Hamid Reza Bahrami

List of Publications by Year
in descending order

68	769	13	25
papers	citations	h-index	g-index

687363

580821

68	68	68	798
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	A Low Complexity and Secure Demand Response Technique for Peak Load Reduction. IEEE Transactions on Smart Grid, 2019, 10, 3259-3268.	9.0	83
2	Space Modulation With CSI: Constellation Design and Performance Evaluation. IEEE Transactions on Vehicular Technology, 2013, 62, 1623-1634.	6.3	77
3	Iterative Condition Monitoring and Fault Diagnosis Scheme of Electric Motor for Harsh Industrial Application. IEEE Transactions on Industrial Electronics, 2015, 62, 1760-1769.	7.9	65
4	On the Performance of Spatial Modulation: Optimal Constellation Breakdown. IEEE Transactions on Communications, 2014, 62, 144-157.	7.8	55
5	Precoder Design Based on Correlation Matrices for MIMO Systems. IEEE Transactions on Wireless Communications, 2006, 5, 3579-3587.	9.2	53
6	Compressive Sensing for Feedback Reduction in MIMO Broadcast Channels. IEEE Transactions on Communications, 2014, 62, 3209-3222.	7.8	41
7	Grid-Specific Co-Optimization of Incentive for Generation Planning in Power Systems With Renewable Energy Sources. IEEE Transactions on Sustainable Energy, 2020, 11, 947-957.	8.8	29
8	On MRC-Based Detection of Spatial Modulation. IEEE Transactions on Wireless Communications, 2016, 15, 3019-3029.	9.2	26
9	Performance Analysis of Spatial Modulation in Overlay Cognitive Radio Communications. IEEE Transactions on Communications, 2016, 64, 3220-3232.	7.8	22
10	Constellation design for spatial modulation. , 2015, , .		18
11	Adaptive Antenna Subset Selection and Constellation Breakdown for Spatial Modulation. IEEE Communications Letters, 2014, 18, 1649-1652.	4.1	14
12	A Decentralized Three-Level Optimization Scheme for Optimal Planning of a Prosumer Nano-Grid. IEEE Transactions on Power Systems, 2020, 35, 3421-3432.	6.5	14
13	On Achievable Rate and Ergodic Capacity of NAF Multi-Relay Networks with CSI. IEEE Transactions on Communications, 2014, 62, 1490-1502.	7.8	13
14	Iterative Source and Relay Precoder Design for Non-Regenerative MIMO Cognitive Relay Systems. IEEE Transactions on Communications, 2015, 63, 3497-3510.	7.8	13
15	Opportunistic Relay Selection With Limited Feedback. IEEE Transactions on Communications, 2015, 63, 2885-2898.	7.8	13
16	Layered Spatial Modulation for Multiuser Communications. IEEE Transactions on Wireless Communications, 2016, 15, 7143-7159.	9.2	13
17	Spatial Sensing and Cognitive Radio Communication in the Presence of a K-User Interference Primary Network. IEEE Journal on Selected Areas in Communications, 2015, 33, 741-754.	14.0	12
18	Opportunistic relay selection in multicast relay networks using compressive sensing. , 2014, , .		11

#	Article	IF	Citations
19	Adaptive Space Modulation With Partial CSIT in Spatially Correlated Fading Channels. IEEE Transactions on Vehicular Technology, 2014, 63, 3184-3195.	6.3	10
20	Relay Selection and Distributed BLAST in Multi-Antenna Cooperative Networks. , 2007, , .		9
21	MIMO Precoder Designs for Frequency-Selective Fading Channels Using Spatial and Path Correlation. IEEE Transactions on Vehicular Technology, 2008, 57, 3441-3452.	6.3	9
22	Distributed BLAST with relay selection for multiâ€antenna AF relaying. International Journal of Communication Systems, 2011, 24, 473-482.	2.5	9
23	Câ€"FSCV: Compressive Fast-Scan Cyclic Voltammetry for Brain Dopamine Recording. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 51-59.	4.9	9
24	On the Coexistence of Nano Networks: Sensing Techniques for Molecular Communications. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 209-223.	2.1	8
25	Large-Scale Analysis of Physical-Layer Security in Multi-User Wireless Networks. IEEE Transactions on Communications, 2018, 66, 6450-6462.	7.8	8
26	An Analytic Synthesis Method for Two-Element Biomimetic Antenna Arrays. IEEE Transactions on Antennas and Propagation, 2020, 68, 2797-2809.	5.1	8
27	Relay and antenna selection in multi-antenna amplify-and-forward (AF) systems with partial channel state information. , 2012, , .		7
28	On the Feedback Reduction of Multiuser Relay Networks Using Compressive Sensing. IEEE Transactions on Communications, 2016, 64, 1437-1450.	7.8	7
29	A Capacity Achieving Precoding Scheme Based on Partial Channel Information for Broadcast MIMO Systems. , 2007, , .		6
30	Precoder Design for Non-Regenerative MIMO Relay Cognitive Radio Systems. , 2013, , .		6
31	On the Distribution of Norm of Vector Projection and Rejection of Two Complex Normal Random Vectors. Mathematical Problems in Engineering, 2015, 2015, 1-4.	1.1	6
32	Clustered linear precoding for downlink network MIMO systems with partial CSI. Wireless Communications and Mobile Computing, 2016, 16, 2340-2355.	1.2	6
33	RF Impairments Compensation and Channel Estimation in MIMO-OFDM Systems. , 2011, , .		5
34	Relay selection and power allocation in amplify-and-forward cognitive radio systems. , 2013, , .		5
35	Precoding and Symbol Grouping for NAF Relaying in BICM Systems. IEEE Transactions on Vehicular Technology, 2013, 62, 2607-2617.	6.3	5
36	Clustered linear precoding for downlink network MIMO systems with partial CSI. , 2013, , .		5

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37	Optimal Distributed Beamforming for Cooperative Cognitive Radio Networks. , 2013, , .		5
38	Clustered precoding for coordinated multi-cell systems based on signal-to-leakage ratios. , 2014, , .		5
39	An Encryption-Aware PHY Security Framework for 4-Node Gaussian Wiretap Channels With Joint Power Constraint. IEEE Transactions on Communications, 2020, 68, 7837-7850.	7.8	5
40	A Low-Complexity Method to Compensate IQ-Imbalance and Phase Noise in MIMO-OFDM Systems. , 2011, , .		4
41	The iterative shrinkage method for impulsive noise reduction from images. Measurement Science and Technology, 2012, 23, 114009.	2.6	4
42	Space–Time Trellis Codes for Two-Way Relay MIMO Channels With Single-Antenna Relay Nodes. IEEE Transactions on Vehicular Technology, 2013, 62, 4040-4045.	6.3	4
43	Blind structural similarity estimation of digital images using quantized discrete cosine transform coefficients. Measurement Science and Technology, 2013, 24, 074019.	2.6	4
44	Energy efficiency of channels under additive Gaussian-mixture noise in the low-power regime. , 2016, , .		4
45	Large scale analysis of physical layer security in multi-user wireless networks. , 2017, , .		4
46	Precoder and Decoder Design for SNR Maximization in Amplify-and-Forward (AF) MIMO Relay Systems. , 2011, , .		3
47	On the efficiency and privacy of smart grids neighborhood area networks. , 2013, , .		3
48	A Novel Low-Complexity Adaptive Bit Mapping Scheme for Spatial Modulation. IEEE Transactions on Vehicular Technology, 2018, 67, 3674-3678.	6.3	3
49	Trellis-Coded Space–Time Shift Keying. IEEE Transactions on Communications, 2018, 66, 5888-5901.	7.8	3
50	WLC01-4: MIMO Precoder Design Based on Spatial and Path Correlation Information for Frequency-Selective Channels. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	2
51	Null Space Precoding for Downlink Network MIMO Systems with No CSI. , 2011, , .		2
52	Optimal power sharing strategies in NAF multiple-relay networks with CSI. , 2013, , .		2
53	On Achievable Rate and Ergodic Capacity of OAF Multiple-Relay Networks with CSI. , 2013, , .		2
54	Precoder design and node power allocation in multi-antenna amplify-and-forward (AF) relay systems. , 2013, , .		2

#	Article	IF	Citations
55	Downlink scheduling using non-orthogonal uplink beams. , 2014, , .		2
56	MIMO Precoding Structures for Frequency-Flat and Frequency-Selective Fading Channels. , 2006, , .		1
57	Eigenstructures of MIMO Fading Channel Correlation Matrices and Optimum Linear Precoding Designs for Maximum Ergodic Capacity. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.7	1
58	Opportunistic multiuser scheduling algorithm for multi-carrier wireless data systems. Physical Communication, 2011, 4, 83-97.	2.1	1
59	Energy production cost and PAR minimization in multi-source power networks. , 2012, , .		1
60	Compressed Principal Component Regression (C–PCR) Algorithm and FPGA Validation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3512-3516.	3.0	1
61	An Analytical Propagation Model for Diffusion-Based Molecular Communication Systems. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2022, 8, 72-81.	2.1	1
62	Space-Time Codes for Amplify-and-Forward (AF) Relay Channels: Performance and Code Design. , 2011, , .		0
63	Exploiting Multiuser Diversity in OFDMA Systems with Limited Feedback. , 2011, , .		0
64	Antenna-array 2D-IIR digital filters for carrier-modulated frequency-agile and cognitive wireless systems. , 2011, , .		0
65	A joint polling and contention based opportunistic scheduling algorithm with fairness constraint. , 2012, , .		0
66	MRC-Based Relay Precoding for Cooperative AF Multi-Antenna Relay Networks with CSI. , 2014, , .		0
67	Block compressed sensing for feedback reduction in relay-aided multiuser full duplex networks. , 2016, , .		0
68	Super Soldier Program: A Numerical Optimization Approach for Optimal Planning and Utilization of Distributed Generation and Storage in Power Grids. , 2019, , .		0