

Xiao Zhang

List of Publications by Year in descending order

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131
papers

7,034
citations

66343

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60623

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132
all docs

132
docs citations

132
times ranked

9230
citing authors

#	ARTICLE	IF	CITATIONS
19	Multi-UAV Cooperative Trajectory for Servicing Dynamic Demands and Charging Battery. IEEE Transactions on Mobile Computing, 2021, , 1-1.	5.8	9
20	Active Incremental Feature Selection Using a Fuzzy-Rough-Set-Based Information Entropy. IEEE Transactions on Fuzzy Systems, 2020, 28, 901-915.	9.8	85
21	The impact of aerosol on MODIS cloud detection and property retrieval in seriously polluted East China. Science of the Total Environment, 2020, 711, 134634.	8.0	16
22	Stimuli-Responsive Small-on-Large Nanoradiosensitizer for Enhanced Tumor Penetration and Radiotherapy Sensitization. ACS Nano, 2020, 14, 10001-10017.	14.6	93
23	A staged adaptive firefly algorithm for UAV charging planning in wireless sensor networks. Computer Communications, 2020, 161, 132-141.	5.1	15
24	Consistent dynamic map labeling with fairness and importance. Computer Aided Geometric Design, 2020, 81, 101892.	1.2	2
25	Energy-Saving Deployment Algorithms of UAV Swarm for Sustainable Wireless Coverage. IEEE Transactions on Vehicular Technology, 2020, 69, 10320-10335.	6.3	40
26	Defect-Rich Adhesive Molybdenum Disulfide/rGO Vertical Heterostructures with Enhanced Nanozyme Activity for Smart Bacterial Killing Application. Advanced Materials, 2020, 32, e2005423.	21.0	207
27	A Hybrid Genetic Algorithm for Sustainable Wireless Coverage of Drone Networks. , 2020, , .		4
28	Diet Diurnally Regulates Small Intestinal Microbiome-Epithelial-Immune Homeostasis and Enteritis. Cell, 2020, 182, 1441-1459.e21.	28.9	101
29	Liposomal Delivery of Mitoxantrone and a Cholesteryl Indoximod Prodrug Provides Effective Chemo-immunotherapy in Multiple Solid Tumors. ACS Nano, 2020, 14, 13343-13366.	14.6	91
30	Few-Layer Bismuthene for Checkpoint Knockdown Enhanced Cancer Immunotherapy with Rapid Clearance and Sequentially Triggered One-for-All Strategy. ACS Nano, 2020, 14, 15700-15713.	14.6	41
31	A two-step gas/liquid strategy for the production of N-doped defect-rich transition metal dichalcogenide nanosheets and their antibacterial applications. Nanoscale, 2020, 12, 8415-8424.	5.6	43
32	Graphdiyne nanoradioprotector with efficient free radical scavenging ability for mitigating radiation-induced gastrointestinal tract damage. Biomaterials, 2020, 244, 119940.	11.4	58
33	A Cooperative Coevolutionary Approach to Discretization-Based Feature Selection for High-Dimensional Data. Entropy, 2020, 22, 613.	2.2	3
34	Liquid-Phase Exfoliation and Functionalization of MoS ₂ Nanosheets for Effective Antibacterial Application. ChemBioChem, 2020, 21, 2373-2380.	2.6	31
35	Glucose-responsive cascaded nanocatalytic reactor with self-modulation of the tumor microenvironment for enhanced chemo-catalytic therapy. Materials Horizons, 2020, 7, 1834-1844.	12.2	56
36	Elevating EGFR-MAPK program by a nonconventional Cdc42 enhances intestinal epithelial survival and regeneration. JCI Insight, 2020, 5, .	5.0	18

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37	Cooperative Path Planning of a UAV Swarm to Meet Temporal-Spatial User Demands. , 2020, , .		3
38	Fast Deployment of UAV Networks for Optimal Wireless Coverage. IEEE Transactions on Mobile Computing, 2019, 18, 588-601.	5.8	136
39	An All-Organic Semiconductor C ₃ N ₄ /PDINH Heterostructure with Advanced Antibacterial Photocatalytic Therapy Activity. Advanced Materials, 2019, 31, e1901965.	21.0	215
40	Recycling Endosomes in Mature Epithelia Restrain Tumorigenic Signaling. Cancer Research, 2019, 79, 4099-4112.	0.9	26
41	Laser ablation of polymers: a review. Polymer International, 2019, 68, 1391-1401.	3.1	114
42	Endocytosis of commensal antigens by intestinal epithelial cells regulates mucosal T cell homeostasis. Science, 2019, 363, .	12.6	121
43	Mass production of poly(ethylene glycol) monooleate-modified core-shell structured upconversion nanoparticles for bio-imaging and photodynamic therapy. Scientific Reports, 2019, 9, 5212.	3.3	20
44	3D printing and characterization of hydroxypropyl methylcellulose and methylcellulose for biodegradable support structures. Polymer, 2019, 173, 119-126.	3.8	29
45	Efficient Near Infrared Light Triggered Nitric Oxide Release Nanocomposites for Sensitizing Mild Photothermal Therapy. Advanced Science, 2019, 6, 1801122.	11.2	169
46	Translocation, biotransformation-related degradation, and toxicity assessment of polyvinylpyrrolidone-modified 2H-phase nano-MoS ₂ . Nanoscale, 2019, 11, 4767-4780.	5.6	47
47	Optimal Patrolling Trajectory Design for Multi-UAV Wireless Servicing and Battery Swapping. , 2019, , .		4
48	Theoretical and Experimental Study of Nonlinear and Electro-Magneto-Mechanical-Based Piezoelectric Vibration Energy Harvester. Shock and Vibration, 2019, 2019, 1-17.	0.6	1
49	Adsorption of Se(IV) in aqueous solution by zeolites synthesized from fly ashes with different compositions. Journal of Water Reuse and Desalination, 2019, 9, 506-519.	2.3	12
50	MicrobiomeR: An R Package for Simplified and Standardized Microbiome Analysis Workflows. Journal of Open Source Software, 2019, 4, 1299.	4.6	6
51	Formation of Giant Lysosome in Neonatal Ileal Enterocytes Requires Endotubulin. Cellular and Molecular Gastroenterology and Hepatology, 2018, 5, 167-168.	4.5	0
52	Peroxidase-like activity of MoS ₂ nanoflakes with different modifications and their application for H ₂ O ₂ and glucose detection. Journal of Materials Chemistry B, 2018, 6, 487-498.	5.8	130
53	Intelligent MoS ₂ Nanotheranostic for Targeted and Enzyme-/pH-/NIR-Responsive Drug Delivery To Overcome Cancer Chemotherapy Resistance Guided by PET Imaging. ACS Applied Materials & Interfaces, 2018, 10, 4271-4284.	8.0	137
54	Biodegradable MoO _x nanoparticles with efficient near-infrared photothermal and photodynamic synergetic cancer therapy at the second biological window. Nanoscale, 2018, 10, 1517-1531.	5.6	144

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55	In-situ real-time characterization of micro-filaments for electrohydrodynamic ink-jet printing using machine vision. <i>Procedia Manufacturing</i> , 2018, 17, 45-52.	1.9	6
56	A Fast Feature Selection Algorithm by Accelerating Computation of Fuzzy Rough Set-Based Information Entropy. <i>Entropy</i> , 2018, 20, 788.	2.2	9
57	Bi ₂ S ₃ â€”Tween 20 Nanodots Loading PI3K Inhibitor, LY294002, for Mild Photothermal Therapy of LoVo Cells In Vitro and In Vivo. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800830.	7.6	32
58	Minimizing the total cost of barrier coverage in a linear domain. <i>Journal of Combinatorial Optimization</i> , 2018, 36, 434-457.	1.3	5
59	Functionalized MoS ₂ Nanovehicle with Near-Infrared Laser-Mediated Nitric Oxide Release and Photothermal Activities for Advanced Bacteria-Infected Wound Therapy. <i>Small</i> , 2018, 14, e1802290.	10.0	259
60	X-Ray-Controlled Generation of Peroxynitrite Based on Nanosized LiLuF ₄ :Ce ³⁺ Scintillators and their Applications for Radiosensitization. <i>Advanced Materials</i> , 2018, 30, e1804046.	21.0	138
61	Synthesis of Surface-Modification-Oriented Nanosized Molybdenum Disulfide with High Peroxidase-Like Catalytic Activity for H ₂ O ₂ and Cholesterol Detection. <i>Chemistry - A European Journal</i> , 2018, 24, 15868-15878.	3.3	33
62	Order Preserving Barrier Coverage with Weighted Sensors on a Line. <i>Lecture Notes in Computer Science</i> , 2018, , 244-255.	1.3	0
63	Risk behaviours for HIV infection among travelling Mexican migrants: The Mexico-US border as a contextual risk factor. <i>Global Public Health</i> , 2017, 12, 65-83.	2.0	14
64	Socioeconomic Status and Youth Physical Fitness: Evidence From an Upper-Middle Income Country. <i>Journal of Pediatrics</i> , 2017, 185, 14-16.	1.8	4
65	A Two-Phase Evolutionary Approach for Compressive Sensing Reconstruction. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 2651-2663.	9.5	39
66	Protein-directed synthesis of Bi ₂ S ₃ nanoparticles as an efficient contrast agent for visualizing the gastrointestinal tract. <i>RSC Advances</i> , 2017, 7, 17505-17513.	3.6	15
67	Wntless-Sec12 complex on ER membrane regulates early Wnt secretory vesicle assembly and mature ligand export. <i>Journal of Cell Science</i> , 2017, 130, 2159-2171.	2.0	19
68	Understanding the Impact of Migration on HIV Risk: An Analysis of Mexican Migrants'™ Sexual Practices, Partners, and Contexts by Migration Phase. <i>AIDS and Behavior</i> , 2017, 21, 935-948.	2.7	13
69	Fabrication of Vacuum-Sealed Capacitive Micromachined Ultrasonic Transducers With Through-Glass-Via Interconnects Using Anodic Bonding. <i>Journal of Microelectromechanical Systems</i> , 2017, 26, 226-234.	2.5	26
70	Functional tumor imaging based on inorganic nanomaterials. <i>Science China Chemistry</i> , 2017, 60, 1425-1438.	8.2	17
71	Poly(Vinylpyrrolidone)-and Selenocysteine-Modified Bi ₂ Se ₃ Nanoparticles Enhance Radiotherapy Efficacy in Tumors and Promote Radioprotection in Normal Tissues. <i>Advanced Materials</i> , 2017, 29, 1701268.	21.0	171
72	Near infrared light triggered nitric oxide releasing platform based on upconversion nanoparticles for synergistic therapy of cancer stem-like cells. <i>Science Bulletin</i> , 2017, 62, 985-996.	9.0	45

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73	The association between indoor smoke-free home rules and the use of cigar and smokeless tobacco: A longitudinal study. <i>Addictive Behaviors</i> , 2017, 74, 153-155.	3.0	4
74	Minimizing the Maximum Moving Cost of Interval Coverage. <i>International Journal of Computational Geometry and Applications</i> , 2017, 27, 187-205.	0.5	3
75	Optimization of Emergency UAV Deployment for Providing Wireless Coverage. , 2017, , .		21
76	Abstract 918: Cdc42 is crucial for intestinal stem cells survival by regulating Wnt and YAP signaling. , 2017, , .		0
77	Cervical and Breast Cancer Screening Among Mexican Migrant Women, 2013. <i>Preventing Chronic Disease</i> , 2016, 13, E104.	3.4	5
78	Mesoporous Bamboo Charcoal Nanoparticles as a New Near-Infrared Responsive Drug Carrier for Imaging-Guided Chemotherapy/Photothermal Synergistic Therapy of Tumor. <i>Advanced Healthcare Materials</i> , 2016, 5, 1627-1637.	7.6	34
79	Genome-wide patterns of copy number variation in the Chinese yak genome. <i>BMC Genomics</i> , 2016, 17, 379.	2.8	66
80	Design, fabrication, and characterization of polymer-based cantilever probes for atomic force microscopes. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, .	1.2	4
81	Problem Specific MOEA/D for Barrier Coverage with Wireless Sensors. <i>IEEE Transactions on Cybernetics</i> , 2016, 47, 1-12.	9.5	23
82	Beyond cigarette smoking: smoke-free home rules and use of alternative tobacco products. <i>Perspectives in Public Health</i> , 2016, 136, 30-33.	1.6	7
83	RAB and RHO GTPases regulate intestinal crypt cell homeostasis and enterocyte function. <i>Small GTPases</i> , 2016, 7, 59-64.	1.6	12
84	Multifunctional WS ₂ @Poly(ethylene imine) Nanoplatforms for Imaging Guided Gene-Photothermal Synergistic Therapy of Cancer. <i>Advanced Healthcare Materials</i> , 2016, 5, 2776-2787.	7.6	86
85	A MEMS T/R switch embedded in CMUT structure for ultrasound imaging frontends. , 2016, , .		4
86	2D CMUT array based ultrasonic micromanipulation platform. , 2016, , .		5
87	CMUTs on glass with ITO bottom electrodes for improved transparency. , 2016, , .		2
88	E-cigarette use among US adolescents: secondhand smoke at home matters. <i>International Journal of Public Health</i> , 2016, 61, 209-213.	2.3	15
89	Rapid Degradation and High Renal Clearance of Cu ₃ BiS ₃ Nanodots for Efficient Cancer Diagnosis and Photothermal Therapy <i>in Vivo</i> . <i>ACS Nano</i> , 2016, 10, 4587-4598.	14.6	173
90	Nd ³⁺ sensitized dumbbell-like upconversion nanoparticles for photodynamic therapy application. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2776-2784.	5.8	57

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91	One-pot synthesis of PEGylated plasmonic MoO ₃ hollow nanospheres for photoacoustic imaging guided chemo-photothermal combinational therapy of cancer. <i>Biomaterials</i> , 2016, 76, 11-24.	11.4	171
92	HIV Prevention Among Mexican Migrants at Different Migration Phases: Exposure to Prevention Messages and Association With Testing Behaviors. <i>AIDS Education and Prevention</i> , 2015, 27, 547-565.	1.1	9
93	Complexity reduction in multi-dictionary based single-image superresolution reconstruction via phase congruency. , 2015, , .		3
94	Recent Advances in Upconversion Nanoparticles-Based Multifunctional Nanocomposites for Combined Cancer Therapy. <i>Advanced Materials</i> , 2015, 27, 7692-7712.	21.0	243
95	Migrants in Transit: The Importance of Monitoring HIV Risk Among Migrant Flows at the Mexico-US Border. <i>American Journal of Public Health</i> , 2015, 105, 497-509.	2.7	36
96	Parental Practices and Attitudes Related to Smoke-Free Rules in Homes, Cars, and Outdoor Playgrounds in US Households With Underage Children and Smokers, 2010-2011. <i>Preventing Chronic Disease</i> , 2015, 12, E96.	3.4	22
97	A three-mask process for fabricating vacuum-sealed capacitive micromachined ultrasonic transducers using anodic bonding. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 972-982.	3.0	68
98	Smart MoS ₂ /Fe ₃ O ₄ Nanotheranostic for Magnetically Targeted Photothermal Therapy Guided by Magnetic Resonance/Photoacoustic Imaging. <i>Theranostics</i> , 2015, 5, 931-945.	10.0	234
99	Design of high-frequency broadband CMUT arrays. , 2015, , .		3
100	Fabrication of capacitive micromachined ultrasonic transducers with through-glass-via interconnects. , 2015, , .		5
101	Seasonal influenza vaccination among Mexican migrants traveling through the Mexico-US border region. <i>Preventive Medicine</i> , 2015, 71, 57-60.	3.4	11
102	Silica-coated bismuth sulfide nanorods as multimodal contrast agents for a non-invasive visualization of the gastrointestinal tract. <i>Nanoscale</i> , 2015, 7, 12581-12591.	5.6	60
103	Substance Use Across Different Phases of the Migration Process: A Survey of Mexican Migrants Flows. <i>Journal of Immigrant and Minority Health</i> , 2015, 17, 1746-1757.	1.6	23
104	Controllable Generation of Nitric Oxide by Near-Infrared-Sensitized Upconversion Nanoparticles for Tumor Therapy. <i>Advanced Functional Materials</i> , 2015, 25, 3049-3056.	14.9	194
105	Comparative transcriptomic analysis revealed adaptation mechanism of <i>Phrynocephalus erythrurus</i> , the highest altitude Lizard living in the Qinghai-Tibet Plateau. <i>BMC Evolutionary Biology</i> , 2015, 15, 101.	3.2	50
106	TPGS-stabilized NaYbF ₄ :Er upconversion nanoparticles for dual-modal fluorescent/CT imaging and anticancer drug delivery to overcome multi-drug resistance. <i>Biomaterials</i> , 2015, 40, 107-116.	11.4	172
107	Multi-objective Optimization of Barrier Coverage with Wireless Sensors. <i>Lecture Notes in Computer Science</i> , 2015, , 557-572.	1.3	7
108	Minimizing the Maximum Moving Cost of Interval Coverage. <i>Lecture Notes in Computer Science</i> , 2015, , 188-198.	1.3	6

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109	Identifying Opportunities to Increase HIV Testing among Mexican Migrants: A Call to Step Up Efforts in Health Care and Detention Settings. <i>PLoS ONE</i> , 2015, 10, e0123631.	2.5	7
110	CDC42 Inhibition Suppresses Progression of Incipient Intestinal Tumors. <i>Cancer Research</i> , 2014, 74, 5480-5492.	0.9	48
111	Multifunctional RbWO_3 Nanorods for Simultaneous Combined Chemo-photothermal Therapy and Photoacoustic/CT Imaging. <i>Small</i> , 2014, 10, 4160-4170.	10.0	86
112	Fabrication of anodically bonded capacitive micromachined ultrasonic transducers with vacuum-sealed cavities. , 2014, , .		5
113	396 Colorectal Cancer Cells Exploit the Pleiotropic Functions of Cell Division Cycle 42 for Immediate PRO-Survival Niche Construction. <i>Gastroenterology</i> , 2014, 146, S-85.	1.3	0
114	Engineered design of theranostic upconversion nanoparticles for tri-modal upconversion luminescence/magnetic resonance/X-ray computed tomography imaging and targeted delivery of combined anticancer drugs. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1379.	5.8	75
115	Hierarchical fuzzy rule-based system optimized with genetic algorithms for short term traffic congestion prediction. <i>Transportation Research Part C: Emerging Technologies</i> , 2014, 43, 127-142.	7.6	97
116	A simple and efficient synthetic route for preparation of NaYF_4 upconversion nanoparticles by thermo-decomposition of rare-earth oleates. <i>CrystEngComm</i> , 2014, 16, 5650-5661.	2.6	35
117	Mesoporous $\text{NaYbF}_4/\text{NaGdF}_4$ core-shell up-conversion nanoparticles for targeted drug delivery and multimodal imaging. <i>Biomaterials</i> , 2014, 35, 7666-7678.	11.4	94
118	WS_2 nanosheet as a new photosensitizer carrier for combined photodynamic and photothermal therapy of cancer cells. <i>Nanoscale</i> , 2014, 6, 10394-10403.	5.6	301
119	High-Throughput Synthesis of Single-Layer MoS_2 Nanosheets as a Near-Infrared Photothermal-Triggered Drug Delivery for Effective Cancer Therapy. <i>ACS Nano</i> , 2014, 8, 6922-6933.	14.6	813
120	One-Pot Template-Free Synthesis of NaYF_4 Upconversion Hollow Nanospheres for Bioimaging and Drug Delivery. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1655-1662.	3.3	22
121	Battling Tobacco Use at Home: An Analysis of Smoke-Free Home Rules Among US Veterans From 2001 to 2011. <i>American Journal of Public Health</i> , 2014, 104, S572-S579.	2.7	6
122	Barrier Coverage Using Sensors with Offsets. <i>Lecture Notes in Computer Science</i> , 2014, , 389-400.	1.3	3
123	A new near infrared photosensitizing nanoplatform containing blue-emitting up-conversion nanoparticles and hypocrellin A for photodynamic therapy of cancer cells. <i>Nanoscale</i> , 2013, 5, 11910.	5.6	85
124	A multi-crossover and adaptive island based population algorithm for solving routing problems. <i>Journal of Zhejiang University: Science C</i> , 2013, 14, 815-821.	0.7	19
125	Educational Disparities in Home Smoking Bans Among Households With Underage Children in the United States: Can Tobacco Control Policies Help to Narrow the Gap?. <i>Nicotine and Tobacco Research</i> , 2013, 15, 1978-1987.	2.6	17
126	Prevalence and Correlates of Breast and Cervical Cancer Screening Among a Midwest Community Sample of Low-Acculturated Latinas. <i>Journal of Health Care for the Poor and Underserved</i> , 2013, 24, 1717-1738.	0.8	26

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127	"How Is Smoking Handled in Your Home?": Agreement Between Parental Reports on Home Smoking Bans in the United States, 1995-2007. <i>Nicotine and Tobacco Research</i> , 2012, 14, 1170-1179.	2.6	8
128	Resistive switching characteristics of Ni/HfO ₂ /Pt ReRAM. <i>Journal of Semiconductors</i> , 2012, 33, 054011.	3.7	4
129	Trends in home smoking bans in the USA, 1995–2007: prevalence, discrepancies and disparities. <i>Tobacco Control</i> , 2012, 21, 330-336.	3.2	78
130	Investigating international students' attitudes toward local teachers' L1 use and learning practices in English-medium instruction in Germany: a Chinese case study. <i>Journal of Multilingual and Multicultural Development</i> , 0, , 1-15.	1.7	0
131	Local teachers' English-German codeswitching in English-medium instruction (EMI): voices from international students at a German university. <i>Journal of Multilingual and Multicultural Development</i> , 0, , 1-17.	1.7	4