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	Soft and disordered hyperuniform elastic metamaterials for highly efficient vibration concentration. National Science Review, 2022, 9, nwab133.	9.5	6
2	Inverse-Designed Aid Lenses for Precise Correction of Color Vision Deficiency. Nano Letters, 2022, 22, 2094-2102.	9.1	7
3	Interface-dependent tunable elastic interface states in soft metamaterials. Journal of Applied Physics, 2021, 129, .	2.5	5
4	Cu²⁺-Doped CsPbI₃ Nanocrystals with Enhanced Stability for Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2021, 12, 3038-3045.	4.6	37
5	Ferromagnetic soft catheter robots for minimally invasive bioprinting. Nature Communications, 2021, 12, 5072.	12.8	87
6	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
7	4D printing high temperature shape-memory poly(etherâ€“etherâ€“ketone). Smart Materials and Structures, 2021, 30, 115006.	3.5	8
8	A compact flat solar still with high performance. International Journal of Heat and Mass Transfer, 2021, 179, 121657.	4.8	34
9	Synthesis of highly luminescent Mn-doped CsPbCl3 nanoplatelets for light-emitting diodes. CrystEngComm, 2021, 23, 793-803.	2.6	11
10	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
11	All-Dielectric Silicon Nanoring Metasurface for Full-Color Printing. Nano Letters, 2020, 20, 8739-8744.	9.1	40
12	Reliable and Tunable Elastic Interface States in Soft Metamaterials. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000338.	2.4	7
13	New hydrogel materials for improving solar water evaporation, desalination and wastewater treatment: A review. Desalination, 2020, 491, 114564.	8.2	142
14	Fatigue-resistant adhesion of hydrogels. Nature Communications, 2020, 11, 1071.	12.8	187
15	Nonintrusive Monitoring of Mental Fatigue Status Using Epidermal Electronic Systems and Machine-Learning Algorithms. ACS Sensors, 2020, 5, 1305-1313.	7.8	36
16	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
17	Valley anisotropy in elastic metamaterials. Physical Review B, 2019, 100, .	3.2	25
18	The inverse design of structural color using machine learning. Nanoscale, 2019, 11, 21748-21758.	5.6	50

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19	Direct synthesis of cubic phase CsPbI₃ nanowires. CrystEngComm, 2019, 21, 1389-1396.	2.6	34
20	A universal respiration sensing platform utilizing surface water condensation. Journal of Materials Chemistry C, 2019, 7, 2853-2864.	5.5	10
21	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
22	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
23	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
24	Highly Stretchable Supercapacitors via Crumpled Vertically Aligned Carbon Nanotube Forests. Advanced Energy Materials, 2019, 9, 1900618.	19.5	74
25	Nonplanar acoustic metasurface for focusing. Journal of Applied Physics, 2019, 125, .	2.5	9
26	Edgeâ€Stateâ€Enhanced Ultrahigh Photoresponsivity of Graphene Nanosheetâ€Embedded Carbon Film/Silicon Heterojunction. Advanced Materials Interfaces, 2019, 6, 1802062.	3.7	9
27	Artificial control of in-plane anisotropic photoelectricity in monolayer MoS2. Applied Materials Today, 2019, 15, 203-211.	4.3	45
28	Thermally-Responsive Hydrogels Poly(N-Isopropylacrylamide) as the Thermal Switch. Journal of Physical Chemistry C, 2019, 123, 31003-31010.	3.1	28
29	Observation of elastic topological states in soft materials. Nature Communications, 2018, 9, 1370.	12.8	78
30	Dynamically tunable interface states in 1D graphene-embedded photonic crystal heterostructure. Journal of Physics Condensed Matter, 2018, 30, 095702.	1.8	3
31	Out-of-Plane Designed Soft Metasurface for Tunable Surface Plasmon Polariton. Nano Letters, 2018, 18, 1435-1441.	9.1	23
32	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
33	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
34	Synthesis and Characterization of the Conducting Polymer Micro-Helix Based on the Spirulina Template. Polymers, 2018, 10, 882.	4.5	9
35	Hollowâ€Out Patterning Ultrathin Acoustic Metasurfaces for Multifunctionalities Using Soft fiber/Rigid Bead Networks. Advanced Functional Materials, 2018, 28, 1801127.	14.9	42
36	Fully Stretchable and Humidity-Resistant Quantum Dot Gas Sensors. ACS Sensors, 2018, 3, 1048-1055.	7.8	63

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37	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
38	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
39	Highly polarization sensitive infrared photodetector based on black phosphorus-on-WSe 2 photogate vertical heterostructure. Nano Energy, 2017, 37, 53-60.	16.0	252
40	Wrinkled nitrile rubber films for stretchable and ultra-sensitive respiration sensors. Extreme Mechanics Letters, 2017, 11, 128-136.	4.1	36
41	Enhancement of Thermal Conductivity of Polyvinyl Alcohol Membrane Using Nano-fiber. MRS Advances, 2017, 2, 3651-3656.	0.9	1
42	Controllable Synthesis of Two-Dimensional Ruddlesdenâ€“Popper-Type Perovskite Heterostructures. Journal of Physical Chemistry Letters, 2017, 8, 6211-6219.	4.6	54
43	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
44	Thermal Transport in Soft PAAm Hydrogels. Polymers, 2017, 9, 688.	4.5	73
45	Mechanically tunable terahertz graphene plasmonics using soft metasurface. 2D Materials, 2016, 3, 041007.	4.4	9
46	Adjustable thermal resistor by reversibly folding a graphene sheet. Nanoscale, 2016, 8, 14943-14949.	5.6	48
47	Sensitive Room-Temperature H₂S Gas Sensors Employing SnO₂ Quantum Wire/Reduced Graphene Oxide Nanocomposites. Chemistry of Materials, 2016, 28, 1205-1212.	6.7	381
48	Tunable lotus-leaf and rose-petal effects via graphene paper origami. Extreme Mechanics Letters, 2015, 4, 18-25.	4.1	34
49	Atomic-Scale Imaging of Cation Ordering in Inverse Spinel Zn₂SnO₄ Nanowires. Nano Letters, 2014, 14, 6505-6509.	9.1	19
50	Harnessing Localized Ridges for Highâ€Aspectâ€Ratio Hierarchical Patterns with Dynamic Tunability and Multifunctionality. Advanced Materials, 2014, 26, 1763-1770.	21.0	171
51	Stretchable and High-Performance Supercapacitors with Crumpled Graphene Papers. Scientific Reports, 2014, 4, 6492.	3.3	207
52	Magneto-rheological foams capable of tunable energy absorption. , 2013, , .		2
53	Multifunctionality and control of the crumpling and unfolding of large-area graphene. Nature Materials, 2013, 12, 321-325.	27.5	735
54	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

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55	Reversible Sliding in Networks of Nanowires. Nano Letters, 2013, 13, 2381-2386.	9.1	71
56	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
57	Localized ridge wrinkling of stiff films on compliant substrates. Journal of the Mechanics and Physics of Solids, 2012, 60, 1265-1279.	4.8	138
58	Dynamic Electrostatic Lithography: Multiscale Onâ€Demand Patterning on Largeâ€Area Curved Surfaces. Advanced Materials, 2012, 24, 1947-1951.	21.0	49
59	Electrospinning fabrication, structural and mechanical characterization of rod-like virus-based composite nanofibers. Journal of Materials Chemistry, 2011, 21, 8550.	6.7	47
60	Electrical Self-Healing of Mechanically Damaged Zinc Oxide Nanobelts. Nano Letters, 2011, 11, 241-244.	9.1	32
61	Electron Beam Irradiation Stiffens Zinc Tin Oxide Nanowires. Nano Letters, 2011, 11, 4885-4889.	9.1	29
62	Flexible Zn₂SnO₄/MnO₂ Core/Shell Nanocableâ˜Carbon Microfiber Hybrid Composites for High-Performance Supercapacitor Electrodes. Nano Letters, 2011, 11, 1215-1220.	9.1	807
63	In situ synthesis of ultrafine Î²-MnO2/polypyrrole nanorod composites for high-performance supercapacitors. Journal of Materials Chemistry, 2011, 21, 10965.	6.7	175
64	Electrochemical detection of ultratrace nitroaromatic explosives using ordered mesoporous carbon. Analytica Chimica Acta, 2011, 683, 187-191.	5.4	89
65	Template-Free Electrochemical Synthesis of Superhydrophilic Polypyrrole Nanofiber Network. Macromolecules, 2008, 41, 7053-7057.	4.8	135
66	Well-Aligned Cone-Shaped Nanostructure of Polypyrrole/RuO₂ and Its Electrochemical Supercapacitor. Journal of Physical Chemistry C, 2008, 112, 14843-14847.	3.1	231
67	Supercapacitance of Solid Carbon Nanofibers Made from Ethanol Flames. Journal of Physical Chemistry C, 2008, 112, 3612-3618.	3.1	83
68	New Nanostructured TiO₂ for Direct Electrochemistry and Glucose Sensor Applications. Advanced Functional Materials, 2008, 18, 591-599.	14.9	416
69	Hyaluronan-Assisted Photoreduction Synthesis of Silver Nanostructures: From Nanoparticle to Nanoplate. Journal of Physical Chemistry C, 2008, 112, 10730-10734.	3.1	47
70	Lithium Insertion in Channel-Structured Î²-AgVO₃: In Situ Raman Study and Computer Simulation. Chemistry of Materials, 2007, 19, 5965-5972.	6.7	37
71	Shape-controlled assembly of luminescent dumbbell-like CdTeâ€“cystine nanocomposites. Nanotechnology, 2007, 18, 455701.	2.6	23
72	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

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73	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
74	Tailoring Zinc Oxide Nanowires for High Performance Amperometric Glucose Sensor. Electroanalysis, 2007, 19, 1008-1014.	2.9	190
75	Highly sensitive lactate biosensor by engineering chitosan/PVI-Os/CNT/LOD network nanocomposite. Biosensors and Bioelectronics, 2007, 22, 3288-3292.	10.1	112
76	Electrochemical Detection of Nitric Oxide on a SWCNT/RTIL Composite Gel Microelectrode. Electroanalysis, 2006, 18, 713-718.	2.9	100
77	Electron spin resonance analysis of magnetic structures in La2/3Ca1/3MnO3. Journal of Magnetism and Magnetic Materials, 2005, 293, 782-786.	2.3	10
78	Temperature-dependent photoluminescence in La2/3Ca1/3MnO3. Solid State Communications, 2004, 132, 815-819.	1.9	35