

Lixing Kang

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,652
citations

236612

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197535

49
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all docs

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docs citations

59
times ranked

3387
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Purity Monochiral Carbon Nanotubes with a 1.2Ånm Diameter for High-Performance Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2022, 32, 2107119.	7.8	16
2	Modulus-Tailorable, Stretchable, and Biocompatible Carbonene Fiber for Adaptive Neural Electrode. <i>Advanced Functional Materials</i> , 2022, 32, 2107360.	7.8	15
3	Controlled growth of ultrathin ferromagnetic I^2MnSe semiconductor. <i>SmartMat</i> , 2022, 3, 482-490.	6.4	7
4	Controllable synthesis of high-quality two-dimensional tellurium by a facile chemical vapor transport strategy. <i>IScience</i> , 2022, 25, 103594.	1.9	11
5	Hyperbolic phonon polaritons with positive and negative phase velocities in suspended MoO_3 . <i>Applied Physics Letters</i> , 2022, 120, .	1.5	15
6	Fabrication of high-performance carbon nanotube/copper composite fibers by interface thiol-modification. <i>Nanotechnology</i> , 2022, 33, 285701.	1.3	2
7	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
8	Emerging Optical In-Memory Computing Sensor Synapses Based on Low-Dimensional Nanomaterials for Neuromorphic Networks. <i>Advanced Intelligent Systems</i> , 2022, 4, .	3.3	13
9	Cobalt nitride as a novel cocatalyst to boost photocatalytic CO ₂ reduction. <i>Nano Energy</i> , 2021, 79, 105429.	8.2	117
10	Graphene-Coated Gold Chips for Enhanced Goos-Hanchen Shift Plasmonic Sensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000690.	0.8	3
11	CVD Growth of Large-scale and Highly Crystalline 2D Chromium Telluride Nanoflakes. <i>ChemNanoMat</i> , 2021, 7, 323-327.	1.5	16
12	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
13	2D/2D atomic double-layer $\text{WS}_2/\text{Nb}_2\text{O}_5$ 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
14	Recent Advances and Prospects of Fiber-Shaped Rechargeable Aqueous Alkaline Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100060.	2.8	5
15	Chemical Vapor Deposition of Superconducting FeTeSe Nanosheets. <i>Nano Letters</i> , 2021, 21, 5338-5344.	4.5	15
16	Black Phosphorus@ $\text{Ti}_3\text{C}_2\text{T}_x$ MXene Composites with Engineered Chemical Bonds for Commercial-Level Capacitive Energy Storage. <i>ACS Nano</i> , 2021, 15, 12975-12987.	7.3	70
17	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
18	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

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19	Improving the Sensitivity of SPR Sensors with Au–Ag alloys and 2D Materials – a Simulation-Based Approach. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100292.	1.3	4
20	Space-confined microwave synthesis of ternary-layered BiOCl crystals with high-performance ultraviolet photodetection. <i>Informa – Materiály</i> , 2020, 2, 593-600.	8.5	32
21	All-in-one stretchable coaxial-fiber strain sensor integrated with high-performing supercapacitor. <i>Energy Storage Materials</i> , 2020, 25, 124-130.	9.5	100
22	Carbon Microtube Aerogel Derived from Kapok Fiber: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. <i>ACS Nano</i> , 2020, 14, 595-602.	7.3	104
23	Gold Nanorod Assisted Enhanced Plasmonic Detection Scheme of COVID-19 SARS-CoV-2 Spike Protein. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000185.	1.3	55
24	Strain-Engineering of Bi ₁₂ O ₁₇ Br ₂ Nanotubes for Boosting Photocatalytic CO ₂ Reduction. , 2020, 2, 1025-1032.		82
25	Two-dimensional ferromagnetism in CrTe flakes down to atomically thin layers. <i>Nanoscale</i> , 2020, 12, 16427-16432.	2.8	62
26	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
27	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. <i>Nature Communications</i> , 2020, 11, 3729.	5.8	120
28	Multifaceted Hybrid Carbon Fibers: Applications in Renewables, Sensing and Tissue Engineering. <i>Journal of Composites Science</i> , 2020, 4, 117.	1.4	4
29	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
30	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
31	Plasmonic-based sensitivity enhancement of a Goos-Hänchen shift biosensor using transition metal dichalcogenides: a theoretical insight. <i>New Journal of Chemistry</i> , 2020, 44, 16144-16151.	1.4	6
32	Engineering covalently bonded 2D layered materials by self-intercalation. <i>Nature</i> , 2020, 581, 171-177.	13.7	185
33	Two-dimensional PtSe ₂ Theoretically Enhanced Goos-Hänchen Shift Sensitive Plasmonic Biosensors. <i>Plasmonics</i> , 2020, 15, 1815-1826.	1.8	26
34	Investigation of Plasmonic Detection of Human Respiratory Virus. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000074.	1.3	22
35	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
36	Advanced low-dimensional carbon materials for flexible devices. <i>Informa – Materiály</i> , 2020, 2, 698-714.	8.5	59

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37	Controlled Growth of 3R Phase Tantalum Diselenide and Its Enhanced Superconductivity. Journal of the American Chemical Society, 2020, 142, 2948-2955.	6.6	27
38	Synthesis and Electronic Devices of Atom-thin Transition Metal Dichalcogenides. , 2019, , .		0
39	Enhancing the cycling stability of Na-ion batteries by bonding MoS ₂ on assembled carbon-based materials. Nano Materials Science, 2019, 1, 310-317.	3.9	9
40	Flexible and High-Voltage Coaxial-Fiber Aqueous Rechargeable Zinc-Ion Battery. Nano Letters, 2019, 19, 4035-4042.	4.5	202
41	Preparation of Mo ₂ Câ€“carbon nanomaterials for hydrogen evolution reaction. Carbon Letters, 2019, 29, 225-232.	3.3	3
42	Fully Solarâ€“Powered Uninterrupted Overall Waterâ€“Splitting Systems. Advanced Functional Materials, 2019, 29, 1808889.	7.8	24
43	Anisotropic Ramanâ€“Enhancement Effect on Singleâ€“Walled Carbon Nanotube Arrays. Advanced Materials Interfaces, 2018, 5, 1700941.	1.9	3
44	Arrays of horizontal carbon nanotubes of controlled chirality grown using designed catalysts. Nature, 2017, 543, 234-238.	13.7	317
45	Recycling Strategy for Fabricating Low-Cost and High-Performance Carbon Nanotube TFT Devices. ACS Applied Materials & Interfaces, 2017, 9, 15719-15726.	4.0	30
46	In situ twisting for stabilizing and toughening conductive graphene yarns. Nanoscale, 2017, 9, 11523-11529.	2.8	24
47	Highâ€“Throughput Determination of Statistical Structure Information for Horizontal Carbon Nanotube Arrays by Optical Imaging. Advanced Materials, 2016, 28, 2018-2023.	11.1	11
48	Growth of Horizontal Semiconducting SWNT Arrays with Density Higher than 100 tubes/Î¼m using Ethanol/Methane Chemical Vapor Deposition. Journal of the American Chemical Society, 2016, 138, 6727-6730.	6.6	46
49	Three dimensional CNTs aerogel/MoS _x as an electrocatalyst for hydrogen evolution reaction. Applied Catalysis B: Environmental, 2016, 194, 16-21.	10.8	90
50	Selective Growth of Subnanometer Diameter Single-Walled Carbon Nanotube Arrays in Hydrogen-Free CVD. Journal of the American Chemical Society, 2016, 138, 12723-12726.	6.6	22
51	Solutionâ€“Processable Highâ€“Purity Semiconducting SWCNTs for Largeâ€“Area Fabrication of Highâ€“Performance Thinâ€“Film Transistors. Small, 2016, 12, 4993-4999.	5.2	107
52	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
53	Growth of high-density horizontally aligned SWNT arrays using Trojan catalysts. Nature Communications, 2015, 6, 6099.	5.8	120
54	Selective Scission of Câ€“O and Câ€“C Bonds in Ethanol Using Bimetal Catalysts for the Preferential Growth of Semiconducting SWNT Arrays. Journal of the American Chemical Society, 2015, 137, 1012-1015.	6.6	38

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55	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
56	Large-area growth of ultra-high-density single-walled carbon nanotube arrays on sapphire surface. Nano Research, 2015, 8, 3694-3703.	5.8	36
57	State of the Art of Single-Walled Carbon Nanotube Synthesis on Surfaces. Advanced Materials, 2014, 26, 5898-5922.	11.1	71
58	Physical Vapor Deposition Growth of Ultrathin Molybdenum Dioxide Nanosheets with Excellent Conductivity. Advanced Engineering Materials, 0, , 2101358.	1.6	1