086-6091.	5.2	624
7	Towards intrinsic charge transport in monolayer molybdenum disulfide by defect and interface engineering. <i>Nature Communications</i> , 2014, 5, 5290.	5.8	563
8	Electrical characterization of back-gated bi-layer MoS ₂ field-effect transistors and the effect of ambient on their performances. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	515
9	Hierarchical N-Doped Carbon as CO ₂ Adsorbent with High CO ₂ Selectivity from Rationally Designed Polypyrrole Precursor. <i>Journal of the American Chemical Society</i> , 2016, 138, 1001-1009.	6.6	405
10	A Self-Healable, Highly Stretchable, and Solution Processable Conductive Polymer Composite for Ultrasensitive Strain and Pressure Sensing. <i>Advanced Functional Materials</i> , 2018, 28, 1705551.	7.8	387
11	A Nanostructured Conductive Hydrogels-Based Biosensor Platform for Human Metabolite Detection. <i>Nano Letters</i> , 2015, 15, 1146-1151.	4.5	352
12	3D nanostructured conductive polymer hydrogels for high-performance electrochemical devices. <i>Energy and Environmental Science</i> , 2013, 6, 2856.	15.6	351
13	Multifunctional Nanostructured Conductive Polymer Gels: Synthesis, Properties, and Applications. <i>Accounts of Chemical Research</i> , 2017, 50, 1734-1743.	7.6	343
14	Conducting Polymer Nanostructures: Template Synthesis and Applications in Energy Storage. <i>International Journal of Molecular Sciences</i> , 2010, 11, 2636-2657.	1.8	309
15	A Three-Dimensionally Interconnected Carbon Nanotube-Conducting Polymer Hydrogel Network for High-Performance Flexible Battery Electrodes. <i>Advanced Energy Materials</i> , 2014, 4, 1400207.	10.2	280
16	Preparation of magnetic CoFe ₂ O ₄ -functionalized graphene sheets via a facile hydrothermal method and their adsorption properties. <i>Journal of Solid State Chemistry</i> , 2011, 184, 953-958.	1.4	246
17	Highly Sensitive, Printable Nanostructured Conductive Polymer Wireless Sensor for Food Spoilage Detection. <i>Nano Letters</i> , 2018, 18, 4570-4575.	4.5	232
18	Dopant-Enabled Supramolecular Approach for Controlled Synthesis of Nanostructured Conductive Polymer Hydrogels. <i>Nano Letters</i> , 2015, 15, 7736-7741.	4.5	227

#	ARTICLE	IF	CITATIONS
19	Ultrahigh Surface Area Three-Dimensional Porous Graphitic Carbon from Conjugated Polymeric Molecular Framework. <i>ACS Central Science</i> , 2015, 1, 68-76.	5.3	207
20	Uniform and ultrathin high- κ gate dielectrics for two-dimensional electronic devices. <i>Nature Electronics</i> , 2019, 2, 563-571.	13.1	204
21	Advanced electronic skin devices for healthcare applications. <i>Journal of Materials Chemistry B</i> , 2019, 7, 173-197.	2.9	193
22	Understanding the Size-Dependent Sodium Storage Properties of Na ₂ C ₆ O ₆ -Based Organic Electrodes for Sodium-Ion Batteries. <i>Nano Letters</i> , 2016, 16, 3329-3334.	4.5	184
23	Multifunctional Superhydrophobic Surfaces Templated From Innately Microstructured Hydrogel Matrix. <i>Nano Letters</i> , 2014, 14, 4803-4809.	4.5	183
24	All Inkjet-Printed Amperometric Multiplexed Biosensors Based on Nanostructured Conductive Hydrogel Electrodes. <i>Nano Letters</i> , 2018, 18, 3322-3327.	4.5	176
25	MXenes and Their Applications in Wearable Sensors. <i>Frontiers in Chemistry</i> , 2020, 8, 297.	1.8	147
26	Rational design and applications of conducting polymer hydrogels as electrochemical biosensors. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2920-2930.	2.9	146
27	Energy gels: A bio-inspired material platform for advanced energy applications. <i>Nano Today</i> , 2016, 11, 738-762.	6.2	144
28	Doping engineering of conductive polymer hydrogels and their application in advanced sensor technologies. <i>Chemical Science</i> , 2019, 10, 6232-6244.	3.7	139
29	2D Single-Crystalline Molecular Semiconductors with Precise Layer Definition Achieved by Floating-Coffee-Ring-Driven Assembly. <i>Advanced Functional Materials</i> , 2016, 26, 3191-3198.	7.8	136
30	Highly Connected Silicon-Copper Alloy Mixture Nanotubes as High-Rate and Durable Anode Materials for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 524-531.	7.8	110
31	Advanced Wearable Microfluidic Sensors for Healthcare Monitoring. <i>Small</i> , 2020, 16, e1903822.	5.2	107
32	Luminescence and photophysical properties of colloidal ZnS nanoparticles. <i>Acta Materialia</i> , 2004, 52, 1489-1494.	3.8	104
33	Inkjet printing for flexible and wearable electronics. <i>APL Materials</i> , 2020, 8, .	2.2	89
34	Flexible Pressure Sensor With High Sensitivity and Low Hysteresis Based on a Hierarchically Microstructured Electrode. <i>IEEE Electron Device Letters</i> , 2018, 39, 288-291.	2.2	87
35	Sub-thermionic, ultra-high-gain organic transistors and circuits. <i>Nature Communications</i> , 2021, 12, 1928.	5.8	83
36	Mesoporous iron oxide directly anchored on a graphene matrix for lithium-ion battery anodes with enhanced strain accommodation. <i>RSC Advances</i> , 2013, 3, 699-703.	1.7	76

#	ARTICLE	IF	CITATIONS
37	ZnO-nanorods/graphene heterostructure: a direct electron transfer glucose biosensor. <i>Scientific Reports</i> , 2016, 6, 32327.	1.6	76
38	Properties of conductive polymer hydrogels and their application in sensors. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1606-1621.	2.4	71
39	Boost Up Carrier Mobility for Ferroelectric Organic Transistor Memory via Buffering Interfacial Polarization Fluctuation. <i>Scientific Reports</i> , 2014, 4, 7227.	1.6	67
40	A scalable sulfuration of WS ₂ to improve cyclability and capability of lithium-ion batteries. <i>Nano Research</i> , 2016, 9, 857-865.	5.8	67
41	Inkjet-printed porous polyaniline gel as an efficient anode for microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14555-14559.	5.2	64
42	Skin-inspired electronics: emerging semiconductor devices and systems. <i>Journal of Semiconductors</i> , 2020, 41, 041601.	2.0	63
43	Hydrothermal synthesis of graphene/ZnS quantum dot nanocomposites. <i>Materials Letters</i> , 2011, 65, 198-200.	1.3	59
44	Graphene anchored with mesoporous NiO nanoplates as anode material for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1889-1892.	1.2	54
45	Two-dimensional bimetallic phosphide ultrathin nanosheets as non-noble electrocatalysts for a highly efficient oxygen evolution reaction. <i>Nanoscale</i> , 2019, 11, 9654-9660.	2.8	53
46	Hierarchical nano-branched c-Si/SnO ₂ nanowires for high areal capacity and stable lithium-ion battery. <i>Nano Energy</i> , 2016, 19, 511-521.	8.2	52
47	Near-Field Communication Sensors. <i>Sensors</i> , 2019, 19, 3947.	2.1	51
48	Oxide Synaptic Transistors Coupled With Triboelectric Nanogenerators for Bio-Inspired Tactile Sensing Application. <i>IEEE Electron Device Letters</i> , 2020, 41, 617-620.	2.2	51
49	In situ growth of mesoporous Co ₃ O ₄ nanoparticles on graphene as a high-performance anode material for lithium-ion batteries. <i>Materials Letters</i> , 2014, 119, 12-15.	1.3	46
50	Using in-Situ Polymerization of Conductive Polymers to Enhance the Electrical Properties of Solution-Processed Carbon Nanotube Films and Fibers. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9966-9974.	4.0	43
51	Fast-Response and Low-Hysteresis Flexible Pressure Sensor Based on Silicon Nanowires. <i>IEEE Electron Device Letters</i> , 2018, 39, 1069-1072.	2.2	43
52	Evaluation of in vitro and in vivo biocompatibility of a myo-inositol hexakisphosphate gelled polyaniline hydrogel in a rat model. <i>Scientific Reports</i> , 2016, 6, 23931.	1.6	42
53	Double Perovskites as Model Bifunctional Catalysts toward Rational Design: The Correlation between Electrocatalytic Activity and Complex Spin Configuration. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19746-19754.	4.0	41
54	Concentration of Gengnian'an extract with a vapor-liquid-solid evaporator. <i>AIChE Journal</i> , 2005, 51, 759-765.	1.8	37

#	ARTICLE	IF	CITATIONS
55	Highly cross-linked Cu/a-Si core-shell nanowires for ultra-long cycle life and high rate lithium batteries. <i>Nanoscale</i> , 2016, 8, 2613-2619.	2.8	33
56	Ultrafine bimetallic phosphide nanoparticles embedded in carbon nanosheets: two-dimensional metal-organic framework-derived non-noble electrocatalysts for the highly efficient oxygen evolution reaction. <i>Nanoscale</i> , 2018, 10, 19774-19780.	2.8	31
57	Coupling Enhanced Performance of Triboelectric-Piezoelectric Hybrid Nanogenerator Based on Nanoporous Film of Poly(vinylidene fluoride)/BaTiO ₃ Composite Electrospun Fibers. , 2022, 4, 847-852.		30
58	Synthesis and electrochemical properties of graphene-SnS ₂ nanocomposites for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1999-2004.	1.2	29
59	Electronic Properties of Graphene Altered by Substrate Surface Chemistry and Externally Applied Electric Field. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6259-6267.	1.5	28
60	Recent Advances in Interface Engineering for Planar Heterojunction Perovskite Solar Cells. <i>Molecules</i> , 2016, 21, 837.	1.7	28
61	In situ growth of CuO nanoparticles on graphene matrix as anode material for lithium-ion batteries. <i>Materials Letters</i> , 2013, 105, 242-245.	1.3	27
62	Structural Characterization of Mesoporous Silica Nanofibers Synthesized Within Porous Alumina Membranes. <i>Nanoscale Research Letters</i> , 2009, 4, 1257-1262.	3.1	25
63	Conducting Polymers and Their Applications in Diabetes Management. <i>Sensors</i> , 2016, 16, 1787.	2.1	25
64	Application of conductive polymer hydrogels in flexible electronics. <i>Journal of Polymer Science</i> , 2022, 60, 2635-2662.	2.0	25
65	A novel route to CdS nanocrystals with strong electrogenerated chemiluminescence. <i>Materials Chemistry and Physics</i> , 2007, 101, 317-321.	2.0	24
66	Frequency-Enabled Decouplable Dual-Modal Flexible Pressure and Temperature Sensor. <i>IEEE Electron Device Letters</i> , 2020, 41, 1568-1571.	2.2	23
67	Reducing contact resistance in ferroelectric organic transistors by buffering the semiconductor/dielectric interface. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	21
68	In situ growth of mesoporous NiO nanoplates on a graphene matrix as cathode catalysts for rechargeable lithium-air batteries. <i>Materials Letters</i> , 2015, 141, 43-46.	1.3	21
69	Effect of ionic liquid amount (C ₈ H ₁₅ BrN ₂) on the morphology of Bi ₂ Te ₃ nanoplates synthesized via a microwave-assisted heating approach. <i>Journal of Alloys and Compounds</i> , 2011, 509, 6015-6020.	2.8	20
70	Challenges in Materials and Devices of Electronic Skin. , 2022, 4, 577-599.		20
71	Multiterminal Ionic Synaptic Transistor With Artificial Blink Reflex Function. <i>IEEE Electron Device Letters</i> , 2021, 42, 351-354.	2.2	19
72	Nanomaterials and their applications on bio-inspired wearable electronics. <i>Nanotechnology</i> , 2021, 32, 472002.	1.3	19

#	ARTICLE	IF	CITATIONS
73	Hierarchically porous N-doped carbon derived from supramolecular assembled polypyrrole as a high performance supercapacitor electrode material. <i>RSC Advances</i> , 2018, 8, 18714-18722.	1.7	18
74	Synthesis of CdS nanoplates by PAA-assisted hydrothermal approach. <i>Materials Letters</i> , 2006, 60, 3842-3845.	1.3	17
75	A molecular understanding of the gas-phase reduction and doping of graphene oxide. <i>Nano Research</i> , 2012, 5, 361-368.	5.8	16
76	Fabrication of nanowire-like cuprous oxide in aqueous solutions of a triblock copolymer. <i>Journal of Alloys and Compounds</i> , 2009, 482, 240-245.	2.8	15
77	Electrical switching behavior from ultrathin potential barrier of self-assembly molecules tuned by interfacial charge trapping. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	15
78	Skin-Inspired Electronics and Its Applications in Advanced Intelligent Systems. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900063.	3.3	15
79	Ultrafast microwave synthesis of rambutan-like CMK-3/carbon nanotubes nanocomposites for high-performance supercapacitor electrode materials. <i>Scientific Reports</i> , 2020, 10, 6227.	1.6	15
80	Sliding Cyclodextrin Molecules along Polymer Chains to Enhance the Stretchability of Conductive Composites. <i>Small</i> , 2022, 18, e2200533.	5.2	15
81	PbS/epoxy resin nanocomposite prepared by a novel method. <i>Materials Letters</i> , 2004, 58, 176-178.	1.3	14
82	Elastic Aerogel with Tunable Wettability for Self-Cleaning Electronic Skin. , 2020, 2, 1575-1582.		14
83	ZnO nanowire photodetectors based on Schottky contact with surface passivation. <i>Optics Communications</i> , 2017, 395, 72-75.	1.0	13
84	Self-assembly Synthesis of High-density Platinum Nanoparticles on Chemically Reduced Graphene Sheets. <i>Chemistry Letters</i> , 2011, 40, 104-105.	0.7	10
85	An Optimized FinFET Channel With Improved Line-Edge Roughness and Linewidth Roughness Using the Hydrogen Thermal Treatment Technology. <i>IEEE Nanotechnology Magazine</i> , 2017, 16, 1081-1087.	1.1	10
86	Solvothermal synthesis of 3D photonic crystals based on ZnS/opal system. <i>Materials Chemistry and Physics</i> , 2005, 89, 6-10.	2.0	9
87	Self-assembly of Polyaniline: Mechanism Study. <i>Chinese Journal of Chemical Physics</i> , 2008, 21, 187-192.	0.6	9
88	Electrical switching behavior from all-polymer-based system of semiconductor/ferroelectrics/semiconductor. <i>Applied Physics Letters</i> , 2011, 98, 173306.	1.5	9
89	Device Based on Polymer Schottky Junctions and Their Applications: A Review. <i>IEEE Access</i> , 2020, 8, 189646-189660.	2.6	9
90	Artificial Reflex Arc: An Environment-Adaptive Neuromorphic Camouflage Device. <i>IEEE Electron Device Letters</i> , 2021, 42, 1224-1227.	2.2	9

#	ARTICLE	IF	CITATIONS
91	Long-term cell culture and electrically <i>in situ</i> monitoring of living cells based on a polyaniline hydrogel sensor. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9514-9523.	2.9	9
92	Wearable Near-Field Communication Sensors for Healthcare: Materials, Fabrication and Application. <i>Micromachines</i> , 2022, 13, 784.	1.4	9
93	Fabrication of lateral electrodes on semiconductor nanowires through structurally matched insulation for functional optoelectronics. <i>Nanotechnology</i> , 2013, 24, 025204.	1.3	8
94	<i>In vivo</i> study of alginate hydrogel conglomerating cells to polycaprolactone vascular scaffolds fabricated by electrospinning. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 2443-2454.	1.6	8
95	Spontaneous Ga incorporation in ZnO nanowires epitaxially grown on GaN substrate. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 466-469.	1.2	5
96	Patterning of self-assembled monolayers by phase-shifting mask and its applications in large-scale assembly of nanowires. <i>Applied Physics Letters</i> , 2015, 106, 041605.	1.5	5
97	Kinetic Monte Carlo study on the evolution of silicon surface roughness under hydrogen thermal treatment. <i>Applied Surface Science</i> , 2017, 414, 361-364.	3.1	5
98	Microwave-Assisted Synthesis of Shuttle-shaped Single-Crystalline Te Nanotubes Decorated with Spherical Particles. <i>Current Nanoscience</i> , 2011, 7, 254-259.	0.7	4
99	Transparent Electronic Skin Device Based on Microstructured Silver Nanowire Electrode. <i>Chinese Journal of Chemical Physics</i> , 2017, 30, 603-608.	0.6	4
100	Alginate Hydrogel Conglutinate Cells on the Surface of Polycaprolactone Vascular Scaffolds Fabricated by Electrospinning. <i>Journal of Biomaterials and Tissue Engineering</i> , 2015, 5, 64-70.	0.0	4
101	Enhanced Nonenzymatic Sensing of Hydrogen Peroxide Released from Living Cells Based on Graphene Aerogel/Platinum Nanoparticle. <i>Science of Advanced Materials</i> , 2016, 8, 1165-1171.	0.1	4
102	Prospective on doping engineering of conductive polymers for enhanced interfacial properties. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	4
103	Enhancement of thermoelectric figure-of-merit in laterally-coupled nanowire arrays. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 2728-2732.	0.9	3
104	Metal-diffusion-induced ITO nanoparticles at the organic/ITO interface. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 165104.	1.3	3
105	Easy Preparation and Photoelectrochemical Properties of CdS Nanoparticle/Graphene Nanosheet Nanocomposites Using Supercritical Carbon Dioxide. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 2742-2751.	0.9	3
106	Self-Powered Direct-current Type Pressure Sensor by Polypyrrole/Metal Schottky Junction. <i>Journal Physics D: Applied Physics</i> , 0, , .	1.3	3
107	Recent progress on performances and mechanisms of carbon dots for gas sensing. <i>Luminescence</i> , 2023, 38, 896-908.	1.5	3
108	Synthesis of Multishell Carbon Nanotube Composites via Template Method. <i>Chinese Journal of Chemical Physics</i> , 2011, 24, 206-210.	0.6	2

#	ARTICLE	IF	CITATIONS
109	Template Synthesis of Freestanding Nanostructural Membrane of Polyaniline. Chemistry Letters, 2011, 40, 644-645.	0.7	2
110	Nanocellulose and nanohydrogel for energy, environmental, and biomedical applications. , 2020, , 33-64.		2
111	Solvothermal Fabrication of Monodisperse Zinc-blende CdS Nanocrystals. Chemistry Letters, 2006, 35, 1388-1389.	0.7	1
112	Charge trapping at organic/self-assembly molecule interfaces studied by electrical switching behaviour in a crosspoint structure. Journal Physics D: Applied Physics, 2012, 45, 025304.	1.3	1
113	Interweaving of multilevel carbon networks with mesoporous TiO ₂ for lithium-ion battery anodes. RSC Advances, 2013, 3, 24882.	1.7	1
114	An accessible superhydrophobic coating with nanostructure for continuously oil/water separation. , 2014, , .		1
115	Healthcare electronic skin devices. Journal of Semiconductors, 2019, 40, 030401.	2.0	1
116	Ballpoint-Pen Like Probes for Multipoint Dynamic Pulse Diagnosis System. IEEE Sensors Journal, 2022, 22, 12253-12259.	2.4	1
117	Formation of SnO ₂ nanoparticles at the AIDCN/ITO interface in organic cross-point memory devices. , 2008, , .		0
118	Broad excitation of Er luminescence in Er-doped HfO ₂ films. , 2008, , .		0
119	Charge trapping memory devices employing multi-layered Ge/Si nanocrystals for storage fabricated with ALD and PLD methods. Frontiers of Optoelectronics in China, 2011, 4, 146-149.	0.2	0
120	Identification of stable QTLs related to trunk girth in longan. Scientia Horticulturae, 2012, 134, 248-252.	1.7	0
121	Evolutionary process of nanoscale FinFET channel in hydrogen thermal treatment technology. , 2016, , .		0