

Gang Zhao

List of Publications by Year in descending order

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204
papers

8,066
citations

41258

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209
all docs

209
docs citations

209
times ranked

9590
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing flexible asymmetric supercapacitor with high energy density by electrode engineering and charge matching mechanism. <i>Chemical Engineering Journal</i> , 2022, 429, 132406.	6.6	42
2	Rational construction of phosphate layer to optimize Cu-regulated Fe ₃ O ₄ as anode material with promoted energy storage performance for rechargeable Ni-Fe batteries. <i>Journal of Materials Science and Technology</i> , 2022, 108, 133-141.	5.6	17
3	Amorphous Ni-Co-S nanocages assembled with nanosheet arrays as cathode for high-performance zinc ion battery. <i>Chinese Chemical Letters</i> , 2022, 33, 3272-3276.	4.8	10
4	Synthesis of multishelled SnO _x /Co ₃ O ₄ amorphous/crystalline heterophase with galvanic replacement reaction for superior HCHO sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130876.	4.0	26
5	Self-water-absorption-type two-dimensional composite photocatalyst with high-efficiency water absorption and overall water-splitting performance. , 2022, 1, 100008.		55
6	Engineering interfacial coupling between 3D net-like Ni ₃ (VO ₄) ₂ ultrathin nanosheets and MoS ₂ on carbon fiber cloth for boosting hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 336-345.	5.0	15
7	Bimetal phosphide as high efficiency and stable bifunctional electrocatalysts for hydrogen and oxygen evolution reaction in alkaline solution. <i>RSC Advances</i> , 2022, 12, 9051-9057.	1.7	4
8	Stretchable, breathable, and highly sensitive capacitive and self-powered electronic skin based on core-shell nanofibers. <i>Nanoscale</i> , 2022, 14, 6600-6611.	2.8	18
9	The Natural Cryoprotectant Honey for Fertility Cryopreservation. <i>Bioengineering</i> , 2022, 9, 88.	1.6	4
10	Ether-Water Hybrid Electrolyte Contributing to Excellent Mg Ion Storage in Layered Sodium Vanadate. <i>ACS Nano</i> , 2022, 16, 6093-6102.	7.3	54
11	High Sensitivity, Broad Working Range, Comfortable, and Biofriendly Wearable Strain Sensor for Electronic Skin. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	10
12	Hydrogel Microencapsulation Enhances Cryopreservation of Red Blood Cells with Trehalose. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2066-2075.	2.6	6
13	Defect engineering in Co-doped Ni ₃ S ₂ nanosheets as cathode for high-performance aqueous zinc ion battery. <i>Journal of Materials Science and Technology</i> , 2022, 118, 190-198.	5.6	22
14	Physics-Guided Long Short-Term Memory Network for Streamflow and Flood Simulations in the Lancang-Mekong River Basin. <i>Water (Switzerland)</i> , 2022, 14, 1429.	1.2	10
15	Inhibition Effect of Ti ₃ C ₂ T _x MXene on Ice Crystals Combined with Laser-Mediated Heating Facilitates High-Performance Cryopreservation. <i>ACS Nano</i> , 2022, 16, 8837-8850.	7.3	14
16	Non-conductive ion extraction molds biomass into dual cross-linked structures with defect as both commercial conductor and electrode active material. <i>Journal of Energy Storage</i> , 2022, 52, 105043.	3.9	2
17	Label-Free and Noninvasive Single-Cell Characterization for the Viscoelastic Properties of Cryopreserved Human Red Blood Cells Using a Dielectrophoresis-On-a-Chip Approach. <i>Analytical Chemistry</i> , 2022, 94, 10245-10255.	3.2	9
18	Metal-organic framework derived NiCoP hollow polyhedrons electrocatalyst for pH-universal hydrogen evolution reaction. <i>Chinese Chemical Letters</i> , 2021, 32, 119-124.	4.8	54

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19	Recent advances in the improvement of g-C ₃ N ₄ based photocatalytic materials. Chinese Chemical Letters, 2021, 32, 13-20.	4.8	128
20	Design of p-n homojunctions in metal-free carbon nitride photocatalyst for overall water splitting. Chinese Journal of Catalysis, 2021, 42, 501-509.	6.9	61
21	New Promises from an Old Friend: Iodine-Rich Compounds as Prospective Energetic Biocidal Agents. Accounts of Chemical Research, 2021, 54, 332-343.	7.6	37
22	Why the hydrothermal fluorinated method can improve photocatalytic activity of carbon nitride. Chinese Chemical Letters, 2021, 32, 277-281.	4.8	9
23	Electrospun nanofibers promote wound healing: theories, techniques, and perspectives. Journal of Materials Chemistry B, 2021, 9, 3106-3130.	2.9	109
24	Optical-Relayed Entanglement Distribution Using Drones as Mobile Nodes. Physical Review Letters, 2021, 126, 020503.	2.9	57
25	Ultrawide-bandgap semiconductor AlN crystals: growth and applications. Journal of Materials Chemistry C, 2021, 9, 1852-1873.	2.7	49
26	2D WS ₂ co-catalysts induce the growth of CdS and enhance the photocatalytic performance. CrystEngComm, 2021, 23, 4451-4458.	1.3	6
27	Cocatalysts from types, preparation to applications in the field of photocatalysis. Nanoscale, 2021, 13, 10649-10667.	2.8	43
28	Ice Inhibition for Cryopreservation: Materials, Strategies, and Challenges. Advanced Science, 2021, 8, 2002425.	5.6	141
29	The implications of future climate change on the blue water footprint of hydropower in the contiguous US. Environmental Research Letters, 2021, 16, 034003.	2.2	10
30	Recent Progress in Flexible Pressure Sensors Based Electronic Skin. Advanced Engineering Materials, 2021, 23, 2001187.	1.6	115
31	NASA's MODIS/VIIRS Global Water Reservoir Product Suite from Moderate Resolution Remote Sensing Data. Remote Sensing, 2021, 13, 565.	1.8	12
32	Near-Infrared Light-, Magneto-, and pH-Responsive GO@Fe ₃ O ₄ /Poly(N-isopropylacrylamide)/alginate Nanocomposite Hydrogel Microcapsules for Controlled Drug Release. Langmuir, 2021, 37, 5522-5530.	1.6	31
33	Controlled Release of Cryoprotectants by Near-Infrared Irradiation for Improved Cell Cryopreservation. ACS Biomaterials Science and Engineering, 2021, 7, 2520-2529.	2.6	5
34	Ultrabright Multiplexed Energy-Time-Entangled Photon Generation from Lithium Niobate on Insulator Chip. Physical Review Applied, 2021, 15, .	1.5	39
35	Design of Multilayered Porous Aluminum Nitride for Supercapacitor Applications. Energy & Fuels, 2021, 35, 12628-12636.	2.5	16
36	Hollow polyhedron structure of amorphous Ni-Co-S/Co(OH) ₂ for high performance supercapacitors. Chinese Chemical Letters, 2021, 32, 2453-2458.	4.8	43

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37	Grass modelling in data-limited areas by incorporating MODIS data products. <i>Field Crops Research</i> , 2021, 271, 108250.	2.3	4
38	Improvement of nickel-cobalt-based supercapacitors energy storage performance by modification of elements. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 712-720.	5.0	32
39	Synergistic Ice Inhibition Effect Enhances Rapid Freezing Cryopreservation with Low Concentration of Cryoprotectants. <i>Advanced Science</i> , 2021, 8, 2003387.	5.6	26
40	Fine-tuned dehydration by trehalose enables the cryopreservation of RBCs with unusually low concentrations of glycerol. <i>Journal of Materials Chemistry B</i> , 2021, 9, 295-306.	2.9	23
41	Two-dimensional wide band-gap nitride semiconductor GaN and AlN materials: properties, fabrication and applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17201-17232.	2.7	40
42	Stencil Printing of Liquid Metal upon Electrospun Nanofibers Enables High-Performance Flexible Electronics. <i>ACS Nano</i> , 2021, 15, 19364-19376.	7.3	97
43	Midinfrared Tunable Laser with Noncritical Frequency Matching in Box Resonator Geometry. <i>Physical Review Letters</i> , 2021, 127, 213902.	2.9	5
44	MOF-derived the direct Z-scheme g-C ₃ N ₄ /TiO ₂ with enhanced visible photocatalytic activity. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 93, 123-130.	1.1	30
45	Point-of-Care Assessment of Hemostasis with a Love-Mode Surface Acoustic Wave Sensor. <i>ACS Sensors</i> , 2020, 5, 282-291.	4.0	14
46	Biocarbon based template synthesis of uniform lamellar MoS ₂ nanoflowers with excellent energy storage performance in lithium-ion battery and supercapacitors. <i>Electrochimica Acta</i> , 2020, 331, 135262.	2.6	41
47	Estimating lake temperature profile and evaporation losses by leveraging MODIS LST data. <i>Remote Sensing of Environment</i> , 2020, 251, 112104.	4.6	32
48	Uncertainty Assessment of Urban Hydrological Modelling from a Multiple Objective Perspective. <i>Water (Switzerland)</i> , 2020, 12, 1393.	1.2	13
49	Design of nickel cobalt molybdate regulated by boronizing for high-performance supercapacitor applications. <i>Nanoscale</i> , 2020, 12, 17849-17857.	2.8	20
50	A Mini Review of the Preparation and Photocatalytic Properties of Two-Dimensional Materials. <i>Frontiers in Chemistry</i> , 2020, 8, 582146.	1.8	27
51	A high-resolution bathymetry dataset for global reservoirs using multi-source satellite imagery and altimetry. <i>Remote Sensing of Environment</i> , 2020, 244, 111831.	4.6	56
52	Periodically poled LiNbO ₃ crystals from 1D and 2D to 3D. <i>Science China Technological Sciences</i> , 2020, 63, 1110-1126.	2.0	21
53	Quantifying the effects of urbanization on floods in a changing environment to promote water security "A case study of two adjacent basins in Texas. <i>Journal of Hydrology</i> , 2020, 589, 125154.	2.3	31
54	Modelling the Vegetation Response to Climate Changes in the Yarlung Zangbo River Basin Using Random Forest. <i>Water (Switzerland)</i> , 2020, 12, 1433.	1.2	4

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55	Thermodynamic analysis of an innovative transcritical CO ₂ parallel Rankine cycle driven by engine waste heat and liquefied natural gas cold. <i>Energy Conversion and Management</i> , 2020, 209, 112583.	4.4	16
56	Hierarchically hollow structured NiCo ₂ S ₄ @NiS for high-performance flexible hybrid supercapacitors. <i>Nanoscale</i> , 2020, 12, 4686-4694.	2.8	80
57	Drone-based entanglement distribution towards mobile quantum networks. <i>National Science Review</i> , 2020, 7, 921-928.	4.6	61
58	Flourishing Self-Healing Surface Materials: Recent Progresses and Challenges. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901959.	1.9	30
59	Selecting Suitable Substituents for Energetic Materials Based on a Fused Triazolo-[1,2,4,5]tetrazine Ring. <i>ACS Applied Energy Materials</i> , 2020, 3, 5510-5516.	2.5	33
60	Hydrogel-Based Multifunctional Dressing Combining Magneto-thermally Responsive Drug Delivery and Stem Cell Therapy for Enhanced Wound Healing. <i>Advanced Therapeutics</i> , 2020, 3, 2000001.	1.6	16
61	Artificial Blood Vessel Frameworks from 3D Printing-Based Super-Assembly as <i>In Vitro</i> Models for Early Diagnosis of Intracranial Aneurysms. <i>Chemistry of Materials</i> , 2020, 32, 3188-3198.	3.2	8
62	Perovskite CsPbBr ₃ crystals: growth and applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6326-6341.	2.7	87
63	Impacts of urbanization, antecedent rainfall event, and cyclone tracks on extreme floods at Houston reservoirs during Hurricane Harvey. <i>Environmental Research Letters</i> , 2020, 15, 124012.	2.2	7
64	1,3,5-Triiodo-2,4,6-trinitrobenzene (TITNB) from benzene: Balancing performance and high thermal stability of functional energetic materials. <i>Chemical Engineering Journal</i> , 2019, 378, 122119.	6.6	18
65	Cold-Responsive Nanocapsules Enable the Sole Cryoprotectant Trehalose Cryopreservation of β^2 Cell-Laden Hydrogels for Diabetes Treatment. <i>Small</i> , 2019, 15, e1904290.	5.2	36
66	Cold-Responsive Nanoparticle Enables Intracellular Delivery and Rapid Release of Trehalose for Organic-Solvent-Free Cryopreservation. <i>Nano Letters</i> , 2019, 19, 9051-9061.	4.5	53
67	Towards Global Hydrological Drought Monitoring Using Remotely Sensed Reservoir Surface Area. <i>Geophysical Research Letters</i> , 2019, 46, 13027-13035.	1.5	16
68	A Safe and Scaled-Up Route to Inert Ammonia Oxide Hydroxylammonium Azide (H ₇ N ₅ O ₂), Hydrazinium Azide (H ₅ N ₅), and Ammonium Azide (H ₄ N ₄). <i>ACS Applied Energy Materials</i> , 2019, 2, 6919-6923.	2.5	16
69	Microencapsulation Facilitates Low-Cryoprotectant Vitrification of Human Umbilical Vein Endothelial Cells. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5273-5283.	2.6	10
70	Highly sensitive and low working temperature detection of trace triethylamine based on TiO ₂ nanoparticles decorated CuO nanosheets sensors. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127019.	4.0	55
71	Development of a portable and sensitive blood serum test system using LED-based absorption photometry and pump-free microfluidic technology. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 86-93.	4.0	22
72	Construction of Polynitro Compounds as High-Performance Oxidizers via a Two-Step Nitration of Various Functional Groups. <i>Organic Letters</i> , 2019, 21, 1073-1077.	2.4	43

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73	Vitrification of stem cell-laden core-shell microfibers with unusually low concentrations of cryoprotective agents. <i>Biomaterials Science</i> , 2019, 7, 889-900.	2.6	17
74	Parametric analysis and optimization of transcritical-subcritical dual-loop organic Rankine cycle using zeotropic mixtures for engine waste heat recovery. <i>Energy Conversion and Management</i> , 2019, 195, 770-787.	4.4	35
75	Preparation of Low-Dimensional Bismuth Tungstate (Bi ₂ WO ₆) Photocatalyst by Electrospinning. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1900035.	0.8	8
76	Nickel-cobalt based aqueous flexible solid state supercapacitors with high energy density by controllable surface modification. <i>Journal of Power Sources</i> , 2019, 427, 56-61.	4.0	62
77	A microfluidic platform with cell-scale precise temperature control for simultaneous investigation of the osmotic responses of multiple oocytes. <i>Lab on A Chip</i> , 2019, 19, 1929-1940.	3.1	27
78	Multifunctional Photo- and Magneto-responsive Graphene Oxide-Fe ₃ O ₄ Nanocomposite-Alginate Hydrogel Platform for Ice Recrystallization Inhibition. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12379-12388.	4.0	35
79	Estimating reservoir evaporation losses for the United States: Fusing remote sensing and modeling approaches. <i>Remote Sensing of Environment</i> , 2019, 226, 109-124.	4.6	97
80	Past and future trends of vehicle emissions in Tianjin, China, from 2000 to 2030. <i>Atmospheric Environment</i> , 2019, 209, 182-191.	1.9	49
81	Flash Flood Risk Analysis Based on Machine Learning Techniques in the Yunnan Province, China. <i>Remote Sensing</i> , 2019, 11, 170.	1.8	49
82	Precise targeting of POLR2A as a therapeutic strategy for human triple negative breast cancer. <i>Nature Nanotechnology</i> , 2019, 14, 388-397.	15.6	107
83	2D New Nonmetal Photocatalyst of Sulfur-Doped h-BN Nanosheets with High Photocatalytic Activity. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900062.	1.9	58
84	Functional energetic biocides by coupling of energetic and biocidal polyiodo building blocks. <i>Chemical Engineering Journal</i> , 2019, 368, 244-251.	6.6	16
85	Synthesis of WS _{1.76} Te _{0.24} alloy through chemical vapor transport and its high-performance saturable absorption. <i>Scientific Reports</i> , 2019, 9, 19457.	1.6	5
86	Bis(3-nitro-1-(trinitromethyl)-1 <i>H</i> -1,2,4-triazol-5-yl)methanone: An Applicable and Very Dense Green Oxidizer. <i>Journal of the American Chemical Society</i> , 2019, 141, 19581-19584.	6.6	71
87	Intermolecular Weak Hydrogen Bonding (Het-H-N/O): an Effective Strategy for the Synthesis of Monosubstituted 1,2,4,5-Tetrazine-Based Energetic Materials with Excellent Sensitivity. <i>Journal of Organic Chemistry</i> , 2019, 84, 16019-16026.	1.7	23
88	Retrofitting low-cost heating ventilation and air-conditioning systems for energy management in buildings. <i>Applied Energy</i> , 2019, 236, 648-661.	5.1	22
89	Sensing Cell Membrane Biophysical Properties for Detection of High Quality Human Oocytes. <i>ACS Sensors</i> , 2019, 4, 192-199.	4.0	12
90	Investigation of Electromagnetic Resonance Rewarming Enhanced by Magnetic Nanoparticles for Cryopreservation. <i>Langmuir</i> , 2019, 35, 7560-7570.	1.6	17

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91	Construction of Longanâ€‘like hybrid structures by anchoring nickel hydroxide on yolkâ€‘shell polypyrrole for asymmetric supercapacitors. <i>Nano Energy</i> , 2019, 56, 207-215.	8.2	132
92	Rational design of sensitivity enhanced and stability improved TEA gas sensor assembled with Pd nanoparticles-functionalized In ₂ O ₃ composites. <i>Sensors and Actuators B: Chemical</i> , 2019, 285, 1-10.	4.0	93
93	All-Aqueous-Phase Microfluidics for Cell Encapsulation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4826-4832.	4.0	99
94	Assessment of urban flood susceptibility using semi-supervised machine learning model. <i>Science of the Total Environment</i> , 2019, 659, 940-949.	3.9	163
95	The Unusual Properties of Polytetrafluoroethylene Enable Massiveâ€‘Volume Vitrification of Stem Cells with Lowâ€‘Concentration Cryoprotectants. <i>Advanced Materials Technologies</i> , 2019, 4, 1800289.	3.0	20
96	Efficient Construction of Energetic Materials via Nonmetallic Catalytic Carbonâ€‘Carbon Cleavage/Oxime-Release-Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2018, 140, 3560-3563.	6.6	50
97	New 2D Carbon Nitride Organic Materials Synthesis with Hugeâ€‘Application Prospects in CN Photocatalyst. <i>Small</i> , 2018, 14, e1704138.	5.2	47
98	Dual Suppression Effect of Magnetic Induction Heating and Microencapsulation on Ice Crystallization Enables Low-Cryoprotectant Vitrification of Stem Cellâ€‘Alginate Hydrogel Constructs. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16822-16835.	4.0	67
99	Overcoming Ovarian Cancer Drug Resistance with a Cold Responsive Nanomaterial. <i>ACS Central Science</i> , 2018, 4, 567-581.	5.3	49
100	Ultra-broadband nonlinear optical response of two-dimensional h-BN nanosheets and their hybrid gel glasses. <i>Nanoscale</i> , 2018, 10, 4276-4283.	2.8	22
101	Near-infrared laser mediated modulation of ice crystallization by two-dimensional nanosheets enables high-survival recovery of biological cells from cryogenic temperatures. <i>Nanoscale</i> , 2018, 10, 11760-11774.	2.8	33
102	Mapping flood susceptibility in mountainous areas on a national scale in China. <i>Science of the Total Environment</i> , 2018, 615, 1133-1142.	3.9	234
103	Phase junction CdS: High efficient and stable photocatalyst for hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 179-186.	10.8	111
104	Magnetothermal heating facilitates the cryogenic recovery of stem cellâ€‘laden alginateâ€‘Fe ₃ O ₄ nanocomposite hydrogels. <i>Biomaterials Science</i> , 2018, 6, 3139-3151.	2.6	23
105	New Properties of Twoâ€‘Dimensional Materials: Highly Effective Thermal Catalytic Degradation Activity. <i>ChemistrySelect</i> , 2018, 3, 10133-10138.	0.7	1
106	Conjugated Energetic Salts Based on Fused Rings: Insensitive and Highly Dense Materials. <i>Journal of the American Chemical Society</i> , 2018, 140, 15001-15007.	6.6	134
107	Metal-Free Graphitic Carbon Nitride Photocatalyst Goes Into Two-Dimensional Time. <i>Frontiers in Chemistry</i> , 2018, 6, 551.	1.8	41
108	Improving the density and properties of nitrogen-rich scaffolds by the introduction of a Câ€‘NO ₂ group. <i>New Journal of Chemistry</i> , 2018, 42, 16162-16166.	1.4	13

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109	A modeling framework for evaluating the drought resilience of a surface water supply system under non-stationarity. <i>Journal of Hydrology</i> , 2018, 563, 22-32.	2.3	24
110	Control of Biohazards: A High Performance Energetic Polycyclized Iodine-Containing Biocide. <i>Inorganic Chemistry</i> , 2018, 57, 8673-8680.	1.9	23
111	Simultaneous immunoassays of dual prostate cancer markers using a SERS-based microdroplet channel. <i>Biosensors and Bioelectronics</i> , 2018, 119, 126-133.	5.3	82
112	Automatic Correction of Contaminated Images for Assessment of Reservoir Surface Area Dynamics. <i>Geophysical Research Letters</i> , 2018, 45, 6092-6099.	1.5	79
113	Microfluidics for cryopreservation. <i>Biotechnology Advances</i> , 2017, 35, 323-336.	6.0	84
114	A microfluidic perfusion approach for on-chip characterization of the transport properties of human oocytes. <i>Lab on A Chip</i> , 2017, 17, 1297-1305.	3.1	37
115	Graphene-Assisted Exfoliation of Molybdenum Disulfide to Fabricate 2D Heterostructure for Enhancing Lithium Storage. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601187.	1.9	38
116	Phase-transformation engineering in MoS ₂ on carbon cloth as flexible binder-free anode for enhancing lithium storage. <i>Journal of Alloys and Compounds</i> , 2017, 716, 112-118.	2.8	66
117	A Novel Mild Phase-Transition to Prepare Black Phosphorus Nanosheets with Excellent Energy Applications. <i>Small</i> , 2017, 13, 1602243.	5.2	97
118	Effects of trehalose vitrification and artificial oocyte activation on the development competence of human immature oocytes. <i>Cryobiology</i> , 2017, 74, 43-49.	0.3	22
119	Energy and Biocides Storage Compounds: Synthesis and Characterization of Energetic Bridged Bis(triiodoazoles). <i>Inorganic Chemistry</i> , 2017, 56, 13547-13552.	1.9	23
120	New Generation Agent Defeat Weapons: Energetic N,N'-Ethylene-Bridged Polyiodoazoles. <i>Chemistry - A European Journal</i> , 2017, 23, 16753-16757.	1.7	22
121	Properties of 2,3,3,3-Tetrafluoroprop-1-ene (HFO-1234yf) in the Gaseous Phase. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 3353-3359.	1.0	12
122	Photo-enhanced electrocatalysis of sea-urchin shaped Ni ₃ (VO ₄) ₂ for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18038-18043.	5.2	37
123	Nanomechanical sensors for direct and rapid characterization of sperm motility based on nanoscale vibrations. <i>Nanoscale</i> , 2017, 9, 18258-18267.	2.8	16
124	Hydrogel Encapsulation Facilitates Rapid-Cooling Cryopreservation of Stem Cell-Laden Core-Shell Microcapsules as Cell-Biomaterial Constructs. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700988.	3.9	68
125	Characteristics of Artemether-Loaded Poly(lactic-co-glycolic) Acid Microparticles Fabricated by Coaxial Electrospray: Validation of Enhanced Encapsulation Efficiency and Bioavailability. <i>Molecular Pharmaceutics</i> , 2017, 14, 4725-4733.	2.3	25
126	Prehydration and Ice Seeding in the Presence of Trehalose Enable Cell Cryopreservation. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1758-1768.	2.6	64

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127	Coupled experimental-modeling analyses of heat transfer in ex-vivo VS55-perfused porcine hepatic tissue being plunged in liquid nitrogen for vitreous cryopreservation. <i>International Journal of Heat and Mass Transfer</i> , 2017, 106, 970-979.	2.5	14
128	Two-phase heat transfer model for multiprobe cryosurgery. <i>Applied Thermal Engineering</i> , 2017, 113, 47-57.	3.0	22
129	2.8 μ m Passively Q-switched solid state pulse laser based on MoS ₂ /Graphene heterojunction. , 2017, , .		1
130	Statistical Downscaling of Temperature with the Random Forest Model. <i>Advances in Meteorology</i> , 2017, 2017, 1-11.	0.6	54
131	Broadband atomic-layer MoS ₂ optical modulators for ultrafast pulse generations in the visible range. <i>Optics Letters</i> , 2017, 42, 547.	1.7	47
132	Utilizing photocorrosion-recrystallization to prepare a highly stable and efficient CdS/WS ₂ nanocomposite photocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 466-472.	10.8	129
133	Comparison of the Fitting Validity Between the 2P Model and the Nondilute Solution Model Using Statistical Methods in Modeling Cell Membrane Permeabilities. <i>Biopreservation and Biobanking</i> , 2016, 14, 39-44.	0.5	2
134	Enhanced Microwave Hyperthermia of Cancer Cells with Fullerene. <i>Molecular Pharmaceutics</i> , 2016, 13, 2184-2192.	2.3	35
135	Trifluoromethylation of haloarenes with a new trifluoro-methylating reagent Cu(O ₂ CCF ₂ SO ₂ F) ₂ . <i>RSC Advances</i> , 2016, 6, 50250-50254.	1.7	24
136	Vitreous Cryopreservation of Human Umbilical Vein Endothelial Cells with Low Concentration of Cryoprotective Agents for Vascular Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 964-973.	1.1	12
137	One-Step Exfoliation and Hydroxylation of Boron Nitride Nanosheets with Enhanced Optical Limiting Performance. <i>Advanced Optical Materials</i> , 2016, 4, 141-146.	3.6	99
138	Effects of Urbanization and Climate Change on Peak Flows over the San Antonio River Basin, Texas. <i>Journal of Hydrometeorology</i> , 2016, 17, 2371-2389.	0.7	45
139	Integrating a reservoir regulation scheme into a spatially distributed hydrological model. <i>Advances in Water Resources</i> , 2016, 98, 16-31.	1.7	94
140	A study of the osmotic characteristics, water permeability, and cryoprotectant permeability of human vaginal immune cells. <i>Cryobiology</i> , 2016, 72, 93-99.	0.3	37
141	Effect of iron oxide nanoparticles on the permeability properties of Sf21 cells. <i>Cryobiology</i> , 2016, 72, 21-26.	0.3	5
142	Magnetic induction heating of superparamagnetic nanoparticles during rewarming augments the recovery of hUCM-MSCs cryopreserved by vitrification. <i>Acta Biomaterialia</i> , 2016, 33, 264-274.	4.1	74
143	Determination of the Membrane Permeability to Water of Human Vaginal Mucosal Immune Cells at Subzero Temperatures Using Differential Scanning Calorimetry. <i>Biopreservation and Biobanking</i> , 2016, 14, 307-313.	0.5	12
144	Large-quantity and continuous preparation of two-dimensional nanosheets. <i>Nanoscale</i> , 2016, 8, 5407-5411.	2.8	52

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