Junshuai Li

List of Publications by Year
in descending order

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		159525	189801
115	3,012	30	50
papers	citations	h-index	g-index

117	117	117	2884
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improved comprehensive performance of CsPbI2Br perovskite solar cells by modifying the photoactive layers with carbon nanodots. Journal of Materiomics, 2022, 8, 358-365.	2.8	13
2	æº¶æ¶²æ³•å^¶å‡ç¡…/SnCl2å„ç¢çš„Ti3C2TxMXeneè‚–ç‰ˆçº§ åªé˜³ç”µæ±. Science China Materials, 2022, 65, 896-903.	3.5	10
3	High-performance aqueous asymmetric supercapacitors based on the cathode of one-step electrodeposited cracked bark-shaped nickel manganese sulfides on activated carbon cloth. Science China Technological Sciences, 2022, 65, 293-301.	2.0	11
4	Recent advances towards aqueous hydrogen peroxide formation in a direct current plasmaâ€“liquid system. High Voltage, 2022, 7, 405-419.	2.7	8
5	Synergetic effects of a front ITO nanocylinder array and a back square Al array to enhance light absorption for organic solar cells. Applied Optics, 2022, 61, 1726.	0.9	2
6	Mn(OH)2-coated Ni3S2 nanosheets on Ni foam as a cathode for high-performance aqueous asymmetric supercapacitors. Journal of Energy Storage, 2022, 51, 104513.	3.9	16
7	One-step electrodeposited Co and Mn layered double hydroxides on Ni foam for high-performance aqueous asymmetric supercapacitors. Journal of Energy Storage, 2022, 50, 104667.	3.9	16
8	NaBr-Modified CsPbI₂Br Improves the Comprehensive Performance of the Solar Cells. IEEE Journal of Photovoltaics, 2022, 12, 948-953.	1.5	6
9	Solution-Processed Back-Contact PEDOT:PSS/n-Si Heterojunction Solar Cells. ACS Applied Energy Materials, 2022, 5, 5502-5507.	2.5	4
10	SnCl₄-Treated Ti₃C₂T_x MXene Nanosheets for Schottky Junction Solar Cells with Improved Performance. ACS Applied Nano Materials, 2022, 5, 10064-10072.	2.4	6
11	MXenes for Solar Cells. Nano-Micro Letters, 2021, 13, 78.	14.4	90
12	Interconnected Vertical Î´-MnO₂ Nanoflakes Coated by a Dopamine-Derived Carbon Thin Shell as a High-Performance Self-Supporting Cathode for Aqueous Zinc Ion Batteries. Journal of the Electrochemical Society, 2021, 168, 030540.	1.3	19
13	One-step construction of Î´-MnO2 cathodes with an interconnected nanosheet structure on graphite paper for high-performance aqueous asymmetric supercapacitors. Journal of Energy Storage, 2021, 35, 102308.	3.9	17
14	Flexible lithium metal capacitors enabled by an in situ prepared gel polymer electrolyte. Chinese Chemical Letters, 2021, 32, 3496-3500.	4.8	16
15	Improvement of the Optoelectrical Properties of a Transparent Conductive Polymer via the Introduction of ITO Nanoparticles and Its Application in Crystalline Silicon/Organic Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 31171-31179.	4.0	5
16	Cracked bark-inspired ternary metallic sulfide (NiCoMnS4) nanostructure on carbon cloth for high-performance aqueous asymmetric supercapacitors. Science China Materials, 2021, 64, 1632-1641.	3.5	32
17	NiCo2O4 nanowire-supported NiCoMnS4 nanosheets on carbon cloth as a flexible cathode for high-performance aqueous supercapacitors. Electrochimica Acta, 2021, 398, 139324.	2.6	24
18	Carbon nanotubes@Ni3V2O8@NiCo2S4 nanosheets on Ni foam as a cathode for high-performance aqueous supercapacitors. Journal of Energy Storage, 2021, 44, 103496.	3.9	20

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19	Poly(3,4-ethylenedioxythiophene)â€“Polystyrenesulfonate-Added Layered Vanadium Oxide Cathode for High-Performance Zinc-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 14582-14589.	2.5	11
20	Nitrogen-doped nanodiamond films grown just by heating solid precursor thin layers for field emission application. Journal Physics D: Applied Physics, 2020, 53, 015101.	1.3	5
21	High-performance nitrogen and sulfur co-doped nanotube-like carbon anodes for sodium ion hybrid capacitors. Chinese Chemical Letters, 2020, 31, 2219-2224.	4.8	19
22	Interconnected Î´-MnO2 nanosheets anchored on activated carbon cloth as flexible electrode for high-performance aqueous asymmetric supercapacitors. Journal of Electroanalytical Chemistry, 2020, 877, 114656.	1.9	44
23	Bridging for Carriers by Embedding Metal Oxide Nanoparticles in the Photoactive Layer to Enhance Performance of Polymer Solar Cells. IEEE Journal of Photovoltaics, 2020, 10, 1353-1358.	1.5	16
24	TiO₂ Nanoparticles In Situ Formed on Ti₃C₂ Nanosheets by a Oneâ€Step Ethanolâ€Thermal Method for Enhanced Reversible Lithiumâ€Ion Storage. ChemistrySelect, 2020, 5, 3124-3129.	0.7	21
25	Hybrid Aqueous/Nonaqueous Waterâ€inâ€Bisalt Electrolyte Enables Safe Dual Ion Batteries. Small, 2020, 16, e1905838.	5.2	66
26	Enhanced performance and the related mechanisms of organic solar cells using Li-doped SnO2 as the electron transport layer. Materials Chemistry and Physics, 2020, 254, 123536.	2.0	9
27	A Hierarchical Interconnected Nanosheet Structure of Porous Î´-MnO₂ on Graphite Paper as Cathode with a Broad Potential Window for NaNO₃ Aqueous Electrolyte Supercapacitors. ACS Applied Energy Materials, 2020, 3, 2614-2622.	2.5	32
28	The formation mechanism of aqueous hydrogen peroxide in a plasma-liquid system with liquid as the anode. European Physical Journal D, 2020, 74, 1.	0.6	12
29	A simple and efficient device configuration applicable in high-performance solar cells with limited material requirements. Journal Physics D: Applied Physics, 2019, 52, 435501.	1.3	10
30	Ethanol-controlled peroxidation in liquid-anode discharges. Journal Physics D: Applied Physics, 2019, 52, 425205.	1.3	5
31	Pseudocapacitive reaction enhanced porous Co0.85Se/N-doped carbon anodes for advanced sodium-ion battery with high rate and capacity. Electrochimica Acta, 2019, 321, 134643.	2.6	16
32	Enhanced performance of polymer solar cells by adding SnO2 nanoparticles in the photoactive layer. Organic Electronics, 2019, 73, 7-12.	1.4	21
33	Effects of selenization conditions on microstructure evolution in solution processed Cu2ZnSn(S,Se)4 solar cells. Solar Energy Materials and Solar Cells, 2019, 195, 274-279.	3.0	33
34	Influence of the pH value on the degradation of an azo dye of methyl orange by air discharge plasma. Plasma Processes and Polymers, 2019, 16, 1800152.	1.6	7
35	The pH value control in air plasmaâ€“liquid system by sodium bicarbonate. European Physical Journal D, 2019, 73, 1.	0.6	2
36	Direct patterned growth of intrinsic/doped vertical graphene nanosheets on stainless steel via heating solid precursor films for field emission application. Materials and Design, 2019, 162, 293-299.	3.3	18

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37	Punching holes on paper-like electrodes: An effective strategy to enhance rate performance of supercapacitors. Energy Storage Materials, 2019, 19, 338-345.	9.5	19
38	Effect of sulfurization process on the properties of solution-processed Cu2SnS3 thin film solar cells. Journal of Materials Science: Materials in Electronics, 2019, 30, 17947-17955.	1.1	5
39	On the quantification of the dissolved hydroxyl radicals in the plasma-liquid system using the molecular probe method. Journal Physics D: Applied Physics, 2018, 51, 155205.	1.3	13
40	Optimization of DMSO-based precursor solution by H2O additive for performance enhancement of kesterite photovoltaic devices. Solar Energy Materials and Solar Cells, 2018, 179, 427-434.	3.0	42
41	High-performance free-standing capacitor electrodes of multilayered Co9S8 plates wrapped by carbonized poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate)/reduced graphene oxide. Journal of Power Sources, 2018, 379, 167-173.	4.0	59
42	MoS2/Ni3S4 composite nanosheets on interconnected carbon shells as an excellent supercapacitor electrode architecture for long term cycling at high current densities. Applied Surface Science, 2018, 440, 741-747.	3.1	49
43	Nanotube-like hard carbon as high-performance anode material for sodium ion hybrid capacitors. Science China Materials, 2018, 61, 285-295.	3.5	34
44	Excellent Light Confinement of Hemiellipsoid- and Inverted Hemiellipsoid-Modified Semiconductor Nanowire Arrays. Nanoscale Research Letters, 2018, 13, 236.	3.1	6
45	Selfâ€Support Surface Enhanced Raman Scattering Substrates with the Function of Enriching Analytes. Advanced Materials Interfaces, 2018, 5, 1800559.	1.9	1
46	A Dual Carbonâ€Based Potassium Dual Ion Battery with Robust Comprehensive Performance. Small, 2018, 14, e1801836.	5.2	118
47	The formation pathways of aqueous hydrogen peroxide in a plasma-liquid system with liquid as the cathode. Plasma Sources Science and Technology, 2018, 27, 085010.	1.3	38
48	What Are the Effective Reactants in the Plasma-Induced Wastewater Treatment?. Journal of the Electrochemical Society, 2018, 165, E454-E459.	1.3	11
49	Rapid activation and enhanced cycling stability of Co3O4 microspheres decorated by N-doped amorphous carbon shell for advanced LIBs. Electrochimica Acta, 2018, 283, 979-986.	2.6	36
50	Nanostructural optimization of silicon/PEDOT:PSS hybrid solar cells for performance improvement. Journal Physics D: Applied Physics, 2017, 50, 175105.	1.3	18
51	Effect of rGO Coating on Interconnected Co3O4 Nanosheets and Improved Supercapacitive Behavior of Co3O4/rGO/NF Architecture. Nano-Micro Letters, 2017, 9, 38.	14.4	67
52	Enhancing Open-Circuit Voltage of Solution-Processed Cu₂ZnSn(S,Se)₄ Solar Cells With Ag Substitution. IEEE Journal of Photovoltaics, 2017, 7, 874-881.	1.5	44
53	Simultaneous quantification of aqueous peroxide, nitrate, and nitrite during the plasmaâ€“liquid interactions by derivative absorption spectrophotometry. Journal Physics D: Applied Physics, 2017, 50, 445207.	1.3	32
54	Facile embedding of SiO2 nanoparticles in organic solar cells for performance improvement. Organic Electronics, 2017, 50, 77-81.	1.4	25

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55	Remarkable roomâ€temperature magnetoresistance in silicon strip devices. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1600253.	1.2	0
56	Wedge-shaped semiconductor nanowall arrays with excellent light management. Optics Letters, 2017, 42, 3928.	1.7	14
57	Nanostructured semiconductor solar absorbers with near 100% absorption and related light management picture. Journal Physics D: Applied Physics, 2016, 49, 215104.	1.3	11
58	Direct synthesis of hydrogen peroxide from plasma-water interactions. Scientific Reports, 2016, 6, 38454.	1.6	64
59	Vertical graphene nanosheets synthesized by thermal chemical vapor deposition and the field emission properties. Journal Physics D: Applied Physics, 2016, 49, 385301.	1.3	22
60	Plasma electrochemical synthesis of cuprous oxide nanoparticles and their visible-light photocatalytic effect. Electrochimica Acta, 2016, 222, 1677-1681.	2.6	24
61	High-Performance Black Multicrystalline Silicon Solar Cells by a Highly Simplified Metal-Catalyzed Chemical Etching Method. IEEE Journal of Photovoltaics, 2016, 6, 888-893.	1.5	20
62	Facile synthesis of cuprous oxide nanoparticles by plasma electrochemistry. Journal Physics D: Applied Physics, 2016, 49, 275201.	1.3	10
63	A review of plasmaâ€“liquid interactions for nanomaterial synthesis. Journal Physics D: Applied Physics, 2015, 48, 424005.	1.3	250
64	Radial junction Si micro/nano-wire array photovoltaics: Recent progress from theoretical investigation to experimental realization. Nano Energy, 2014, 7, 10-24.	8.2	46
65	Design and mechanism of cost-effective and highly efficient ultrathin (< 0.5 Î¼m) GaAs solar cells employing nano/micro-hemisphere surface texturing. AIP Advances, 2013, 3, .	0.6	7
66	Observation of Positive Self-Bias in Radio Frequency Atmospheric Pressure Microplasmas. IEEE Transactions on Plasma Science, 2013, 41, 826-828.	0.6	0
67	Efficient light trapping in low aspect-ratio honeycomb nanobowl surface texturing for crystalline silicon solar cell applications. Applied Physics Letters, 2013, 103, .	1.5	43
68	Mildly reduced graphene oxide-Ag nanoparticle hybrid films for surface-enhanced Raman scattering. Nanoscale Research Letters, 2012, 7, 205.	3.1	17
69	Solar energy harnessing in hexagonally arranged Si nanowire arrays and effects of array symmetry on optical characteristics. Nanotechnology, 2012, 23, 194010.	1.3	48
70	A novel low aspect-ratio Si nano-hemisphere surface texturing scheme for ultrathin film solar cells. , 2011, , .		0
71	Novel low aspect-ratio Si nano-hemisphere array surface texture application to ultrathin film solar cells. , 2011, , .		1
72	Surface plasmon enhanced light absorption for thin film poly-silicon solar cell with hybrid structure and metal alloy nano-particles. , 2011, , .		1

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73	Si Nanopillar Array Surface-Textured Thin-Film Solar Cell With Radial p-n Junction. IEEE Electron Device Letters, 2011, 32, 176-178.	2.2	32
74	Aligned Si nanowire-based solar cells. Nanoscale, 2011, 3, 4888.	2.8	44
75	Design guideline of high efficiency crystalline Si thin film solar cell with nanohole array textured surface. Journal of Applied Physics, 2011, 109, .	1.1	47
76	Low aspect-ratio hemispherical nanopit surface texturing for enhancing light absorption in crystalline Si thin film-based solar cells. Applied Physics Letters, 2011, 98, .	1.5	68
77	Optical simulation of low aspect ratio hemisphere array surface texturing for crystalline Si film solar cells. Energy Procedia, 2011, 8, 180-184.	1.8	5
78	Enhancement of Si-Based Solar Cell Efficiency via Nanostructure Integration. Green Energy and Technology, 2011, , 3-55.	0.4	0
79	Texturing of crystalline Si thin film solar cells via nanostructure to boost efficiency. International Journal of Nanoparticles, 2011, 4, 284.	0.1	1
80	Effects of the distance between the inductance coil and substrates on the microstructure and optical properties of silicon films deposited by ICP-CVD. Physics Procedia, 2011, 18, 128-135.	1.2	1
81	Boosting Short-Circuit Current With Rationally Designed Periodic Si Nanopillar Surface Texturing for Solar Cells. IEEE Transactions on Electron Devices, 2011, 58, 3224-3229.	1.6	21
82	Novel Silicon Nanohemisphereâ€Array Solar Cells with Enhanced Performance. Small, 2011, 7, 3138-3143.	5.2	50
83	Solar Cells: Novel Silicon Nanohemisphere-Array Solar Cells with Enhanced Performance (Small) Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.2	0
84	Low temperature polycrystalline silicon film formation by metal induced crystallization with nickel salt derived by ultrasonic spray pyrolysis. Crystal Research and Technology, 2011, 46, 935-938.	0.6	0
85	Periodic silicon nanocone arrays with controllable dimensions prepared by two-step etching using nanosphere lithography and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mstyle mathvariant="normal"><mml:mi>NH</mml:mi></mml:mstyle></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:math> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mstyle mathvariant="normal"><mml:mi>OH</mml:mi></mml:mstyle></mml:mrow><mml:mo>/</mml:mo><mml:msub><mml:mrow><mml:mstyle mathvariant="norma. Solid State Communications, 2011, 151, 127-129.	0.9	12
86	Periodically Aligned Si Nanopillar Arrays as Efficient Antireflection Layers for Solar Cell Applications. Nanoscale Research Letters, 2010, 5, 1721-1726.	3.1	60
87	Boosting short circuit current with rationally designed periodic Si nanopillar surface texturing for thin film solar cell. , 2010, , .		6
88	Si nanocone array optimization on crystalline Si thin films for solar energy harvesting. Journal Physics D: Applied Physics, 2010, 43, 255101.	1.3	43
89	A high efficiency and cost effective Si thin film solar cell with novel periodic nanohole textured surface. , 2010, , .		1
90	Optimization of periodic nanopore surface texturing for silicon thin film photovoltaic application. , 2010, , .		0

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91	Maskless fabrication of large scale Si nanohole array via laser annealed metal nanoparticles catalytic etching for photovoltaic application. Journal of Applied Physics, 2010, 108, .	1.1	14
92	Optical absorption enhancement in nanopore textured-silicon thin film for photovoltaic application. Optics Letters, 2010, 35, 40.	1.7	64
93	High-efficiency crystalline si thin film solar cells with Si nanopillar array textured surfaces. , 2010, , .		4
94	Design High-Efficiency Si Nanopillar-Array-Textured Thin-Film Solar Cell. IEEE Electron Device Letters, 2010, 31, 335-337.	2.2	36
95	Periodic silicon nanocones arrays with controllable dimensions prepared by two-step etching using nanosphere lithography and NH<inf>4</inf>OH/H<inf>2</inf>O<inf>2</inf> solution. , 2010, , .		0
96	Surface nanostructured high efficiency vertical wire-based solar cell. , 2010, , .		0
97	Indium tin oxide films prepared by atmospheric plasma annealing and their semiconductorâ€“metal conductivity transition around room temperature. Journal Physics D: Applied Physics, 2009, 42, 105303.	1.3	7
98	Si nanopillar array optimization on Si thin films for solar energy harvesting. Applied Physics Letters, 2009, 95, .	1.5	245
99	Columnar growth of crystalline silicon films on aluminium-coated glass by inductively coupled plasma CVD at room temperature. Chinese Physics B, 2009, 18, 773-777.	0.7	7
100	Low-temperature deposition of highly crystallized silicon films on Al-coated polyethylene napthalate by inductively coupled plasma CVD. Journal of Alloys and Compounds, 2009, 481, 278-282.	2.8	2
101	Design guidelines of periodic Si nanowire arrays for solar cell application. Applied Physics Letters, 2009, 95, .	1.5	167
102	Surface nanostructure optimization for solar energy harvesting in Si thin film based solar cells. , 2009, , .		16
103	Deposition and Growth Mechanism of Low-Temperature Crystalline Silicon Films on Inexpensive Substrates. Journal of the Korean Physical Society, 2009, 55, 2671-2676.	0.3	2
104	Highly crystallized silicon films grown on glass without amorphous incubation layers by inductively coupled plasma chemical vapor deposition. Journal of Crystal Growth, 2008, 310, 4340-4344.	0.7	11
105	The characterization of radio-frequency discharge using electrolyte solution as one electrode at atmospheric pressure. Journal Physics D: Applied Physics, 2008, 41, 175212.	1.3	24
106	Deposition of controllable preferred orientation silicon films on glass by inductively coupled plasma chemical vapor deposition. Journal of Applied Physics, 2008, 103, 043505.	1.1	29
107	Structure and Optical Properties of Si Films Deposited by Inductively Coupled Plasma CVD at Room Temperature. Key Engineering Materials, 2007, 336-338, 2228-2231.	0.4	0
108	Deposition and field emission properties of highly crystallized silicon films on aluminum-coated polyethylene napthalate. Journal of Crystal Growth, 2007, 306, 1-5.	0.7	8

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109	Study on the initial growth process of crystalline silicon films on aluminum-coated polyethylene napthalate by Raman spectroscopy. Journal of Crystal Growth, 2007, 308, 330-333.	0.7	8
110	Electron field emission from nano-crystalline Si films deposited by inductively coupled plasma CVD at room temperature. Science Bulletin, 2006, 51, 510-514.	1.7	1
111	Al-Induced Crystallization Growth of Si Films by Inductively Coupled Plasma Chemical Vapour Deposition. Chinese Physics Letters, 2006, 23, 3338-3340.	1.3	1
112	Abnormal Crystallization of Silicon Thin Films Deposited by ICP-CVD. Chinese Physics Letters, 2005, 22, 3130-3132.	1.3	5
113	Exact two-particle S-matrix of quantum sine-Gordon solitons. Communications in Mathematical Physics, 1977, 55, 183-186.	1.0	105
114	Solutionâ€Processed Organic/pâ€Type Silicon Hybrid Heterojunction Solar Cells. Physica Status Solidi - Rapid Research Letters, 0, , 2000560.	1.2	4
115	Enhancing Light Absorption for Organic Solar Cells Using a Front ITO Nanograting and Back Ultrathin Al layer. Chinese Physics B, 0, , .	0.7	2