Xiao Zhang

List of Publications by Year in descending order

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		66343	60623
131	7,034	42	81
papers	citations	h-index	g-index
132	132	132	9230
all docs	docs citations	times ranked	citing authors

XIAO ZHANC

#	Article	IF	CITATIONS
1	High-Throughput Synthesis of Single-Layer MoS ₂ Nanosheets as a Near-Infrared Photothermal-Triggered Drug Delivery for Effective Cancer Therapy. ACS Nano, 2014, 8, 6922-6933.	14.6	813
2	WS ₂ nanosheet as a new photosensitizer carrier for combined photodynamic and photothermal therapy of cancer cells. Nanoscale, 2014, 6, 10394-10403.	5.6	301
3	Functionalized MoS ₂ Nanovehicle with Nearâ€Infrared Laserâ€Mediated Nitric Oxide Release and Photothermal Activities for Advanced Bacteriaâ€Infected Wound Therapy. Small, 2018, 14, e1802290.	10.0	259
4	Recent Advances in Upconversion Nanoparticlesâ€Based Multifunctional Nanocomposites for Combined Cancer Therapy. Advanced Materials, 2015, 27, 7692-7712.	21.0	243
5	Smart MoS ₂ /Fe ₃ O ₄ Nanotheranostic for Magnetically Targeted Photothermal Therapy Guided by Magnetic Resonance/Photoacoustic Imaging. Theranostics, 2015, 5, 931-945.	10.0	234
6	An Allâ€Organic Semiconductor C ₃ N ₄ /PDINH Heterostructure with Advanced Antibacterial Photocatalytic Therapy Activity. Advanced Materials, 2019, 31, e1901965.	21.0	215
7	Defectâ€Rich Adhesive Molybdenum Disulfide/rGO Vertical Heterostructures with Enhanced Nanozyme Activity for Smart Bacterial Killing Application. Advanced Materials, 2020, 32, e2005423.	21.0	207
8	Controllable Generation of Nitric Oxide by Nearâ€Infraredâ€6ensitized Upconversion Nanoparticles for Tumor Therapy. Advanced Functional Materials, 2015, 25, 3049-3056.	14.9	194
9	Rapid Degradation and High Renal Clearance of Cu ₃ BiS ₃ Nanodots for Efficient Cancer Diagnosis and Photothermal Therapy <i>in Vivo</i> . ACS Nano, 2016, 10, 4587-4598.	14.6	173
10	TPGS-stabilized NaYbF4:Er upconversion nanoparticles for dual-modal fluorescent/CT imaging and anticancer drug delivery to overcome multi-drug resistance. Biomaterials, 2015, 40, 107-116.	11.4	172
11	One-pot synthesis of PEGylated plasmonic MoO3–x hollow nanospheres for photoacoustic imaging guided chemo-photothermal combinational therapy of cancer. Biomaterials, 2016, 76, 11-24.	11.4	171
12	Poly(Vinylpyrollidone)―and Selenocysteineâ€Modified Bi ₂ Se ₃ Nanoparticles Enhance Radiotherapy Efficacy in Tumors and Promote Radioprotection in Normal Tissues. Advanced Materials, 2017, 29, 1701268.	21.0	171
13	Efficient Near Infrared Light Triggered Nitric Oxide Release Nanocomposites for Sensitizing Mild Photothermal Therapy. Advanced Science, 2019, 6, 1801122.	11.2	169
14	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
15	Xâ€Rayâ€Controlled Generation of Peroxynitrite Based on Nanosized LiLuF ₄ :Ce ³⁺ Scintillators and their Applications for Radiosensitization. Advanced Materials, 2018, 30, e1804046.	21.0	138
16	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
17	Fast Deployment of UAV Networks for Optimal Wireless Coverage. IEEE Transactions on Mobile Computing, 2019, 18, 588-601.	5.8	136
18	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

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19	Endocytosis of commensal antigens by intestinal epithelial cells regulates mucosal T cell homeostasis. Science, 2019, 363, .	12.6	121
20	Laser ablation of polymers: a review. Polymer International, 2019, 68, 1391-1401.	3.1	114
21	Diet Diurnally Regulates Small Intestinal Microbiome-Epithelial-Immune Homeostasis and Enteritis. Cell, 2020, 182, 1441-1459.e21.	28.9	101
22	Hierarchical fuzzy rule-based system optimized with genetic algorithms for short term traffic congestion prediction. Transportation Research Part C: Emerging Technologies, 2014, 43, 127-142.	7.6	97
23	Mesoporous NaYbF4@NaGdF4 core-shell up-conversion nanoparticles for targeted drug delivery and multimodal imaging. Biomaterials, 2014, 35, 7666-7678.	11.4	94
24	Stimuli-Responsive Small-on-Large Nanoradiosensitizer for Enhanced Tumor Penetration and Radiotherapy Sensitization. ACS Nano, 2020, 14, 10001-10017.	14.6	93
25	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
26	Multifunctional Rb <i>_x</i> WO ₃ Nanorods for Simultaneous Combined Chemoâ€photothermal Therapy and Photoacoustic/CT Imaging. Small, 2014, 10, 4160-4170.	10.0	86
27	Multifunctional WS ₂ @Poly(ethylene imine) Nanoplatforms for Imaging Guided Geneâ€Photothermal Synergistic Therapy of Cancer. Advanced Healthcare Materials, 2016, 5, 2776-2787.	7.6	86
28	A new near infrared photosensitizing nanoplatform containing blue-emitting up-conversion nanoparticles and hypocrellin A for photodynamic therapy of cancer cells. Nanoscale, 2013, 5, 11910.	5.6	85
29	Active Incremental Feature Selection Using a Fuzzy-Rough-Set-Based Information Entropy. IEEE Transactions on Fuzzy Systems, 2020, 28, 901-915.	9.8	85
30	A problem-specific non-dominated sorting genetic algorithm for supervised feature selection. Information Sciences, 2021, 547, 841-859.	6.9	80
31	Trends in home smoking bans in the USA, 1995–2007: prevalence, discrepancies and disparities. Tobacco Control, 2012, 21, 330-336.	3.2	78
32	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. Journal of Materials Chemistry B, 2014, 2, 1379.	5.8	75
33	A three-mask process for fabricating vacuum-sealed capacitive micromachined ultrasonic transducers using anodic bonding. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 972-982.	3.0	68
34	Genome-wide patterns of copy number variation in the Chinese yak genome. BMC Genomics, 2016, 17, 379.	2.8	66
35	Full Solar‧pectrumâ€Driven Antibacterial Therapy over Hierarchical Sn ₃ O ₄ /PDINH with Enhanced Photocatalytic Activity. Small, 2021, 17, e2102744.	10.0	64
36	Silica-coated bismuth sulfide nanorods as multimodal contrast agents for a non-invasive visualization of the gastrointestinal tract. Nanoscale, 2015, 7, 12581-12591.	5.6	60

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37	Graphdiyne nanoradioprotector with efficient free radical scavenging ability for mitigating radiation-induced gastrointestinal tract damage. Biomaterials, 2020, 244, 119940.	11.4	58
38	Nd ³⁺ sensitized dumbbell-like upconversion nanoparticles for photodynamic therapy application. Journal of Materials Chemistry B, 2016, 4, 2776-2784.	5.8	57
39	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
40	Comparative transcriptomic analysis revealed adaptation mechanism of Phrynocephalus erythrurus, the highest altitude Lizard living in the Qinghai-Tibet Plateau. BMC Evolutionary Biology, 2015, 15, 101.	3.2	50
41	CDC42 Inhibition Suppresses Progression of Incipient Intestinal Tumors. Cancer Research, 2014, 74, 5480-5492.	0.9	48
42	Translocation, biotransformation-related degradation, and toxicity assessment of polyvinylpyrrolidone-modified 2H-phase nano-MoS ₂ . Nanoscale, 2019, 11, 4767-4780.	5.6	47
43	Near infrared light triggered nitric oxide releasing platform based on upconversion nanoparticles for synergistic therapy of cancer stem-like cells. Science Bulletin, 2017, 62, 985-996.	9.0	45
44	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
45	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
46	Energy-Saving Deployment Algorithms of UAV Swarm for Sustainable Wireless Coverage. IEEE Transactions on Vehicular Technology, 2020, 69, 10320-10335.	6.3	40
47	A Two-Phase Evolutionary Approach for Compressive Sensing Reconstruction. IEEE Transactions on Cybernetics, 2017, 47, 2651-2663.	9.5	39
48	Migrants in Transit: The Importance of Monitoring HIV Risk Among Migrant Flows at the Mexico–US Border. American Journal of Public Health, 2015, 105, 497-509.	2.7	36
49	A simple and efficient synthetic route for preparation of NaYF ₄ upconversion nanoparticles by thermo-decomposition of rare-earth oleates. CrystEngComm, 2014, 16, 5650-5661.	2.6	35
50	Mesoporous Bamboo Charcoal Nanoparticles as a New Nearâ€Infrared Responsive Drug Carrier for Imagingâ€Guided Chemotherapy/Photothermal Synergistic Therapy of Tumor. Advanced Healthcare Materials, 2016, 5, 1627-1637.	7.6	34
51	Synthesis of Surfaceâ€Modificationâ€Oriented Nanosized Molybdenum Disulfide with High Peroxidaseâ€Like Catalytic Activity for H ₂ O ₂ and Cholesterol Detection. Chemistry - A European Journal, 2018, 24, 15868-15878.	3.3	33
52	Bi ₂ S ₃ –Tween 20 Nanodots Loading PI3K Inhibitor, LY294002, for Mild Photothermal Therapy of LoVo Cells In Vitro and In Vivo. Advanced Healthcare Materials, 2018, 7, e1800830.	7.6	32
53	Liquidâ€Phase Exfoliation and Functionalization of MoS ₂ Nanosheets for Effective Antibacterial Application. ChemBioChem, 2020, 21, 2373-2380.	2.6	31
54	3D printing and characterization of hydroxypropyl methylcellulose and methylcellulose for biodegradable support structures. Polymer, 2019, 173, 119-126.	3.8	29

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55	Prevalence and Correlates of Breast and Cervical Cancer Screening Among a Midwest Community Sample of Low-Acculturated Latinas. Journal of Health Care for the Poor and Underserved, 2013, 24, 1717-1738.	0.8	26
56	Fabrication of Vacuum-Sealed Capacitive Micromachined Ultrasonic Transducers With Through-Glass-Via Interconnects Using Anodic Bonding. Journal of Microelectromechanical Systems, 2017, 26, 226-234.	2.5	26
57	Recycling Endosomes in Mature Epithelia Restrain Tumorigenic Signaling. Cancer Research, 2019, 79, 4099-4112.	0.9	26
58	Rapid parallel adaptation despite gene flow in silent crickets. Nature Communications, 2021, 12, 50.	12.8	26
59	Elevation and total nitrogen are the critical factors that control the spatial distribution of soil organic carbon content in the shrubland on the Bashang Plateau, China. Catena, 2021, 204, 105415.	5.0	25
60	Substance Use Across Different Phases of the Migration Process: A Survey of Mexican Migrants Flows. Journal of Immigrant and Minority Health, 2015, 17, 1746-1757.	1.6	23
61	Problem Specific MOEA/D for Barrier Coverage with Wireless Sensors. IEEE Transactions on Cybernetics, 2016, 47, 1-12.	9.5	23
62	Oneâ€Pot Templateâ€Free Synthesis of NaYF ₄ Upconversion Hollow Nanospheres for Bioimaging and Drug Delivery. Chemistry - an Asian Journal, 2014, 9, 1655-1662.	3.3	22
63	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. Preventing Chronic Disease, 2015, 12, E96.	3.4	22
64	Optimization of Emergency UAV Deployment for Providing Wireless Coverage. , 2017, , .		21
65	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
66	A multi-crossover and adaptive island based population algorithm for solving routing problems. Journal of Zhejiang University: Science C, 2013, 14, 815-821.	0.7	19
67	Wntless-Sec12 complex on ER membrane regulates early Wnt secretory vesicle assembly and mature ligand export. Journal of Cell Science, 2017, 130, 2159-2171.	2.0	19
68	Elevating EGFR-MAPK program by a nonconventional Cdc42 enhances intestinal epithelial survival and regeneration. JCI Insight, 2020, 5, .	5.0	18
69	Tumorâ€Tropic Adiposeâ€Derived Mesenchymal Stromal Cell Mediated Bi ₂ Se ₃ Nanoâ€Radiosensitizers Delivery for Targeted Radiotherapy of Nonâ€Small Cell Lung Cancer. Advanced Healthcare Materials, 2022, 11, e2200143.	7.6	18
70	Educational Disparities in Home Smoking Bans Among Households With Underage Children in the United States: Can Tobacco Control Policies Help to Narrow the Gap?. Nicotine and Tobacco Research, 2013, 15, 1978-1987.	2.6	17
71	Functional tumor imaging based on inorganic nanomaterials. Science China Chemistry, 2017, 60, 1425-1438.	8.2	17
72	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

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73	E-cigarette use among US adolescents: secondhand smoke at home matters. International Journal of Public Health, 2016, 61, 209-213.	2.3	15
74	Protein-directed synthesis of Bi ₂ S ₃ nanoparticles as an efficient contrast agent for visualizing the gastrointestinal tract. RSC Advances, 2017, 7, 17505-17513.	3.6	15
75	A staged adaptive firefly algorithm for UAV charging planning in wireless sensor networks. Computer Communications, 2020, 161, 132-141.	5.1	15
76	Risk behaviours for HIV infection among travelling Mexican migrants: The Mexico–US border as a contextual risk factor. Global Public Health, 2017, 12, 65-83.	2.0	14
77	Understanding the Impact of Migration on HIV Risk: An Analysis of Mexican Migrants' Sexual Practices, Partners, and Contexts by Migration Phase. AIDS and Behavior, 2017, 21, 935-948.	2.7	13
78	RAB and RHO GTPases regulate intestinal crypt cell homeostasis and enterocyte function. Small GTPases, 2016, 7, 59-64.	1.6	12
79	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
80	PKCλ/ι inhibition activates an ULK2-mediated interferon response to repress tumorigenesis. Molecular Cell, 2021, 81, 4509-4526.e10.	9.7	12
81	Incremental feature selection by sample selection and feature-based accelerator. Applied Soft Computing Journal, 2022, 121, 108800.	7.2	12
82	Seasonal influenza vaccination among Mexican migrants traveling through the Mexico–US border region. Preventive Medicine, 2015, 71, 57-60.	3.4	11
83	HIV Prevention Among Mexican Migrants at Different Migration Phases: Exposure to Prevention Messages and Association With Testing Behaviors. AIDS Education and Prevention, 2015, 27, 547-565.	1.1	9
84	A Fast Feature Selection Algorithm by Accelerating Computation of Fuzzy Rough Set-Based Information Entropy. Entropy, 2018, 20, 788.	2.2	9
85	Multi-UAV Cooperative Trajectory for Servicing Dynamic Demands and Charging Battery. IEEE Transactions on Mobile Computing, 2021, , 1-1.	5.8	9
86	"How Is Smoking Handled in Your Home?": Agreement Between Parental Reports on Home Smoking Bans in the United States, 1995-2007. Nicotine and Tobacco Research, 2012, 14, 1170-1179.	2.6	8
87	Selenium in wastewater can be adsorbed by modified natural zeolite and reused in vegetable growth. Science Progress, 2021, 104, 003685042110198.	1.9	8
88	An IoT-Based Motion Tracking System for Next-Generation Foot-Related Sports Training and Talent Selection. Journal of Healthcare Engineering, 2021, 2021, 1-14.	1.9	8
89	Beyond cigarette smoking: smoke-free home rules and use of alternative tobacco products. Perspectives in Public Health, 2016, 136, 30-33.	1.6	7
90	Multi-objective Optimization of Barrier Coverage with Wireless Sensors. Lecture Notes in Computer Science, 2015, , 557-572.	1.3	7

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91	Identifying Opportunities to Increase HIV Testing among Mexican Migrants: A Call to Step Up Efforts in Health Care and Detention Settings. PLoS ONE, 2015, 10, e0123631.	2.5	7
92	Battling Tobacco Use at Home: An Analysis of Smoke-Free Home Rules Among US Veterans From 2001 to 2011. American Journal of Public Health, 2014, 104, S572-S579.	2.7	6
93	In-situ real-time characterization of micro-filaments for electrohydrodynamic ink-jet printing using machine vision. Procedia Manufacturing, 2018, 17, 45-52.	1.9	6
94	Similarity evaluation of 3D surface topography measurements. Measurement Science and Technology, 2021, 32, 125003.	2.6	6
95	Minimizing the Maximum Moving Cost of Interval Coverage. Lecture Notes in Computer Science, 2015, , 188-198.	1.3	6
96	MicrobiomeR: An R Package for Simplified and Standardized Microbiome Analysis Workflows. Journal of Open Source Software, 2019, 4, 1299.	4.6	6
97	Unmet needs and problems related to employment and working as reported by survivors with metastatic breast cancer. Supportive Care in Cancer, 2022, 30, 4291-4301.	2.2	6
98	Fabrication of anodically bonded capacitive micromachined ultrasonic transducers with vacuum-sealed cavities. , 2014, , .		5
99	Fabrication of capacitive micromachined ultrasonic transducers with through-glass-via interconnects. , 2015, , .		5
100	Cervical and Breast Cancer Screening Among Mexican Migrant Women, 2013. Preventing Chronic Disease, 2016, 13, E104.	3.4	5
101	2D CMUT array based ultrasonic micromanipulation platform. , 2016, , .		5
102	Minimizing the total cost of barrier coverage in a linear domain. Journal of Combinatorial Optimization, 2018, 36, 434-457.	1.3	5
103	Cooperative coevolutionary multiobjective genetic programming for microarray data classification. , 2021, , .		5
104	Practices and Attitudes Regarding Pediatric Cholesterol Screening Recommendations Differ Between Pediatricians and Family Medicine Clinicians. Pediatric Cardiology, 2022, 43, 631-635.	1.3	5
105	Resistive switching characteristics of Ni/HfO ₂ /Pt ReRAM. Journal of Semiconductors, 2012, 33, 054011.	3.7	4
106	Design, fabrication, and characterization of polymer-based cantilever probes for atomic force microscopes. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	1.2	4
107	A MEMS T/R switch embedded in CMUT structure for ultrasound imaging frontends. , 2016, , .		4
108	Socioeconomic Status and Youth Physical Fitness: Evidence From an Upper-Middle Income Country. Journal of Pediatrics, 2017, 185, 14-16.	1.8	4

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109	The association between indoor smoke-free home rules and the use of cigar and smokeless tobacco: A longitudinal study. Addictive Behaviors, 2017, 74, 153-155.	3.0	4
110	Optimal Patrolling Trajectory Design for Multi-UAV Wireless Servicing and Battery Swapping. , 2019, , .		4
111	A Hybrid Genetic Algorithm for Sustainable Wireless Coverage of Drone Networks. , 2020, , .		4
112	A cross-national analysis of cultural representations in English textbooks used in China and Germany. SN Social Sciences, 2021, 1, 1.	0.7	4
113	Investigating Student Teachers' Perceptions of English as a Lingua Franca and Its Teaching in Mainland China. Asian Englishes, 2022, 24, 247-262.	1.0	4
114	Local teachers' English-German codeswitching in English-medium instruction (EMI): voices from international students at a German university. Journal of Multilingual and Multicultural Development, 0, , 1-17.	1.7	4
115	Complexity reduction in multi-dictionary based single-image superresolution reconstruction via pahse congtuency. , 2015, , .		3
116	Design of high-frequency broadband CMUT arrays. , 2015, , .		3
117	Minimizing the Maximum Moving Cost of Interval Coverage. International Journal of Computational Geometry and Applications, 2017, 27, 187-205.	0.5	3
118	A Cooperative Coevolutionary Approach to Discretization-Based Feature Selection for High-Dimensional Data. Entropy, 2020, 22, 613.	2.2	3
119	MOEA/D based UAV swarm deployment for wireless coverage. , 2021, , .		3
120	New Multifeature Information Health Index (MIHI) Based on a Quasi-Orthogonal Sparse Algorithm for Bearing Degradation Monitoring. Computational Intelligence and Neuroscience, 2021, 2021, 1-14.	1.7	3
121	Barrier Coverage Using Sensors with Offsets. Lecture Notes in Computer Science, 2014, , 389-400.	1.3	3
122	Cooperative Path Planning of a UAV Swarm to Meet Temporal-Spatial User Demands. , 2020, , .		3
123	CMUTs on glass with ITO bottom electrodes for improved transparency. , 2016, , .		2
124	Consistent dynamic map labeling with fairness and importance. Computer Aided Geometric Design, 2020, 81, 101892.	1.2	2
125	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
126	396 Colorectal Cancer Cells Exploit the Pleiotropic Functions of Cell Division Cycle 42 for Immediate PRO-Survival Niche Construction. Gastroenterology, 2014, 146, S-85.	1.3	0

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127	Formation of Giant Lysosome in Neonatal Ileal Enterocytes Requires Endotubin. Cellular and Molecular Gastroenterology and Hepatology, 2018, 5, 167-168.	4.5	0
128	Investigating Social Justice Topics in Reading Texts of English Textbooks Used in China and Germany. Journal of Language Teaching and Research, 2021, 12, 34.	0.3	0
129	Investigating international students' attitudes toward local teachers' L1 use and learning practices in English-medium instruction in Germany: a Chinese case study. Journal of Multilingual and Multicultural Development, 0, , 1-15.	1.7	0
130	Abstract 918: Cdc42 is crucial for intestinal stem cells survival by regulating Wnt and YAP signaling. , 2017, , .		0
131	Order Preserving Barrier Coverage with Weighted Sensors on a Line. Lecture Notes in Computer Science, 2018, , 244-255.	1.3	0