Wen-Qin Wang

List of Publications by Citations

234 papers	4,237 citations	35 h-index	56 g-index
279 ext. papers	5,635 ext. citations	3.5 avg, IF	6.87 L-index

#	Paper	IF	Citations
234	Transmit Subaperturing for Range and Angle Estimation in Frequency Diverse Array Radar. *IEEE Transactions on Signal Processing*, **2014**, 62, 2000-2011	4.8	192
233	Range-Angle Localization of Targets by A Double-Pulse Frequency Diverse Array Radar. *IEEE Journal on Selected Topics in Signal Processing*, **2014**, 8, 106-114	7.5	130
232	Frequency Diverse Array Antenna: New Opportunities. *IEEE Antennas and Propagation Magazine*, **2015**, 57, 145-152	1.7	124
231	Space□time Coding MIMO-OFDM SAR for High-Resolution Imaging. *IEEE Transactions on Geoscience and Remote Sensing*, **2011**, 49, 3094-3104	8.1	112
230	Range-Angle Dependent Transmit Beampattern Synthesis for Linear Frequency Diverse Arrays. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 4073-4081	4.9	111
229	. *IEEE Journal on Selected Topics in Signal Processing*, **2017**, 11, 228-246	7.5	108
228	MISC Array: A New Sparse Array Design Achieving Increased Degrees of Freedom and Reduced Mutual Coupling Effect. *IEEE Transactions on Signal Processing*, **2019**, 67, 1728-1741	4.8	107
227	Overview of frequency diverse array in radar and navigation applications. *IET Radar, Sonar and Navigation*, **2016**, 10, 1001-1012	1.4	96
226	Sparsity-aware transmit beamspace design for FDA-MIMO radar. *Signal Processing*, **2018**, 144, 99-103	4.4	89
225	. *IEEE Transactions on Aerospace and Electronic Systems*, **2018**, 54, 284-294	3.7	84
224	MIMO SAR OFDM Chirp Waveform Diversity Design With Random Matrix Modulation. *IEEE Transactions on Geoscience and Remote Sensing*, **2015**, 53, 1615-1625	8.1	83
223	Dot-Shaped Range-Angle Beampattern Synthesis for Frequency Diverse Array. *IEEE Antennas and Wireless Propagation Letters*, **2016**, 15, 1703-1706	3.8	80
222	. *IEEE Sensors Journal*, **2013**, 13, 1320-1328	4	80
221	. *IEEE Transactions on Aerospace and Electronic Systems*, **2014**, 50, 3057-3067	3.7	78
220	Nonuniform Frequency Diverse Array for Range-Angle Imaging of Targets. *IEEE Sensors Journal*, **2014**, 14, 2469-2476	4	75
219	Mitigating Range Ambiguities in High-PRF SAR With OFDM Waveform Diversity. *IEEE Geoscience and Remote Sensing Letters*, **2013**, 10, 101-105	4.1	69
218	. *IEEE Transactions on Aerospace and Electronic Systems*, **2009**, 45, 1040-1051	3.7	69

217	Coherent Pulsed-FDA Radar Receiver Design With Time-Variance Consideration: SINR and CRB Analysis. *IEEE Transactions on Signal Processing*, **2018**, 66, 200-214	4.8	59
216	Frequency Diverse Array Transmit Beampattern Optimization With Genetic Algorithm. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 469-472	3.8	58
215	Decoupled frequency diverse array range–angle-dependent beampattern synthesis using non-linearly increasing frequency offsets. *IET Microwaves, Antennas and Propagation*, **2016**, 10, 880-884	1.6	52
214	Covariance Matrix Reconstruction With Interference Steering Vector and Power Estimation for Robust Adaptive Beamforming. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 8495-8503	6.8	49
213	Moving-Target Tracking by Cognitive RF Stealth Radar Using Frequency Diverse Array Antenna. *IEEE Transactions on Geoscience and Remote Sensing*, **2016**, 54, 3764-3773	8.1	48
212	MIMO SAR imaging: Potential and challenges. *IEEE Aerospace and Electronic Systems Magazine*, **2013**, 28, 18-23	2.4	48
211	Efficient Beamspace-Based Algorithm for Two-Dimensional DOA Estimation of Incoherently Distributed Sources in Massive MIMO Systems. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 11776-11789	6.8	48
210	Direction-of-Arrival Estimation of Coherent Signals via Coprime Array Interpolation. *IEEE Signal Processing Letters*, **2020**, 27, 585-589	3.2	47
209	Waveform-Diversity-Based Millimeter-Wave UAV SAR Remote Sensing. *IEEE Transactions on Geoscience and Remote Sensing*, **2009**, 47, 691-700	8.1	47
208	Physical-Layer Security for Proximal Legitimate User and Eavesdropper: A Frequency Diverse Array Beamforming Approach. *IEEE Transactions on Information Forensics and Security*, **2018**, 13, 671-684	8	43
207	A Technique for Jamming Bi- and Multistatic SAR Systems. *IEEE Geoscience and Remote Sensing Letters*, **2007**, 4, 80-82	4.1	42
206	Hybrid MIMO and Phased-Array Directional Modulation for Physical Layer Security in mmWave Wireless Communications. *IEEE Journal on Selected Areas in Communications*, **2018**, 36, 1383-1396	14.2	41
205	Localization of Mixed Near-Field and Far-Field Sources Using Symmetric Double-Nested Arrays. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 7059-7070	4.9	40
204	Classification and localization of mixed near-field and far-field sources using mixed-order statistics. *Signal Processing*, **2018**, 143, 134-139	4.4	37
203	Adaptive Frequency Offset Selection in Frequency Diverse Array Radar. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 1405-1408	3.8	37
202	Virtual Antenna Array Analysis for MIMO Synthetic Aperture Radars. *International Journal of Antennas and Propagation*, **2012**, 2012, 1-10	1.2	36
201	Robust adaptive beamforming via coprime coarray interpolation. *Signal Processing*, **2020**, 169, 107382	4.4	36
200	Frequency Diverse Array Beampattern Synthesis Using Symmetrical Logarithmic Frequency Offsets for Target Indication. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 3505-3509	4.9	35

199	Impaired Sensor Diagnosis, Beamforming, and DOA Estimation With Difference Co-Array Processing. *IEEE Sensors Journal*, **2015**, 15, 3773-3780	4	35
198	. *IEEE Transactions on Aerospace and Electronic Systems*, **2012**, 48, 3171-3185	3.7	35
197	Transmit Beamspace Design for Multi-Carrier Frequency Diverse Array Sensor. *IEEE Sensors Journal*, **2016**, 16, 5709-5714	4	34
196	Near-Space Vehicle-Borne SAR With Reflector Antenna for High-Resolution and Wide-Swath Remote Sensing. *IEEE Transactions on Geoscience and Remote Sensing*, **2012**, 50, 338-348	8.1	32
195	DM using FDA antenna for secure transmission. *IET Microwaves, Antennas and Propagation*, **2017**, 11, 336-345	1.6	32
194	Range-Angle-Dependent Beamforming by Frequency Diverse Array Antenna. *International Journal of Antennas and Propagation*, **2012**, 2012, 1-10	1.2	31
193	Mixed far-field and near-field source localization based on subarray cross-cumulant. *Signal Processing*, **2018**, 150, 51-56	4.4	30
192	Optimal Frequency Diverse Subarray Design With Cram□-Rao Lower Bound Minimization. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 1188-1191	3.8	29
191	Cognitive Target Tracking via Angle-Range-Doppler Estimation With Transmit Subaperturing FDA Radar. *IEEE Journal on Selected Topics in Signal Processing*, **2018**, 12, 76-89	7.5	29
190	MIMO SAR Chirp Modulation Diversity Waveform Design. *IEEE Geoscience and Remote Sensing Letters*, **2014**, 11, 1644-1648	4.1	29
189	Robust Adaptive Beamforming Against Mutual Coupling Based on Mutual Coupling Coefficients Estimation. *IEEE Transactions on Vehicular Technology*, **2017**, 66, 9124-9133	6.8	29
188	Cognitive frequency diverse array radar with situational awareness. *IET Radar, Sonar and Navigation* , **2016**, 10, 359-369	1.4	29
187	. *IEEE Transactions on Aerospace and Electronic Systems*, **2019**, 55, 3139-3152	3.7	28
186	Directional Modulation Using Frequency Diverse Array For Secure Communications. *Wireless Personal Communications*, **2017**, 95, 2679-2689	1.9	27
185	Impact of frequency increment errors on frequency diverse array MIMO in adaptive beamforming and target localization **2015**, 44, 58-67		26
184	Time-Modulated FD-MIMO Array for Integrated Radar and Communication Systems. *IEEE Antennas and Wireless Propagation Letters*, **2018**, 17, 1015-1019	3.8	26
183	Frequency Diverse Array Radar Cram□-Rao Lower Bounds for Estimating Direction, Range, and Velocity. *International Journal of Antennas and Propagation*, **2014**, 2014, 1-15	1.2	25
182	Large-Area Remote Sensing in High-Altitude High-Speed Platform Using MIMO SAR. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2013**, 6, 2146-2158	4.7	24

181	A Flexible Phased-MIMO Array Antenna with Transmit Beamforming. *International Journal of Antennas and Propagation*, **2012**, 2012, 1-10	1.2	24
180	Retrodirective Frequency Diverse Array Focusing for Wireless Information and Power Transfer. *IEEE Journal on Selected Areas in Communications*, **2019**, 37, 61-73	14.2	24
179	Multi-Feature Fusion and Enhancement Single Shot Detector for Traffic Sign Recognition. *IEEE Access*, **2020**, 8, 38931-38940	3.5	22
178	Localization of Mixed Far-Field and Near-Field Sources via Cumulant Matrix Reconstruction. *IEEE Sensors Journal*, **2018**, 18, 7671-7680	4	22
177	Tensor Decomposition and PCA Jointed Algorithm for Hyperspectral Image Denoising. *IEEE Geoscience and Remote Sensing Letters*, **2016**, 13, 897-901	4.1	22
176	Symmetric Displaced Coprime Array Configurations for Mixed Near- and Far-Field Source Localization. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 465-477	4.9	22
175	Integrated Wireless Sensor Systems via Near-Space and Satellite Platforms: A Review. *IEEE Sensors Journal*, **2014**, 14, 3903-3914	4	21
174	Search-Free DOD, DOA and Range Estimation for Bistatic FDA-MIMO Radar. *IEEE Access*, **2018**, 6, 15431-15445	3.9	20
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172	Nested array receiver with time-delayers for joint target range and angle estimation. *IET Radar, Sonar and Navigation*, **2016**, 10, 1384-1393	1.4	19
171	Two-stage ESPRIT for unambiguous angle and range estimation in FDA-MIMO radar **2019**, 92, 151-165		18
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167	Frequency diverse array and MIMO hybrid radar transmitter design via Cram□Rao lower bound minimisation. *IET Radar, Sonar and Navigation*, **2016**, 10, 1660-1670	1.4	17
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165	Secure directional modulation using frequency diverse array antenna **2017**,		16
164	. *IEEE Sensors Journal*, **2015**, 15, 984-993	4	16

163	Multi-Antenna Synthetic Aperture Radar		16
162	A Lightweight Faster R-CNN for Ship Detection in SAR Images. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 1-5	4.1	16
161	On Physical-Layer Security of FDA Communications Over Rayleigh Fading Channels. *IEEE Transactions on Cognitive Communications and Networking*, **2019**, 5, 476-490	6.6	15
160	Spread Spectrum-Coded OFDM Chirp Waveform Diversity Design. *IEEE Sensors Journal*, **2015**, 15, 5694-5700	4	15
159	Range-Angle-Dependent Beampattern Synthesis With Null Depth Control for Joint Radar Communication. *IEEE Antennas and Wireless Propagation Letters*, **2019**, 18, 1741-1745	3.8	15
158	. *IEEE Aerospace and Electronic Systems Magazine*, **2017**, 32, 46-52	2.4	15
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156	Frequency Diverse Array Beampattern Synthesis With Taylor Windowed Frequency Offsets. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 1901-1905	3.8	15
155	Communication-embedded OFDM chirp waveform for delay-Doppler radar. *IET Radar, Sonar and Navigation*, **2018**, 12, 353-360	1.4	14
154	Carrier Frequency and DOA Estimation of Sub-Nyquist Sampling Multi-Band Sensor Signals. *IEEE Sensors Journal*, **2017**, 17, 7470-7478	4	14
153	Augmented Covariance Matrix Reconstruction for DOA Estimation Using Difference Coarray. *IEEE Transactions on Signal Processing*, **2021**, 1-1	4.8	14
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151	Near-Space Remote Sensing **2011**,		13
150	Adaptive transmit array sidelobe control using FDA-MIMO for tracking in joint radar-communications **2020**, 97, 102619		13
149	Ergodic Interference Alignment for Spectrum Sharing Radar-Communication Systems. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 9785-9796	6.8	12
148	Spatial Smoothing PAST Algorithm for DOA Tracking Using Difference Coarray. *IEEE Signal Processing Letters*, **2019**, 26, 1623-1627	3.2	12
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143	ANALYTICAL MODELING AND SIMULATION OF PHASE NOISE IN BISTATIC SYNTHETIC APERTURE RADAR SYSTEMS. *Fluctuation and Noise Letters*, **2006**, 06, L297-L303	1.2	12
142	Multi-Scene Deception Jamming on SAR Imaging With FDA Antenna. *IEEE Access*, **2020**, 8, 7058-7069	3.5	12
141	A Novel Approach for Spaceborne SAR Scattered-Wave Deception Jamming Using Frequency Diverse Array. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 17, 1568-1572	4.1	12
140	Computational Efficient DOA, DOD, and Doppler Estimation Algorithm for MIMO Radar. *IEEE Signal Processing Letters*, **2019**, 26, 44-48	3.2	12
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134	Time-invariant transmit beampattern synthesis via weight design for FDA radar **2016**,		10
133	Robust adaptive beamforming using a novel signal power estimation algorithm **2019**, 95, 102574		10
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129	Two-dimensional direction estimation of multiple signals using two parallel sparse linear arrays. *Signal Processing*, **2018**, 143, 112-121	4.4	10
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122	Robust DOA Estimation Against Mutual Coupling With Nested Array. *IEEE Signal Processing Letters*, **2020**, 27, 1360-1364	3.2	9
121	An efficient method for angular parameter estimation of incoherently distributed sources via beamspace shift invariance **2018**, 83, 261-270		9
120	Liquid Crystal-Based Wideband Reconfigurable Leaky Wave X-Band Antenna. *IEEE Access*, **2019**, 7, 127320-127326	3.5	8
119	Ambient Backscatter Communication With Frequency Diverse Array for Enhanced Channel Capacity and Detection Performance. *IEEE Sensors Journal*, **2020**, 20, 10876-10885	4	8
118	Two-dimensional imaging of targets by stationary frequency diverse array. *Remote Sensing Letters*, **2013**, 4, 1067-1076	2.3	8
117	General receiver design for FDA radar **2018**,		7
116	Active Frequency Diverse Array Counteracting Interferometry-Based DOA Reconnaissance. *IEEE Antennas and Wireless Propagation Letters*, **2019**, 18, 1922-1925	3.8	7
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114	Adaptive RF stealth beamforming for frequency diverse array radar **2015**,		7
113	Antenna Directing Synchronization for Bistatic Synthetic Aperture Radar Systems. *IEEE Antennas and Wireless Propagation Letters*, **2010**, 9, 307-310	3.8	7
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109	FDA radar with doppler-spreading consideration: Mainlobe clutter suppression for blind-doppler target detection. *Signal Processing*, **2021**, 179, 107773	4.4	7
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106	Large time-bandwidth product OFDM chirp waveform diversity using for MIMO radar. *Multidimensional Systems and Signal Processing*, **2016**, 27, 145-158	1.8	6
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103	Source localization using TDOA and FDOA measurements based on semidefinite programming and reformulation linearization. *Journal of the Franklin Institute*, **2019**, 356, 11817-11838	4	6
102	Transmit beamspace design for FDA-MIMO radar with alternating direction method of multipliers. *Signal Processing*, **2021**, 180, 107832	4.4	6
101	MIMO radar OFDM chirp waveform diversity design with sparse modeling and joint optimization. *Multidimensional Systems and Signal Processing*, **2017**, 28, 237-249	1.8	5
100	Frequency diverse array radar in counteracting mainlobe jamming signals **2017**,		5
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98	Forward-looking SAR imaging with frequency diverse array antenna **2016**,		5
97	Cognitive FDA-MIMO With Channel Uncertainty Information for Target Tracking. *IEEE Transactions on Cognitive Communications and Networking*, **2019**, 5, 963-975	6.6	5
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93	Low-complexity GLRT for FDA radar without training data **2020**, 107, 102861		5
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85	Low-Complexity Transmit Antenna Selection and Beamforming for Large-Scale MIMO Communications. *International Journal of Antennas and Propagation*, **2014**, 2014, 1-11	1.2	4
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66	Robust and Efficient Adaptive Beamforming Using Nested Subarray Principles. *IEEE Access*, **2020**, 8, 4076-4085	3.3	2
65	Sparse reconstruction-based angle-range-polarization-dependent beamforming with polarization sensitive frequency diverse array **2016**,		2
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63	Joint Precoding Spatial and Rotating Symbol Modulation for Physical-Layer Security. *IEEE Communications Letters*, **2019**, 23, 2150-2153	3.8	2
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