

Lixing Kang

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,652
citations

236612

25
h-index

197535

49
g-index

59
all docs

59
docs citations

59
times ranked

3387
citing authors

#	ARTICLE	IF	CITATIONS
1	Arrays of horizontal carbon nanotubes of controlled chirality grown using designed catalysts. Nature, 2017, 543, 234-238.	13.7	317
2	Flexible and High-Voltage Coaxial-Fiber Aqueous Rechargeable Zinc-Ion Battery. Nano Letters, 2019, 19, 4035-4042.	4.5	202
3	Engineering covalently bonded 2D layered materials by self-intercalation. Nature, 2020, 581, 171-177.	13.7	185
4	Growth of high-density horizontally aligned SWNT arrays using Trojan catalysts. Nature Communications, 2015, 6, 6099.	5.8	120
5	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. Nature Communications, 2020, 11, 3729.	5.8	120
6	Cobalt nitride as a novel cocatalyst to boost photocatalytic CO ₂ reduction. Nano Energy, 2021, 79, 105429.	8.2	117
7	Solution-Processable High-Purity Semiconducting SWCNTs for Large-Area Fabrication of High-Performance Thin-Film Transistors. Small, 2016, 12, 4993-4999.	5.2	107
8	Carbon Microtube Aerogel Derived from Kapok Fiber: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. ACS Nano, 2020, 14, 595-602.	7.3	104
9	All-in-one stretchable coaxial-fiber strain sensor integrated with high-performing supercapacitor. Energy Storage Materials, 2020, 25, 124-130.	9.5	100
10	Three dimensional CNTs aerogel/MoS _x as an electrocatalyst for hydrogen evolution reaction. Applied Catalysis B: Environmental, 2016, 194, 16-21.	10.8	90
11	Strain-Engineering of Bi ₁₂ O ₁₇ Br ₂ Nanotubes for Boosting Photocatalytic CO ₂ Reduction. , 2020, 2, 1025-1032.		82
12	State of the Art of Single-Walled Carbon Nanotube Synthesis on Surfaces. Advanced Materials, 2014, 26, 5898-5922.	11.1	71
13	Diameter-Specific Growth of Semiconducting SWNT Arrays Using Uniform Mo ₂ C Solid Catalyst. Journal of the American Chemical Society, 2015, 137, 8904-8907.	6.6	71
14	Black Phosphorus@Ti ₃ C ₂ T _x MXene Composites with Engineered Chemical Bonds for Commercial-Level Capacitive Energy Storage. ACS Nano, 2021, 15, 12975-12987.	7.3	70
15	Two-dimensional ferromagnetism in CrTe flakes down to atomically thin layers. Nanoscale, 2020, 12, 16427-16432.	2.8	62
16	Growth of Close-Packed Semiconducting Single-Walled Carbon Nanotube Arrays Using Oxygen-Deficient TiO ₂ Nanoparticles as Catalysts. Nano Letters, 2015, 15, 403-409.	4.5	59
17	Advanced low-dimensional carbon materials for flexible devices. Informa-Materially, 2020, 2, 698-714.	8.5	59
18	Gold Nanorod Assisted Enhanced Plasmonic Detection Scheme of COVID-19 SARS-CoV-2 Spike Protein. Advanced Theory and Simulations, 2020, 3, 2000185.	1.3	55

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19	Growth of Horizontal Semiconducting SWNT Arrays with Density Higher than 100 tubes/ μm using Ethanol/Methane Chemical Vapor Deposition. <i>Journal of the American Chemical Society</i> , 2016, 138, 6727-6730.	6.6	46
20	A Tandem OD/2D/2D NbS ₂ Quantum Dot/Nb ₂ O ₅ Nanosheet/g-C ₃ N ₄ Flake System with Spatial Charge Transfer Cascades for Boosting Photocatalytic Hydrogen Evolution. <i>Small</i> , 2020, 16, e2003302.	5.2	40
21	Rational Construction of Self-Standing Sulfur-Doped Fe ₂ O ₃ Anodes with Promoted Energy Storage Capability for Wearable Aqueous Rechargeable NiCo-Fe Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001064.	10.2	39
22	Selective Scission of C=O and C=C Bonds in Ethanol Using Bimetal Catalysts for the Preferential Growth of Semiconducting SWNT Arrays. <i>Journal of the American Chemical Society</i> , 2015, 137, 1012-1015.	6.6	38
23	Large-area growth of ultra-high-density single-walled carbon nanotube arrays on sapphire surface. <i>Nano Research</i> , 2015, 8, 3694-3703.	5.8	36
24	Space-confined microwave synthesis of ternary-layered BiOCl crystals with high-performance ultraviolet photodetection. <i>Information Materials</i> , 2020, 2, 593-600.	8.5	32
25	Recycling Strategy for Fabricating Low-Cost and High-Performance Carbon Nanotube TFT Devices. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15719-15726.	4.0	30
26	Machine Learning Driven Synthesis of Few-Layered WTe ₂ with Geometrical Control. <i>Journal of the American Chemical Society</i> , 2021, 143, 18103-18113.	6.6	30
27	Controlled Growth of 3R Phase Tantalum Diselenide and Its Enhanced Superconductivity. <i>Journal of the American Chemical Society</i> , 2020, 142, 2948-2955.	6.6	27
28	Two-dimensional PtSe ₂ Theoretically Enhanced Goos-Hänchen Shift Sensitive Plasmonic Biosensors. <i>Plasmonics</i> , 2020, 15, 1815-1826.	1.8	26
29	In situ twisting for stabilizing and toughening conductive graphene yarns. <i>Nanoscale</i> , 2017, 9, 11523-11529.	2.8	24
30	Fully Solar-Powered Uninterrupted Overall Water-Splitting Systems. <i>Advanced Functional Materials</i> , 2019, 29, 1808889.	7.8	24
31	2D/2D atomic double-layer WS ₂ /Nb ₂ O ₅ shell/core nanosheets with ultrafast interfacial charge transfer for boosting photocatalytic H ₂ evolution. <i>Chinese Chemical Letters</i> , 2021, 32, 3128-3132.	4.8	23
32	Selective Growth of Subnanometer Diameter Single-Walled Carbon Nanotube Arrays in Hydrogen-Free CVD. <i>Journal of the American Chemical Society</i> , 2016, 138, 12723-12726.	6.6	22
33	Investigation of Plasmonic Detection of Human Respiratory Virus. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000074.	1.3	22
34	CVD Growth of Large-scale and Highly Crystalline 2D Chromium Telluride Nanoflakes. <i>ChemNanoMat</i> , 2021, 7, 323-327.	1.5	16
35	High-purity Monochiral Carbon Nanotubes with a 1.2-nm Diameter for High-performance Field-effect Transistors. <i>Advanced Functional Materials</i> , 2022, 32, 2107119.	7.8	16
36	Chemical Vapor Deposition of Superconducting FeTe _{1-x} Se _x Nanosheets. <i>Nano Letters</i> , 2021, 21, 5338-5344.	4.5	15

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37	Modulusâ€Tailorable, Stretchable, and Biocompatible Carbonene Fiber for Adaptive Neural Electrode. <i>Advanced Functional Materials</i> , 2022, 32, 2107360.	7.8	15
38	Hyperbolic phonon polaritons with positive and negative phase velocities in suspended MoO_3 . <i>Applied Physics Letters</i> , 2022, 120, .	1.5	15
39	Rapid annealing and cooling induced surface cleaning of semiconducting carbon nanotubes for high-performance thin-film transistors. <i>Carbon</i> , 2021, 184, 764-771.	5.4	14
40	Emerging Optical Inâ€Memory Computing Sensor Synapses Based on Lowâ€Dimensional Nanomaterials for Neuromorphic Networks. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	13
41	Two-step chemical vapor deposition synthesis of NiTe_2 - MoS_2 vertical junctions with improved MoS_2 transistor performance. <i>Nanotechnology</i> , 2021, 32, 235204.	1.3	12
42	Highâ€Throughput Determination of Statistical Structure Information for Horizontal Carbon Nanotube Arrays by Optical Imaging. <i>Advanced Materials</i> , 2016, 28, 2018-2023.	11.1	11
43	Controllable synthesis of high-quality two-dimensional tellurium by a facile chemical vapor transport strategy. <i>IScience</i> , 2022, 25, 103594.	1.9	11
44	Heterolayered Films of Monolayer WS_2 Nanosheets on Monolayer Graphene Embedded in Poly(methyl methacrylate) for Plasmonic Biosensing. <i>ACS Applied Nano Materials</i> , 2020, 3, 10446-10453.	2.4	10
45	Enhancing the cycling stability of Na-ion batteries by bonding MoS_2 on assembled carbon-based materials. <i>Nano Materials Science</i> , 2019, 1, 310-317.	3.9	9
46	Controlled growth of ultrathin ferromagnetic MnSe semiconductor. <i>SmartMat</i> , 2022, 3, 482-490.	6.4	7
47	Plasmonic-based sensitivity enhancement of a Goosâ€Hanchen shift biosensor using transition metal dichalcogenides: a theoretical insight. <i>New Journal of Chemistry</i> , 2020, 44, 16144-16151.	1.4	6
48	Recent Advances and Prospects of Fiberâ€Shaped Rechargeable Aqueous Alkaline Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100060.	2.8	5
49	A Comparative Performance Evaluation of 2D Nanomaterials for Applications in Plasmonic Biosensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000255.	0.8	4
50	Multifaceted Hybrid Carbon Fibers: Applications in Renewables, Sensing and Tissue Engineering. <i>Journal of Composites Science</i> , 2020, 4, 117.	1.4	4
51	Improving the Sensitivity of SPR Sensors with Auâ€Ag alloys and 2D Materials â€ a Simulationâ€Based Approach. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100292.	1.3	4
52	Anisotropic Ramanâ€Enhancement Effect on Singleâ€Walled Carbon Nanotube Arrays. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700941.	1.9	3
53	Preparation of Mo_2C â€carbon nanomaterials for hydrogen evolution reaction. <i>Carbon Letters</i> , 2019, 29, 225-232.	3.3	3
54	Grapheneâ€Coated Gold Chips for Enhanced Goosâ€Hanchen Shift Plasmonic Sensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000690.	0.8	3

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55	Fabrication of high-performance carbon nanotube/copper composite fibers by interface thiol-modification. <i>Nanotechnology</i> , 2022, 33, 285701.	1.3	2
56	Few-layer hexagonal boron nitride as a shield of brittle materials for cryogenic s-SNOM exploration of phonon polaritons. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	2
57	Physical Vapor Deposition Growth of Ultrathin Molybdenum Dioxide Nanosheets with Excellent Conductivity. <i>Advanced Engineering Materials</i> , 0, , 2101358.	1.6	1
58	Synthesis and Electronic Devices of Atom-thin Transition Metal Dichalcogenides. , 2019, , .		0