

Shuze Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,653
citations

304743

22
h-index

477307

29
g-index

32
all docs

32
docs citations

32
times ranked

4673
citing authors

#	ARTICLE	IF	CITATIONS
1	Extreme Environmental Thermal Shock Induced Dislocationâ€Rich Pt Nanoparticles Boosting Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2022, 34, e2106973.	21.0	68
2	Multiple Twin Boundaryâ€Regulated Metastable Pd for Ethanol Oxidation Reaction. <i>Advanced Energy Materials</i> , 2022, 12, 2103505.	19.5	51
3	Extreme Environmental Thermal Shock Induced Dislocationâ€Rich Pt Nanoparticles Boosting Hydrogen Evolution Reaction (<i>Adv. Mater.</i> 2/2022). <i>Advanced Materials</i> , 2022, 34, .	21.0	0
4	Molecular Mechanism Underpinning Stable Mechanical Performance and Enhanced Conductivity of Air-Aged Ionic Conductive Elastomers. <i>Macromolecules</i> , 2022, 55, 4665-4674.	4.8	4
5	Mechanics Design in Celluloseâ€Enabled Highâ€Performance Functional Materials. <i>Advanced Materials</i> , 2021, 33, e2002504.	21.0	77
6	Selection rules of twistrionic angles in two-dimensional material flakes via dislocation theory. <i>Physical Review B</i> , 2021, 103, .	3.2	3
7	Structureâ€propertyâ€function relationships of natural and engineered wood. <i>Nature Reviews Materials</i> , 2020, 5, 642-666.	48.7	616
8	Controlling Rotation of Two-Dimensional Material Flakes. <i>ACS Nano</i> , 2019, 13, 6925-6931.	14.6	27
9	Millisecond synthesis of CoS nanoparticles for highly efficient overall water splitting. <i>Nano Research</i> , 2019, 12, 2259-2267.	10.4	85
10	Transparent, Anisotropic Biofilm with Aligned Bacterial Cellulose Nanofibers. <i>Advanced Functional Materials</i> , 2018, 28, 1707491.	14.9	142
11	Processing bulk natural wood into a high-performance structural material. <i>Nature</i> , 2018, 554, 224-228.	27.8	970
12	MoirÃ©-templated strain patterning in transition-metal dichalcogenides and application in twisted bilayer MoS ₂ . <i>Nanoscale</i> , 2018, 10, 20689-20701.	5.6	27
13	Catalyst-Free <i>In Situ</i> Carbon Nanotube Growth in Confined Space <i>via</i> High Temperature Gradient. <i>Research</i> , 2018, 2018, 1793784.	5.7	7
14	Anisotropic, Transparent Films with Aligned Cellulose Nanofibers. <i>Advanced Materials</i> , 2017, 29, 1606284.	21.0	202
15	Celluloseâ€Nanofiberâ€Enabled 3D Printing of a Carbonâ€Nanotube Microfiber Network. <i>Small Methods</i> , 2017, 1, 1700222.	8.6	130
16	Reduced Graphene Oxide Films with Ultrahigh Conductivity as Li-Ion Battery Current Collectors. <i>Nano Letters</i> , 2016, 16, 3616-3623.	9.1	187
17	Carbon Welding by Ultrafast Joule Heating. <i>Nano Letters</i> , 2016, 16, 7282-7289.	9.1	88
18	Ultra-fast self-assembly and stabilization of reactive nanoparticles in reduced graphene oxide films. <i>Nature Communications</i> , 2016, 7, 12332.	12.8	123

#	ARTICLE	IF	CITATIONS
19	Programmable Extreme Pseudomagnetic Fields in Graphene by a Uniaxial Stretch. Physical Review Letters, 2015, 115, 245501.	7.8	100
20	Reversible Mechanical and Electrical Properties of Ripped Graphene. Physical Review Applied, 2015, 3, .	3.8	12
21	Mechanical Control of Graphene on Engineered Pyramidal Strain Arrays. ACS Nano, 2015, 9, 5799-5806.	14.6	37
22	Hybridizing wood cellulose and graphene oxide toward high-performance fibers. NPG Asia Materials, 2015, 7, e150-e150.	7.9	95
23	Anomalous scaling law of strength and toughness of cellulose nanopaper. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8971-8976.	7.1	296
24	Wrinkling Instability of Graphene on Substrate-Supported Nanoparticles. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	25
25	Line defects guided molecular patterning on graphene. Applied Physics Letters, 2014, 104, 093102.	3.3	6
26	Extremely compliant and highly stretchable patterned graphene. Applied Physics Letters, 2014, 104, .	3.3	41
27	Pseudomagnetic fields in a locally strained graphene drumhead. Physical Review B, 2014, 90, .	3.2	40
28	Hydrogenation-Assisted Graphene Origami and Its Application in Programmable Molecular Mass Uptake, Storage, and Release. ACS Nano, 2014, 8, 2864-2872.	14.6	176
29	Effects of surface compliance and relaxation on the frictional properties of lamellar materials. RSC Advances, 2014, 4, 26721-26728.	3.6	14
30	Critical Dispersion Distance of Silicon Nanoparticles Intercalated between Graphene Layers. Journal of Nanomaterials, 2012, 2012, 1-4.	2.7	4