Constantinos B Papadias

List of Publications by Year
in descending order

121 papers	4,489 citations	172457 29 h-index	144013 57 g-index
124 all docs	124 docs citations	124 times ranked	1887 citing authors

#	Article	IF	Citations
1	Dual-Polarized RSMA for Massive MIMO Systems. IEEE Wireless Communications Letters, 2022, 11, 2000-2004.	5.0	4
2	IRS-Assisted Massive MIMO-NOMA Networks: Exploiting Wave Polarization. IEEE Transactions on Wireless Communications, 2021, 20, 7166-7183.	9.2	29
3	Dual-Polarized IRSs in Uplink MIMO-NOMA Networks: An Interference Mitigation Approach. IEEE Wireless Communications Letters, 2021, , 1-1.	5.0	2
4	Energy-Efficient Deployment of a Non-Orthogonal Multiple Access Unmanned Aerial System. , 2021, , .		2
5	Cost- and Energy-Efficient Aerial Communication Networks With Interleaved Hovering and Flying. IEEE Transactions on Vehicular Technology, 2021, 70, 9077-9087.	6.3	15
6	Massive MIMO-NOMA Networks With Successive Sub-Array Activation. IEEE Transactions on Wireless Communications, 2020, 19, 1622-1635.	9.2	8
7	Design Guidelines for Multi-Active/Multi-Passive Parasitic Antenna Arrays. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2141-2144.	4.0	0
8	Energy-Efficient 3-D Deployment of Aerial Access Points in a UAV Communication System. IEEE Communications Letters, 2020, 24, 2883-2887.	4.1	25
9	What Role Do Intelligent Reflecting Surfaces Play in Multi-Antenna Non-Orthogonal Multiple Access?. IEEE Wireless Communications, 2020, 27, 24-31.	9.0	69
10	Energy Efficient Altitude Optimization of an Aerial Access Point. , 2020, , .		12
11	Massive MIMO-NOMA Networks With Imperfect SIC: Design and Fairness Enhancement. IEEE Transactions on Wireless Communications, 2020, 19, 6100-6115.	9.2	60
12	Simple Cooperative Transmission Schemes for Underlay Spectrum Sharing Using Symbol-level Precoding and Load-controlled Arrays. , 2019, , .		3
13	Coordinated Hybrid Precoding and QoS-Aware Power Allocation for Underlay Spectrum Sharing with Load-Controlled Antenna Arrays. , 2019, , .		1
14	A Novel MAMP Antenna Array Configuration for Efficient Beamforming. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 297-305.	0.3	0
15	Efficient Beamforming with Multi-Active Multi-Passive Antenna Arrays. , 2018, , .		5
16	Introduction to the Issue on Hybrid Analogâ€“Digital Signal Processing for Hardware-Efficient Large-Scale Antenna Arrays (Part I). IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 253-255.	10.8	0
17	Introduction to the Issue on Hybrid Analogâ€“Digital Signal Processing for Hardware-Efficient Large Scale Antenna Arrays (Part II). IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 419-421.	10.8	1
18	MIMO Transmission for Single-Fed ESPAR With Quantized Loads. IEEE Transactions on Communications, 2017, 65, 2863-2876.	7.8	24

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19	Single-RF Multi-Antenna Transmission With Peak Power Constraint. IEEE Transactions on Communications, 2017, 65, 5197-5208.	7.8	4
20	Single- and multiple-RF load controlled parasitic antenna arrays operating at Cm-wave frequencies: Design and applications for 5G wireless access / backhaul. , 2017, , .		1
21	On the Robustness of Coordinated Beamforming to Uncoordinated Interference and CSI Uncertainty. , 2017, , .		8
22	Large load-controlled multiple-active multiple-passive antenna arrays: Transmit beamforming and multi-user precoding. , 2017, , .		2
23	Tunable load MIMO with quantized loads. , 2017, , .		1
24	Advanced coordinated beamforming for the downlink of future LTE cellular networks. , 2016, 54, 54-60.		57
25	Robust low-complexity arbitrary user- and symbol-level multi-cell precoding with single-fed load-controlled parasitic antenna arrays. , 2016, , .		4
26	Coordinated MIMO with single-fed load-controlled parasitic antenna arrays. , 2016, , .		8
27	Load modulated arrays: a low-complexity antenna. , 2016, 54, 46-52.		48
28	Low-feedback cooperative opportunistic transmission for dynamic licensed shared access. , 2015, , .		2
29	On the Blind Recovery of Cardiac and Respiratory Sounds. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 151-157.	6.3	40
30	Achieving Arbitrary Signals Transmission Using a Single Radio Frequency Chain. IEEE Transactions on Communications, 2015, 63, 4865-4878.	7.8	19
31	A Single RF MIMO Loading Network for High-Order Modulation Schemes. International Journal of Antennas and Propagation, 2014, 2014, 1-10.	1.2	16
32	On the performance of transceiver techniques for the K-user MIMO IFC with LTE-A turbo coding. , 2014, , .		0
33	Precoding for multiuser MIMO systems with single-fed parasitic antenna arrays. , 2014, , .		26
34	Analysis of Acoustic Cardiac Signals for Heart Rate Variability and Murmur Detection Using Nonnegative Matrix Factorization-Based Hierarchical Decomposition. , 2014, , .		1
35	Arbitrary Precoding with Single-Fed Parasitic Arrays: Closed-Form Expressions and Design Guidelines. IEEE Wireless Communications Letters, 2014, 3, 229-232.	5.0	25
36	Opportunistic beamforming for secondary users in licensed shared access networks. , 2014, , .		10

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37	A new signal model for MIMO communication with compact parasitic arrays. , 2014, , .		18
38	Antenna Arrays: The Conventional Paradigm and an Emerging New Approach. , 2014, , 1-19.		0
39	A robust interference alignment technique for the MIMO interference channel with uncertainties. , 2013, , .		4
40	Blind recovery of cardiac and respiratory sounds using non-negative matrix factorization & time-frequency masking. , 2013, , .		3
41	Reweighted Nuclear Norm Approach for Interference Alignment. IEEE Transactions on Communications, 2013, 61, 3754-3765.	7.8	31
42	On Spatial Domain Cognitive Radio Using Single-Radio Parasitic Antenna Arrays. IEEE Journal on Selected Areas in Communications, 2013, 31, 571-580.	14.0	41
43	Separation of cardiorespiratory sounds using time-frequency masking and sparsity. , 2013, , .		6
44	Directional transmission by 3-D beam-forming using smart antenna arrays. , 2013, , .		0
45	A reconfigurable iterative algorithm for the K-user MIMO interference channel. Signal Processing, 2013, 93, 3353-3362.	3.7	21
46	Known interference in the cellular downlink: a performance limiting factor or a source of green signal power?. , 2013, 51, 162-171.		98
47	A parasitic antenna array for directive multi-hop sensor communication. , 2013, , .		2
48	MIMO over ESPAR with 16-QAM Modulation. IEEE Wireless Communications Letters, 2013, 2, 687-690.	5.0	30
49	Harvesting energy from vibrations of the underlying structure. JVC/Journal of Vibration and Control, 2013, 19, 2255-2269.	2.6	15
50	A comparative study of interference alignment schemes with LTE-compliant turbo coding. , 2013, , .		1
51	Joint Frobenius norm and reweighted nuclear norm minimization for interference alignment. , 2013, , .		1
52	A reconfigurable distributed algorithm for K-user MIMO interference networks. , 2013, , .		5
53	Spectrum Sensing using Single-Radio Switched-Beam Antenna Systems. , 2012, , .		19
54	Joint Transceiver Beamforming in MIMO Cognitive Radio Network Via Second-Order Cone Programming. IEEE Transactions on Signal Processing, 2012, 60, 781-792.	5.3	52

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55	MIMO Communication for Cellular Networks. , 2012, , .		99
56	Reduced-Complexity Radio Architectures for Enhanced Receive Selection Combining in Multiuser Diversity Systems. International Journal of Antennas and Propagation, 2012, 2012, 1-10.	1.2	3
57	Non Cooperative Space-Time Communication for Energy Efficiency in Sensor Networks. IEEE Transactions on Communications, 2012, 60, 48-54.	7.8	4
58	Analogue orthogonal precoding using reduced-complexity transceivers. , 2011, , .		3
59	Robust joint transceiver beamforming for cognitive radio network. , 2011, , .		1
60	Spatial Multiplexing with a Single Radio: Proof-of-Concept Experiments in an Indoor Environment with a 2.6-GHz Prototype. IEEE Communications Letters, 2011, 15, 178-180.	4.1	61
61	CR-DMAC. , 2011, , .		0
62	Adaptive reactance-controlled antenna systems for multi-input multi-output applications. IET Microwaves, Antennas and Propagation, 2011, 5, 975.	1.4	5
63	On the Performance of Eigenvalue-Based Cooperative Spectrum Sensing for Cognitive Radio. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 49-55.	10.8	119
64	Complex random matrices and multiple-antenna spectrum sensing. , 2011, , .		18
65	Interference Alignment: A One-Sided Approach. , 2011, , .		21
66	Spatial spectrum sensing for cognitive radios via miniaturized parasitic antenna systems. , 2010, , .		4
67	Semi-blind maximum-likelihood joint channel/data estimation for correlated channels in multiuser MIMO networks. Signal Processing, 2010, 90, 1209-1224.	3.7	17
68	An adaptive reactance-assisted antenna system for the MIMO uplink. , 2010, , .		2
69	A Novel Real OSTBC via a Single Radio. , 2010, , .		0
70	Nonsingular Constant Modulus Equalizer for PDM-QPSK Coherent Optical Receivers. IEEE Photonics Technology Letters, 2010, 22, 45-47.	2.5	32
71	Enhanced selection combining for compact single RF user terminals in multiuser diversity systems. , 2010, , .		4
72	Spatial spectrum sensing for wireless handheld terminals: design challenges and novel solutions based on tunable parasitic antennas [Dynamic Spectrum Management. IEEE Wireless Communications, 2010, 17, 33-40.	9.0	15

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73	A novel Alamouti transmission technique via a single RF source and a miniaturized antenna system. , 2010, , .		1
74	On the throughput of linear wireless multi-hop networks using directional antennas. , 2009, , .		6
75	On the Throughput Potential of Two-Dimensional Wireless Multi-Hop Networks Using Directional Antennas. , 2009, , .		4
76	3GPP LTE and LTE-Advanced. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	2.4	31
77	Aerial modulation for high order PSK transmission schemes. , 2009, , .		10
78	A simple angular transmit diversity scheme using a single RF frontend for PSK modulation schemes. , 2009, , .		0
79	MIMO transmission and reception techniques using three-element ESPAR antennas. IEEE Communications Letters, 2009, 13, 236-238.	4.1	29
80	Decorrelating two signals using three side-by-side antennas. , 2009, , .		0
81	Closed-Loop Beamspace MIMO Systems with Low Hardware Complexity. , 2009, , .		4
82	A universal encoding scheme for MIMO transmission using a single active element for PSK modulation schemes. IEEE Transactions on Wireless Communications, 2009, 8, 5133-5142.	9.2	106
83	Spatial multiplexing via antenna switching. IEEE Communications Letters, 2009, 13, 594-596.	4.1	5
84	A Stochastic Beamforming Algorithm for ESPAR Antennas. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 745-748.	4.0	36
85	A Novel Approach to MIMO Transmission Using a Single RF Front End. IEEE Journal on Selected Areas in Communications, 2008, 26, 972-980.	14.0	158
86	A limited feedback technique for beamspace MIMO systems with single RF front-end. , 2008, , .		10
87	A Stochastic Algorithm for Beamforming Using ESPAR Antennas. , 2008, , .		0
88	Spatial multiplexing by decomposing the far-field of a compact ESPAR antenna. , 2008, , .		26
89	Rician Modeling and Prediction for Wireless Packet Data Systems. IEEE Transactions on Wireless Communications, 2008, 7, 4692-4699.	9.2	4
90	Space-time codes with controllable ML decoding complexity for any number of transmit antennas. , 2007, , .		1

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91	Euclidean Distance Maximizing Rotations for Quasi-Orthogonal Space-Time Codes with MPSK Symbols. , 2007, , .		1
92	Local Positioning for Wireless Sensor Networks. , 2007, , .		20
93	RESOLUTION: Reconfigurable Systems for Mobile Local Communication and Positioning. , 2007, , .		16
94	Performance of Channel Prediction for Wireless Downlink Packet Systems. , 2006, , .		4
95	Downlink throughput enhancement of IEEE 802.11a/g using SDMA with a multi-antenna access point. Signal Processing, 2006, 86, 1896-1910.	3.7	4
96	Steered-STS Transmit Antenna Architecture With Semiblind Channel Estimation at the Receiver in CDMA2000. IEEE Transactions on Vehicular Technology, 2006, 55, 1671-1677.	6.3	1
97	Inter-Cell Coordination, Opportunistic Beamforming and Scheduling. , 2006, , .		18
98	Semi-Blind Maximum Likelihood Joint Channel Estimation / Data Detection for MIMO Fading Channels. , 2006, , .		0
99	On asymptotically fair transmission scheduling over fading channels with measurement delay. IEEE Transactions on Wireless Communications, 2006, 5, 1626-1633.	9.2	6
100	Design and Experimental Validation of MIMO Multiuser Detection for Downlink Packet Data. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	1
101	Reconfigurable MIMO transceivers for next-generation wireless systems. Bell Labs Technical Journal, 2005, 10, 139-156.	0.7	0
102	Duplexing, resource allocation and inter-cell coordination: design recommendations for next generation wireless systems. Wireless Communications and Mobile Computing, 2005, 5, 77-93.	1.2	33
103	Reduced-complexity ML decoding of rate 6/8 and rate 1 linear complex space-time codes for up to eight transmit antennas with phase feedback. IEEE Signal Processing Letters, 2005, 12, 565-568.	3.6	4
104	Spaceâ€“Time Dynamic Signature Assignment for the Reverse Link of DS-CDMA Systems. IEEE Transactions on Communications, 2004, 52, 120-129.	7.8	11
105	Unsupervised Receiver Processing Techniques for Linear Space-Time Equalization of Wideband Multiple Input / Multiple Output Channels. IEEE Transactions on Signal Processing, 2004, 52, 472-482.	5.3	22
106	Full-Rate Full-Diversity Linear Quasi-Orthogonal Space-Time Codes for Any Number of Transmit Antennas. Eurasip Journal on Advances in Signal Processing, 2004, 2004, 1.	1.7	47
107	Capacity-approaching space-time codes for systems employing four transmitter antennas. IEEE Transactions on Information Theory, 2003, 49, 726-733.	2.4	171
108	Improved quasi-orthogonal codes through constellation rotation. IEEE Transactions on Communications, 2003, 51, 332-335.	7.8	286

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109	Analysis and performance of some basic space-time architectures. IEEE Journal on Selected Areas in Communications, 2003, 21, 303-320.	14.0	183
110	On the Capacity of Certain Space-Time Coding Schemes. Eurasip Journal on Advances in Signal Processing, 2002, 2002, 1.	1.7	31
111	Experimental evaluation of unsupervised channel deconvolution for wireless multiple-transmitterâ•multiple-receiver systems. Electronics Letters, 2002, 38, 1214.	1.0	5
112	Layered space-time receivers for frequency-selective wireless channels. IEEE Transactions on Communications, 2002, 50, 65-73.	7.8	174
113	A transmitter diversity scheme for wideband CDMA systems based on space-time spreading. IEEE Journal on Selected Areas in Communications, 2001, 19, 48-60.	14.0	342
114	Linear space-time multiuser detection for multipath CDMA channels. IEEE Journal on Selected Areas in Communications, 2001, 19, 254-265.	14.0	45
115	Dynamic signature assignment for direct sequence CDMA systems. IEEE Communications Letters, 2000, 4, 181-183.	4.1	4
116	Globally convergent blind source separation based on a multiuser kurtosis maximization criterion. IEEE Transactions on Signal Processing, 2000, 48, 3508-3519.	5.3	135
117	Blind identifiability of certain classes of multipath channels from second-order statistics using antenna arrays. IEEE Signal Processing Letters, 1997, 4, 138-141.	3.6	19
118	Joint angle and delay estimation (JADE) for multipath signals arriving at an antenna array. IEEE Communications Letters, 1997, 1, 12-14.	4.1	149
119	Normalized sliding window constant modulus and decision-directed algorithms: a link between blind equalization and classical adaptive filtering. IEEE Transactions on Signal Processing, 1997, 45, 231-235.	5.3	45
120	A constant modulus algorithm for multiuser signal separation in presence of delay spread using antenna arrays. IEEE Signal Processing Letters, 1997, 4, 178-181.	3.6	173
121	Space-time processing for wireless communications. IEEE Signal Processing Magazine, 1997, 14, 49-83.	5.6	820