

# Luping Xu

## List of Publications by Year in descending order

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63  
papers

1,063  
citations

687363

13  
h-index

434195

31  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1342  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radar Communication Integrated Waveform Design Based on OFDM and Circular Shift Sequence. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-10.	1.1	524
2	SnO <sub>2</sub> /ZnSnO <sub>3</sub> double-shelled hollow microspheres based high-performance acetone gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129212.	7.8	62
3	Ultrasonic spray pyrolysis synthesis of three-dimensional ZnFe <sub>2</sub> O <sub>4</sub> -based macroporous spheres for excellent sensitive acetone gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126755.	7.8	60
4	High specific surface area urchin-like hierarchical ZnO-TiO <sub>2</sub> architectures: Hydrothermal synthesis and photocatalytic properties. <i>Materials Letters</i> , 2016, 175, 52-55.	2.6	39
5	Track-before-detect algorithm based on dynamic programming for multi-extended targets detection. <i>IET Signal Processing</i> , 2017, 11, 674-686.	1.5	33
6	Enhanced acetone sensing properties based on in situ growth SnO <sub>2</sub> nanotube arrays. <i>Nanotechnology</i> , 2021, 32, 245503.	2.6	21
7	Modeling and Doppler measurement of X-ray pulsar. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 1068-1076.	5.1	19
8	Image Denoising Using Hybrid Contourlet and Bandelet Transforms. , 2007, , .		18
9	Improved centroid extraction algorithm for autonomous star sensor. <i>IET Image Processing</i> , 2015, 9, 901-907.	2.5	18
10	A fast method for X-ray pulsar signal simulation. <i>Acta Astronautica</i> , 2014, 98, 189-200.	3.2	17
11	SAR Image Segmentation Based on Improved Grey Wolf Optimization Algorithm and Fuzzy C-Means. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-11.	1.1	15
12	Design of SnO <sub>2</sub> @Air@TiO <sub>2</sub> hierarchical urchin-like double-hollow nanospheres for high performance dye-sensitized solar cells. <i>Solar Energy</i> , 2019, 189, 412-420.	6.1	15
13	A Three-Dimensional Hough Transform-Based Track-Before-Detect Technique for Detecting Extended Targets in Strong Clutter Backgrounds. <i>Sensors</i> , 2019, 19, 881.	3.8	15
14	Multiple maneuvering extended targets detection by 3D projection and tracklet association. <i>Signal Processing</i> , 2021, 179, 107821.	3.7	15
15	An improved phase measurement method of integrated pulse profile for pulsar. <i>Science China Technological Sciences</i> , 2011, 54, 2263-2270.	4.0	14
16	An improved partitioning algorithm based on FCM algorithm for extended target tracking in PHD filter. , 2019, 90, 54-70.		13
17	A Target Detection and Tracking Method for Multiple Radar Systems. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-21.	6.3	13
18	3D TiO <sub>2</sub> /ZnO composite nanospheres as an excellent electron transport anode for efficient dye-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 51320-51326.	3.6	11

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19	A Carrier Estimation Method Based on MLE and KF for Weak GNSS Signals. <i>Sensors</i> , 2017, 17, 1468.	3.8	11
20	Two-parameter Hong-Ou-Mandel dip. <i>Scientific Reports</i> , 2019, 9, 10821.	3.3	10
21	An Autonomous Star Identification Algorithm Based on One-Dimensional Vector Pattern for Star Sensors. <i>Sensors</i> , 2015, 15, 16412-16429.	3.8	9
22	Novel X-ray Communication Based XNAV Augmentation Method Using X-ray Detectors. <i>Sensors</i> , 2015, 15, 22325-22342.	3.8	9
23	A blind watermarking of vector graphics images. , 0, , .		8
24	Clustered Multi-Task Learning for Automatic Radar Target Recognition. <i>Sensors</i> , 2017, 17, 2218.	3.8	7
25	Orbit Determination Using Pulsar Timing Data and Orientation Vector. <i>Journal of Navigation</i> , 2019, 72, 155-175.	1.7	7
26	Pulsar profile construction algorithm based on compressed sensing. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2011, 41, 681-684.	0.4	7
27	Relative orbit determination for satellite formation flying based on quantum ranging. <i>Advances in Space Research</i> , 2015, 56, 680-692.	2.6	6
28	Improved plot fusion method for dynamic programming based track before detect algorithm. <i>AEU - International Journal of Electronics and Communications</i> , 2017, 74, 31-43.	2.9	6
29	An efficient extended target detection method based on region growing and contour tracking algorithm. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2018, 232, 825-836.	1.3	6
30	Constructing routing structures for sensor data collection with dynamic traffic patterns. <i>Computer Networks</i> , 2018, 142, 272-290.	5.1	6
31	A sparse representation-based optimization algorithm for measuring the time delay of pulsar integrated pulse profile. <i>Aerospace Science and Technology</i> , 2015, 46, 94-103.	4.8	5
32	A Novel Smooth Variable Structure Smoother for Robust Estimation. <i>Sensors</i> , 2020, 20, 1781.	3.8	5
33	An Improved Acquisition Method for GNSS in High Dynamic Environments: Differential Acquisition Based on Compressed Sensing Theory. <i>Navigation, Journal of the Institute of Navigation</i> , 2017, 64, 23-34.	2.8	4
34	An Efficient Extended Targets Detection Framework Based on Sampling and Spatio-Temporal Detection. <i>Sensors</i> , 2019, 19, 2912.	3.8	4
35	Experimental investigation on radiation characteristics of RF electromagnetic pulse from atmospheric spark discharge plasma. <i>Physics of Plasmas</i> , 2019, 26, 043301.	1.9	4
36	Exclusive Hong-Ou-Mandel zero-coincidence point. <i>Physical Review A</i> , 2019, 100, .	2.5	4

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37	Adaptive Segmentation of Remote Sensing Images Based on Global Spatial Information. Sensors, 2019, 19, 2385.	3.8	3
38	Ultrawideband Discharge Source DOA Estimation Method Using Multiple Baseline Wideband Time-Domain Interferometry with Hilbert Transform. Mathematical Problems in Engineering, 2020, 2020, 1-13.	1.1	3
39	Relative navigation using pulsar signals. , 2011, , .		2
40	Implement of Digital PID Controller Based on FPGA and the System Co-simulation. , 2011, , .		2
41	High sensitivity and robustness carrier tracking loop for vehicular applications. IET Science, Measurement and Technology, 2017, 11, 914-920.	1.6	2
42	A new strategy of smooth variable structure filter to estimate unmeasured states in target tracking. , 2022, 123, 103428.		2
43	A Novel 4D Track-before-Detect Approach for Weak Targets Detection in Clutter Regions. Remote Sensing, 2021, 13, 4942.	4.0	2
44	Improved Genetic FCM Algorithm for Color Image Segmentation. , 2006, , .		1
45	X-ray pulsar signal detection using photon interarrival time. Journal of Systems Engineering and Electronics, 2013, 24, 899-905.	2.2	1
46	Code acquisition method based on wavelet transform filtering. Journal of Systems Engineering and Electronics, 2015, 26, 1169-1176.	2.2	1
47	Doppler shift and ambiguity velocity caused by relative motion in quantum-enhanced measurement. Optics Express, 2015, 23, 18445.	3.4	1
48	Performance optimization for quantum key distribution in lossy channel using entangled photons. Chinese Physics B, 2017, 26, 110305.	1.4	1
49	A 2-step GPS carrier tracking loop for urban vehicle applications. Journal of Systems Engineering and Electronics, 2017, 28, 817-826.	2.2	1
50	Median Access Control Protocols for Sensor Data Collection: A Review. IEEE Access, 2020, 8, 160078-160098.	4.2	1
51	<title>New algorithm of classified vector quantization based on wavelet transform for image coding</title>. , 2001, 4551, 183.		0
52	A method or radar targets position acquisition based on Possibilistic C_means algorithm. , 2006, , .		0
53	Multiresolutional Maneuvering Target Tracking with Average Interpolation and Parallel Implementation. , 2006, , .		0
54	Spatial fusion algorithm of multispectral and high-resolution panchromatic images. , 2007, , .		0

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55	Edge detection and contour tracing of medical cell images. , 2007, , .		0
56	DCT domain filtering method for multi-antenna code acquisition. Journal of Systems Engineering and Electronics, 2013, 24, 734-741.	2.2	0
57	Maximal-minimal correlation atoms algorithm for sparse recovery. Journal of Systems Engineering and Electronics, 2013, 24, 579-585.	2.2	0
58	Independent feature subspace iterative optimization based fuzzy clustering for synthetic aperture radar image segmentation. Journal of Applied Remote Sensing, 2015, 9, 095060.	1.3	0
59	Solution to some limitations of frequency-entangled-based sensor applied in GRACE-like mission. Advances in Space Research, 2016, 57, 867-879.	2.6	0
60	Experiment on Direction of Arrival Estimation of Atmospheric Spark Discharge Plasma Using Combined Time-Domain Antenna. International Journal of Antennas and Propagation, 2020, 2020, 1-11.	1.2	0
61	Performance Improvement of Attitude Estimation via X-Ray Pulsar for the Spin-Stabilized Spacecrafts. Lecture Notes in Electrical Engineering, 2012, , 541-550.	0.4	0
62	MAP Pulse Phase Estimation of X-ray Pulsars. Lecture Notes in Electrical Engineering, 2012, , 605-615.	0.4	0
63	An Orbit Determination Algorithm for Spacecrafts Navigated by a Single X-Ray Pulsar. Lecture Notes in Electrical Engineering, 2015, , 703-715.	0.4	0