Ke Chen

List of Publications by Year in descending order

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61977 60616 6,832 104 43 81 citations h-index g-index papers 104 104 104 10059 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Enhanced photovoltage for inverted planar heterojunction perovskite solar cells. Science, 2018, 360, 1442-1446.	12.6	1,221
2	Inverted Perovskite Solar Cells: Progresses and Perspectives. Advanced Energy Materials, 2016, 6, 1600457.	19.5	387
3	Fluorinated hybrid solid-electrolyte-interphase for dendrite-free lithium deposition. Nature Communications, 2020, $11,93$.	12.8	312
4	Chargeâ€Carrier Balance for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. Advanced Materials, 2016, 28, 10718-10724.	21.0	214
5	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
6	Low-dimensional perovskite interlayer for highly efficient lead-free formamidinium tin iodide perovskite solar cells. Nano Energy, 2018, 49, 411-418.	16.0	184
7	A strategic review on processing routes towards highly efficient perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 2406-2431.	10.3	179
8	Highâ€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
9	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
10	Dualâ€Source Precursor Approach for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. Advanced Materials, 2017, 29, 1604758.	21.0	142
11	Scalable chemical-vapour-deposition growth of three-dimensional graphene materials towards energy-related applications. Chemical Society Reviews, 2018, 47, 3018-3036.	38.1	140
12	Highly Efficient Perovskite Solar Cell Photocharging of Lithium Ion Battery Using DC–DC Booster. Advanced Energy Materials, 2017, 7, 1602105.	19.5	128
13	Ultrathin Bilayer of Graphite/SiO ₂ as Solid Interface for Reviving Li Metal Anode. Advanced Energy Materials, 2019, 9, 1901486.	19.5	128
14	Graphene photonic crystal fibre with strong and tunable light–matter interaction. Nature Photonics, 2019, 13, 754-759.	31.4	127
15	Mesoporous Pbl ₂ Scaffold for Highâ€Performance Planar Heterojunction Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1501890.	19.5	124
16	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
17	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
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	Phenylhydrazinium lodide for Surface Passivation and Defects Suppression in Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2000778.	14.9	103
20	Synthesis of Au@ZIF-8 nanocomposites for enhanced electrochemical detection of dopamine. Electrochemistry Communications, 2020, 114, 106715.	4.7	97
21	A universal etching-free transfer of MoS2 films for applications in photodetectors. Nano Research, 2015, 8, 3662-3672.	10.4	94
22	Improving photovoltaic performance of carbon-based CsPbBr3 perovskite solar cells by interfacial engineering using P3HT interlayer. Journal of Power Sources, 2019, 432, 48-54.	7.8	94
23	Growing three-dimensional biomorphic graphene powders using naturally abundant diatomite templates towards high solution processability. Nature Communications, 2016, 7, 13440.	12.8	93
24	Self-recovery in Li-metal hybrid lithium-ion batteries <i>via</i> WO ₃ reduction. Nanoscale, 2018, 10, 15956-15966.	5.6	87
25	Inverted Current–Voltage Hysteresis in Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 2457-2460.	17.4	84
26	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
27	Bias-Dependent Normal and Inverted ⟨i⟩J⟨ i⟩–⟨i⟩V⟨ i⟩ Hysteresis in Perovskite Solar Cells. ACS Applied Materials & Company: Interfaces, 2018, 10, 25604-25613.	8.0	77
28	High lithium electroactivity of electrospun CuFe2O4 nanofibers as anode material for lithium-ion batteries. Electrochimica Acta, 2014, 144, 85-91.	5. 2	74
29	MOF-derived hierarchical carbon network as an extremely-high-performance supercapacitor electrode. Electrochimica Acta, 2021, 394, 139058.	5.2	67
30	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
31	The distinctive phase stability and defect physics in CsPbl ₂ Br perovskite. Journal of Materials Chemistry A, 2019, 7, 20201-20207.	10.3	64
32	Switching Vertical to Horizontal Graphene Growth Using Faraday Cageâ€Assisted PECVD Approach for Highâ€Performance Transparent Heating Device. Advanced Materials, 2018, 30, 1704839.	21.0	62
33	Laccase Biosensor Based on Electrospun Copper/Carbon Composite Nanofibers for Catechol Detection. Sensors, 2014, 14, 3543-3556.	3.8	61
34	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
35	Freestanding monolithic silicon aerogels. Journal of Materials Chemistry, 2012, 22, 16196.	6.7	58
36	High-performance carbon electrode-based CsPbI2Br 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

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37	Direct Synthesis of Fewâ€Layer Graphene on NaCl Crystals. Small, 2015, 11, 6302-6308.	10.0	57
38	Pinhole-Free Hybrid Perovskite Film with Arbitrarily-Shaped Micro-Patterns for Functional Optoelectronic Devices. Nano Letters, 2017, 17, 3563-3569.	9.1	57
39	A highly efficient, orange light-emitting (K _{0.5} Na _{0.5} Neoderic resistance behavior. Journal of Materials Chemistry C, 2015. 3. 5275-5284.	5 . 5	54
40	A copper-clad lithiophilic current collector for dendrite-free lithium metal anodes. Journal of Materials Chemistry A, 2020, 8, 1911-1919.	10.3	49
41	The novel transistor and photodetector of monolayer MoS2 based on surface-ionic-gate modulation powered by a triboelectric nanogenerator. Nano Energy, 2019, 62, 38-45.	16.0	46
42	Reduced graphene oxide paper by supercritical ethanol treatment and its electrochemical properties. Applied Surface Science, 2012, 258, 5299-5303.	6.1	45
43	Fabrication of electrospun ZnMn 2 O 4 nanofibers as anode material for lithium-ion batteries. Electrochimica Acta, 2015, 177, 283-289.	5.2	44
44	Electrospun synthesis and lithium storage properties of magnesium ferrite nanofibers. Electrochimica Acta, 2015, 160, 43-49.	5.2	43
45	Massive Growth of Graphene Quartz Fiber as a Multifunctional Electrode. ACS Nano, 2020, 14, 5938-5945.	14.6	43
46	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
47	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
48	Plasma Oxidized Ti ₃ C ₂ T _{<i>x</i>} MXene as Electron Transport Layer for Efficient Perovskite Solar Cells. ACS Applied Materials & Samp; Interfaces, 2021, 13, 32495-32502.	8.0	41
49	Highly Conductive Nitrogen-Doped Graphene Grown on Glass toward Electrochromic Applications. ACS Applied Materials & Diterfaces, 2018, 10, 32622-32630.	8.0	37
50	Fabrication of PANI-coated ZnFe2O4 nanofibers with enhanced electrochemical performance for energy storage. Electrochimica Acta, 2018, 273, 282-288.	5.2	36
51	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
52	Ultrafast Catalyst-Free Graphene Growth on Glass Assisted by Local Fluorine Supply. ACS Nano, 2019, 13, 10272-10278.	14.6	32
53	High-energy plasma activation of renewable carbon for enhanced capacitive performance of supercapacitor electrode. Electrochimica Acta, 2020, 362, 137148.	5. 2	31
54	Rearâ€Illuminated Perovskite Photorechargeable Lithium Battery. Advanced Functional Materials, 2020, 30, 2001865.	14.9	31

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55	High-mass-loading Sn-based anode boosted by pseudocapacitance for long-life sodium-ion batteries. Chemical Engineering Journal, 2021, 414, 128638.	12.7	29
56	Nitrogen-doped graphdiyne nanowall stabilized dendrite-free lithium metal anodes. Journal of Materials Chemistry A, 2019, 7, 27535-27546.	10.3	28
57	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
58	Activation of Passive Nanofillers in Composite Polymer Electrolyte for Higher Performance Lithiumâ€Ion Batteries. Advanced Sustainable Systems, 2017, 1, 1700043.	5. 3	26
59	Growth of defect-engineered graphene on manganese oxides for Li-ion storage. Energy Storage Materials, 2018, 12, 110-118.	18.0	26
60	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
61	Amino-functionalized magnetic magnesium silicate double-shelled hollow microspheres for enhanced removal of lead ions. RSC Advances, 2015, 5, 22973-22979.	3.6	21
62	Mineralâ€Templated 3D Graphene Architectures for Energyâ€Efficient Electrodes. Small, 2018, 14, e1801009.	10.0	21
63	Grain Boundary Defect Passivation in Quadruple Cation Wideâ€Bandgap Perovskite Solar Cells. Solar Rrl, 2021, 5, 2000740.	5.8	19
64	Uniform single-layer graphene growth on recyclable tungsten foils. Nano Research, 2015, 8, 592-599.	10.4	18
65	Comparison of performance and optoelectronic processes in ZnO and TiO2 nanorod array-based hybrid solar cells. Applied Surface Science, 2018, 456, 124-132.	6.1	18
66	Oneâ€Step Growth of Graphene/Carbon Nanotube Hybrid Films on Sodaâ€Lime Glass for Transparent Conducting Applications. Advanced Electronic Materials, 2017, 3, 1700212.	5.1	17
67	Fast-growing procedure for perovskite films in planar heterojunction perovskite solar cells. Chinese Chemical Letters, 2015, 26, 1518-1521.	9.0	16
68	Size and crystallinity control of dispersed VO ₂ particles for modulation of metalâ€"insulator transition temperature and hysteresis. CrystEngComm, 2019, 21, 5749-5756.	2.6	16
69	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
70	Tailoring the Grain Boundaries of Wideâ€Bandgap Perovskite Solar Cells by Molecular Engineering. Solar Rrl, 2020, 4, 2000384.	5.8	15
71	Electrospun synthesis and electrochemical property of zinc ferrite nanofibers. lonics, 2016, 22, 967-974.	2.4	13
72	Low temperature pseudomorphic synthesis of nanocrystalline carbide aerogels for electrocatalysis. Journal of Materials Chemistry A, 2015, 3, 11745-11749.	10.3	12

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73	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
74	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
75	Achieving High Pseudocapacitance Anode by An <i>In Situ</i> Nanocrystallization Strategy for Ultrastable Sodium-Ion Batteries. ACS Applied Materials & Samp; Interfaces, 2021, 13, 22577-22585.	8.0	10
76	Synthesis and characterization of carbide nanosheets by a template-confined reaction. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	9
77	Sonochemical synthesis and high lithium storage properties of Sn/CMK-3 nanocomposites. Electrochimica Acta, 2015, 165, 149-154.	5. 2	9
78	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
79	The electronic properties tuned by the synergy of polaron and d-orbital in a Co–Sn co-intercalated α-MoO ₃ system. Journal of Materials Chemistry C, 2020, 8, 6536-6541.	5 . 5	9
80	Enhanced Hemocompatibility of a Direct Chemical Vapor Deposition-Derived Graphene Film. ACS Applied Materials & Samp; Interfaces, 2021, 13, 4835-4843.	8.0	8
81	Ultraflat Langmuir–Blodgett assembled graphene oxide saturable-absorber films for pulsed near-infrared laser generation. Nanotechnology, 2021, 32, 385709.	2.6	8
82	Potential SiO2/CRF bilayer perturbation aerogel target for ICF hydrodynamic instability experiment. Fusion Engineering and Design, 2012, 87, 92-97.	1.9	7
83	Solution-processed all-oxide bulk heterojunction solar cells based on CuO nanaorod array and TiO2nanocrystals. Nanotechnology, 2018, 29, 215403.	2.6	7
84	Controllable Growth of Graphene Photonic Crystal Fibers with Tunable Optical Nonlinearity. ACS Photonics, 2022, 9, 961-968.	6.6	7
85	Graphene-integrated waveguides: Properties, preparation, and applications. Nano Research, 2022, 15, 9704-9726.	10.4	7
86	Template confined synthetic strategy for three-dimensional free-standing hierarchical porous nanocrystalline tantalum. Materials Letters, 2014, 116, 31-34.	2.6	6
87	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
88	Suppressing interface charge recombination for efficient integrated perovskite/organic bulk-heterojunction solar cells. Journal of Power Sources, 2022, 541, 231665.	7.8	6
89	Design and fabrication of a CH/CRF dual-layer perturbation target for ICF hydrodynamic experiments. Nuclear Fusion, 2011, 51, 083044.	3.5	5
90	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

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91	Thermal and illumination effects on a Pbl ₂ nanoplate and its transformation to CH ₃ NH ₃ Pbl ₃ perovskite. CrystEngComm, 2019, 21, 736-740.	2.6	4
92	Molecule occupancy by a <i>n</i> -butylamine treatment to facilitate the conversion of Pbl ₂ to perovskite in sequential deposition. Physical Chemistry Chemical Physics, 2020, 22, 981-984.	2.8	4
93	Research progress of solution processed all-inorganic perovskite solar cell. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 158806.	0.5	4
94	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
95	One-pot synthesis of 3D Au nanoparticle clusters with tunable size and their application. Nanotechnology, 2020, 31, 085601.	2.6	3
96	SnO2 Nanoparticles Embedded Biochar as Anode Material in Lithium Ion Batteries. , 2019, , .		1
97	Modeling of Charge Transfer in Mesoscopic Perovskite Solar Cells by Considering a Trapassisted Interface., 2019,,.		1
98	Dynamics analysis of erythrosine B sensitized photopolymer holographic gratings. , 2008, , .		0
99	Comparison of high-density holographic characteristics of photopolymers sensitized by two kinds of thiazine dyes. , 2008, , .		0
100	Charge Carrier Balance for Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells Based on Interface Engineering. , $2016, , .$		0
101	Capacity Revival of Tungsten trioxide Anode Material in Lithium-lon Battery. , 2019, , .		O
102	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
103	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
104	Flexible 3D Cu/C Scaffolds As Lithium Host for Dendrite-Free Lithium Metal Battery. ECS Meeting Abstracts, 2020, MA2020-02, 3787-3787.	0.0	O