

Ke Chen

List of Publications by Year in descending order

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papers

6,832
citations

61984
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104
times ranked

10059
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitigating Interfacial Mismatch between Lithium Metal and Garnet-Type Solid Electrolyte by Depositing Metal Nitride Lithiophilic Interlayer. ACS Applied Energy Materials, 2022, 5, 648-657.	5.1	16
2	Enhanced near-field coupling and tunable topological transitions in hyperbolic van der Waals metasurfaces for optical nanomanipulation. Nanoscale, 2022, 14, 7075-7082.	5.6	4
3	Controllable Growth of Graphene Photonic Crystal Fibers with Tunable Optical Nonlinearity. ACS Photonics, 2022, 9, 961-968.	6.6	7
4	Suppressing interface charge recombination for efficient integrated perovskite/organic bulk-heterojunction solar cells. Journal of Power Sources, 2022, 541, 231665.	7.8	6
5	Graphene-integrated waveguides: Properties, preparation, and applications. Nano Research, 2022, 15, 9704-9726.	10.4	7
6	Enhanced Hemocompatibility of a Direct Chemical Vapor Deposition-Derived Graphene Film. ACS Applied Materials & Interfaces, 2021, 13, 4835-4843.	8.0	8
7	Mitigating Open-Circuit Voltage Loss in Pb-Sn Low-Bandgap Perovskite Solar Cells via Additive Engineering. ACS Applied Energy Materials, 2021, 4, 1731-1742.	5.1	43
8	Grain Boundary Defect Passivation in Quadruple Cation Wide-Bandgap Perovskite Solar Cells. Solar Rrl, 2021, 5, 2000740.	5.8	19
9	Achieving High Pseudocapacitance Anode by An <i>In Situ</i> Nanocrystallization Strategy for Ultrastable Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 22577-22585.	8.0	10
10	Solving Lithium Dendrite Problems through Structure Design of Advanced Metal Anodes for Lithium Metal Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 2085-2085.	0.0	0
11	Plasma Oxidized Ti ₃ C ₂ T _x MXene as Electron Transport Layer for Efficient Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 32495-32502.	8.0	41
12	High-mass-loading Sn-based anode boosted by pseudocapacitance for long-life sodium-ion batteries. Chemical Engineering Journal, 2021, 414, 128638.	12.7	29
13	Facile Chemical Fabrication of a Three-Dimensional Copper Current Collector for Stable Lithium Metal Anodes. Journal of the Electrochemical Society, 2021, 168, 070502.	2.9	5
14	Ultraflat Langmuir-Blodgett assembled graphene oxide saturable-absorber films for pulsed near-infrared laser generation. Nanotechnology, 2021, 32, 385709.	2.6	8
15	Advanced strategies for the development of porous carbon as a Li host/current collector for lithium metal batteries. Energy Storage Materials, 2021, 41, 448-465.	18.0	60
16	MOF-derived hierarchical carbon network as an extremely-high-performance supercapacitor electrode. Electrochimica Acta, 2021, 394, 139058.	5.2	67
17	High efficiency photocatalytic reaction dominated by the direct transfer of hot electrons. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 115, 113699.	2.7	0
18	Tailored PEDOT:PSS hole transport layer for higher performance in perovskite solar cells: Enhancement of electrical and optical properties with improved morphology. Journal of Energy Chemistry, 2020, 44, 41-50.	12.9	105

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19	One-pot synthesis of 3D Au nanoparticle clusters with tunable size and their application. Nanotechnology, 2020, 31, 085601.	2.6	3
20	A copper-clad lithiophilic current collector for dendrite-free lithium metal anodes. Journal of Materials Chemistry A, 2020, 8, 1911-1919.	10.3	49
21	Molecule occupancy by a <i>n</i> -butylamine treatment to facilitate the conversion of PbI_2 to perovskite in sequential deposition. Physical Chemistry Chemical Physics, 2020, 22, 981-984.	2.8	4
22	Fluorinated hybrid solid-electrolyte-interphase for dendrite-free lithium deposition. Nature Communications, 2020, 11, 93.	12.8	312
23	High-energy plasma activation of renewable carbon for enhanced capacitive performance of supercapacitor electrode. Electrochimica Acta, 2020, 362, 137148.	5.2	31
24	Tailoring the Grain Boundaries of Wide-Bandgap Perovskite Solar Cells by Molecular Engineering. Solar Rrl, 2020, 4, 2000384.	5.8	15
25	Structural Regulation for Highly Efficient and Stable Perovskite Solar Cells via Mixed-Vapor Deposition. ACS Applied Energy Materials, 2020, 3, 6544-6551.	5.1	10
26	Rear-Illuminated Perovskite Photorechargeable Lithium Battery. Advanced Functional Materials, 2020, 30, 2001865.	14.9	31
27	Synthesis of Au@ZIF-8 nanocomposites for enhanced electrochemical detection of dopamine. Electrochemistry Communications, 2020, 114, 106715.	4.7	97
28	Superstable copper nanowire network electrodes by single-crystal graphene covering and their applications in flexible nanogenerator and light-emitting diode. Nano Energy, 2020, 71, 104638.	16.0	35
29	The electronic properties tuned by the synergy of polaron and d-orbital in a Co-Sn co-intercalated $\text{Li}_x\text{-MoO}_3$ system. Journal of Materials Chemistry C, 2020, 8, 6536-6541.	5.5	9
30	Phenylhydrazinium Iodide for Surface Passivation and Defects Suppression in Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2000778.	14.9	103
31	Massive Growth of Graphene Quartz Fiber as a Multifunctional Electrode. ACS Nano, 2020, 14, 5938-5945.	14.6	43
32	Flexible 3D Cu/C Scaffolds As Lithium Host for Dendrite-Free Lithium Metal Battery. ECS Meeting Abstracts, 2020, MA2020-02, 3787-3787.	0.0	0
33	Ultrathin Bilayer of Graphite/ SiO_2 as Solid Interface for Reviving Li Metal Anode. Advanced Energy Materials, 2019, 9, 1901486.	19.5	128
34	The distinctive phase stability and defect physics in CsPbI_2Br perovskite. Journal of Materials Chemistry A, 2019, 7, 20201-20207.	10.3	64
35	Graphene photonic crystal fibre with strong and tunable light-matter interaction. Nature Photonics, 2019, 13, 754-759.	31.4	127
36	Ultrafast Catalyst-Free Graphene Growth on Glass Assisted by Local Fluorine Supply. ACS Nano, 2019, 13, 10272-10278.	14.6	32

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37	High-performance carbon electrode-based CsPbI ₂ Br inorganic perovskite solar cell based on poly(3-hexylthiophene)-carbon nanotubes composite hole-transporting layer. Journal of Colloid and Interface Science, 2019, 555, 180-186.	9.4	58
38	Capacity Revival of Tungsten trioxide Anode Material in Lithium-Ion Battery. , 2019, , .		0
39	Size and crystallinity control of dispersed VO ₂ particles for modulation of metal-insulator transition temperature and hysteresis. CrystEngComm, 2019, 21, 5749-5756.	2.6	16
40	A review on strategies addressing interface incompatibilities in inorganic all-solid-state lithium batteries. Sustainable Energy and Fuels, 2019, 3, 3279-3309.	4.9	83
41	SnO ₂ Nanoparticles Embedded Biochar as Anode Material in Lithium Ion Batteries. , 2019, , .		1
42	Thermal and illumination effects on a PbI ₂ nanoplate and its transformation to CH ₃ NH ₃ PbI ₃ perovskite. CrystEngComm, 2019, 21, 736-740.	2.6	4
43	Improving photovoltaic performance of carbon-based CsPbBr ₃ perovskite solar cells by interfacial engineering using P3HT interlayer. Journal of Power Sources, 2019, 432, 48-54.	7.8	94
44	The novel transistor and photodetector of monolayer MoS ₂ based on surface-ionic-gate modulation powered by a triboelectric nanogenerator. Nano Energy, 2019, 62, 38-45.	16.0	46
45	Nitrogen-doped graphdiyne nanowall stabilized dendrite-free lithium metal anodes. Journal of Materials Chemistry A, 2019, 7, 27535-27546.	10.3	28
46	Modeling of Charge Transfer in Mesoscopic Perovskite Solar Cells by Considering a Trapassisted Interface. , 2019, , .		1
47	Flower-shaped lithium nitride as a protective layer via facile plasma activation for stable lithium metal anodes. Energy Storage Materials, 2019, 18, 389-396.	18.0	149
48	Research progress of solution processed all-inorganic perovskite solar cell. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 158806.	0.5	4
49	Scalable chemical-vapour-deposition growth of three-dimensional graphene materials towards energy-related applications. Chemical Society Reviews, 2018, 47, 3018-3036.	38.1	140
50	Fabrication of PANI-coated ZnFe ₂ O ₄ nanofibers with enhanced electrochemical performance for energy storage. Electrochimica Acta, 2018, 273, 282-288.	5.2	36
51	Switching Vertical to Horizontal Graphene Growth Using Faraday Cage-Assisted PECVD Approach for High-Performance Transparent Heating Device. Advanced Materials, 2018, 30, 1704839.	21.0	62
52	A strategic review on processing routes towards highly efficient perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 2406-2431.	10.3	179
53	Low-dimensional perovskite interlayer for highly efficient lead-free formamidinium tin iodide perovskite solar cells. Nano Energy, 2018, 49, 411-418.	16.0	184
54	Mineral-Templated 3D Graphene Architectures for Energy-Efficient Electrodes. Small, 2018, 14, e1801009.	10.0	21

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55	Solution-processed all-oxide bulk heterojunction solar cells based on CuO nanorod array and TiO ₂ nanocrystals. Nanotechnology, 2018, 29, 215403.	2.6	7
56	Growth of defect-engineered graphene on manganese oxides for Li-ion storage. Energy Storage Materials, 2018, 12, 110-118.	18.0	26
57	Rapid and Low-Temperature Processing of Mesoporous and Nanocrystalline TiO ₂ Film Using Microwave Irradiation. ACS Applied Energy Materials, 2018, 1, 6288-6294.	5.1	9
58	Inverted Current–Voltage Hysteresis in Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 2457-2460.	17.4	84
59	Highly Conductive Nitrogen-Doped Graphene Grown on Glass toward Electrochromic Applications. ACS Applied Materials & Interfaces, 2018, 10, 32622-32630.	8.0	37
60	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. Science, 2018, 360, 1442-1446.	12.6	1,221
61	Self-recovery in Li-metal hybrid lithium-ion batteries via WO ₃ reduction. Nanoscale, 2018, 10, 15956-15966.	5.6	87
62	Bias-Dependent Normal and Inverted J–V Hysteresis in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 25604-25613.	8.0	77
63	Comparison of performance and optoelectronic processes in ZnO and TiO ₂ nanorod array-based hybrid solar cells. Applied Surface Science, 2018, 456, 124-132.	6.1	18
64	Highly Efficient Perovskite Solar Cell Photocharging of Lithium Ion Battery Using DC–DC Booster. Advanced Energy Materials, 2017, 7, 1602105.	19.5	128
65	Pinhole-Free Hybrid Perovskite Film with Arbitrarily-Shaped Micro-Patterns for Functional Optoelectronic Devices. Nano Letters, 2017, 17, 3563-3569.	9.1	57
66	Fabrication of compact and stable perovskite films with optimized precursor composition in the fast-growing procedure. Science China Materials, 2017, 60, 608-616.	6.3	12
67	Dual-Source Precursor Approach for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. Advanced Materials, 2017, 29, 1604758.	21.0	142
68	One-Step Growth of Graphene/Carbon Nanotube Hybrid Films on Soda-Lime Glass for Transparent Conducting Applications. Advanced Electronic Materials, 2017, 3, 1700212.	5.1	17
69	Activation of Passive Nanofillers in Composite Polymer Electrolyte for Higher Performance Lithium-Ion Batteries. Advanced Sustainable Systems, 2017, 1, 1700043.	5.3	26
70	Charge Carrier Balance for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells Based on Interface Engineering. , 2016, , .		0
71	Mesoporous PbI ₂ Scaffold for High-Performance Planar Heterojunction Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1501890.	19.5	124
72	Inverted Perovskite Solar Cells: Progresses and Perspectives. Advanced Energy Materials, 2016, 6, 1600457.	19.5	387

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73	Perovskite Solar Cells: High-Performance Inverted Planar Heterojunction Perovskite Solar Cells Based on Lead Acetate Precursor with Efficiency Exceeding 18% (Adv. Funct. Mater. 20/2016). Advanced Functional Materials, 2016, 26, 3551-3551.	14.9	6
74	Scalable Seashell-Based Chemical Vapor Deposition Growth of Three-Dimensional Graphene Foams for Oil-Water Separation. Journal of the American Chemical Society, 2016, 138, 6360-6363.	13.7	212
75	Charge-Carrier Balance for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. Advanced Materials, 2016, 28, 10718-10724.	21.0	214
76	Growing three-dimensional biomorphic graphene powders using naturally abundant diatomite templates towards high solution processability. Nature Communications, 2016, 7, 13440.	12.8	93
77	High-Performance Inverted Planar Heterojunction Perovskite Solar Cells Based on Lead Acetate Precursor with Efficiency Exceeding 18%. Advanced Functional Materials, 2016, 26, 3508-3514.	14.9	176
78	Bioinspired synthesis of CVD graphene flakes and graphene-supported molybdenum sulfide catalysts for hydrogen evolution reaction. Nano Research, 2016, 9, 249-259.	10.4	24
79	Catalyst-Free Growth of Three-Dimensional Graphene Flakes and Graphene/g-C ₃ N ₄ Composite for Hydrocarbon Oxidation. ACS Nano, 2016, 10, 3665-3673.	14.6	122
80	Electrospun synthesis and electrochemical property of zinc ferrite nanofibers. Ionics, 2016, 22, 967-974.	2.4	13
81	Direct Synthesis of Few-Layer Graphene on NaCl Crystals. Small, 2015, 11, 6302-6308.	10.0	57
82	Sonochemical synthesis and high lithium storage properties of Sn/CMK-3 nanocomposites. Electrochimica Acta, 2015, 165, 149-154.	5.2	9
83	Fabrication of electrospun ZnMn ₂ O ₄ nanofibers as anode material for lithium-ion batteries. Electrochimica Acta, 2015, 177, 283-289.	5.2	44
84	Electrospun synthesis and lithium storage properties of magnesium ferrite nanofibers. Electrochimica Acta, 2015, 160, 43-49.	5.2	43
85	Uniform single-layer graphene growth on recyclable tungsten foils. Nano Research, 2015, 8, 592-599.	10.4	18
86	Facile synthesis of one-dimensional zinc vanadate nanofibers for high lithium storage anode material. Journal of Alloys and Compounds, 2015, 649, 1019-1024.	5.5	42
87	A highly efficient, orange light-emitting (K _{0.5} Na _{0.5})NbO ₃ :Sm ³⁺ /Zr ⁴⁺ lead-free piezoelectric material with superior water resistance behavior. Journal of Materials Chemistry C, 2015, 3, 5275-5284.	5.5	54
88	Amino-functionalized magnetic magnesium silicate double-shelled hollow microspheres for enhanced removal of lead ions. RSC Advances, 2015, 5, 22973-22979.	3.6	21
89	Low temperature pseudomorphic synthesis of nanocrystalline carbide aerogels for electrocatalysis. Journal of Materials Chemistry A, 2015, 3, 11745-11749.	10.3	12
90	Fast-growing procedure for perovskite films in planar heterojunction perovskite solar cells. Chinese Chemical Letters, 2015, 26, 1518-1521.	9.0	16

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91	A universal etching-free transfer of MoS ₂ films for applications in photodetectors. Nano Research, 2015, 8, 3662-3672.	10.4	94
92	Direct low-temperature synthesis of graphene on various glasses by plasma-enhanced chemical vapor deposition for versatile, cost-effective electrodes. Nano Research, 2015, 8, 3496-3504.	10.4	112
93	Laccase Biosensor Based on Electrospun Copper/Carbon Composite Nanofibers for Catechol Detection. Sensors, 2014, 14, 3543-3556.	3.8	61
94	Template confined synthetic strategy for three-dimensional free-standing hierarchical porous nanocrystalline tantalum. Materials Letters, 2014, 116, 31-34.	2.6	6
95	High lithium electroactivity of electrospun CuFe ₂ O ₄ nanofibers as anode material for lithium-ion batteries. Electrochimica Acta, 2014, 144, 85-91.	5.2	74
96	Synthesis and characterization of carbide nanosheets by a template-confined reaction. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	9
97	Reduced graphene oxide paper by supercritical ethanol treatment and its electrochemical properties. Applied Surface Science, 2012, 258, 5299-5303.	6.1	45
98	Potential SiO ₂ /CRF bilayer perturbation aerogel target for ICF hydrodynamic instability experiment. Fusion Engineering and Design, 2012, 87, 92-97.	1.9	7
99	Freestanding monolithic silicon aerogels. Journal of Materials Chemistry, 2012, 22, 16196.	6.7	58
100	One-pot synthesis, characterization and properties of acid-catalyzed resorcinol/formaldehyde cross-linked silica aerogels and their conversion to hierarchical porous carbon monoliths. Journal of Sol-Gel Science and Technology, 2012, 62, 294-303.	2.4	27
101	Synthesis of resorcinol-formaldehyde/silica composite aerogels and their low-temperature conversion to mesoporous silicon carbide. Microporous and Mesoporous Materials, 2012, 149, 16-24.	4.4	65
102	Design and fabrication of a CH/CRF dual-layer perturbation target for ICF hydrodynamic experiments. Nuclear Fusion, 2011, 51, 083044.	3.5	5
103	Dynamics analysis of erythrosine B sensitized photopolymer holographic gratings. , 2008, , .		0
104	Comparison of high-density holographic characteristics of photopolymers sensitized by two kinds of thiazine dyes. , 2008, , .		0