

Yuhao Wang

List of Publications by Year in descending order

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137
papers

1,945
citations

279487

23
h-index

301761

39
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all docs

137
docs citations

137
times ranked

2229
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploiting big.LITTLE Batteries for Software Defined Management on Mobile Devices. IEEE Transactions on Mobile Computing, 2022, 21, 1998-2012.	3.9	0
2	RNMF-Guided Deep Network for Signal Separation of GPR Without Labeled Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	7
3	Physical Model-Inspired Deep Unrolling Network for Solving Nonlinear Inverse Scattering Problems. IEEE Transactions on Antennas and Propagation, 2022, 70, 1236-1249.	3.1	10
4	Range-Doppler Spectrograms-Based Graph-Relational Mapping for Clutter Rejection in HF Passive Radar. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
5	Deep frequency-recurrent priors for inverse imaging reconstruction. Signal Processing, 2022, 190, 108320.	2.1	4
6	Efficient Fast Time-Domain Processing Framework for Airborne Bistatic SAR Continuous Imaging Integrated With Data-Driven Motion Compensation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	5
7	Distribution Characteristics of the Plasma Irregularities Inside the Mid-Latitude Ionospheric Trough Based on Swarm In Situ Measurements. Space Weather, 2022, 20, .	1.3	2
8	Propagation Characteristics of Modulated EHF Signal in the Wake Region of Plasma Sheath. Aerospace, 2022, 9, 194.	1.1	3
9	Numerical modeling on the bit error rate of EHF communication in time-varying hypersonic plasma sheath. AIP Advances, 2022, 12, .	0.6	3
10	University students's use of music for learning and well-being: A qualitative study and design implications. Information Processing and Management, 2021, 58, 102409.	5.4	25
11	Resource Allocation and Trajectory Design in UAV-Assisted Jamming Wideband Cognitive Radio Networks. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 635-647.	4.9	24
12	Barrier Coverage Quality Improvement for AI-Based Passive Bistatic Radar Networks. IEEE Sensors Journal, 2021, 21, 25379-25390.	2.4	5
13	EHF Wave Propagation in the Plasma Sheath Enveloping Sharp-Coned Hypersonic Vehicle. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 978-982.	2.4	10
14	Trajectory design and resource allocation for UAV energy minimization in a rotary-wing UAV-enabled WPCN. AEJ - Alexandria Engineering Journal, 2021, 60, 1787-1796.	3.4	15
15	Performance Analysis of Hybrid Radio Frequency and Free Space Optical Communication Networks with Cooperative Spectrum Sharing. Photonics, 2021, 8, 108.	0.9	4
16	Instability Mechanisms for the F-Region Plasma Irregularities Inside the Midlatitude Ionospheric Trough: Swarm Observations. Space Weather, 2021, 19, e2021SW002785.	1.3	7
17	Design and Implementation of an Atmospheric Anion Monitoring System Based on Beidou Positioning. Sensors, 2021, 21, 6174.	2.1	2
18	Range-Doppler Spectrograms-Based Clutter Suppression of HF Passive Bistatic Radar by D-CycleGAN. IEEE Sensors Journal, 2021, 21, 26006-26013.	2.4	2

#	ARTICLE	IF	CITATIONS
19	First-Order Peaks Determination for Direction-Finding High-Frequency Radar. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 8.	1.2	2
20	A Novel 3D Node Deployment Inspired by Dusty Plasma Crystallization in UAV-Assisted Wireless Sensor Network Applications. <i>Sensors</i> , 2021, 21, 7576.	2.1	3
21	Array Factor Forming With Regularization for Aperture Synthesis Radiometric Imaging With an Irregularly Distributed Array. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 97-101.	1.4	1
22	Multi-Channel and Multi-Model-Based Autoencoding Prior for Grayscale Image Restoration. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 142-156.	6.0	25
23	A hybrid neural network for hyperspectral image classification. <i>Remote Sensing Letters</i> , 2020, 11, 96-105.	0.6	7
24	Computation Efficiency Maximization in OFDMA-Based Mobile Edge Computing Networks. <i>IEEE Communications Letters</i> , 2020, 24, 159-163.	2.5	40
25	FFDNet-Based Channel Estimation for Massive MIMO Visible Light Communication Systems. <i>IEEE Wireless Communications Letters</i> , 2020, 9, 340-343.	3.2	24
26	Subcarrier Assignment Schemes Based on Q-Learning in Wideband Cognitive Radio Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 1168-1172.	3.9	20
27	Performance Analysis of Bidirectional AF Based Cooperative Vehicular Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 2274-2279.	3.9	7
28	Dual-branch dense residual network for hyperspectral imagery classification. <i>International Journal of Remote Sensing</i> , 2020, 41, 2581-2602.	1.3	8
29	Transformed denoising autoencoder prior for image restoration. <i>Journal of Visual Communication and Image Representation</i> , 2020, 72, 102927.	1.7	4
30	Beamforming Design for Secure MISO Visible Light Communication Networks With SLIPT. <i>IEEE Transactions on Communications</i> , 2020, 68, 7795-7809.	4.9	26
31	Three Passive TDOA-AOA Receivers Based Flying-UAV Positioning in Extreme Environments. <i>IEEE Sensors Journal</i> , 2020, , 1-1.	2.4	27
32	Cooperative Jamming-Aided Secure Wireless Powered Communication Networks: A Game Theoretical Formulation. <i>IEEE Communications Letters</i> , 2020, 24, 1081-1085.	2.5	12
33	Mobile Edge Computing in Unmanned Aerial Vehicle Networks. <i>IEEE Wireless Communications</i> , 2020, 27, 140-146.	6.6	169
34	Constrained Transmit Beampattern Design Using a Correlated LFM-PC Waveform Set in MIMO Radar. <i>Sensors</i> , 2020, 20, 773.	2.1	3
35	Secure Beamforming Designs in MISO Visible Light Communication Networks with SLIPT. , 2020, , .		1
36	Progressive Colorization via Iterative Generative Models. <i>IEEE Signal Processing Letters</i> , 2020, 27, 2054-2058.	2.1	3

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37	Dynamic Spectrum Management via Machine Learning: State of the Art, Taxonomy, Challenges, and Open Research Issues. IEEE Network, 2019, 33, 54-62.	4.9	28
38	A continual beam scanning periodic composite right/left handed leaky wave antenna with the open stopband suppressed. Microwave and Optical Technology Letters, 2019, 61, 2463-2467.	0.9	0
39	Performance Analysis on Visible Light Communications With Multi-Eavesdroppers and Practical Amplitude Constraint. IEEE Communications Letters, 2019, 23, 2292-2295.	2.5	8
40	Resource Allocation for a UAV-Enabled Mobile-Edge Computing System: Computation Efficiency Maximization. IEEE Access, 2019, 7, 113345-113354.	2.6	77
41	Iterative Adaptive Photon-Counting Compressive Imaging Based on Wavelet Entropy Automatic Threshold Acquisition. IEEE Photonics Journal, 2019, 11, 1-13.	1.0	2
42	Optimal Relay Deployment in Bidirectional AF Relaying Systems. IEEE Access, 2019, 7, 121574-121585.	2.6	3
43	Photon-Counting Underwater Wireless Optical Communication by Recovering Clock and Data From Discrete Single Photon Pulses. IEEE Photonics Journal, 2019, 11, 1-15.	1.0	14
44	Single-Photon Reflectivity and Depth Imaging by Continuous Measurement of Arrival Time of Photons. IEEE Photonics Journal, 2019, 11, 1-14.	1.0	4
45	BER Analysis of NOMA-Enabled Visible Light Communication Systems With Different Modulations. IEEE Transactions on Vehicular Technology, 2019, 68, 10807-10821.	3.9	62
46	Simultaneous Lightwave Information and Power Transfer in Visible Light Communication Systems. IEEE Transactions on Wireless Communications, 2019, 18, 5818-5830.	6.1	47
47	Sampling Time Adaptive Single-Photon Compressive Imaging. IEEE Photonics Journal, 2019, 11, 1-10.	1.0	5
48	Exact Performance Analysis of Amplify-and-Forward Bidirectional Relaying over Nakagami-m Fading Channels with Arbitrary Parameters. Energies, 2019, 12, 1277.	1.6	0
49	A New Fast Factorized Back Projection Algorithm for Bistatic Forward-Looking SAR Imaging Based on Orthogonal Elliptical Polar Coordinate. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 1508-1520.	2.3	13
50	Data-Intensive Computing Acceleration with Python in Xilinx FPGA. Lecture Notes in Computer Science, 2019, , 111-124.	1.0	0
51	Performance Analysis of AF Relays with Maximal Ratio Combining in Nakagami- m Fading Environments. Wireless Communications and Mobile Computing, 2019, 2019, 1-11.	0.8	5
52	A terahertz signal propagation model in hypersonic plasma sheath with different flight speed. Physics of Plasmas, 2019, 26, .	0.7	26
53	Using Polar Codes in NOMA-Enabled Visible Light Communication Systems. , 2019, 3, 1-4.		3
54	Measurement Matrix Construction for Large-area Single Photon Compressive Imaging. Sensors, 2019, 19, 474.	2.1	1

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55	Photon-Counting Underwater Optical Wireless Communication for Reliable Video Transmission Using Joint Source-Channel Coding Based on Distributed Compressive Sensing. <i>Sensors</i> , 2019, 19, 1042.	2.1	15
56	Bi-path network coupling for single image super-resolution. <i>Multimedia Tools and Applications</i> , 2019, 78, 21981-21998.	2.6	2
57	Performance Analysis of AF Relaying With Selection Combining in Nakagami- m Fading. <i>IEEE Systems Journal</i> , 2019, 13, 2375-2385.	2.9	4
58	A Self-Adaptive and Wide-Range Conductivity Measurement Method Based on Planar Interdigital Electrode Array. <i>IEEE Access</i> , 2019, 7, 173157-173165.	2.6	10
59	Design and characteristic analysis of hybrid OFDM-LFM PC waveforms in the MIMO radar. <i>Journal of Engineering</i> , 2019, 2019, 5868-5872.	0.6	1
60	Zeroth-Order-Mode Circular Microstrip Antenna With Patch-Like Radiation Pattern. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 446-449.	2.4	22
61	Multi-Objective Resource Allocation in a NOMA Cognitive Radio Network With a Practical Non-Linear Energy Harvesting Model. <i>IEEE Access</i> , 2018, 6, 12973-12982.	2.6	59
62	Efficient InSAR Phase Noise Reduction via Compressive Sensing in the Complex Domain. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 1615-1632.	2.3	8
63	State of the Art, Taxonomy, and Open Issues on Cognitive Radio Networks with NOMA. <i>IEEE Wireless Communications</i> , 2018, 25, 100-108.	6.6	166
64	Energy-Efficient NOMA Enabled Heterogeneous Cloud Radio Access Networks. <i>IEEE Network</i> , 2018, 32, 152-160.	4.9	103
65	Gradient-based low rank method and its application in image inpainting. <i>Multimedia Tools and Applications</i> , 2018, 77, 5969-5993.	2.6	22
66	Robust Max-Min Fairness Resource Allocation in Sensing-Based Wideband Cognitive Radio With SWIPT: Imperfect Channel Sensing. <i>IEEE Systems Journal</i> , 2018, 12, 2361-2372.	2.9	43
67	Artificial noise-aided secure communication in a bidirectional relaying network. <i>International Journal of Communication Systems</i> , 2018, 31, e3464.	1.6	4
68	Effects of donor and acceptor's fluorescence lifetimes on the method of applying Förster resonance energy transfer in STED microscopy. <i>Journal of Microscopy</i> , 2018, 269, 59-65.	0.8	9
69	Bi-iterative MVDR Beamforming based on Beamspace Preprocessing for MIMO radars. , 2018, , .		1
70	BER Analysis for NOMA-Enabled Visible Light Communication Systems with M-PSK. , 2018, , .		9
71	Experimental Verification of One-Dimensional Mirrored Aperture Synthesis. , 2018, , .		0
72	Learning multi-denoising autoencoding priors for image super-resolution. <i>Journal of Visual Communication and Image Representation</i> , 2018, 57, 152-162.	1.7	7

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73	Adaptive Single Photon Compressed Imaging Based on Constructing a Smart Threshold Matrix. Sensors, 2018, 18, 3449.	2.1	3
74	Nonlinear Electromagnetic Inverse Scattering Imaging Based on IN-LSQR. International Journal of Antennas and Propagation, 2018, 2018, 1-9.	0.7	3
75	Joint Range-Doppler-Angle Estimation for OFDM-Based RadCom System via Tensor Decomposition. Wireless Communications and Mobile Computing, 2018, 2018, 1-12.	0.8	1
76	SIMULATION-DRIVEN DESIGN FOR A HYBRID LUMPED AND DISTRIBUTED DUAL-BAND STUB USING INPUT AND OUTPUT SPACE MAPPING. Progress in Electromagnetics Research M, 2018, 76, 133-141.	0.5	0
77	Average SEP of AF Relaying in Nakagami- m Fading Environments. Wireless Communications and Mobile Computing, 2018, 2018, 1-7.	0.8	2
78	Robust Resource Allocation for MISO Cognitive Radio Networks Under Two Practical Non-Linear Energy Harvesting Models. IEEE Communications Letters, 2018, 22, 1874-1877.	2.5	39
79	Chaotic Phase-Coded Waveforms With Space-Time Complementary Coding for MIMO Radar Applications. IEEE Access, 2018, 6, 42066-42083.	2.6	13
80	Intelligent Fault Diagnosis of HVCB with Feature Space Optimization-Based Random Forest. Sensors, 2018, 18, 1221.	2.1	36
81	Design and analysis of frequency division phase-coded waveforms for MIMO over-the-horizon radars. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	1
82	SER Optimization of OFDM Based AF Relaying in the Presence of AWGGN. IEEE Access, 2017, 5, 3149-3156.	2.6	4
83	Dynamic propagation characteristics estimation and tracking based on an EM-EKF algorithm in time-variant MIMO channel. Information Sciences, 2017, 408, 70-83.	4.0	14
84	Sub-THz signals propagation model in hypersonic plasma sheath under different atmospheric conditions. Science China Information Sciences, 2017, 60, 1.	2.7	17
85	Fuzzy theoretic approach to signals and systems: Static systems. Information Sciences, 2017, 418-419, 668-702.	4.0	71
86	A miniaturized dual-band microstrip patch antenna using a symmetrical composite right/left handed unit. Microwave and Optical Technology Letters, 2017, 59, 3069-3073.	0.9	1
87	A two-stage convolutional sparse prior model for image restoration. Journal of Visual Communication and Image Representation, 2017, 48, 268-280.	1.7	11
88	Resource Allocation in Wireless Powered Cognitive Radio Networks Based on a Practical Non-Linear Energy Harvesting Model. IEEE Access, 2017, 5, 17618-17626.	2.6	61
89	Extended RGB2Gray conversion model for efficient contrast preserving decolorization. Multimedia Tools and Applications, 2017, 76, 14055-14074.	2.6	16
90	Resource allocation for OFDM-based improved DF relaying. IET Communications, 2017, 11, 2768-2774.	1.5	3

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91	Log-Euclidean Metrics for Contrast Preserving Decolorization. IEEE Transactions on Image Processing, 2017, 26, 5772-5783.	6.0	23
92	Multi-objective resource allocation in NOMA cognitive radios based on a practical non-linear energy harvesting model. , 2017, , .		3
93	The Maximum Rank of the Transfer Matrix in 1-D Mirrored Interferometric Aperture Synthesis. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1580-1583.	1.4	11
94	On-road feature detection and fountain-coded data dissemination in vehicular ad-hoc networks. , 2017, , .		3
95	Secure EE maximisation in green CR: guaranteed SC. IET Communications, 2017, 11, 2507-2513.	1.5	9
96	Sparse Representation Based Range-Doppler Processing for Integrated OFDM Radar-Communication Networks. International Journal of Antennas and Propagation, 2017, 2017, 1-12.	0.7	3
97	Adaptive Radio Frequency Interference Mitigation for Passive Bistatic Radar Using OFDM Waveform. International Journal of Antennas and Propagation, 2016, 2016, 1-6.	0.7	2
98	A Dictionary Learning Method with Total Generalized Variation for MRI Reconstruction. International Journal of Biomedical Imaging, 2016, 2016, 1-13.	3.0	10
99	Reference Information Based Remote Sensing Image Reconstruction with Generalized Nonconvex Low-Rank Approximation. Remote Sensing, 2016, 8, 499.	1.8	20
100	Resource Allocation in Wideband Cognitive Radio with SWIPT: Max-Min Fairness Guarantees. , 2016, , .		21
101	Low angle estimation with colored noise in bi-static MIMO radar. , 2016, , .		2
102	A novel 3D imaging method based on orthogonal-track SAR. , 2016, , .		0
103	Finite-element modeling of soft solids with liquid inclusions. Extreme Mechanics Letters, 2016, 9, 147-157.	2.0	23
104	Semi-Parametric Decolorization with Laplacian-based Perceptual Quality Metric. IEEE Transactions on Circuits and Systems for Video Technology, 2016, , 1-1.	5.6	27
105	Inorganic Material Detection Based on Electrode Sensor. IEEE Sensors Journal, 2016, 16, 4147-4148.	2.4	6
106	Radio frequency interference mitigation in OFDM based passive bistatic radar. AEU - International Journal of Electronics and Communications, 2016, 70, 70-76.	1.7	10
107	An Efficient Response Distribution Function for 3D MIMO Channel Modeling from a Scatterer View. International Journal of Future Generation Communication and Networking, 2016, 9, 83-104.	0.7	0
108	Distributed Intelligent Monitoring System for Water Environment. Smart Sensors, Measurement and Instrumentation, 2015, , 129-158.	0.4	0

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109	GcsDecolor: Gradient Correlation Similarity for Efficient Contrast Preserving Decolorization. IEEE Transactions on Image Processing, 2015, 24, 2889-2904.	6.0	42
110	Mechanism and Experiment of Planar Electrode Sensors in Water Pollutant Measurement. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 516-523.	2.4	32
111	Amplify-and-forward-based cooperative jamming strategy with power allocation for secure communication. International Journal of Communication Systems, 2015, 28, 1621-1627.	1.6	10
112	A Segment Collision Inversion Protocol for RFID Tag Reading. IEEE Communications Letters, 2013, 17, 2008-2011.	2.5	2
113	A Multi-Bit Identification Protocol for RFID Tag Reading. IEEE Sensors Journal, 2013, 13, 3527-3536.	2.4	11
114	A Novel Feature-Level Data Fusion Method for Indoor Autonomous Localization. Mathematical Problems in Engineering, 2013, 2013, 1-12.	0.6	0
115	Cluster-based Routing Performance Optimization Constraint of Energy, Delay and Connectivity Metrics in Wireless Sensor Network. International Journal on Smart Sensing and Intelligent Systems, 2013, 6, 2103-2118.	0.4	4
116	Extended Sum-of-Sinusoids-Based Simulation for Rician Fading Channels in Vehicular Ad Hoc Networks. International Journal of Wireless Information Networks, 2012, 19, 147-157.	1.8	2
117	A Novel Low-Power Multifunctional Ionospheric Sounding System. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1252-1259.	2.4	17
118	An Experimental Vehicular Wireless System and Link Performance Analysis. IEEE/ASME Transactions on Mechatronics, 2012, 17, 508-518.	3.7	3
119	A novel low power multifunctional ionospheric sounding system. , 2011, , .		1
120	Experimental characterization of packet-level for vehicular wireless network in urban. , 2011, , .		0
121	A Hybrid MAC Mechanism for Multiple Load Intelligent Vehicle Transportation Network. International Journal on Smart Sensing and Intelligent Systems, 2011, 4, 662-674.	0.4	5
122	A Novel Inversion Method for Outdoor Coverage Prediction in Wireless Cellular Network. IEEE Transactions on Vehicular Technology, 2010, 59, 36-47.	3.9	13
123	Smart Sensing Strategy for Wireless Channel Based on Sequence Characterizes Matching Method. , 2010, , .		2
124	A Wireless Cellular Network Optimization Platform Based on Inversion Propagation Model and GIS. , 2010, , .		3
125	Statistical Properties Evaluation on Rayleigh VANET Fading Channels. , 2010, , .		1
126	Performance Evaluation of Routing Protocol in VANET with Vehicle-Node Density. , 2010, , .		15

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127	A New Indoor Localization Method Based on Inversion Propagation Model. , 2010, , .		5
128	Implementation of Large Number of Buildings Based on OpenGL. , 2009, , .		0
129	A New Design and Application of Time Shift TV. , 2009, , .		0
130	Binary Sequences with Good Aperiodic Autocorrelations Using Cross-Entropy Method. Lecture Notes in Computer Science, 2009, , 381-385.	1.0	0
131	Time Frequency Representations for Classification of Landmine Using UWB Impulse GPR. , 2008, , .		4
132	Enhanced Signal-Strength-Difference Position Method Based on an Inversion Propagation Model in Cellular Network. , 2008, , .		0
133	A Flexible Business Alliance Model for the Emerging UMTS Network Operators. , 2007, , .		0
134	An Enhanced Inversion Propagation Model Using Simple Genetic Algorithm for a Single Cell Coverage Prediction. , 2007, , .		0
135	Wrapper approach for feature subset selection using GA. , 2007, , .		2
136	A Novel Measurement-Based Algorithm for Coverage Prediction of Urban and Suburban Cells in Wireless Networks. IEEE Transactions on Antennas and Propagation, 2006, 54, 3138-3142.	3.1	8
137	Evaluation of BER for the EHF Communication System Serving Sharp-Coned Reentry Vehicles. Frontiers in Earth Science, 0, 10, .	0.8	0