Xiaoming Wang

List of Publications by Year
in descending order

84 papers	2,296 citations	257450 24 h-index	233421 45 g-index
84 all docs	84 docs citations	84 times ranked	2123 citing authors

#	Article	IF	Citations
1	Cost-Efficient Strategies for Restraining Rumor Spreading in Mobile Social Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 2789-2800.	6.3	232
2	Dynamics of microbial community in a mesophilic anaerobic digester treating food waste: Relationship between community structure and process stability. Bioresource Technology, 2015, 189, 113-120.	9.6	185
3	Anaerobic digestion of food waste: A review focusing on process stability. Bioresource Technology, 2018, 248, 20-28.	9.6	165
4	Approximate aggregation for tracking quantiles and range countings in wireless sensor networks. Theoretical Computer Science, 2015, 607, 381-390.	0.9	143
5	FakeMask: A Novel Privacy Preserving Approach for Smartphones. IEEE Transactions on Network and Service Management, 2016, 13, 335-348.	4.9	88
6	Ratiometric Antifouling Electrochemical Biosensors Based on Multifunctional Peptides and MXene Loaded with Au Nanoparticles and Methylene Blue. ACS Applied Materials & Interfaces, 2021, 13, 20388-20396.	8.0	86
7	A mesophilic anaerobic digester for treating food waste: process stability and microbial community analysis using pyrosequencing. Microbial Cell Factories, 2016, 15, 65.	4.0	83
8	Dual-Mode Electrochemical Assay of Prostate-Specific Antigen Based on Antifouling Peptides Functionalized with Electrochemical Probes and Internal References. Analytical Chemistry, 2019, 91, 15846-15852.	6.5	73
9	Modeling Propagation Dynamics and Developing Optimized Countermeasures for Rumor Spreading in Online Social Networks. , 2015, , .		67
10	Incentive Mechanisms for Crowdblocking Rumors in Mobile Social Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 9220-9232.	6.3	51
11	EiSIRS: a formal model to analyze the dynamics of worm propagation in wireless sensor networks. Journal of Combinatorial Optimization, 2010, 20, 47-62.	1.3	48
12	Truthful Incentive Mechanisms for Social Cost Minimization in Mobile Crowdsourcing Systems. Sensors, 2016, 16, 481.	3.8	46
13	Dynamic Control of Fraud Information Spreading in Mobile Social Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3725-3738.	9.3	44
14	Thermodynamics of volatile fatty acid degradation during anaerobic digestion under organic overload stress: The potential to better identify process stability. Water Research, 2022, 214, 118187.	11.3	44
15	Electrochemical aptasensor based on conductive supramolecular polymer hydrogels for thrombin detection with high selectivity. Talanta, 2019, 205, 120140.	5.5	42
16	The Relationship between Jurassic Coal Measures and Sandstoneâ€type Uranium Deposits in the Northeastern Ordos Basin, China. Acta Geologica Sinica, 2016, 90, 2117-2132.	1.4	38
17	Computational models and optimal control strategies for emotion contagion in the human population in emergencies. Knowledge-Based Systems, 2016, 109, 35-47.	7.1	36
18	Decomposition and carbon storage of selected paper products in laboratory-scale landfills. Science of the Total Environment, 2015, 532, 70-79.	8.0	33

#	Article	IF	Citations
19	Foaming mechanisms and control strategies during the anaerobic digestion of organic waste: A critical review. Science of the Total Environment, 2021, 779, 146531.	8.0	33
20	Spectrum-Availability Based Routing for Cognitive Sensor Networks. IEEE Access, 2017, 5, 4448-4457.	4.2	32
21	Mobility-aware routing in delay tolerant networks. Personal and Ubiquitous Computing, 2015, 19, 1111-1123.	2.8	31
22	Multi-Round Incentive Mechanism for Cold Start-Enabled Mobile Crowdsensing. IEEE Transactions on Vehicular Technology, 2021, 70, 993-1007.	6.3	31
23	A novel approach for inhibiting misinformation propagation in human mobile opportunistic networks. Peer-to-Peer Networking and Applications, 2017, 10, 377-394.	3.9	30
24	An on-demand coverage based self-deployment algorithm for big data perception in mobile sensing networks. Future Generation Computer Systems, 2018, 82, 220-234.	7.5	30
25	Efficient Coupling Diffusion of Positive and Negative Information in Online Social Networks. IEEE Transactions on Network and Service Management, 2019, 16, 1226-1239.	4.9	30
26	An Efficient Feedback Control Mechanism for Positive/Negative Information Spread in Online Social Networks. IEEE Transactions on Cybernetics, 2022, 52, 87-100.	9.5	27
27	Response of process performance and microbial community to ammonia stress in series batch experiments. Bioresource Technology, 2020, 314, 123768.	9.6	25
28	The effect of Ag@SiO$_2$ core–shell nanoparticles on the dielectric properties of PVDF based nanocomposites. Polymer Composites, 2020, 41, 2245-2253.	4.6	24
29	An integrated data filtering and identification strategy for rapid profiling of chemical constituents, with Arnebiae Radix as an example. Journal of Chromatography A, 2020, 1629, 461496.	3.7	23
30	An efficient privacy preserving data aggregation approach for mobile sensing. Security and Communication Networks, 2016, 9, 3844-3853.	1.5	21
31	A novel contact prediction–based routing scheme for DTNs. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2889.	3.9	21
32	Multi-scale analysis of the foaming mechanism in anaerobic digestion of food waste: From physicochemical parameter, microbial community to metabolite response. Water Research, 2022, 218, 118482.	11.3	21
33	Reaction-diffusion modeling of malware propagation in mobile wireless sensor networks. Science China Information Sciences, 2013, 56, 1-18.	4.3	20
34	Fuzzy random multi-objective optimization based routing for wireless sensor networks. Soft Computing, 2014, 18, 981-994.	3.6	20
35	Hydrogeochemistry signatures of produced waters associated with coalbed methane production in the Southern Junggar Basin, NW China. Environmental Science and Pollution Research, 2019, 26, 31956-31980.	5.3	20
36	Intervening Coupling Diffusion of Competitive Information in Online Social Networks. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 2548-2559.	5.7	20

#	Article	IF	Citations
37	Bioaccumulation and Translocation of 6:2 Fluorotelomer Sulfonate, GenX, and Perfluoroalkyl Acids by Urban Spontaneous Plants. ACS ES&T Engineering, 2022, 2, 1169-1178.	7.6	20
38	Characteristics of in situ stress and its influence on coalbed methane development: A case study in the eastern part of the southern Junggar Basin, NW China. Energy Science and Engineering, 2020, 8, 515-529.	4.0	19
39	Rapid screening and characterization of glucosinolates in 25 Brassicaceae tissues by UHPLC-Q-exactive orbitrap-MS. Food Chemistry, 2021, 365, 130493.	8.2	19
40	Social identity–aware opportunistic routing in mobile social networks. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3297.	3.9	17
41	An Efficient Approach to Sharing Edge Knowledge in 5G-Enabled Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2023, 19, 930-939.	11.3	16
42	Virtual Machines Scheduling in Mobile Edge Computing: A Formal Concept Analysis Approach. IEEE Transactions on Sustainable Computing, 2020, 5, 319-328.	3.1	15
43	The impact of node velocity diversity on mobile opportunistic network performance. Journal of Network and Computer Applications, 2015, 55, 47-58.	9.1	13
44	A social activity and physical contact-based routing algorithm in mobile opportunistic networks for emergency response to sudden disasters. Enterprise Information Systems, 2017, 11, 597-626.	4.7	13
45	User social activity-based routing for cognitive radio networks. Personal and Ubiquitous Computing, 2018, 22, 471-487.	2.8	13
46	Signal power random fading based interference-aware routing for wireless sensor networks. Wireless Networks, 2014, 20, 1715-1727.	3.0	11
47	Dam operation altered profiles of per- and polyfluoroalkyl substances in reservoir. Journal of Hazardous Materials, 2020, 393, 122523.	12.4	10
48	Experimental Observations of Gas-sorption-Induced Strain Gradients and their Implications on Permeability Evolution of Shale. Rock Mechanics and Rock Engineering, 2021, 54, 3927-3943.	5.4	10
49	p-Percent Coverage Schedule in Wireless Sensor Networks. , 2008, , .		9
50	Real time clustering of sensory data in wireless sensor networks. , 2009, , .		9
51	Interference-aware probabilistic routing for wireless sensor networks. Tsinghua Science and Technology, 2012, 17, 575-585.	6.1	9
52	A social–aware probabilistic routing approach for mobile opportunistic social networks. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3230.	3.9	9
53	Energy–aware congestion control scheme in opportunistic networks. IEEJ Transactions on Electrical and Electronic Engineering, 2017, 12, 412-419.	1.4	8
54	Conflict-Aware Participant Recruitment for Mobile Crowdsensing. IEEE Transactions on Computational Social Systems, 2020, 7, 192-204.	4.4	8

#	Article	IF	Citations
55	Pollution in the interflow from a simple landfill in a mountainous and hilly area in Southwest China. Science of the Total Environment, 2021, 793, 148656.	8.0	8
56	Construction of Anti-Collusion Codes Based on Cover-Free Families. , 2009, , .		7
57	Energy Efficient Forwarding Algorithm in Opportunistic Networks. Chinese Journal of Electronics, 2016, 25, 957-964.	1.5	7
58	Hidden Phase Space Reconstruction: A Novel Chaotic Time Series Prediction Method for Speech Signals. Chinese Journal of Electronics, 2018, 27, 1221-1228.	1.5	7
59	A Knowledge Diffusion Model in Autonomous Learning Under Multiple Networks for Personalized Educational Resource Allocation. IEEE Transactions on Learning Technologies, 2021, 14, 430-444.	3.2	7
60	Design and synthesis of Î²-carboline derivatives with nitrogen mustard moieties against breast cancer. Bioorganic and Medicinal Chemistry, 2021, 45, 116341.	3.0	7
61	Environmental conditions and mechanisms restricting microbial methanogenesis in the Miquan region of the southern Junggar Basin, NW China. Bulletin of the Geological Society of America, 2023, 135, 420-434.	3.3	7
62	A location-sensitive over-the-counter medicines recommender based on tensor decomposition. Journal of Supercomputing, 2019, 75, 1953-1970.	3.6	6
63	Alterations in Intestinal Antioxidant and Immune Function and Cecal Microbiota of Laying Hens Fed on Coated Sodium Butyrate Supplemented Diets. Animals, 2022, 12, 545.	2.3	6
64	A controllable multiâ€replica routing approach for opportunistic networks. IEEJ Transactions on Electrical and Electronic Engineering, 2017, 12, 589-600.	1.4	5
65	A novel energy-efficient probabilistic routing method for mobile opportunistic networks. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	2.4	5
66	Effects of interactions between macroalgae and seagrass on the distribution of macrobenthic invertebrate communities at the Yellow River Estuary, China. Marine Pollution Bulletin, 2021, 164, 112057.	5.0	5
67	A novel time-dimension and circadian rhythm-dependent strategy for pharmacodynamic evaluation of Uncaria in the regulation of neurotransmitter circadian metabolic homeostasis in spontaneously hypertensive rats. Biomedicine and Pharmacotherapy, 2020, 131, 110704.	5.6	4
68	An Efficient locationâ€aware routing approach in opportunistic networks. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 704-713.	1.4	4
69	An Edge Correlation Based Differentially Private Network Data Release Method. Security and Communication Networks, 2017, 2017, 1-14.	1.5	3
70	Adaptive Computation Offloading for Mobile Augmented Reality. , 2021, 5, 1-30.		3
71	Higher-Load Data Transmitting in Opportunistic Networks Based on Probability Analysis of Communicating Capabilities. , 2016, , .		2
72	CPC: A novel content popularity compensation algorithm for intelligent wireless router in user centric network. , 2017, , .		2

#	Article	IF	Citations
73	A Rumor Blocking Method Based on Tolerance of Users. , 2019, , .		2
74	Primary and Secondary Social Activity Aware Routing for Cognitive Radio Networks. , 2016, , .		1
75	MPLB: A Load Balance Scheme of Joint Resource Scheduling in Heterogeneous Wireless Network. , 2017, , .		1
76	An Efficient Energy-Aware Probabilistic Routing Approach for Mobile Opportunistic Networks. Lecture Notes in Computer Science, 2018, , 671-682.	1.3	1
77	A novel segmented routing algorithm based on the markov decision process in mobile opportunistic networks. IEEJ Transactions on Electrical and Electronic Engineering, 2019, 14, 605-614.	1.4	1
78	Dual Attention Network Based onÂKnowledge Graph for News Recommendation. Lecture Notes in Computer Science, 2021, , 364-375.	1.3	1
79	FUZZY RANDOM EXPECTED VALUE MODEL BASED MULTI-OBJECTIVE OPTIMIZATION ROUTING FOR WIRELESS SENSOR NETWORKS. , 2012, , .		1
80	High-Quality Learning Resource Dissemination Based on Opportunistic Networks in Campus Collaborative Learning Context. Communications in Computer and Information Science, 2019, , 236-248.	0.5	1
81	Carbon nanospheres derived from sunflower seed husk composited with anatase TiO2 used as anode for lithium-ion battery. Ionics, 2022, 28, 1635-1646.	2.4	1
82	CMPR: COST-AWARE MULTIPATH ROUTING ALGORITHM FOR MOBILE WIRELESS SENSOR NETWORKS. , 2012, , .		0
83	Research on Algorithms for Finding Top-K Nodes in Campus Collaborative Learning Community Under Mobile Social Network. Lecture Notes in Computer Science, 2020, , 30-38.	1.3	0
84	Dual Attention-based Interest Network for Personalized Recommendation System. , 2021, , .		0