Jianfeng Zang

List of Publications by Year
in descending order

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78	6,582	87888 38	66911 78
papers	citations	h-index	g-index

82	82	82	10443
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flexible Zn₂SnO₄/MnO₂ Core/Shell Nanocableâ˜†Carbon Microfiber Hybrid Composites for High-Performance Supercapacitor Electrodes. Nano Letters, 2011, 11, 1215-1220.	9.1	807
2	Multifunctionality and control of the crumpling and unfolding of large-area graphene. Nature Materials, 2013, 12, 321-325.	27.5	735
3	New Nanostructured TiO₂ for Direct Electrochemistry and Glucose Sensor Applications. Advanced Functional Materials, 2008, 18, 591-599.	14.9	416
4	Sensitive Room-Temperature H₂S Gas Sensors Employing SnO₂ Quantum Wire/Reduced Graphene Oxide Nanocomposites. Chemistry of Materials, 2016, 28, 1205-1212.	6.7	381
5	Highly polarization sensitive infrared photodetector based on black phosphorus-on-WSe 2 photogate vertical heterostructure. Nano Energy, 2017, 37, 53-60.	16.0	252
6	Well-Aligned Cone-Shaped Nanostructure of Polypyrrole/RuO₂ and Its Electrochemical Supercapacitor. Journal of Physical Chemistry C, 2008, 112, 14843-14847.	3.1	231
7	Stretchable and High-Performance Supercapacitors with Crumpled Graphene Papers. Scientific Reports, 2014, 4, 6492.	3.3	207
8	Tailoring Zinc Oxide Nanowires for High Performance Amperometric Glucose Sensor. Electroanalysis, 2007, 19, 1008-1014.	2.9	190
9	Fatigue-resistant adhesion of hydrogels. Nature Communications, 2020, 11, 1071.	12.8	187
10	In situ synthesis of ultrafine Î²-MnO2/polypyrrole nanorod composites for high-performance supercapacitors. Journal of Materials Chemistry, 2011, 21, 10965.	6.7	175
11	Harnessing Localized Ridges for Highâ€Aspectâ€Ratio Hierarchical Patterns with Dynamic Tunability and Multifunctionality. Advanced Materials, 2014, 26, 1763-1770.	21.0	171
12	Energy and exergy analysis of solar stills with micro/nano particles: A comparative study. Energy Conversion and Management, 2018, 177, 363-375.	9.2	159
13	New hydrogel materials for improving solar water evaporation, desalination and wastewater treatment: A review. Desalination, 2020, 491, 114564.	8.2	142
14	Localized ridge wrinkling of stiff films on compliant substrates. Journal of the Mechanics and Physics of Solids, 2012, 60, 1265-1279.	4.8	138
15	Template-Free Electrochemical Synthesis of Superhydrophilic Polypyrrole Nanofiber Network. Macromolecules, 2008, 41, 7053-7057.	4.8	135
16	Highly sensitive lactate biosensor by engineering chitosan/PVI-Os/CNT/LOD network nanocomposite. Biosensors and Bioelectronics, 2007, 22, 3288-3292.	10.1	112
17	Electrochemical Detection of Nitric Oxide on a SWCNT/RTIL Composite Gel Microelectrode. Electroanalysis, 2006, 18, 713-718.	2.9	100
18	Electrochemical detection of ultratrace nitroaromatic explosives using ordered mesoporous carbon. Analytica Chimica Acta, 2011, 683, 187-191.	5.4	89

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19	Ferromagnetic soft catheter robots for minimally invasive bioprinting. Nature Communications, 2021, 12, 5072.	12.8	87
20	Supercapacitance of Solid Carbon Nanofibers Made from Ethanol Flames. Journal of Physical Chemistry C, 2008, 112, 3612-3618.	3.1	83
21	Low-cost high-efficiency solar steam generator by combining thin film evaporation and heat localization: Both experimental and theoretical study. Applied Thermal Engineering, 2018, 143, 1079-1084.	6.0	82
22	Observation of elastic topological states in soft materials. Nature Communications, 2018, 9, 1370.	12.8	78
23	Highly Stretchable Supercapacitors via Crumpled Vertically Aligned Carbon Nanotube Forests. Advanced Energy Materials, 2019, 9, 1900618.	19.5	74
24	Thermal Transport in Soft PAAm Hydrogels. Polymers, 2017, 9, 688.	4.5	73
25	Reversible Sliding in Networks of Nanowires. Nano Letters, 2013, 13, 2381-2386.	9.1	71
26	Influence of basin metals and novel wick-metal chips pad on the thermal performance of solar desalination process. Journal of Cleaner Production, 2020, 248, 119224.	9.3	70
27	Potential and challenges of improving solar still by micro/nano-particles and porous materials - A review. Journal of Cleaner Production, 2021, 311, 127432.	9.3	65
28	Fully Stretchable and Humidity-Resistant Quantum Dot Gas Sensors. ACS Sensors, 2018, 3, 1048-1055.	7.8	63
29	Biocatalytic Generation of Ppy-Enzyme-CNT Nanocomposite:â€‰ From Network Assembly to Film Growth. Journal of Physical Chemistry C, 2007, 111, 2025-2031.	3.1	59
30	Controllable Synthesis of Two-Dimensional Ruddlesdenâ€“Popper-Type Perovskite Heterostructures. Journal of Physical Chemistry Letters, 2017, 8, 6211-6219.	4.6	54
31	The inverse design of structural color using machine learning. Nanoscale, 2019, 11, 21748-21758.	5.6	50
32	Dynamic Electrostatic Lithography: Multiscale Onâ€Demand Patterning on Largeâ€Area Curved Surfaces. Advanced Materials, 2012, 24, 1947-1951.	21.0	49
33	Adjustable thermal resistor by reversibly folding a graphene sheet. Nanoscale, 2016, 8, 14943-14949.	5.6	48
34	Hyaluronan-Assisted Photoreduction Synthesis of Silver Nanostructures: From Nanoparticle to Nanoplate. Journal of Physical Chemistry C, 2008, 112, 10730-10734.	3.1	47
35	Electrospinning fabrication, structural and mechanical characterization of rod-like virus-based composite nanofibers. Journal of Materials Chemistry, 2011, 21, 8550.	6.7	47
36	Artificial control of in-plane anisotropic photoelectricity in monolayer MoS2. Applied Materials Today, 2019, 15, 203-211.	4.3	45

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37	Enhanced H2S gas sensing properties based on SnO2 quantum wire/reduced graphene oxide nanocomposites: Equilibrium and kinetics modeling. Sensors and Actuators B: Chemical, 2017, 249, 632-638.	7.8	44
38	Hollowâ€Out Patterning Ultrathin Acoustic Metasurfaces for Multifunctionalities Using Soft fiber/Rigid Bead Networks. Advanced Functional Materials, 2018, 28, 1801127.	14.9	42
39	All-Dielectric Silicon Nanoring Metasurface for Full-Color Printing. Nano Letters, 2020, 20, 8739-8744.	9.1	40
40	Lithium Insertion in Channel-Structured Î²-AgVO₃: In Situ Raman Study and Computer Simulation. Chemistry of Materials, 2007, 19, 5965-5972.	6.7	37
41	Cu²⁺-Doped CsPbI₃ Nanocrystals with Enhanced Stability for Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2021, 12, 3038-3045.	4.6	37
42	Wrinkled nitrile rubber films for stretchable and ultra-sensitive respiration sensors. Extreme Mechanics Letters, 2017, 11, 128-136.	4.1	36
43	Nonintrusive Monitoring of Mental Fatigue Status Using Epidermal Electronic Systems and Machine-Learning Algorithms. ACS Sensors, 2020, 5, 1305-1313.	7.8	36
44	Temperature-dependent photoluminescence in La2/3Ca1/3MnO3. Solid State Communications, 2004, 132, 815-819.	1.9	35
45	Tunable lotus-leaf and rose-petal effects via graphene paper origami. Extreme Mechanics Letters, 2015, 4, 18-25.	4.1	34
46	Direct synthesis of cubic phase CsPbI₃ nanowires. CrystEngComm, 2019, 21, 1389-1396.	2.6	34
47	A compact flat solar still with high performance. International Journal of Heat and Mass Transfer, 2021, 179, 121657.	4.8	34
48	Electrical Self-Healing of Mechanically Damaged Zinc Oxide Nanobelts. Nano Letters, 2011, 11, 241-244.	9.1	32
49	Electron Beam Irradiation Stiffens Zinc Tin Oxide Nanowires. Nano Letters, 2011, 11, 4885-4889.	9.1	29
50	Thermally-Responsive Hydrogels Poly(N-Isopropylacrylamide) as the Thermal Switch. Journal of Physical Chemistry C, 2019, 123, 31003-31010.	3.1	28
51	Precise Engineering of Conductive Pathway by Frictional Direct-Writing for Ultrasensitive Flexible Strain Sensors. ACS Applied Materials & Interfaces, 2017, 9, 41078-41086.	8.0	26
52	Valley anisotropy in elastic metamaterials. Physical Review B, 2019, 100, .	3.2	25
53	Simultaneous detection of lactate and glucose by integrated printed circuit board based array sensing chip. Analytica Chimica Acta, 2013, 771, 102-107.	5.4	24
54	Shape-controlled assembly of luminescent dumbbell-like CdTeâ€“cystine nanocomposites. Nanotechnology, 2007, 18, 455701.	2.6	23

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55	Out-of-Plane Designed Soft Metasurface for Tunable Surface Plasmon Polariton. Nano Letters, 2018, 18, 1435-1441.	9.1	23
56	Gram-scale synthesis of all-inorganic perovskite quantum dots with high Mn substitution ratio and enhanced dual-color emission. Nano Research, 2019, 12, 1733-1738.	10.4	22
57	Recoverable Photoluminescence of Flame-Synthesized Multiwalled Carbon Nanotubes and Its Intensity Enhancement at 240 K. Journal of Physical Chemistry C, 2007, 111, 10347-10352.	3.1	20
58	Atomic-Scale Imaging of Cation Ordering in Inverse Spinel Zn₂SnO₄ Nanowires. Nano Letters, 2014, 14, 6505-6509.	9.1	19
59	Synthesis of highly luminescent Mn-doped CsPbCl3 nanoplatelets for light-emitting diodes. CrystEngComm, 2021, 23, 793-803.	2.6	11
60	Electron spin resonance analysis of magnetic structures in La2/3Ca1/3MnO3. Journal of Magnetism and Magnetic Materials, 2005, 293, 782-786.	2.3	10
61	A universal respiration sensing platform utilizing surface water condensation. Journal of Materials Chemistry C, 2019, 7, 2853-2864.	5.5	10
62	Mechanically tunable terahertz graphene plasmonics using soft metasurface. 2D Materials, 2016, 3, 041007.	4.4	9
63	Synthesis and Characterization of the Conducting Polymer Micro-Helix Based on the Spirulina Template. Polymers, 2018, 10, 882.	4.5	9
64	Nonplanar acoustic metasurface for focusing. Journal of Applied Physics, 2019, 125, .	2.5	9
65	Edgeâ€Stateâ€Enhanced Ultrahigh Photoresponsivity of Graphene Nanosheetâ€Embedded Carbon Film/Silicon Heterojunction. Advanced Materials Interfaces, 2019, 6, 1802062.	3.7	9
66	4D printing high temperature shape-memory poly(etherâ€“etherâ€“ketone). Smart Materials and Structures, 2021, 30, 115006.	3.5	8
67	Reliable and Tunable Elastic Interface States in Soft Metamaterials. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000338.	2.4	7
68	In situ growth of ultra-smooth or super-rough thin films by suppression of vertical or horizontal growth of surface mounds. Journal of Materials Chemistry C, 2020, 8, 3248-3257.	5.5	7
69	Inverse-Designed Aid Lenses for Precise Correction of Color Vision Deficiency. Nano Letters, 2022, 22, 2094-2102.	9.1	7
70	Soft and disordered hyperuniform elastic metamaterials for highly efficient vibration concentration. National Science Review, 2022, 9, nwab133.	9.5	6
71	Interface-dependent tunable elastic interface states in soft metamaterials. Journal of Applied Physics, 2021, 129, .	2.5	5
72	Carbon Nanotubes: Highly Stretchable Supercapacitors via Crumpled Vertically Aligned Carbon Nanotube Forests (Adv. Energy Mater. 22/2019). Advanced Energy Materials, 2019, 9, 1970082.	19.5	4

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73	Dynamically tunable interface states in 1D graphene-embedded photonic crystal heterostructure. Journal of Physics Condensed Matter, 2018, 30, 095702.	1.8	3
74	Magneto-rheological foams capable of tunable energy absorption. , 2013, , .		2
75	Acoustic Metasurfaces: Hollow-Out Patterning Ultrathin Acoustic Metasurfaces for Multifunctionalities Using Soft fiber/Rigid Bead Networks (Adv. Funct. Mater. 36/2018). Advanced Functional Materials, 2018, 28, 1870251.	14.9	2
76	Dynamic Electrostatic Lithography: Multiscale On-Demand Patterning on Large-Area Curved Surfaces (Adv. Mater. 15/2012). Advanced Materials, 2012, 24, 1946-1946.	21.0	1
77	Enhancement of Thermal Conductivity of Polyvinyl Alcohol Membrane Using Nano-fiber. MRS Advances, 2017, 2, 3651-3656.	0.9	1
78	Ultrasensitive Photodetector: Edge-State-Enhanced Ultrahigh Photoresponsivity of Graphene Nanosheet-Embedded Carbon Film/Silicon Heterojunction (Adv. Mater. Interfaces 11/2019). Advanced Materials Interfaces, 2019, 6, 1970073.	3.7	0