

Yi Jiang

List of Publications by Year in descending order

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82
papers

2,099
citations

430874

18
h-index

243625

44
g-index

82
all docs

82
docs citations

82
times ranked

1456
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Analysis of ZF and MMSE Equalizers for MIMO Systems: An In-Depth Study of the High SNR Regime. IEEE Transactions on Information Theory, 2011, 57, 2008-2026.	2.4	462
2	Joint transceiver design for MIMO communications using geometric mean decomposition. IEEE Transactions on Signal Processing, 2005, 53, 3791-3803.	5.3	279
3	MIMO Transceiver Design via Majorization Theory. Foundations and Trends in Communications and Information Theory, 2007, 3, 331-551.	3.1	233
4	Uniform channel decomposition for MIMO communications. IEEE Transactions on Signal Processing, 2005, 53, 4283-4294.	5.3	200
5	The geometric mean decomposition. Linear Algebra and Its Applications, 2005, 396, 373-384.	0.9	116
6	The generalized triangular decomposition. Mathematics of Computation, 2007, 77, 1037-1057.	2.1	78
7	Array Signal Processing in the Known Waveform and Steering Vector Case. IEEE Transactions on Signal Processing, 2004, 52, 23-35.	5.3	64
8	Scale-up of BDD anode system for electrochemical oxidation of phenol simulated wastewater in continuous mode. Journal of Hazardous Materials, 2010, 184, 493-498.	12.4	48
9	Effect of nitro substituent on electrochemical oxidation of phenols at boron-doped diamond anodes. Chemosphere, 2010, 78, 1093-1099.	8.2	40
10	Tunable Channel Decomposition for MIMO Communications Using Channel State Information. IEEE Transactions on Signal Processing, 2006, 54, 4405-4418.	5.3	37
11	Asymptotic performance analysis of V-BLAST. , 2005, , .		33
12	The RF-chain limited mimo system- part I: optimum diversity-multiplexing tradeoff. IEEE Transactions on Wireless Communications, 2009, 8, 5238-5247.	9.2	29
13	Spatial Multiplexing Architectures with Jointly Designed Rate-Tailoring and Ordered BLAST Decoding - Part I: Diversity-Multiplexing Tradeoff Analysis. IEEE Transactions on Wireless Communications, 2008, 7, 3252-3261.	9.2	28
14	Diastaphenazine, a new dimeric phenazine from an endophytic Streptomyces diastaticus subsp. ardesiacus. Journal of Antibiotics, 2015, 68, 210-212.	2.0	27
15	Effect of annealing treatment on the structure and properties of polyurethane/multiwalled carbon nanotube nanocomposites. Journal of Applied Polymer Science, 2012, 126, 845-852.	2.6	25
16	Calibration of Phase Shifter Network for Hybrid Beamforming in mmWave Massive MIMO Systems. IEEE Transactions on Signal Processing, 2020, 68, 2302-2315.	5.3	23
17	Novel electrochemi-/photo-luminescence of Ag ₃ Cu ₅ heterometallic alkynyl clusters. Dalton Transactions, 2015, 44, 3941-3944.	3.3	21
18	Omnidirectional Precoding for Massive MIMO With Uniform Rectangular Array—Part I: Complementary Codes-Based Schemes. IEEE Transactions on Signal Processing, 2019, 67, 4761-4771.	5.3	21

#	ARTICLE	IF	CITATIONS
19	On MIMO channel capacity: an intuitive discussion. IEEE Signal Processing Magazine, 2005, 22, 83-84.	5.6	20
20	Functional membranes prepared by layer-by-layer assembly and its metal ions adsorption property. Polymers for Advanced Technologies, 2011, 22, 2509-2516.	3.2	18
21	Construction of Golay Complementary Matrices and Its Applications to MIMO Omnidirectional Transmission. IEEE Transactions on Signal Processing, 2021, 69, 2100-2113.	5.3	18
22	Precoder Optimization for Nonlinear MIMO Transceiver Based on Arbitrary Cost Function. , 2007, , .		15
23	Omnidirectional Precoding for Massive MIMO With Uniform Rectangular Array”Part II: Numerical Optimization Based Schemes. IEEE Transactions on Signal Processing, 2019, 67, 4772-4781.	5.3	15
24	Extended Uniform Channel Decomposition for MIMO Communications with Intersymbol Interference. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	14
25	Diversity-Multiplexing Tradeoff of MIMO Systems with Antenna Selection. , 2007, , .		13
26	Downlink Transmit Power Calibration for Enterprise Femtocells. , 2011, , .		11
27	A Practical Approach to Joint Timing, Frequency Synchronization and Channel Estimation for Concurrent Transmissions in a MANET. IEEE Transactions on Wireless Communications, 2017, 16, 3461-3475.	9.2	11
28	Radio Frequency Interference Suppression for Landmine Detection by Quadrupole Resonance. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	10
29	Crystallographic determination of stereochemistry of biologically active 2,3-dibromo-7-epi-10-deacetylcephalomannine. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 839-842.	2.2	9
30	A Novel Spatial Multiplexing Architecture with Finite Rate Feedback. , 2006, , .		9
31	Preparation and properties of polyurethane/multiwalled carbon nanotube nanocomposites by a spray drying process. Journal of Applied Polymer Science, 2012, 126, 789-795.	2.6	8
32	Hybrid Beamforming for Massive MIMO: A Unified Solution for Both Phase Shifter and Switch Networks. , 2018, , .		8
33	Lithium-plasmon-based low-powered dynamic color display. National Science Review, 2023, 10, .	9.5	8
34	Spatial Multiplexing Architectures with Jointly Designed Rate-Tailoring and Ordered BLAST Decoding Part-II: A Practical Method for Rate and Power Allocation. IEEE Transactions on Wireless Communications, 2008, 7, 3626-3271.	9.2	7
35	Mobility and Capacity Offload for 3G UMTS Femtocells. , 2009, , .		7
36	Transmit beamforming for MIMO multicast channels. , 2012, , .		7

#	ARTICLE	IF	CITATIONS
37	Distributed Learning for MIMO Relay Networks. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 343-357.	10.8	7
38	Efficient Closed-Loop Schemes for MIMO-OFDM-Based WLANs. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1.	1.7	6
39	Ellipse Expanding Method for Minimum Distance-Based MIMO Precoder. IEEE Communications Letters, 2012, 16, 490-493.	4.1	6
40	Autocorrelation Complementary Matrices. , 2019, , .		6
41	Hybrid Interference Mitigation Using Analog Prewhitening. IEEE Transactions on Wireless Communications, 2021, 20, 6595-6605.	9.2	6
42	Phase Rotations of SVD-Based Precoders in MIMO-OFDM for Improved Channel Estimation. IEEE Wireless Communications Letters, 2021, 10, 1805-1809.	5.0	6
43	Optimal Zero-Forcing Hybrid Downlink Precoding for Sum-Rate Maximization. IEEE Wireless Communications Letters, 2022, 11, 463-467.	5.0	6
44	Joint Estimation of Velocity, Angle-of-Arrival and Range (JEVAR) Using a Conjugate Pair of Zadoff-Chu Sequences. IEEE Transactions on Signal Processing, 2021, 69, 6009-6022.	5.3	6
45	Iterative Computation of FIR MIMO MMSE-DFE With Flexible Complexity-Performance Tradeoff. IEEE Transactions on Signal Processing, 2013, 61, 2394-2404.	5.3	5
46	Semidefinite programming based omnidirectional beamforming for massive MIMO. , 2017, , .		5
47	Comparative genomics analysis of Raoultella planticola S25 isolated from duck in China, with florfenicol resistance. Comparative Immunology, Microbiology and Infectious Diseases, 2020, 68, 101398.	1.6	5
48	Hybrid Beamforming Optimization for DOA Estimation Based on the CRB Analysis. IEEE Signal Processing Letters, 2021, 28, 1490-1494.	3.6	5
49	Over-the-Air Calibration of Phase Shifter Network for Hybrid MIMO Systems. IEEE Transactions on Signal Processing, 2022, 70, 3456-3467.	5.3	5
50	Optimum beamforming for MIMO multicasting. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.7	4
51	PHY and MAC Design for Distributed Tx-Rx beamforming in Mobile Ad Hoc Networks. , 2014, , .		4
52	Omnidirectional Beamforming Based on Complete Complementary Codes for Uniform Rectangular Array. , 2018, , .		4
53	Hybrid Precoding for Massive MIMO Systems Using Partially-Connected Phase Shifter Network. , 2019, , .		4
54	Clock Synchronization in Wireless Networks Using Matrix Completion-Based Maximum Likelihood Estimation. IEEE Transactions on Wireless Communications, 2020, 19, 8220-8231.	9.2	4

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55	Calibration of Phase Shifter Network for Hybrid Beamforming in mmWave Massive MIMO Systems. , 2019, , .		3
56	Tx-Rx Reciprocity Calibration for Hybrid Massive MIMO Systems. IEEE Wireless Communications Letters, 2022, 11, 431-435.	5.0	3
57	A Distributed MIMO Relay Scheme Inspired by Backpropagation Algorithm. , 2021, , .		3
58	Three-Dimensional Cooperative Positioning for Internet of Things Provenance. IEEE Internet of Things Journal, 2022, 9, 19945-19958.	8.7	3
59	Efficient Closed-Loop Schemes for MIMO WLAN. , 0, , .		2
60	Decision Feedback Based Transceiver Optimization for MIMO Intersymbol Interference Channels. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	2
61	A unified approach to the design of IIR and FIR notch filters. , 2016, , .		2
62	Omnidirectional Transmit Beamforming for Massive MIMO with Uniform Rectangular Array. , 2018, , .		2
63	Neural Network-Assisted Robust Symbol Detection Under Intersymbol Interference. , 2021, , .		2
64	An Efficient Precoding Algorithm for Reconfigurable Intelligent Surface-Based MIMO Communications. , 2021, , .		2
65	Black-Box Adversarial Attacks against Audio Forensics Models. Security and Communication Networks, 2022, 2022, 1-8.	1.5	2
66	Array signal processing for QR. , 0, , .		1
67	Improving Spectral Efficiency of MIMO Ad Hoc Network via Greedy MCS Packing. , 2014, , .		1
68	Initial acquisition for MANET with simultaneous transmissions. , 2015, , .		1
69	A Concurrent CSMA MAC protocol for Mobile Ad Hoc Networks using beamnulling. , 2015, , .		1
70	Efficient RIS Channel Estimation and Projection Using Zadoff-Chu Sequences. , 2021, , .		1
71	A Nonlinear Relay Scheme Resilient to Interference with Unknown CSI. , 2020, , .		1
72	Novel Recommendation-Based Approach for Multidisciplinary Development of Future Universities. Sustainability, 2022, 14, 5881.	3.2	1

#	ARTICLE	IF	CITATIONS
73	Preparation and evaluation of new brominated paclitaxel analogues. Journal of Asian Natural Products Research, 2005, 7, 231-236.	1.4	0
74	Capacity-approaching transceiver design for asymmetric UWB links. , 0, , .		0
75	Diversity-Multiplexing Tradeoff of GMD/UCD with Antenna Selection. , 2006, , .		0
76	Notched spectrum: from probing waveforms to receive filters. , 2013, , .		0
77	New Cyclic Depsipeptide from an Endophytic Actinomycete. Chemistry of Natural Compounds, 2015, 51, 926-928.	0.8	0
78	Maximum likelihood network localization using range estimation and GPS measurements. , 2017, , .		0
79	Blind Channel Subspace Estimation for Massive MIMO with Hybrid Beamforming. , 2019, , .		0
80	Online Calibration of Phase Shifter Network for mmWave Massive MIMO Systems in Multipath Channels. , 2019, , .		0
81	A Novel Scheme for Joint Estimation of Velocity, Angle-of-arrival and Range in Multipath Environment. , 2021, , .		0
82	Over-The-Air Calibration of Phase Shifter Network for Hybrid MIMO Systems. , 2021, , .		0