Jun Wu

List of Publications by Year
in descending order

88 papers	1,168 citations	394286 19 h-index	454834 30 g-index
89 all docs	89 docs citations	89 times ranked	1306 citing authors

#	Article	IF	Citations
1	A hierarchical mesh film with superhydrophobic and superoleophilic properties for oil and water separation. Journal of Chemical Technology and Biotechnology, 2012, 87, 427-430.	1.6	82
2	Ionic occupation, structures, and microwave dielectric properties of Y₃MgAl₃SiO₁₂ garnetâ€type ceramics. Journal of the American Ceramic Society, 2018, 101, 244-251.	1.9	61
3	Solution-Processed Halide Perovskite Single Crystals with Intrinsic Compositional Gradients for X-ray Detection. Chemistry of Materials, 2020, 32, 4973-4983.	3.2	59
4	Fabrication of superhydrophobic surfaces with double-scale roughness. Materials Letters, 2010, 64, 1251-1253.	1.3	52
5	Interfacial Energy-Level Alignment for High-Performance All-Inorganic Perovskite CsPbBr₃ Quantum Dot-Based Inverted Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 13236-13243.	4.0	44
6	Innovation Strategy Selection Facilitates High-Performance Flexible Piezoelectric Sensors. Sensors, 2020, 20, 2820.	2.1	38
7	A one-step method to fabricate lotus leaves-like ZnO film. Materials Letters, 2011, 65, 477-479.	1.3	37
8	Machine-learned, waterproof MXene fiber-based glove platform for underwater interactivities. Nano Energy, 2022, 91, 106650.	8.2	37
9	Generalized Byzantine Attack and Defense in Cooperative Spectrum Sensing for Cognitive Radio Networks. IEEE Access, 2018, 6, 53272-53286.	2.6	32
10	Sequential 0/1 for Cooperative Spectrum Sensing in the Presence of Strategic Byzantine Attack. IEEE Wireless Communications Letters, 2019, 8, 500-503.	3.2	30
11	Advanced understanding of stickiness on superhydrophobic surfaces. Scientific Reports, 2013, 3, 3268.	1.6	29
12	Ultrafast Ionizing Radiation Detection by pâ€“n Junctions Made with Single Crystals of Solutionâ€Processed Perovskite. Advanced Electronic Materials, 2018, 4, 1800237.	2.6	29
13	Scaled diffraction calculation between tilted planes using nonuniform fast Fourier transform. Optics Express, 2014, 22, 17331.	1.7	28
14	Simple calculation of a computer-generated hologram for lensless holographic 3D projection using a nonuniform sampled wavefront recording plane. Applied Optics, 2016, 55, 7988.	2.1	28
15	Waterproof Mechanically Robust Multifunctional Conformal Sensors for Underwater Interactive Humanâ€“Machine Interfaces. Advanced Intelligent Systems, 2021, 3, 2100056.	3.3	27
16	Analysis of Byzantine Attack Strategy for Cooperative Spectrum Sensing. IEEE Communications Letters, 2020, 24, 1631-1635.	2.5	26
17	Superhydrophobic Surface Based on a Coral-Like Hierarchical Structure of ZnO. PLoS ONE, 2010, 5, e14475.	1.1	24
18	A simple method to fabricate the different extents of superhydrophobic surfaces. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1325-1328.	1.3	23

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19	Sequential cooperative spectrum sensing in the presence of dynamic Byzantine attack for mobile networks. PLoS ONE, 2018, 13, e0199546.	1.1	23
20	A Brief Review on Bioinspired ZnO Superhydrophobic Surfaces: Theory, Synthesis, and Applications. Advances in Materials Science and Engineering, 2013, 2013, 1-10.	1.0	22
21	Electrowetting on ZnO nanowires. Applied Physics A: Materials Science and Processing, 2010, 99, 931-934.	1.1	19
22	Energy-Efficient Cooperative Spectrum Sensing With Reporting Errors in Hybrid Spectrum Sharing CRNs. IEEE Access, 2018, 6, 48391-48402.	2.6	19
23	Cost-Benefit Tradeoff of Byzantine Attack in Cooperative Spectrum Sensing. IEEE Systems Journal, 2020, 14, 2532-2543.	2.9	18
24	Conductive Porous MXene for Bionic, Wearable, and Precise Gesture Motion Sensors. Research, 2021, 2021, 9861467.	2.8	18
25	Cooperative Spectrum Sensing Algorithm Based on Support Vector Machine against SSDF Attack. , 2018, , .		17
26	Hybrid Computational Near-Eye Light Field Display. IEEE Photonics Journal, 2019, 11, 1-10.	1.0	17
27	Performance optimisation of cooperative spectrum sensing in mobile cognitive radio networks. IET Communications, 2020, 14, 1028-1036.	1.5	17
28	Low-noise X-ray PIN photodiodes made of perovskite single crystals by solution-processed dopant incorporated epitaxial growth. Nano Energy, 2021, 89, 106311.	8.2	17
29	Selfâ€Powered and Interfaceâ€Independent Tactile Sensors Based on Bilayer Singleâ€Electrode Triboelectric Nanogenerators for Robotic Electronic Skin. Advanced Intelligent Systems, 2023, 5, 2100120.	3.3	17
30	Optimisation of virtual cooperative spectrum sensing for UAVâ€based interweave cognitive radio system. IET Communications, 2021, 15, 1368-1379.	1.5	14
31	Noncooperative Spectrum Sensing with Historical Sensing Data Mining in Cognitive Radio. IEEE Transactions on Vehicular Technology, 2017, 66, 8863-8871.	3.9	13
32	Generation of the smallest coffee-ring structures by solute crystallization reaction on a hydrophobic surface. RSC Advances, 2013, 3, 5328.	1.7	11
33	Switchable Photonic Nanojet by Electro-Switching Nematic Liquid Crystals. Nanomaterials, 2019, 9, 72.	1.9	11
34	Super-Resolution Imaging with Direct Laser Writing-Printed Microstructures. Journal of Physical Chemistry A, 2020, 124, 7211-7216.	1.1	10
35	Photodiodes based on a MAPbBr₃/Bi³⁺-doped MAPbCl₃single crystals heterojunction for the X-ray detection. CrystEngComm, 2021, 23, 4954-4962.	1.3	10
36	Energy-efficient cooperative spectrum sensing for hybrid spectrum sharing cognitive radio networks. , 2018, , .		9

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37	Sequential fusion to defend against sensing data falsification attack for cognitive Internet of Things. ETRI Journal, 2020, 42, 976-986.	1.2	9
38	Reuse of Byzantine data in cooperative spectrum sensing using sequential detection. IET Communications, 2020, 14, 251-261.	1.5	9
39	Pinning mechanism of advancing sessile droplet on superhydrophobic surfaces. RSC Advances, 2014, 4, 35649-35652.	1.7	8
40	Influence of interfacial wetting ability on hole injection efficiency of PEDOT: PSS for solution processed normal quantum-dot light-emitting diodes. Organic Electronics, 2018, 58, 191-196.	1.4	8
41	Electrowetting on a dielectric surface roughened with zinc oxide tetrapod nanocrystals. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 43, 81-84.	1.3	7
42	Formation of hierarchical ZnO nanostructure on tinfoil substrate and the application on wetting repellency. Applied Physics A: Materials Science and Processing, 2011, 105, 221-224.	1.1	7
43	Numerical study for the calculation of computer-generated hologram in color holographic 3D projection enabled by modified wavefront recording plane method. Optics Communications, 2017, 387, 267-274.	1.0	7
44	A novel Y3ZnAl3SiO12 microwave dielectric ceramic for microwave communication application as substrates. Journal of Materials Science: Materials in Electronics, 2017, 28, 16627-16632.	1.1	7
45	Multi-Leaderâ€“Follower Game for MEC-Assisted Fusion-Based Vehicle On-Road Analysis. IEEE Transactions on Vehicular Technology, 2019, 68, 11200-11212.	3.9	7
46	Fabrication of Photodiodes Based on Solution-Processed Perovskite Single Crystals. IEEE Transactions on Electron Devices, 2019, 66, 485-490.	1.6	7
47	Engineering the Morphology and Component via Multistep Deposition of CsPbBr₃Films toward High Detectivity and Stable Selfâ€Powered Photodetectors. Advanced Materials Interfaces, 2022, 9, .	1.9	7
48	Reputation Value Ranking Based Sequential Cooperative Spectrum Sensing against Byzantine Attack. , 2018, , .		6
49	Robust reputation management mechanism in cooperative spectrum sensing. Electronics Letters, 2019, 55, 1128-1130.	0.5	6
50	Superhydrophobic zinc oxide film: effect of hybrid nanostructure on hydrophobicity and wetting stability. Micro and Nano Letters, 2013, 8, 271-273.	0.6	5
51	Robust Cooperative Spectrum Sensing against Probabilistic SSDF Attack in Cognitive Radio Networks. , 2017, , .		5
52	Investigation on the wetting issues in solution processed quantum dot light-emitting diodes with inverted tandem structure. Organic Electronics, 2019, 67, 116-121.	1.4	5
53	Transferred Laserâ€Scribed Grapheneâ€Based Durable and Permeable Strain Sensor. Advanced Materials Interfaces, 2021, 8, 2100625.	1.9	5
54	Facile Synthesis of Three-Dimensional ZnO Nanostructure: Realization of a Multifunctional Stable Superhydrophobic Surface. PLoS ONE, 2011, 6, e29047.	1.1	5

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55	Secure and efficient cooperative spectrum sensing under byzantine attack and imperfect reporting channel. Wireless Networks, 2022, 28, 367-380.	2.0	5
56	Low-cost, Light-weight Scalable Soft Data Glove for VR Applications. , 2022, , .		5
57	Photoelectrochemical properties of multiwall carbon nanotube assembled with CdSe quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 59-61.	0.8	4
58	Color-tunable light emission of SrLa4-x-ySi3O13:xTb3+, yEu3+ phosphors by energy transfer process for warm white LEDs. AIP Advances, 2018, 8, 015119.	0.6	4
59	Investigation on the wetting issues in solution processed inverted quantum-dot light-emitting diodes. Organic Electronics, 2018, 62, 434-440.	1.4	4
60	Distributed Downloading Strategy for Multi-Source Data Fusion in Edge-Enabled Vehicular Network : (Invited Paper). , 2019, , .		4
61	Cooperative Blind Spectrum Detection With Doolittle Decomposition and PCA-SVM Classification in Hybrid GEO-LEO Satellite Constellation Networks. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 3209-3220.	2.6	4
62	Cost-benefit Analysis of Cooperative Spectrum Sensing Under Detection Delay Constraint for CUAVNs. , 2021, , .		4
63	Robust and efficient cooperative spectrum sensing against probabilistic hard Byzantine attack. Transactions on Emerging Telecommunications Technologies, 2022, 33, e4414.	2.6	4
64	Quick cooperative spectrum sensing in cognitive unmanned aerial vehicles networks. Transactions on Emerging Telecommunications Technologies, 2022, 33, e4441.	2.6	4
65	Enhanced absorption of CdS quantum dots deposited onto ZnO nanorod by using bifunctional linker. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 19-21.	0.8	3
66	Self-organizing map-based scheme against probabilistic SSDF attack in cognitive radio networks. , 2017, , .		3
67	Tilted LCD Pixel With Liquid Crystal GRIN Lens for Two-Dimensional/Three-Dimensional Switchable Display. IEEE Photonics Journal, 2019, 11, 1-9.	1.0	3
68	Dynamically Tunable Light Absorbers as Color Filters Based on Electrowetting Technology. Nanomaterials, 2019, 9, 70.	1.9	3
69	Energy-Efficient Optimal Sensing and Resource Allocation of Soft Cooperative Spectrum Sensing in CRNs. , 2019, , .		3
70	Efficient Byzantine Defense Algorithm for Cooperative Spectrum Sensing in Cognitive Radio Networks. Journal of Physics: Conference Series, 2021, 1952, 032051.	0.3	3
71	Optimisation of virtual cooperative spectrum sensing for UAV-based interweave CR system. IET Communications, 2020, , .	1.5	3
72	Exploitation Analysis of Byzantine attack for Cooperative Spectrum Sensing. , 2021, , .		3

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73	Wetting Transition on Micro/Nanostructured ZnO Layers. Journal of Adhesion Science and Technology, 2012, 26, 2099-2104.	1.4	2
74	Utilization of byzantine attack in hard combining-based cooperative spectrum sensing. , 2021, , .		2
75	Energy-efficient cooperative spectrum sensing over imperfect reporting channels with collision constraint. Physical Communication, 2021, 49, 101472.	1.2	2
76	Joint spectrum sensing and resource allocation against byzantine attack in overlay cognitive radio networks. Transactions on Emerging Telecommunications Technologies, 0, , .	2.6	2
77	Semi-supervised Learning-enabled Two-stage Framework for Cooperative Spectrum Sensing Against SSDF Attack. , 2022, , .		2
78	A Slip Enhanced Superhydrophobic Surface Based on Reticulated ZnO Nanostructure. Materials Transactions, 2014, 55, 194-197.	0.4	1
79	Two-Stage Credit Threshold on Cooperative Spectrum Sensing to Exclude Malicious Users in Mobile Cognitive Radio Networks. , 2017, , .		1
80	Simultaneous Generation of Complex Structured Curve Beam. Nanomaterials, 2019, 9, 87.	1.9	1
81	SPRT-based cooperative spectrum sensing with performance requirements in cognitive unmanned aerial vehicle networks (CUAVNs). Sequential Analysis, 2022, 41, 53-67.	0.2	1
82	Simultaneous Generation of Multiple Three-Dimensional Tractor Curve Beams. Nanoscale Research Letters, 2019, 14, 82.	3.1	0
83	Sequential single symbol differential voting for cooperative spectrum sensing in the presence of byzantine attack and imperfect reporting channels. , 2021, , .		0
84	Reliable Reporting Mechanism for Hard Combining-based Cooperative Spectrum Sensing. , 2021, , .		0
85	Optimal Utility of Cooperative Spectrum Sensing for CUAVNs. , 2021, , .		0
86	Optimal Power Allocation for Green CR over Fading Channels with Rate Constraint. IEICE Transactions on Communications, 2020, E103.B, 1038-1048.	0.4	0
87	Optimized Construction of Short and High Rate Protograph QC-LDPC Codes. , 2021, , .		0
88	Performance analysis ofÂintra-frame cooperative spectrum sensing in cognitive UAV networks. Wireless Networks, 2022, 28, 1689-1701.	2.0	0