

Martin Haardt

List of Publications by Year in descending order

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289
papers

9,599
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109137

35
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53109

85
g-index

289
all docs

289
docs citations

289
times ranked

4644
citing authors

#	ARTICLE	IF	CITATIONS
1	Zero-Forcing Methods for Downlink Spatial Multiplexing in Multiuser MIMO Channels. IEEE Transactions on Signal Processing, 2004, 52, 461-471.	3.2	2,566
2	An introduction to the multi-user MIMO downlink. , 2004, 42, 60-67.		691
3	Unitary ESPRIT: how to obtain increased estimation accuracy with a reduced computational burden. IEEE Transactions on Signal Processing, 1995, 43, 1232-1242.	3.2	502
4	Closed-form 2-D angle estimation with rectangular arrays in element space or beamspace via unitary ESPRIT. IEEE Transactions on Signal Processing, 1996, 44, 316-328.	3.2	449
5	Higher-Order SVD-Based Subspace Estimation to Improve the Parameter Estimation Accuracy in Multidimensional Harmonic Retrieval Problems. IEEE Transactions on Signal Processing, 2008, 56, 3198-3213.	3.2	347
6	Generalized Design of Multi-User MIMO Precoding Matrices. IEEE Transactions on Wireless Communications, 2008, 7, 953-961.	6.1	246
7	Smart antenna technologies for future wireless systems: trends and challenges. , 2004, 42, 90-97.		218
8	Unitary root-MUSIC with a real-valued eigendecomposition: a theoretical and experimental performance study. IEEE Transactions on Signal Processing, 2000, 48, 1306-1314.	3.2	196
9	Simultaneous Schur decomposition of several nonsymmetric matrices to achieve automatic pairing in multidimensional harmonic retrieval problems. IEEE Transactions on Signal Processing, 1998, 46, 161-169.	3.2	186
10	C-terminal Truncations Destabilize the Cystic Fibrosis Transmembrane Conductance Regulator without Impairing Its Biogenesis. Journal of Biological Chemistry, 1999, 274, 21873-21877.	1.6	175
11	EEG extended source localization: Tensor-based vs. conventional methods. NeuroImage, 2014, 96, 143-157.	2.1	168
12	The TD-CDMA based UTRA TDD mode. IEEE Journal on Selected Areas in Communications, 2000, 18, 1375-1385.	9.7	140
13	Comparative study of joint-detection techniques for TD-CDMA based mobile radio systems. IEEE Journal on Selected Areas in Communications, 2001, 19, 1461-1475.	9.7	130
14	Tensor-Based Channel Estimation and Iterative Refinements for Two-Way Relaying With Multiple Antennas and Spatial Reuse. IEEE Transactions on Signal Processing, 2010, 58, 5720-5735.	3.2	130
15	Generalized Design of Low-Complexity Block Diagonalization Type Precoding Algorithms for Multiuser MIMO Systems. IEEE Transactions on Communications, 2013, 61, 4232-4242.	4.9	98
16	MIMO Signal Processing in Offset-QAM Based Filter Bank Multicarrier Systems. IEEE Transactions on Signal Processing, 2016, 64, 5733-5762.	3.2	96
17	CooH-Terminal Truncations Promote Proteasome-Dependent Degradation of Mature Cystic Fibrosis Transmembrane Conductance Regulator from Post-Golgi Compartments. Journal of Cell Biology, 2001, 153, 957-970.	2.3	78
18	Analytical Performance Assessment of Multi-Dimensional Matrix- and Tensor-Based ESPRIT-Type Algorithms. IEEE Transactions on Signal Processing, 2014, 62, 2611-2625.	3.2	78

#	ARTICLE	IF	CITATIONS
19	Algebraic Norm-Maximizing (ANOMAX) Transmit Strategy for Two-Way Relaying With MIMO Amplify and Forward Relays. <i>IEEE Signal Processing Letters</i> , 2009, 16, 909-912.	2.1	73
20	The Role of the C Terminus and Na ⁺ /H ⁺ Exchanger Regulatory Factor in the Functional Expression of Cystic Fibrosis Transmembrane Conductance Regulator in Nonpolarized Cells and Epithelia. <i>Journal of Biological Chemistry</i> , 2003, 278, 22079-22089.	1.6	69
21	R-dimensional esprit-type algorithms for strictly second-order non-circular sources and their performance analysis. <i>IEEE Transactions on Signal Processing</i> , 2014, 62, 4824-4838.	3.2	68
22	Coupled Coarray Tensor CPD for DOA Estimation With Coprime L-Shaped Array. <i>IEEE Signal Processing Letters</i> , 2021, 28, 1545-1549.	2.1	66
23	Smart antennas for combined DOA and joint channel estimation in time-slotted CDMA mobile radio systems with joint detection. <i>IEEE Transactions on Vehicular Technology</i> , 2000, 49, 293-306.	3.9	65
24	TRICE: A Channel Estimation Framework for RIS-Aided Millimeter-Wave MIMO Systems. <i>IEEE Signal Processing Letters</i> , 2021, 28, 513-517.	2.1	65
25	Sum-Rate Maximization in Two-Way AF MIMO Relaying: Polynomial Time Solutions to a Class of DC Programming Problems. <i>IEEE Transactions on Signal Processing</i> , 2012, 60, 5478-5493.	3.2	64
26	Blind Adaptive Constrained Reduced-Rank Parameter Estimation Based on Constant Modulus Design for CDMA Interference Suppression. <i>IEEE Transactions on Signal Processing</i> , 2008, 56, 2470-2482.	3.2	63
27	Low-Complexity Space-Time Frequency Scheduling for MIMO Systems With SDMA. <i>IEEE Transactions on Vehicular Technology</i> , 2007, 56, 2775-2784.	3.9	59
28	A semi-algebraic framework for approximate CP decompositions via simultaneous matrix diagonalizations (SECSI). <i>Signal Processing</i> , 2013, 93, 2722-2738.	2.1	58
29	Linear MMSE Multi-User MIMO Downlink Precoding for Users with Multiple Antennas. , 2006, , .		57
30	Multi-Branch Tomlinson-Harashima Precoding Design for MU-MIMO Systems: Theory and Algorithms. <i>IEEE Transactions on Communications</i> , 2014, 62, 939-951.	4.9	56
31	Multi-dimensional model order selection. <i>Eurasip Journal on Advances in Signal Processing</i> , 2011, 2011, .	1.0	53
32	Model Order Selection for Short Data: An Exponential Fitting Test (EFT). <i>Eurasip Journal on Advances in Signal Processing</i> , 2006, 2007, 1.	1.0	50
33	Single Snapshot Spatial Smoothing With Improved Effective Array Aperture. <i>IEEE Signal Processing Letters</i> , 2009, 16, 505-508.	2.1	50
34	Performance Analysis of Multi-Dimensional ESPRIT-Type Algorithms for Arbitrary and Strictly Non-Circular Sources With Spatial Smoothing. <i>IEEE Transactions on Signal Processing</i> , 2017, 65, 2262-2276.	3.2	42
35	Tensor-based channel estimation (TENGE) for two-way relaying with multiple antennas and spatial reuse. , 2009, , .		39
36	Tensor-based algorithms for learning multidimensional separable dictionaries. , 2014, , .		38

#	ARTICLE	IF	CITATIONS
37	Subspace Methods and Exploitation of Special Array Structures. Academic Press Library in Signal Processing, 2014, 3, 651-717.	0.8	38
38	Deterministic Cram�r-Rao Bound for Strictly Non-Circular Sources and Analytical Analysis of the Achievable Gains. IEEE Transactions on Signal Processing, 2016, 64, 4417-4431.	3.2	38
39	Structured least squares to improve the performance of ESPRIT-type algorithms. IEEE Transactions on Signal Processing, 1997, 45, 792-799.	3.2	37
40	Performance analysis of closed-form, ESPRIT based 2-D angle estimator for rectangular arrays. IEEE Signal Processing Letters, 1996, 3, 124-126.	2.1	36
41	Successive optimization Tomlinson-Harashima precoding (SO THP) for multi-user MIMO systems. , 0, , .		36
42	Generalized Least Squares for ESPRIT-Type Direction of Arrival Estimation. IEEE Signal Processing Letters, 2017, 24, 1681-1685.	2.1	35
43	Transmit beamforming aided amplify-and-forward MIMO full-duplex relaying with limited dynamic range. Signal Processing, 2016, 127, 266-281.	2.1	33
44	Title is missing!. Wireless Personal Communications, 1999, 11, 109-129.	1.8	32
45	Multi-way space-time-wave-vector analysis for EEG source separation. Signal Processing, 2012, 92, 1021-1031.	2.1	32
46	Blind Adaptive Constrained Constant-Modulus Reduced-Rank Interference Suppression Algorithms Based on Interpolation and Switched Decimation. IEEE Transactions on Signal Processing, 2011, 59, 681-695.	3.2	30
47	Adaptive Widely Linear Reduced-Rank Beamforming Based on Joint Iterative Optimization. IEEE Signal Processing Letters, 2014, 21, 265-269.	2.1	30
48	Overview and comparison of on-ground and on-board beamforming techniques in mobile satellite service applications. International Journal of Satellite Communications and Networking, 2014, 32, 291-308.	1.2	29
49	A Novel Tree-Based Scheduling Algorithm For The Downlink Of Multi-User MIMO Systems With ZF Beamforming. , 0, , .		28
50	Energy Efficient Two-Way Non-Regenerative Relaying for Relays with Multiple Antennas. IEEE Signal Processing Letters, 2015, 22, 1079-1083.	2.1	28
51	The future of wireless communications beyond the third generation. Computer Networks, 2001, 37, 83-92.	3.2	27
52	Multi-dimensional space-time-frequency component analysis of event related EEG data using closed-form PARAFAC. , 2009, , .		27
53	Enhanced Model Order Estimation using Higher-Order Arrays. , 2007, , .		25
54	A closed-form solution for multilinear PARAFAC decompositions. , 2008, , .		25

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55	A closed-form solution for Parallel Factor (PARAFAC) Analysis. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	25
56	Tensor-Based Spatial Smoothing (TB-SS) Using Multiple Snapshots. IEEE Transactions on Signal Processing, 2010, 58, 2715-2728.	3.2	25
57	Adaptive Widely Linear Reduced-Rank Interference Suppression Based on the Multistage Wiener Filter. IEEE Transactions on Signal Processing, 2012, 60, 4003-4016.	3.2	25
58	On the Use of Filter Bank Based Multicarrier Modulation for Professional Mobile Radio. , 2013, , .		25
59	Improving the performance of Unitary ESPRIT via pseudo-noise resampling. IEEE Transactions on Signal Processing, 1999, 47, 2305-2308.	3.2	24
60	Analysis of Multihop Relaying Networks: Communication Between Range-Limited and Cooperative Nodes. IEEE Vehicular Technology Magazine, 2012, 7, 40-47.	2.8	24
61	Low rank approximation based hybrid precoding schemes for multi-carrier single-user massive MIMO systems. , 2016, , .		24
62	Channel estimation and training design for hybrid multi-carrier MmWave massive MIMO systems: The beamspace ESPRIT approach. , 2017, , .		23
63	Gridless Channel Estimation for Hybrid mmWave MIMO Systems via Tensor-ESPRIT Algorithms in DFT Beamspace. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 816-831.	7.3	23
64	The complete solution for third-generation wireless communications: two modes on air, one winning strategy. IEEE Personal Communications, 2000, 7, 18-24.	4.5	22
65	Robust methods based on the hosvd for estimating the model order in PARAFAC models. , 2008, , .		22
66	Channel Modeling for Multiple Satellite Broadcasting Systems. IEEE Transactions on Broadcasting, 2009, 55, 705-718.	2.5	22
67	Sum rate maximization for multi-pair two-way relaying with single-antenna amplify and forward relays. , 2012, , .		22
68	A channel matching based hybrid analog-digital strategy for massive multi-user MIMO downlink systems. , 2016, , .		22
69	Robust R-D parameter estimation via closed-form PARAFAC. , 2010, , .		21
70	Relay Assisted Physical Resource Sharing: Projection Based Separation of Multiple Operators (ProBaSeMO) for Two-Way Relaying With MIMO Amplify and Forward Relays. IEEE Transactions on Signal Processing, 2012, 60, 4834-4848.	3.2	20
71	Multidimensional prewhitening for enhanced signal reconstruction and parameter estimation in colored noise with Kronecker correlation structure. Signal Processing, 2013, 93, 3209-3226.	2.1	20
72	A "Sequentially Drilled" Joint Congruence (SeDJoCo) Transformation With Applications in Blind Source Separation and Multiuser MIMO Systems. IEEE Transactions on Signal Processing, 2012, 60, 2744-2757.	3.2	19

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73	Sum-Rate Maximization With Minimum Power Consumption for MIMO DF Two-Way Relaying Part I: Relay Optimization. IEEE Transactions on Signal Processing, 2013, 61, 3563-3577.	3.2	19
74	Schur algorithms for joint-detection in TD-CDMA based mobile radio systems. Annales Des Telecommunications/Annals of Telecommunications, 1999, 54, 365-378.	1.6	18
75	Analytical performance evaluation for HOSVD-based parameter estimation schemes. , 2009, , .		16
76	Robust source number enumeration for r-dimensional arrays in case of brief sensor failures. , 2012, , .		16
77	Comparison of OFDM and frequency domain equalization for dispersive optical channels with direct detection. , 2012, , .		16
78	Coupled CP Decomposition of Simultaneous MEG-EEG Signals for Differentiating Oscillators During Photic Driving. Frontiers in Neuroscience, 2020, 14, 261.	1.4	16
79	Efficient Feedback via Subspace-Based Channel Quantization for Distributed Cooperative Antenna Systems with Temporally Correlated Channels. Eurasip Journal on Advances in Signal Processing, 2007, 2008, .	1.0	15
80	A semi-algebraic framework for approximate CP decompositions via joint matrix diagonalization and generalized unfoldings. , 2012, , .		15
81	Performance analysis of ESPRIT-type algorithms for non-circular sources. , 2013, , .		15
82	Secrecy rate maximization for MIMO Gaussian wiretap channels with multiple eavesdroppers via alternating matrix POTDC. , 2014, , .		15
83	Direction finding algorithms based on joint iterative subspace optimization. IEEE Transactions on Aerospace and Electronic Systems, 2014, 50, 2541-2553.	2.6	15
84	Sum-Rate Maximization With Minimum Power Consumption for MIMO DF Two-Way Relaying Part II: Network Optimization. IEEE Transactions on Signal Processing, 2013, 61, 3578-3591.	3.2	14
85	Beamspace direction finding based on the conjugate gradient and the auxiliary vector filtering algorithms. Signal Processing, 2013, 93, 641-651.	2.1	14
86	An Efficient Transmission Strategy for the Multicarrier Multiuser MIMO Downlink. IEEE Transactions on Vehicular Technology, 2014, 63, 628-642.	3.9	14
87	Channel estimation for hybrid multi-carrier mmwave MIMO systems using three-dimensional unitary esprit in DFT beamspace. , 2017, , .		14
88	Semi-blind receivers for MIMO multi-relaying systems via rank-one tensor approximations. Signal Processing, 2020, 166, 107254.	2.1	14
89	Tensor-Based Receiver for Joint Channel, Data, and Phase-Noise Estimation in MIMO-OFDM Systems. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 803-815.	7.3	14
90	Smart antennas for wireless communications beyond the third generation. Computer Communications, 2003, 26, 41-45.	3.1	13

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91	A low-complexity relay transmit strategy for two-way relaying with MIMO amplify and forward relays. , 2010, , .		13
92	Esprit-type algorithms for a received mixture of circular and strictly non-circular signals. , 2015, , .		13
93	Analysis of the photic driving effect via joint EEG and MEG data processing based on the coupled CP decomposition. , 2017, , .		13
94	Double-RIS Versus Single-RIS Aided Systems: Tensor-Based MIMO Channel Estimation and Design Perspectives. , 2022, , .		13
95	Beamforming design for multi-user two-way relaying with MIMO amplify and forward relays. , 2011, , .		12
96	Joint Channel Estimation for Three-Hop MIMO Relaying Systems. IEEE Signal Processing Letters, 2015, 22, 2430-2434.	2.1	12
97	Tensor-based framework for the prediction of frequency-selective time-variant MIMO channels. , 2008, , .		11
98	Using a new structured joint congruence (STJOCO) transformation of Hermitian matrices for precoding in multi-user MIMO systems. , 2010, , .		11
99	Distributed beamforming for two-way relaying networks with individual power constraints. , 2012, , .		11
100	Flexible coordinated beamforming (FlexCoBF) for the downlink of multi-user MIMO systems in single and clustered multiple cells. Signal Processing, 2013, 93, 2462-2473.	2.1	11
101	Robust adaptive beamforming algorithms using the constrained constant modulus criterion. IET Signal Processing, 2014, 8, 447-457.	0.9	11
102	Sparsity-based direction-of-arrival estimation for strictly non-circular sources. , 2016, , .		11
103	Maximum Likelihood Estimation of a Low-Rank Probability Mass Tensor From Partial Observations. IEEE Signal Processing Letters, 2019, 26, 1551-1555.	2.1	11
104	Blind estimation of SIMO channels using a tensor-based subspace method. , 2010, , .		10
105	Extension of the semi-algebraic framework for approximate CP decompositions via simultaneous matrix diagonalization to the efficient calculation of coupled CP decompositions. , 2016, , .		10
106	Generalized tensor contraction with application to khatri-rao coded MIMO OFDM systems. , 2017, , .		10
107	Efficient Multidimensional Wideband Parameter Estimation for OFDM Based Joint Radar and Communication Systems. IEEE Access, 2019, 7, 112792-112808.	2.6	10
108	A Gridless CS Approach for Channel Estimation in Hybrid Massive MIMO Systems. , 2019, , .		10

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109	Generalized Tensor Contractions for an Improved Receiver Design in MIMO-OFDM Systems. , 2018, , .		9
110	Hybrid Beamforming Design for Downlink MU-MIMO-OFDM Millimeter-Wave Systems. , 2020, , .		9
111	Conditional and Unconditional Cram�r-Rao Bounds for Near-Field Localization in Bistatic MIMO Radar Systems. IEEE Transactions on Signal Processing, 2021, 69, 3220-3234.	3.2	9
112	Higher Order SVD Based Subspace Estimation to Improve Multi-Dimensional Parameter Estimation Algorithms. , 2006, , .		8
113	Low-Complexity and Energy Efficient Non-Coherent Receivers for UWB Communications. , 2007, , .		8
114	Analytical performance assessment for multi-dimensional Tensor-ESPRIT-type parameter estimation algorithms. , 2010, , .		8
115	Multi-dimensional PARAFAC2 component analysis of multi-channel EEG data including temporal tracking. , 2010, 2010, 5375-8.		8
116	Tensor-based approach to channel estimation in amplify-and-forward MIMO relaying systems. , 2014, , .		8
117	Tensor subspace Tracking via Kronecker structured projections (TeTraKron) for time-varying multidimensional harmonic retrieval. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.0	8
118	On the performance of block transmission schemes in optical channels with a Gaussian profile. , 2014, , .		8
119	Higher order direction finding from rectangular cumulant matrices: The rectangular $\text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0080.gif" overflow="scroll"} < \text{mml:mrow} < \text{mml:mn} > 2 < / \text{mml:mn} < \text{mml:mi} > q < / \text{mml:mi} > < / \text{mml:mrow} < / \text{mml:math} > \text{-MUSIC algorithms. Signal Processing, 2017, 133, 240-249.}$	2.1	8
120	Tensor-Based Channel Estimation and Reflection Design for RIS-Aided Millimeter-Wave MIMO Communication Systems. , 2021, , .		8
121	Tensor-Structure Structured Least Squares (TS-SLS) to Improve the Performance of Multi-Dimensional Esprit-Type Algorithms. , 2007, , .		7
122	Flexible Coordinated Beamforming (FlexCoBF) algorithm for the downlink of multi-user MIMO systems. , 2010, , .		7
123	Knowledge-aided direction finding based on Unitary ESPRIT. , 2011, , .		7
124	Robust adaptive beamforming algorithms using low-complexity mismatch estimation. , 2011, , .		7
125	Transmit beamforming for inter-operator spectrum sharing: From theory to practice. , 2012, , .		7
126	Lattice reduction-aided regularized block diagonalization for multiuser MIMO systems. , 2012, , .		7

#	ARTICLE	IF	CITATIONS
127	Channel Prediction for B4G Radio Systems. , 2013, , .		7
128	Coordinated beamforming in MIMO FBMC/OQAM systems. , 2014, , .		7
129	Precoder and equalizer design for multi-user MIMO FBMC/OQAM with highly frequency selective channels. , 2015, , .		7
130	Gridless super-resolution direction finding for strictly non-circular sources based on atomic norm minimization. , 2016, , .		7
131	Noisy Compressive Sampling Based on Block-Sparse Tensors: Performance Limits and Beamforming Techniques. IEEE Transactions on Signal Processing, 2016, 64, 6075-6088.	3.2	7
132	Sparsity-aware direction finding for strictly non-circular sources based on rank minimization. , 2016, , .		7
133	Efficient multidimensional parameter estimation for joint wideband radar and communication systems based on OFDM. , 2017, , .		7
134	Tensor-Based Near-Field Localization Using Massive Antenna Arrays. IEEE Transactions on Signal Processing, 2021, 69, 5830-5845.	3.2	7
135	Smart antennas for UTRA TDD. European Transactions on Telecommunications, 2001, 12, 393-406.	1.2	6
136	On the introduction of an extended coupling matrix for a 2D bearing estimation with an experimental RF system. Signal Processing, 2007, 87, 2005-2016.	2.1	6
137	Efficient channel quantization scheme for multi-user MIMO broadcast channels with RBD precoding. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	6
138	Single Snapshot R-D Unitary Tensor-ESPRIT Using an Augmentation of the Tensor Order. , 2009, , .		6
139	Multidimensional Unitary Tensor-ESPRIT for non-circular sources. , 2009, , .		6
140	Performance of PPM-Based Non-Coherent Impulse Radio UWB Systems using Sparse Codes in the Presence of Multi-User Interference. , 2009, , .		6
141	Reduced-rank DOA estimation based on joint iterative subspace recursive optimization and grid search. , 2010, , .		6
142	Non-data-aided adaptive beamforming algorithm based on the Widely Linear Auxiliary Vector Filter. , 2011, , .		6
143	Analytical performance assessment of 1-D Structured Least Squares. , 2011, , .		6
144	Intrinsic interference mitigating coordinated beamforming for the FBMC/OQAM based downlink. Eurasip Journal on Advances in Signal Processing, 2014, 2014, .	1.0	6

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145	Analytical performance assessment of esprit-type algorithms for coexisting circular and strictly non-circular signals. , 2016, , .		6
146	Power Line Communication in automotive harness on the example of Local Interconnect Network. , 2016, , .		6
147	Efficient hybrid space-ground precoding techniques for multi-beam satellite systems. , 2017, , .		6
148	Performance Analysis of the Gaussian Quasi-Maximum Likelihood Approach for Independent Vector Analysis. IEEE Transactions on Signal Processing, 2018, 66, 5000-5013.	3.2	6
149	Enhanced Direct Fitting Algorithms for PARAFAC2 With Algebraic Ingredients. IEEE Signal Processing Letters, 2019, 26, 533-537.	2.1	6
150	A Novel Sensing Matrix Design for Compressed Sensing via Mutual Coherence Minimization. , 2019, , .		6
151	On the DC balance of multi-level PAM VLC systems. , 2019, , .		6
152	Rank-One Detector for Kronecker-Structured Constant Modulus Constellations. IEEE Signal Processing Letters, 2020, 27, 1420-1424.	2.1	6
153	Multilinear Generalized Singular Value Decomposition (Ml-gsvd) with Application to Coordinated Beamforming in Multi-user MIMO Systems. , 2020, , .		6
154	A Digital Code Matched Filter-based non-coherent receiver for low data rate TH-PPM-UWB systems in the presence of MUI. , 2009, , .		5
155	Impact of the Receive Antenna Arrays on Spatio-Temporal Availability in Satellite-to-Indoor Broadcasting. IEEE Transactions on Broadcasting, 2010, 56, 171-183.	2.5	5
156	Iterative Sequential GSVD (I-S-GSVD) based prewhitening for multidimensional HOSVD based subspace estimation without knowledge of the noise covariance information. , 2010, , .		5
157	3-D Unitary ESPRIT: Accurate attitude estimation for unmanned aerial vehicles with a hexagon-shaped ESPAR array. , 2013, 23, 701-711.		5
158	Advanced channel prediction concepts for 5G radio systems. , 2015, , .		5
159	Efficient techniques for multi-gigabits/s transmission over plastic optical fiber. , 2015, , .		5
160	First-order perturbation analysis of low-rank tensor approximations based on the truncated HOSVD. , 2016, , .		5
161	Block Transmission with Frequency Domain Equalization for VLC. Signals and Communication Technology, 2016, , 299-323.	0.4	5
162	Joint MEG-EEG signal decomposition using the coupled SECSI framework: Validation on a controlled experiment. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
163	HOSVD-Based Denoising for Improved Channel Prediction of Weak Massive MIMO Channels. , 2017, , .		5
164	Channel Estimation for Hybrid Multi-Carrier mmWave MIMO Systems Using 3-D Unitary Tensor-ESPRIT in DFT beamspace. , 2019, , .		5
165	Compressed Sensing Based Channel Estimation and Open-loop Training Design for Hybrid Analog-digital Massive MIMO Systems. , 2020, , .		5
166	Multi-dimensional model order estimation using Linear Regression of Global Eigenvalues (LaRGE) with applications to EEG and MEG recordings. , 2021, , .		5
167	Linear and Dirty-Paper Techniques for the Multiuser MIMO Downlink. , 2005, , 209-243.		4
168	Achievable throughput approximation for RBD precoding at high SNRS. , 2009, , .		4
169	Non-Coherent UWB Communications. Frequenz, 2009, 63, .	0.6	4
170	Identification of Signal Components in Multi-Channel EEG Signals via Closed-Form PARAFAC Analysis and Appropriate Preprocessing. IFMBE Proceedings, 2009, , 1226-1230.	0.2	4
171	Robust R-D parameter estimation via closed-form PARAFAC in Kronecker colored environments. , 2010, , .		4
172	An iterative Widely Linear interference suppression algorithm based on Auxiliary Vector Filtering. , 2010, , .		4
173	Low-complexity robust beamforming based on conjugate gradient techniques. , 2011, , .		4
174	Ad Hoc Networking Solutions. IEEE Vehicular Technology Magazine, 2011, 6, 31-36.	2.8	4
175	Optimal and suboptimal beamforming for multi-operator two-way relaying with a MIMO amplify-and-forward relay. , 2012, , .		4
176	Multi-branch tomlinson-harashima precoding for single-user MIMO systems. , 2012, , .		4
177	Satellite ground stations with electronic beam steering. , 2012, , .		4
178	Performance analysis of ESPRIT-type algorithms for strictly non-circular sources using structured least squares. , 2013, , .		4
179	SINR balancing for non-regenerative two-way relay networks with interference neutralization. , 2014, , .		4
180	Secrecy rate maximization for information and energy transfer in MIMO beamforming networks. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
181	Towards a non-error floor multi-stream beamforming design for FBMC/OQAM. , 2015, , .		4
182	Linear detection schemes for MIMO UW-OFDM. , 2016, , .		4
183	Extension of the semi-algebraic framework for approximate CP decompositions via non-symmetric simultaneous matrix diagonalization. , 2016, , .		4
184	On multiple solutions of the "sequentially drilled" joint congruence transformation (SeDJoCo) problem for semi-blind source separation. , 2016, , .		4
185	Perturbation analysis of Joint Eigenvalue Decomposition Algorithms. , 2017, , .		4
186	Decoupled signal detection for the uplink of massive MIMO in 5G heterogeneous networks. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	1.5	4
187	Performance analysis of ESPRIT-Type algorithms for co-array structures. , 2017, , .		4
188	Efficient Computation of the PARAFAC2 Decomposition via Generalized Tensor Contractions. , 2018, , .		4
189	Estimation of a Low-Rank Probability-Tensor from Sample Sub-Tensors via Joint Factorization Minimizing the Kullback-Leibler Divergence. , 2019, , .		4
190	Tensor-Based Framework With Model Order Selection and High Accuracy Factor Decomposition for Time-Delay Estimation in Dynamic Multipath Scenarios. IEEE Access, 2020, 8, 174931-174942.	2.6	4
191	Self-Organizing Network with Intelligent Relaying (SONIR). , 2010, , .		3
192	A joint clustering and routing scheme to maximize link performance in cooperative MIMO ad-hoc networks. , 2011, , .		3
193	Linear precoding-based geometric mean decomposition (LP-GMD) for multi-user MIMO systems. , 2012, , .		3
194	Power allocation/beamforming for DF MIMO two-way relaying: Relay and network optimization. , 2012, , .		3
195	Polynomial-time DC (POTDC) for sum-rate maximization in two-way AF MIMO relaying. , 2012, , .		3
196	Robust multi-dimensional model order estimation in the presence of brief sensor failures. , 2013, , .		3
197	Tensor subspace tracking via Kronecker structured projections (TeTraKron). , 2013, , .		3
198	Asymptotic performance analysis of esprit-type algorithms for circular and strictly non-circular sources with spatial smoothing. , 2014, , .		3

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