

Bin Wu

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

1,963
citations

257450

24
h-index

254184

43
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68
all docs

68
docs citations

68
times ranked

2996
citing authors

#	ARTICLE	IF	CITATIONS
1	Studying the adsorption mechanisms of nanoplastics on covalent organic frameworks via molecular dynamics simulations. <i>Journal of Hazardous Materials</i> , 2022, 421, 126796.	12.4	19
2	Bottom-up Etching-Mediated Synthesis of Large-Scale Pure Monolayer Graphene on Cyclic Polishing-Annealed Cu(111). <i>Advanced Materials</i> , 2022, 34, e2108608.	21.0	16
3	Enhanced thermal conductivity with ultralow filler loading via constructing branch-type heat transfer network. <i>Composites Communications</i> , 2022, 30, 101060.	6.3	7
4	Bottom-up Etching-Mediated Synthesis of Large-Scale Pure Monolayer Graphene on Cyclic Polishing-Annealed Cu(111) (<i>Adv. Mater.</i> 8/2022). <i>Advanced Materials</i> , 2022, 34, .	21.0	0
5	Enhanced Thermal Conductivity via In Situ Constructed CNT Aerogel Structure in Composites. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	7
6	Tunable Planar Focusing Based on Hyperbolic Phonon Polaritons in MoO_3 . <i>Advanced Materials</i> , 2022, 34, e2105590.	21.0	32
7	Engineering of Chemical Vapor Deposition Graphene Layers: Growth, Characterization, and Properties. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	8
8	Highly Ion-Permselective Porous Organic Cage Membranes with Hierarchical Channels. <i>Journal of the American Chemical Society</i> , 2022, 144, 10220-10229.	13.7	67
9	A dual non-covalent bonding constructed continuous interfacial structure for reducing interfacial thermal resistance. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13858-13867.	10.3	8
10	Negatively Charged MOF-Based Composite Anion Exchange Membrane with High Cation Selectivity and Permeability. <i>Membranes</i> , 2022, 12, 601.	3.0	2
11	Construction of Oriented Interconnected BNNS Skeleton by Self-Growing CNTs Leading High Thermal Conductivity. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001910.	3.7	11
12	Stitching Graphene Sheets with Graphitic Carbon Nitride: Constructing a Highly Thermally Conductive $\text{rGO/g-C}_3\text{N}_4$ Film with Excellent Heating Capability. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6699-6709.	8.0	32
13	Rational design of high-performance thermal interface materials based on gold-nanocap-modified vertically aligned graphene architecture. <i>Composites Communications</i> , 2021, 24, 100621.	6.3	16
14	Polypyrrole-Reinforced N,S-Doping Graphene Foam for Efficient Solar Purification of Wastewater. <i>Solar Rrl</i> , 2021, 5, 2100210.	5.8	17
15	Theoretical Study of Chemical Vapor Deposition Synthesis of Graphene and Beyond: Challenges and Perspectives. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7942-7963.	4.6	15
16	Efficient Ion Sieving in Covalent Organic Framework Membranes with Sub-2-Nanometer Channels. <i>Advanced Materials</i> , 2021, 33, e2104404.	21.0	131
17	Gravity driven ice-templated oriental arrangement of functional carbon fibers for high in-plane thermal conductivity. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 150, 106623.	7.6	9
18	A highly stable aliphatic backbone from visible light-induced RAFT polymerization for anion exchange membranes. <i>Polymer Chemistry</i> , 2021, 12, 5574-5582.	3.9	4

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19	Regulation of Polyvinyl Alcohol/Sulfonated Nano-TiO ₂ Hybrid Membranes Interface Promotes Diffusion Dialysis. <i>Polymers</i> , 2021, 13, 14.	4.5	9
20	Interfacial Modulation of Graphene by Polythiophene with Controlled Molecular Weight to Enhance Thermal Conductivity. <i>Membranes</i> , 2021, 11, 895.	3.0	3
21	Solidâ€“solid interface growth of conductive metalâ€“organic framework nanowire arrays and their supercapacitor application. <i>Materials Chemistry Frontiers</i> , 2020, 4, 243-251.	5.9	48
22	Interface cisplatin-crosslinked doxorubicin-loaded triblock copolymer micelles for synergistic cancer therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111334.	5.0	10
23	Growth and Grain Boundaries in 2D Materials. <i>ACS Nano</i> , 2020, 14, 9320-9346.	14.6	62
24	Effect of Chain Configuration on Thermal Conductivity of Polyethyleneâ€“A Molecular Dynamic Simulation Study. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 1418-1425.	3.8	6
25	Preparation of Polyvinyl Alcohol (PVA)-Based Composite Membranes Using Carboxyl-Type Boronic Acid Copolymers for Alkaline Diffusion Dialysis. <i>Polymers</i> , 2020, 12, 2360.	4.5	4
26	Enhanced through-plane thermal conductivity in Polymer nanocomposites by constructing graphene-supported BN nanotubes. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9569-9575.	5.5	27
27	Interface crosslinked mPEG-b-PAGE-b-PCL triblock copolymer micelles with high stability for anticancer drug delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 189, 110830.	5.0	20
28	Engineering Leaf-Like UiO-66-SO ₃ H Membranes for Selective Transport of Cations. <i>Nano-Micro Letters</i> , 2020, 12, 51.	27.0	64
29	Incorporating Ag Nanowires into Graphene Nanosheets for Enhanced Thermal Conductivity: Implications for Thermal Management. <i>ACS Applied Nano Materials</i> , 2020, 3, 6061-6070.	5.0	21
30	Enhanced thermal conductivity of nanocomposites with MOF-derived encapsulated magnetic oriented carbon nanotube-grafted graphene polyhedra. <i>RSC Advances</i> , 2020, 10, 3357-3365.	3.6	22
31	Ultrafast Growth of Thin Hexagonal and Pyramidal Molybdenum Nitride Crystals and Films. , 2019, 1, 383-388.		17
32	Preparation and properties of polyvinyl alcohol (PVA) / mesoporous silica supported phosphotungstic acid (MS-HPW) hybrid membranes for alkali recovery. <i>Journal of Membrane Science</i> , 2019, 592, 117388.	8.2	21
33	Epitaxial Growth of hâ€“BN on Templates of Various Dimensionalities in hâ€“BNâ€“Graphene Material Systems. <i>Advanced Materials</i> , 2019, 31, e1805582.	21.0	28
34	Low temperature growth of clean single layer hexagonal boron nitride flakes and film for graphene-based field-effect transistors. <i>Science China Materials</i> , 2019, 62, 1218-1225.	6.3	13
35	2D Materials: Epitaxial Growth of hâ€“BN on Templates of Various Dimensionalities in hâ€“BNâ€“Graphene Material Systems (Adv. Mater. 12/2019). <i>Advanced Materials</i> , 2019, 31, 1970088.	21.0	1
36	Cross-linked anion exchange membranes with hydrophobic side-chains for anion separation. <i>Journal of Membrane Science</i> , 2019, 581, 150-157.	8.2	39

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37	Highly photoluminescent and temperature-sensitive P,N, B-co-doped carbon quantum dots and their highly sensitive recognition for curcumin. RSC Advances, 2019, 9, 8340-8349.	3.6	31
38	Air-Stable Symmetric Ambipolar Field-Effect Transistors Based on Reduced Graphene Oxide/OTS Self-Assembled Monolayer Heterostructure. ChemNanoMat, 2019, 5, 472-478.	2.8	2
39	Nano-Subsidence-Assisted Precise Integration of Patterned Two-Dimensional Materials for High-Performance Photodetector Arrays. ACS Nano, 2019, 13, 2654-2662.	14.6	14
40	Layer-by-Layer Assembled $\text{g-C}_3\text{N}_4$ Nanosheets/Cellulose Nanofibers Oriented Membrane Filler Leading to Enhanced Thermal Conductivity. Advanced Materials Interfaces, 2019, 6, 1801406.	3.7	31
41	Controlling Fundamental Fluctuations for Reproducible Growth of Large Single-Crystal Graphene. ACS Nano, 2018, 12, 1778-1784.	14.6	31
42	A double fluorescent nanoprobe based on phosphorus/nitrogen co-doped carbon dots for detecting dichromate ions and dopamine. RSC Advances, 2018, 8, 31793-31802.	3.6	21
43	Composite Cationic Exchange Membranes Prepared from Polyvinyl Alcohol (PVA) and Boronic Acid Copolymers for Alkaline Diffusion Dialysis. Materials, 2018, 11, 1354.	2.9	5
44	Highly Organized Epitaxy of Dirac Semimetallic PtTe_2 Crystals with Extrahigh Conductivity and Visible Surface Plasmons at Edges. ACS Nano, 2018, 12, 9405-9411.	14.6	54
45	Water-assisted growth of large-sized single crystal hexagonal boron nitride grains. Materials Chemistry Frontiers, 2017, 1, 1836-1840.	5.9	34
46	Dielectric Engineering of a Boron Nitride/Hafnium Oxide Heterostructure for High-Performance 2D Field Effect Transistors. Advanced Materials, 2016, 28, 2062-2069.	21.0	65
47	Growth and Etching Kinetics: Growth and Etching of Monolayer Hexagonal Boron Nitride (Adv. Tj ETQq1 1 0.784314 rgBT /Overlock 10	21.0	2
48	Growth and Etching of Monolayer Hexagonal Boron Nitride. Advanced Materials, 2015, 27, 4858-4864.	21.0	93
49	Governing Rule for Dynamic Formation of Grain Boundaries in Grown Graphene. ACS Nano, 2015, 9, 5792-5798.	14.6	66
50	Field-Effect Transistors: Monolayer Hexagonal Boron Nitride Films with Large Domain Size and Clean Interface for Enhancing the Mobility of Graphene-Based Field-Effect Transistors (Adv. Mater. 10/2014). Advanced Materials, 2014, 26, 1474-1474.	21.0	3
51	Self-Aligned Single-Crystal Graphene Grains. Advanced Functional Materials, 2014, 24, 1664-1670.	14.9	47
52	Graphene: Near-Equilibrium Chemical Vapor Deposition of High-Quality Single-Crystal Graphene Directly on Various Dielectric Substrates (Adv. Mater. 9/2014). Advanced Materials, 2014, 26, 1471-1471.	21.0	1
53	A simple and green preparation of PVA-based cation exchange hybrid membranes for alkali recovery. Journal of Membrane Science, 2013, 433, 10-16.	8.2	51
54	Graphene Sheets: Gram-Scale Synthesis of Graphene Sheets by a Catalytic Arc-Discharge Method (Small) Tj ETQq0.0 0 rgBT /Overlock 10.0	10.0	0

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55	Synthesis and morphology transformation of single-crystal graphene domains based on activated carbon dioxide by chemical vapor deposition. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2990.	5.5	30
56	Self-organized graphene crystal patterns. <i>NPG Asia Materials</i> , 2013, 5, e36-e36.	7.9	153
57	Nanoscale Materials: A General Approach for Fast Detection of Charge Carrier Type and Conductivity Difference in Nanoscale Materials (<i>Adv. Mater.</i> 48/2013). <i>Advanced Materials</i> , 2013, 25, 6916-6916.	21.0	0
58	Graphene: Two-Stage Metal-Catalyst-Free Growth of High-Quality Polycrystalline Graphene Films on Silicon Nitride Substrates (<i>Adv. Mater.</i> 7/2013). <i>Advanced Materials</i> , 2013, 25, 938-938.	21.0	4
59	Multilayer Graphene-Coated Atomic Force Microscopy Tips for Molecular Junctions (<i>Adv. Mater.</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 1	21.0	1
60	Graphene: learning from carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2011, 21, 919-929.	6.7	43
61	Evaluation of metallic and semiconducting single-walled carbon nanotube characteristics. <i>Nanoscale</i> , 2011, 3, 2074.	5.6	13
62	Production of graphene nanospheres by annealing of graphene oxide in solution. <i>Nano Research</i> , 2011, 4, 705-711.	10.4	17
63	Ultrahigh density modulation of aligned single-walled carbon nanotube arrays. <i>Nano Research</i> , 2011, 4, 931-937.	10.4	17
64	Synthesis of large-area, few-layer graphene on iron foil by chemical vapor deposition. <i>Nano Research</i> , 2011, 4, 1208-1214.	10.4	120
65	Equiangular Hexagon-Shape-Controlled Synthesis of Graphene on Copper Surface. <i>Advanced Materials</i> , 2011, 23, 3522-3525.	21.0	173
66	A Generalized Method for Evaluating the Metallic-to-Semiconducting Ratio of Separated Single-Walled Carbon Nanotubes by UV-vis-NIR Characterization. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12095-12098.	3.1	24
67	Vapor-solid interfacial reaction and polymerization for wafer-scale uniform and ultrathin two-dimensional organic films. <i>Science China Materials</i> , 0, , 1.	6.3	0