

Li-jia Pan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118
papers

11,127
citations

42
h-index

105
g-index

124
ext. papers

12,580
ext. citations

7
avg, IF

6.39
L-index

#	Paper	IF	Citations
118	Challenges in Materials and Devices of Electronic Skin 2022 , 4, 577-599		6
117	Sliding Cyclodextrin Molecules along Polymer Chains to Enhance the Stretchability of Conductive Composites.. <i>Small</i> , 2022 , e2200533	11	3
116	Ballpoint-pen like probes for multipoint dynamic pulse diagnosis system. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	
115	Wearable Near-Field Communication Sensors for Healthcare: Materials, Fabrication and Application. <i>Micromachines</i> , 2022 , 13, 784	3.3	0
114	Long-term cell culture and electrically monitoring of living cells based on a polyaniline hydrogel sensor. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 9514-9523	7.3	2
113	Prospective on doping engineering of conductive polymers for enhanced interfacial properties. <i>Applied Physics Letters</i> , 2021 , 119, 150504	3.4	1
112	Sub-thermionic, ultra-high-gain organic transistors and circuits. <i>Nature Communications</i> , 2021 , 12, 1928	17.4	28
111	Multiterminal Ionic Synaptic Transistor With Artificial Blink Reflex Function. <i>IEEE Electron Device Letters</i> , 2021 , 42, 351-354	4.4	8
110	Artificial Reflex Arc: An Environment-Adaptive Neuromorphic Camouflage Device. <i>IEEE Electron Device Letters</i> , 2021 , 42, 1224-1227	4.4	1
109	Nanomaterials and their applications on bio-inspired wearable electronics. <i>Nanotechnology</i> , 2021 , 32,	3.4	6
108	Inkjet printing for flexible and wearable electronics. <i>APL Materials</i> , 2020 , 8, 120705	5.7	30
107	Skin-inspired electronics: emerging semiconductor devices and systems. <i>Journal of Semiconductors</i> , 2020 , 41, 041601	2.3	33
106	Oxide Synaptic Transistors Coupled With Triboelectric Nanogenerators for Bio-Inspired Tactile Sensing Application. <i>IEEE Electron Device Letters</i> , 2020 , 41, 617-620	4.4	24
105	MXenes and Their Applications in Wearable Sensors. <i>Frontiers in Chemistry</i> , 2020 , 8, 297	5	56
104	Ultrafast microwave synthesis of rambutan-like CMK-3/carbon nanotubes nanocomposites for high-performance supercapacitor electrode materials. <i>Scientific Reports</i> , 2020 , 10, 6227	4.9	7
103	Nanocellulose and nanohydrogel for energy, environmental, and biomedical applications 2020 , 33-64		2
102	Advanced Wearable Microfluidic Sensors for Healthcare Monitoring. <i>Small</i> , 2020 , 16, e1903822	11	53

101	Elastic Aerogel with Tunable Wettability for Self-Cleaning Electronic Skin 2020 , 2, 1575-1582		4
100	Device Based on Polymer Schottky Junctions and Their Applications: A Review. <i>IEEE Access</i> , 2020 , 8, 189645-189660		95
99	Frequency-Enabled Decouplable Dual-Modal Flexible Pressure and Temperature Sensor. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1568-1571	4.4	8
98	Advanced electronic skin devices for healthcare applications. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 173-197	7.3	120
97	Doping engineering of conductive polymer hydrogels and their application in advanced sensor technologies. <i>Chemical Science</i> , 2019 , 10, 6232-6244	9.4	76
96	Two-dimensional bimetallic phosphide ultrathin nanosheets as non-noble electrocatalysts for a highly efficient oxygen evolution reaction. <i>Nanoscale</i> , 2019 , 11, 9654-9660	7.7	26
95	Healthcare electronic skin devices. <i>Journal of Semiconductors</i> , 2019 , 40, 030401	2.3	1
94	Skin-Inspired Electronics and Its Applications in Advanced Intelligent Systems. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900063	6	12
93	Near-Field Communication Sensors. <i>Sensors</i> , 2019 , 19,	3.8	29
92	Properties of conductive polymer hydrogels and their application in sensors. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 1606-1621	2.6	32
91	Uniform and ultrathin high- κ gate dielectrics for two-dimensional electronic devices. <i>Nature Electronics</i> , 2019 , 2, 563-571	28.4	93
90	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	4.4	53
89	All Inkjet-Printed Amperometric Multiplexed Biosensors Based on Nanostructured Conductive Hydrogel Electrodes. <i>Nano Letters</i> , 2018 , 18, 3322-3327	11.5	133
88	Fast-Response and Low-Hysteresis Flexible Pressure Sensor Based on Silicon Nanowires. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1069-1072	4.4	26
87	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	9.5	23
86	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	15.6	285
85	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	7.7	22
84	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	3.7	12

83	Highly Sensitive, Printable Nanostructured Conductive Polymer Wireless Sensor for Food Spoilage Detection. <i>Nano Letters</i> , 2018 , 18, 4570-4575	11.5	131
82	ZnO nanowire photodetectors based on Schottky contact with surface passivation. <i>Optics Communications</i> , 2017 , 395, 72-75	2	8
81	Kinetic Monte Carlo study on the evolution of silicon surface roughness under hydrogen thermal treatment. <i>Applied Surface Science</i> , 2017 , 414, 361-364	6.7	4
80	Conducting Polymer Hydrogels: Synthesis, Properties, and Applications for Biosensors 2017 , 175-208		
79	Multifunctional Nanostructured Conductive Polymer Gels: Synthesis, Properties, and Applications. <i>Accounts of Chemical Research</i> , 2017 , 50, 1734-1743	24.3	257
78	In vivo study of alginate hydrogel coagulating cells to polycaprolactone vascular scaffolds fabricated by electrospinning. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 2443-2454	3.5	5
77	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	2.6	3
76	Transparent Electronic Skin Device Based on Microstructured Silver Nanowire Electrode. <i>Chinese Journal of Chemical Physics</i> , 2017 , 30, 603-608	0.9	2
75	Inkjet-printed porous polyaniline gel as an efficient anode for microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14555-14559	13	49
74	Energy gels: A bio-inspired material platform for advanced energy applications. <i>Nano Today</i> , 2016 , 11, 738-762	17.9	112
73	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	4.9	34
72	ZnO-nanorods/graphene heterostructure: a direct electron transfer glucose biosensor. <i>Scientific Reports</i> , 2016 , 6, 32327	4.9	63
71	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	15.6	92
70	A scalable sulfuration of WS ₂ to improve cyclability and capability of lithium-ion batteries. <i>Nano Research</i> , 2016 , 9, 857-865	10	57
69	Easy Preparation and Photoelectrochemical Properties of CdS Nanoparticle/Graphene Nanosheet Nanocomposites Using Supercritical Carbon Dioxide. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 2742-51	1.3	3
68	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	17.1	44
67	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, 1001-9	16.4	306
66	Highly cross-linked Cu/a-Si core-shell nanowires for ultra-long cycle life and high rate lithium batteries. <i>Nanoscale</i> , 2016 , 8, 2613-9	7.7	27

65	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	2.3	3
64	Recent Advances in Interface Engineering for Planar Heterojunction Perovskite Solar Cells. <i>Molecules</i> , 2016 , 21,	4.8	26
63	Conducting Polymers and Their Applications in Diabetes Management. <i>Sensors</i> , 2016 , 16,	3.8	17
62	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	15.6	113
61	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, 3329-34	11.5	147
60	Rational design and applications of conducting polymer hydrogels as electrochemical biosensors. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2920-2930	7.3	126
59	Dopant-Enabled Supramolecular Approach for Controlled Synthesis of Nanostructured Conductive Polymer Hydrogels. <i>Nano Letters</i> , 2015 , 15, 7736-41	11.5	178
58	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	3.4	4
57	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	3.3	20
56	Reducing contact resistance in ferroelectric organic transistors by buffering the semiconductor/dielectric interface. <i>Applied Physics Letters</i> , 2015 , 107, 053304	3.4	17
55	Spontaneous Ga incorporation in ZnO nanowires epitaxially grown on GaN substrate. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 466-469	2.5	5
54	Ultrahigh Surface Area Three-Dimensional Porous Graphitic Carbon from Conjugated Polymeric Molecular Framework. <i>ACS Central Science</i> , 2015 , 1, 68-76	16.8	177
53	A nanostructured conductive hydrogels-based biosensor platform for human metabolite detection. <i>Nano Letters</i> , 2015 , 15, 1146-51	11.5	286
52	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	0.3	4
51	Boost up carrier mobility for ferroelectric organic transistor memory via buffering interfacial polarization fluctuation. <i>Scientific Reports</i> , 2014 , 4, 7227	4.9	57
50	Nanostructured conductive polypyrrole hydrogels as high-performance, flexible supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6086-6091	13	516
49	A Three-Dimensionally Interconnected Carbon Nanotube-Conducting Polymer Hydrogel Network for High-Performance Flexible Battery Electrodes. <i>Advanced Energy Materials</i> , 2014 , 4, 1400207	21.8	242
48	An ultra-sensitive resistive pressure sensor based on hollow-sphere microstructure induced elasticity in conducting polymer film. <i>Nature Communications</i> , 2014 , 5, 3002	17.4	977

47	Towards intrinsic charge transport in monolayer molybdenum disulfide by defect and interface engineering. <i>Nature Communications</i> , 2014 , 5, 5290	17.4	448
46	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	3.3	44
45	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, 9966-74	9.5	36
44	Multifunctional superhydrophobic surfaces templated from innately microstructured hydrogel matrix. <i>Nano Letters</i> , 2014 , 14, 4803-9	11.5	159
43	An accessible superhydrophobic coating with nanostructure for continuously oil/water separation 2014 ,		1
42	3D nanostructured conductive polymer hydrogels for high-performance electrochemical devices. <i>Energy and Environmental Science</i> , 2013 , 6, 2856	35.4	302
41	In situ growth of CuO nanoparticles on graphene matrix as anode material for lithium-ion batteries. <i>Materials Letters</i> , 2013 , 105, 242-245	3.3	26
40	Interweaving of multilevel carbon networks with mesoporous TiO ₂ for lithium-ion battery anodes. <i>RSC Advances</i> , 2013 , 3, 24882	3.7	1
39	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	3.7	68
38	Hybrid nanostructured materials for high-performance electrochemical capacitors. <i>Nano Energy</i> , 2013 , 2, 213-234	17.1	883
37	Highly sensitive glucose sensor based on Pt nanoparticle/polyaniline hydrogel heterostructures. <i>ACS Nano</i> , 2013 , 7, 3540-6	16.7	597
36	Stable Li-ion battery anodes by in-situ polymerization of conducting hydrogel to conformally coat silicon nanoparticles. <i>Nature Communications</i> , 2013 , 4, 1943	17.4	971
35	Fabrication of lateral electrodes on semiconductor nanowires through structurally matched insulation for functional optoelectronics. <i>Nanotechnology</i> , 2013 , 24, 025204	3.4	7
34	Identification of stable QTLs related to trunk girth in longan. <i>Scientia Horticulturae</i> , 2012 , 134, 248-252	4.1	
33	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	3.8	26
32	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, 9287-92	11.5	850
31	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, 123104	3.4	420
30	A molecular understanding of the gas-phase reduction and doping of graphene oxide. <i>Nano Research</i> , 2012 , 5, 361-368	10	15

29	Graphene anchored with mesoporous NiO nanoplates as anode material for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1889-1892	2.6	52
28	Synthesis and electrochemical properties of graphene-SnS ₂ nanocomposites for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1999-2004	2.6	26
27	Metal-diffusion-induced ITO nanoparticles at the organic/ITO interface. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 165104	3	3
26	Charge trapping at organic/self-assembly molecule interfaces studied by electrical switching behaviour in a crosspoint structure. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 025304	3	1
25	Synthesis of Multishell Carbon Nanotube Composites via Template Method. <i>Chinese Journal of Chemical Physics</i> , 2011 , 24, 206-210	0.9	2
24	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	5.7	19
23	Microwave-Assisted Synthesis of Shuttle-shaped Single-Crystalline Te Nanotubes Decorated with Spherical Particles. <i>Current Nanoscience</i> , 2011 , 7, 254-259	1.4	3
22	Template Synthesis of Freestanding Nanostructural Membrane of Polyaniline. <i>Chemistry Letters</i> , 2011 , 40, 644-645	1.7	2
21	Self-assembly Synthesis of High-density Platinum Nanoparticles on Chemically Reduced Graphene Sheets. <i>Chemistry Letters</i> , 2011 , 40, 104-105	1.7	9
20	Hydrothermal synthesis of graphene-ZnS quantum dot nanocomposites. <i>Materials Letters</i> , 2011 , 65, 198-200	3.3	54
19	Charge trapping memory devices employing multi-layered Ge/Si nanocrystals for storage fabricated with ALD and PLD methods. <i>Frontiers of Optoelectronics in China</i> , 2011 , 4, 146-149		
18	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	3.3	225
17	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	2.3	3
16	Electrical switching behavior from all-polymer-based system of semiconductor/ferroelectrics/semiconductor. <i>Applied Physics Letters</i> , 2011 , 98, 173306	3.4	9
15	Electrical switching behavior from ultrathin potential barrier of self-assembly molecules tuned by interfacial charge trapping. <i>Applied Physics Letters</i> , 2010 , 96, 133303	3.4	15
14	Conducting polymer nanostructures: template synthesis and applications in energy storage. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 2636-57	6.3	271
13	Structural characterization of mesoporous silica nanofibers synthesized within porous alumina membranes. <i>Nanoscale Research Letters</i> , 2009 , 4, 1257-62	5	23
12	Fabrication of nanowire-like cuprous oxide in aqueous solutions of a triblock copolymer. <i>Journal of Alloys and Compounds</i> , 2009 , 482, 240-245	5.7	14

11	Self-assembly of Polyaniline: Mechanism Study. <i>Chinese Journal of Chemical Physics</i> , 2008 , 21, 187-192	0.9	8
10	A novel route to CdS nanocrystals with strong electrogenerated chemiluminescence. <i>Materials Chemistry and Physics</i> , 2007 , 101, 317-321	4.4	24
9	Synthesis of CdS nanoplates by PAA-assisted hydrothermal approach. <i>Materials Letters</i> , 2006 , 60, 3842-3845	3.5	16
8	Solvothermal Fabrication of Monodisperse Zinc-blende CdS Nanocrystals. <i>Chemistry Letters</i> , 2006 , 35, 1388-1389	1.7	1
7	Solvothermal synthesis of 3D photonic crystals based on ZnS/opal system. <i>Materials Chemistry and Physics</i> , 2005 , 89, 6-10	4.4	9
6	Concentration of Gengnian-Tan extract with a vapor-liquid-solid evaporator. <i>AIChE Journal</i> , 2005 , 51, 759-765	3.6	33
5	Luminescence and photophysical properties of colloidal ZnS nanoparticles. <i>Acta Materialia</i> , 2004 , 52, 1489-1494	8.4	96
4	PbS/epoxy resin nanocomposite prepared by a novel method. <i>Materials Letters</i> , 2004 , 58, 176-178	3.3	14
3	Self-Powered Direct-current Type Pressure Sensor by Polypyrrole/Metal Schottky Junction. <i>Journal Physics D: Applied Physics</i> ,	3	1
2	Application of conductive polymer hydrogels in flexible electronics. <i>Journal of Polymer Science</i> ,	2.4	3
1	Coupling Enhanced Performance of Triboelectric-Piezoelectric Hybrid Nanogenerator Based on Nanoporous Film of Poly(vinylidene fluoride)/BaTiO ₃ Composite Electrospun Fibers	847-852	1