Shiwei Ren

List of Publications by Year
in descending order

55	751	840776	610901
papers	citations	11	24
		h-index	g-index

56	56	56	431
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning-Aided Signal Detection for Two-Stage Index Modulated Universal Filtered Multi-Carrier Systems. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 136-154.	7.9	9
2	DOA estimation using sparse array with gain-phase error based on a novel atomic norm. , 2022, 120, 103266.		5
3	Synthetic sparse planar array design for two-dimensional DOA estimation. , 2022, 120, 103268.		1
4	Supplementary coprime array with enhanced DOFs exploiting hole filling strategy based on the difference and sum coarray. , 2022, 121, 103325.		6
5	Coprime Nested Arrays for DOA Estimation: Exploiting the Nesting Property of Coprime Array. IEEE Signal Processing Letters, 2022, 29, 444-448.	3.6	19
6	Hardware Acceleration of MUSIC Algorithm for Sparse Arrays and Uniform Linear Arrays. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 2941-2954.	5.4	6
7	Coprime Transformed Nested Array with Enhanced DOFs and Reduced Mutual Coupling Based on the Difference and Sum Coarray. Electronics (Switzerland), 2022, 11, 823.	3.1	1
8	Resource-Efficient Hardware Implementation of Perspective Transformation Based on Central Projection. Electronics (Switzerland), 2022, 11, 1367.	3.1	1
9	Channel-Wise Attention Mechanism in the 3D Convolutional Network for Lung Nodule Detection. Electronics (Switzerland), 2022, 11, 1600.	3.1	10
10	2D DOA Estimation Exploiting Vertical Synthetic Planar Arrays. IEEE Access, 2021, 9, 3497-3507.	4.2	4
11	DOA estimation based on sum–difference coarray with virtual array interpolation concept. Eurasip Journal on Advances in Signal Processing, 2021, 2021, .	1.7	1
12	Accurate and Lightweight RailNet for Real-Time Rail Line Detection. Electronics (Switzerland), 2021, 10, 2038.	3.1	2
13	Innovative Dual-Binary-Field Architecture for Point Multiplication of Elliptic Curve Cryptography. IEEE Access, 2021, 9, 12405-12419.	4.2	10
14	Underdetermined DOA Estimation of Non-Circular Sources Exploiting Generalized qth-Order Difference and Sum Co-Array Concept. , 2021, , .		0
15	Label Interpolation Based Deep Learning for Direction of Arrival Estimation. , 2021, , .		0
16	Implementation of Adaptive Airborne SAR Motion Compensation Algorithm based on FPGA. , 2021, , .		0
17	Near-Field Noncircular Sources Localization Based on Fourth-Order Cumulant. IEEE Access, 2020, 8, 120575-120585.	4.2	6
18	One-side Extended Nested Array for Degree of Freedom Enhancement. , 2020, , .		1

#	Article	IF	Citations
19	Generalized L-Shaped Array Based on the Difference and Sum Coarray Concept. IEEE Access, 2020, 8, 140456-140466.	4.2	3
20	Extended Transformed Nested Arrays for DOA Estimation of Non-Circular Sources. IEEE Access, 2020, 8, 162350-162362.	4.2	11
21	Accurate and Efficient LIF-Nets for 3D Detection and Recognition. IEEE Access, 2020, 8, 98562-98571.	4.2	7
22	Extended Nested Arrays for Consecutive Virtual Aperture Enhancement. IEEE Signal Processing Letters, 2020, 27, 575-579.	3.6	46
23	Improved 2D Coprime Array Structure with the Difference and Sum Coarray Concept. Electronics (Switzerland), 2020, 9, 273.	3.1	3
24	Speed-Oriented Architecture for Binary Field Point Multiplication on Elliptic Curves. IEEE Access, 2019, 7, 32048-32060.	4.2	16
25	Channel Modelling and Estimation for Shallow Underwater Acoustic OFDM Communication via Simulation Platform. Applied Sciences (Switzerland), 2019, 9, 447.	2.5	15
26	Superpixel segmentation and machine learning classification algorithm for cloud detection in remote‐sensing images. Journal of Engineering, 2019, 2019, 6675-6679.	1.1	4
27	Modified reference window for two‐dimensional CFAR in radar target detection. Journal of Engineering, 2019, 2019, 7924-7927.	1.1	6
28	Periodically Nonuniform Sampling and Reconstruction of Signals in Function Spaces Associated With the Linear Canonical Transform. IEEE Communications Letters, 2018, 22, 756-759.	4.1	8
29	Unified coprime array with multi-period subarrays for direction-of-arrival estimation. , 2018, 74, 30-42.		37
30	Automatic Retinal Blood Vessel Segmentation Based on Multi-Level Convolutional Neural Network. , 2018, , .		10
31	Discrete linear canonical wavelet transform and its applications. Eurasip Journal on Advances in Signal Processing, 2018, 2018, .	1.7	15
32	Generalized Design Approach for Fourth-Order Difference Co-Array. , 2018, , .		5
33	Augmented L-Shaped Nested Array Based on the Fourth-Order Difference Co-Array Concept. , 2018, , .		3
34	A Novel Nested Configuration Based on the Difference and Sum Co-Array Concept. Sensors, 2018, 18, 2988.	3.8	25
35	Sampling and Reconstruction of Multiband Signals in Multiresolution Subspaces Associated with the Fractional Wavelet Transform. IEEE Signal Processing Letters, 2018, , 1-1.	3.6	3
36	Generalized L-Shaped Nested Array Concept Based on the Fourth-Order Difference Co-Array. Sensors, 2018, 18, 2482.	3.8	2

#	Article	IF	Citations
37	Periodically nonuniform sampling and averaging of signals in multiresolution subspaces associated with the fractional wavelet transform. , 2018, 80, 1-11.		5
38	Extensions of Open Box Array With Reduced Mutual Coupling. IEEE Sensors Journal, 2018, 18, 5475-5484.	4.7	11
39	A Novel Noncircular MUSIC Algorithm Based on the Concept of the Difference and Sum Coarray. Sensors, 2018, 18, 344.	3.8	35
40	DOA Estimation With Enhanced DOFs by Exploiting Cyclostationarity. IEEE Transactions on Signal Processing, 2017, 65, 1486-1496.	5.3	12
41	DOA estimation based on multi-resolution difference co-array perspective. , 2017, 62, 187-196.		15
42	Augmented Nested Arrays With Enhanced DOF and Reduced Mutual Coupling. IEEE Transactions on Signal Processing, 2017, 65, 5549-5563.	5.3	246
43	Internet of things and big data analytics for smart oil field malfunction diagnosis. , 2017, , .		7
44	DOA estimation based on the difference and sum coarray for coprime arrays. , 2017, 69, 22-31.		63
45	FPGA implementation of covariance lattice LPC method using burg algorithm. , 2017, , .		0
46	DOA estimation exploiting extended co-array of coprime array. , 2016, , .		3
47	DOA estimation exploiting unified coprime array with multi-period subarrays. , 2016, , .		5
48	A robust underwater acoustic communication approach for pipeline transmission. , 2016, , .		1
49	Generalized design method for the difference co-array of the sum co-array. , 2016, , .		5
50	Design of a dynamically reconfigurable arithmetic unit for matrix algorithms. , 2015, , .		0
51	An Efficient Algorithm for Direction Finding against Unknown Mutual Coupling. Sensors, 2014, 14, 20064-20077.	3.8	11
52	2-D Unitary ESPRIT-Like Direction-of-Arrival (DOA) Estimation for Coherent Signals with a Uniform Rectangular Array. Sensors, 2013, 13, 4272-4288.	3.8	29
53	Range and Doppler resolution of the modified narrowband ambiguity function for Costas waveforms. , 2012, , .		0
54	Novel gray-scale watermarking algorithm based on QFT. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
55	An Approach for Image Denoising Based on Edge Soft-Judgement. , 2006, , .		2