Taufik Abrao

List of Publications by Citations

189 papers	**1,394** citations	**18** h-index	**29** g-index
225 ext. papers	**1,796** ext. citations	**2.7** avg, IF	**5.47** L-index

#	Paper	IF	Citations
189	Network Anomaly Detection System using Genetic Algorithm and Fuzzy Logic. *Expert Systems With Applications*, **2018**, 92, 390-402	7.8	113
188	Modeling competitive metal sorption in a mineral soil. *Geoderma*, **2009**, 149, 189-198	6.7	74
187	. *IEEE Access*, **2016**, 4, 774-791	3.5	49
186	Cadmium mobility in sediments and soils from a coal mining area on Tibagi River watershed: environmental risk assessment. *Journal of Hazardous Materials*, **2014**, 265, 280-7	12.8	48
185	Sorption-desorption of selenite and selenate on Mg-Al layered double hydroxide in competition with nitrate, sulfate and phosphate. *Chemosphere*, **2017**, 181, 627-634	8.4	45
184	Massive MIMO for Internet of Things (IoT) connectivity. *Physical Communication*, **2019**, 37, 100859	2.2	38
183	A Game Theoretical Based System Using Holt-Winters and Genetic Algorithm With Fuzzy Logic for DoS/DDoS Mitigation on SDN Networks. *IEEE Access*, **2017**, 5, 9485-9496	3.5	34
182	Lanthanide sorption on smectitic clays in presence of cement leachates. *Geochimica Et Cosmochimica Acta*, **2010**, 74, 862-875	5.5	32
181	An ecosystem for anomaly detection and mitigation in software-defined networking. *Expert Systems With Applications*, **2018**, 104, 121-133	7.8	31
180	Faults in smart grid systems: Monitoring, detection and classification. *Electric Power Systems Research*, **2020**, 189, 106602	3.5	28
179	Energy-Efficient Power Allocation for WDM/OCDM Networks With Particle Swarm Optimization. *Journal of Optical Communications and Networking*, **2013**, 5, 512	4.1	21
178	Pilot distribution optimization in multi-cellular large scale MIMO systems. *AEU - International Journal of Electronics and Communications*, **2016**, 70, 1094-1103	2.8	21
177	Distributed Fuzzy Logic-Based Relay Selection Algorithm for Cooperative Wireless Sensor Networks. *IEEE Sensors Journal*, **2013**, 13, 4375-4386	4	20
176	Distributed power control algorithm for multiple access systems based on Verhulst model. *AEU - International Journal of Electronics and Communications*, **2011**, 65, 361-372	2.8	20
175	Sorption-desorption of antimony species onto calcined hydrotalcite: Surface structure and control of competitive anions. *Journal of Hazardous Materials*, **2018**, 344, 649-656	12.8	19
174	Coordination of distance and directional overcurrent relays using an extended continuous domain ACO algorithm and an hybrid ACO algorithm. *Electric Power Systems Research*, **2019**, 170, 259-272	3.5	18
173	WDM/OCDM Energy-Efficient Networks Based on Heuristic Ant Colony Optimization. *IEEE Systems Journal*, **2016**, 10, 1482-1493	4.3	18

172	Antenna Selection for Improving Energy Efficiency in XL-MIMO Systems. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 13305-13318	6.8	18
171	Distributed SNIR Optimization Based on the Verhulst Model in Optical Code Path Routed Networks With Physical Constraints. *Journal of Optical Communications and Networking*, **2011**, 3, 683	4.1	17
170	Hybrid heuristic-waterfilling game theory approach in MC-CDMA resource allocation. *Applied Soft Computing Journal*, **2012**, 12, 1902-1912	7.5	16
169	Power allocation in multibeam satellites based on particle swarm optimization. *AEU - International Journal of Electronics and Communications*, **2017**, 78, 124-133	2.8	15
168	A NOMA-Based Q-Learning Random Access Method for Machine Type Communications. *IEEE Wireless Communications Letters*, **2020**, 9, 1720-1724	5.9	15
167	Ant colony input parameters optimization for multiuser detection in DS/CDMA systems. *Expert Systems With Applications*, **2012**, 39, 12876-12884	7.8	15
166	Examination of competitive lanthanide sorption onto smectites and its significance in the management of radioactive waste. *Journal of Hazardous Materials*, **2011**, 186, 1930-41	12.8	15
165	FBMC Prototype Filter Design via Convex Optimization. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 393-404	6.8	15
164	. *IEEE Access*, **2019**, 7, 29506-29519	3.5	14
163	Anomaly detection using DSNS and Firefly Harmonic Clustering Algorithm **2012**,		14
162	Fast Defense System Against Attacks in Software Defined Networks. *IEEE Access*, **2018**, 6, 69620-69639	3.5	14
161	Efficient Near-Optimum Detectors for Large MIMO Systems Under Correlated Channels. *Wireless Personal Communications*, **2015**, 83, 1287-1311	1.9	13
160	The effects of power control on the optical CDMA random access protocol. *Optical Switching and Networking*, **2012**, 9, 52-60	1.6	13
159	Power Allocation Scheme for OCDMA NG-PON With Proportional Integral Derivative Algorithms. *Journal of Optical Communications and Networking*, **2016**, 8, 645	4.1	13
158	Energy-efficient QoS-based OCDMA networks aided by nonlinear programming methods. *AEU - International Journal of Electronics and Communications*, **2019**, 98, 144-155	2.8	13
157	Adaptive current harmonic estimation under fault conditions for smart grid systems. *Electric Power Systems Research*, **2020**, 183, 106276	3.5	12
156	LR-Aided MIMO Detectors under Correlated and Imperfectly Estimated Channels. *Wireless Personal Communications*, **2014**, 77, 173-196	1.9	12
155	Particle Swarm and Quantum Particle Swarm Optimization Applied to DS/CDMA Multiuser Detection in Flat Rayleigh Channels **2006**,		12

154	A Grant-Based Random Access Protocol in Extra-Large Massive MIMO System. *IEEE Communications Letters*, **2020**, 24, 2478-2482	3.8	12
153	Uplink Performance of Single-Carrier Receiver in Massive MIMO With Pilot Contamination. *IEEE Access*, **2017**, 5, 8669-8681	3.5	11
152	Achieving Fair Random Access Performance in Massive MIMO Crowded Machine-Type Networks. *IEEE Wireless Communications Letters*, **2020**, 9, 503-507	5.9	11
151	Spectrum Sensing Methods for Cognitive Radio Networks: A Review. *Wireless Personal Communications*, **2017**, 95, 5003-5037	1.9	10
150	3-D Localization With Multiple LEDs Lamps in OFDM-VLC System. *IEEE Access*, **2019**, 7, 6249-6261	3.5	10
149	Energy-Efficient Next-Generation Passive Optical Networks Based on Sleep Mode and Heuristic Optimization. *Fiber and Integrated Optics*, **2015**, 34, 91-111	0.8	10
148	Lattice Reduction Aided Detector for MIMO Communication Via Ant Colony Optimisation. *Wireless Personal Communications*, **2014**, 77, 63-85	1.9	10
147	Monte Carlo method applied to modeling copper transport in river sediments. *Stochastic Environmental Research and Risk Assessment*, **2012**, 26, 1063-1079	3.5	10
146	Input Back-Off Optimization in OFDM Systems Under Ideal Pre-Distorters. *IEEE Wireless Communications Letters*, **2016**, 5, 464-467	5.9	10
145	Collision Resolution Protocol via Soft Decision Retransmission Criterion. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 4094-4097	6.8	9
144	Comparison of the electromyographic activity of the anterior trunk during the execution of two Pilates exercises - teaser and longspine - for healthy people. *Journal of Electromyography and Kinesiology*, **2014**, 24, 689-97	2.5	9
143	The electromyographic activity of the multifidus muscles during the execution of two pilates exercises--swan dive and breast stroke--for healthy people. *Journal of Manipulative and Physiological Therapeutics*, **2013**, 36, 319-26	1.3	9
142	Energy efficient adaptive optical CDMA random access protocol based on particle swarm optimization. *Photonic Network Communications*, **2017**, 33, 275-289	1.7	9
141	Fourier and wavelet spectral analysis of EMG signals in isometric and dynamic maximal effort exercise. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2010**, 2010, 5979-82	0.9	9
140	Low-Complexity Distributed XL-MIMO for Multiuser Detection **2020**,		9
139	Direction-of-Arrival Estimation Methods: A Performance-Complexity Tradeoff Perspective. *Journal of Signal Processing Systems*, **2020**, 92, 239-256	1.4	9
138	Power and Subcarrier Allocation Strategies for Energy-Efficient Uplink OFDMA Systems. *IEEE Journal on Selected Areas in Communications*, **2016**, 34, 3142-3156	14.2	8
137	Energy-efficiency maximisation for cooperative and non-cooperative OFDMA cellular networks survey. *Transactions on Emerging Telecommunications Technologies*, **2016**, 27, 216-248	1.9	8

136	Auto-Tuning PID Distributed Power Control for Next-Generation Passive Optical Networks. *Journal of Optical Communications and Networking*, **2018**, 10, D110	4.1	8
135	Wavelet against random forest for anomaly mitigation in software-defined networking. *Applied Soft Computing Journal*, **2019**, 80, 138-153	7.5	7
134	Mitigation of Environmental Temperature Variation Effects in OCDMA Networks Using PSO Power Control. *Journal of Optical Communications and Networking*, **2015**, 7, 707	4.1	7
133	Adaptive PID Scheme for OCDMA Next Generation PON Based on Heuristic Swarm Optimization. *IEEE Systems Journal*, **2019**, 13, 500-510	4.3	7
132	Achieving Maximum Effective Capacity in OFDMA Networks Operating Under Statistical Delay Guarantee. *IEEE Access*, **2017**, 5, 14333-14346	3.5	7
131	Sequential likelihood ascent search detector for massive MIMO systems. *AEU - International Journal of Electronics and Communications*, **2018**, 96, 30-39	2.8	7
130	Sorption and desorption of silver ions by bentonite clays. *Environmental Science and Pollution Research*, **2017**, 24, 11349-11359	5.1	6
129	Leachability of major and minor elements from soils and sediments of an abandoned coal mining area in Southern Brazil. *Environmental Monitoring and Assessment*, **2015**, 187, 83	3.1	6
128	Delay and estimation uncertainty in distributed power control algorithm for optical CDMA networks. *Optical Switching and Networking*, **2016**, 21, 67-78	1.6	6
127	Adaptive Power Control Algorithm for Dynamical Transmitted Power Optimization in Mixed-Line-Rate Optical Networks. *IEEE Communications Letters*, **2018**, 22, 2032-2035	3.8	6
126	Networking Anomaly Detection Using DSNs and Particle Swarm Optimization with Re-Clustering **2010**,		6
125	Fourier and wavelet spectral analysis of EMG signals in supramaximal constant load dynamic exercise. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2010**, 2010, 1364-7	0.9	6
124	Machine learning-based models for spectrum sensing in cooperative radio networks. *IET Communications*, **2020**, 14, 3102-3109	1.3	6
123	Exponential spatial correlation with large-scale fading variations in massive MIMO channel estimation. *Transactions on Emerging Telecommunications Technologies*, **2019**, 30, e3563	1.9	5
122	Energy and spectral efficiencies trade-off with filter optimisation in multiple access interference-aware networks. *Transactions on Emerging Telecommunications Technologies*, **2015**, 26, 670-685	1.9	5
121	Energy Efficiency Analysis in Adaptive FEC-Based Lightpath Elastic Optical Networks. *Journal of Circuits, Systems and Computers*, **2015**, 24, 1550133	0.9	5
120	Ordered MMSE-SIC via sorted QR decomposition in ill conditioned large-scale MIMO channels. *Telecommunication Systems*, **2016**, 63, 335-346	2.3	5
119	Bayesian estimators for cooperative spectrum sensing in cognitive radio networks **2017**,		5

118	Relay selection methods for maximizing the lifetime of wireless sensor networks **2013**,		5
117	Augmented Lagrangian combined to evolutionary heuristic for energy efficiency in OCDMA networks. *Optical Switching and Networking*, **2020**, 36, 100542	1.6	5
116	Stochastic channel models for massive and extreme large multiple-input multiple-output systems. *Transactions on Emerging Telecommunications Technologies*, **2020**, 31, e4099	1.9	5
115	MIMO transmit scheme based on morphological perceptron with competitive learning. *Neural Networks*, **2016**, 80, 9-18	9.1	5
114	Closed-Form Directivity Expression for Arbitrary Volumetric Antenna Arrays. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 7443-7448	4.9	5
113	Quasi-Distributed Antenna Selection for Spectral Efficiency Maximization in Subarray Switching XL-MIMO Systems. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 6713-6725	6.8	5
112	Joint uplink and downlink optimization of pilot assignment for massive MIMO with power control. *Transactions on Emerging Telecommunications Technologies*, **2017**, 28, e3250	1.9	5
111	Energy efficiency in optical CDMA networks with forward error correction. *Photonic Network Communications*, **2016**, 31, 1-10	1.7	4
110	Game Theory Based Resource Allocation in Multi-Cell Massive MIMO OFDMA Networks **2017**,		4
109	Total Energy Efficiency of TR-MRC and FD-MRC Receivers for Massive MIMO Uplink. *IEEE Systems Journal*, **2019**, 13, 2285-2296	4.3	4
108	A new approach to evaluate toxic metal transport in a catchment. *Environmental Monitoring and Assessment*, **2020**, 192, 234	3.1	4
107	Heuristic Chaotic Hurricane-Aided Efficient Power Assignment for Elastic Optical Network. *IEEE Access*, **2020**, 8, 83359-83374	3.5	4
106	Randomized Kaczmarz algorithm for massive MIMO systems with channel estimation and spatial correlation. *International Journal of Communication Systems*, **2019**, 32, e4158	1.7	4
105	Game Theoretic Energy Efficiency Design in MC-CDMA Cooperative Networks. *IEEE Sensors Journal*, **2014**, 14, 3065-3075	4	4
104	Particle swarm optimization in WDM/OCDM networks with physical impairments. *Journal of Microwaves, Optoelectronics and Electromagnetic Applications*, **2013**, 12, 336-352	0.7	4
103	Análise comparativa da atividade elétrica do músculo multífido durante exercícios do Pilates, série de Williams e Spine Stabilization. *Fisioterapia Em Movimento*, **2013**, 26, 87-94	0.8	4
102	Fourier and wavelet spectral analysis of EMG signals in maximal constant load dynamic exercise. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2010**, 2010, 4622-5	0.9	4
101	Local search multiuser detection. *AEU - International Journal of Electronics and Communications*, **2009**, 63, 259-270	2.8	4

100	S/MIMO MC-CDMA Heuristic Multiuser Detectors Based on Single-Objective Optimization. *Wireless Personal Communications*, **2010**, 53, 529-553	1.9	4
99	Simplified Local Search Algorithm for Multiuser Detection in Multipath Rayleigh Channels **2007**,		4
98	Predistortion and pre-equalization for nonlinearities and low-pass effect mitigation in OFDM-VLC systems. *Applied Optics*, **2019**, 58, 5328-5338	1.7	4
97	Low-Complexity Massive MIMO Detectors Under Spatial Correlation and Channel Error Estimates. *Wireless Personal Communications*, **2019**, 106, 2335-2358	1.9	3
96	Improved weighted average consensus in distributed cooperative spectrum sensing networks. *Transactions on Emerging Telecommunications Technologies*, **2018**, 29, e3259	1.9	3
95	Stability analysis in Gram-Schmidt QR decomposition. *IET Signal Processing*, **2016**, 10, 912-917	1.7	3
94	Efficient detection in uniform linear and planar arrays MIMO systems under spatial correlated channels. *International Journal of Communication Systems*, **2018**, 31, e3697	1.7	3
93	Low-complexity Kaczmarz precoding in DL massive MIMO with partial CSI and correlation. *Physical Communication*, **2019**, 37, 100902	2.2	3
92	Efficient multitap equalization for FBMC-OQAM systems. *Transactions on Emerging Telecommunications Technologies*, **2019**, 30, e3775	1.9	3
91	Efficient Lattice Reduction Aided Detectors Under Realistic MIMO Channels. *Wireless Personal Communications*, **2017**, 95, 947-978	1.9	3
90	PAPR and saturation effects of power amplifiers in SM OFDM and V-BLAST OFDM systems **2014**,		3
89	Multiple Access Network Optimization Aspects via Swarm Search Algorithms **2011**,		3
88	Performance analysis of a single-user MISO ultra-wideband time reversal system with DFE. *Telecommunication Systems*, **2011**, 46, 333-342	2.3	3
87	Power Allocation in Multirate DS/CDMA Systems Based on Verhulst Equilibrium **2010**,		3
86	Multiple restarts mixed Gibbs sampling detector for large-scale antenna systems. *IET Signal Processing*, **2019**, 13, 273-285	1.7	3
85	Closed-Form Bit Error Probabilities for FBMC Systems. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 1237-1244	6.8	3
84	Power Allocation in PON-OCDMA with Improved Chaos Particle Swarm Optimization. *Journal of Microwaves, Optoelectronics and Electromagnetic Applications*, **2018**, 17, 268-283	0.7	3
83	Efficient detectors for MIMO-OFDM systems under spatial correlation antenna arrays. *ETRI Journal*, **2018**, 40, 570-581	1.4	3

82	Power allocation scheme for mitigation of fiber temperature fluctuations in OCDMA networks based on firefly algorithm. *Optical Switching and Networking*, **2018**, 30, 1-9	1.6	3
81	. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 6788-6799	6.8	3
80	Distributed average consensus optimization for cooperative spectrum sensing in cognitive radio ad hoc networks. *Transactions on Emerging Telecommunications Technologies*, **2020**, 31, e3965	1.9	3
79	D2D Assisted Q-Learning Random Access for NOMA-Based MTC Networks. *IEEE Access*, **2022**, 10, 30694-30706	3.9	3
78	Message passing detection for large-scale MIMO systems: damping factor analysis. *IET Signal Processing*, **2017**, 11, 923-935	1.7	2
77	Massive MIMO pilot assignment optimization based on total capacity. *Telecommunication Systems*, **2018**, 69, 489-503	2.3	2
76	Efficient ZF-WF strategy for sum-rate maximization of MU-MISO cognitive radio networks. *AEU - International Journal of Electronics and Communications*, **2018**, 84, 366-374	2.8	2
75	Performance and complexity analysis of sub-optimum MIMO detectors under correlated channel **2014**,		2
74	Spectral analysis of electromyographic signal in supramaximal effort in cycle ergometer using Fourier and Wavelet transforms: a comparative study. *Revista Andaluza De Medicina Del Deporte*, **2012**, 5, 48-52	1	2
73	Sequence design for MPG QS-CDMA systems based on heuristic combinatorial optimization. *Wireless Communications and Mobile Computing*, **2012**, 12, 236-247	1.9	2
72	A comparative analysis of three metaheuristic methods applied to fuzzy cognitive maps learning. *Pesquisa Operacional*, **2013**, 33, 443-465	0.3	2
71	Constrained least square pre-distortion scheme for multiuser ultra-wideband. *IET Communications*, **2012**, 6, 1334	1.3	2
70	Improvement of MISO Single-User Time Reversal Ultra-Wideband Using a DFE Channel Equalizer **2008**,		2
69	Particle swarm optimization assisted multiuser detector for M-QAM DS/CDMA systems **2008**,		2
68	Multirate Multiuser DS/CDMA with Genetic Algorithm Detection in Multipath Channels **2006**,		2
67	Genetic Algorithm Applied to Multipath Multiuser Channel Estimation in DS/CDMA Systems **2006**,		2
66	Wavelength widths of optical filters for optimum SINR in WDM-VLC systems. *Applied Optics*, **2020**, 59, 5615	1.7	2
65	Análise espectral do sinal EMG de exercício incremental em ciclistas e não ciclistas usando as transformadas de Fourier e Wavelet. *Revista Brasileira De Cineantropometria E Desempenho Humano*, **2012**, 14,	0.1	2

64	XL-MIMO energy-efficient antenna selection under non-stationary channels. *Physical Communication*, **2020**, 43, 101189	2.2	2
63	Lotka-Volterra distributed power control model for OCDMA systems. *AEU - International Journal of Electronics and Communications*, **2021**, 135, 153722	2.8	2
62	Cooperative multi-cellular large MIMO over asynchronous channel training. *International Journal of Communication Systems*, **2016**, 29, 2330-2348	1.7	2
61	On the Sum-Rate of Contention Resolution in Massive MIMO With NOMA. *IEEE Access*, **2021**, 9, 24965-24974	3.5	2
60	Energy-efficient flexible and fixed antenna selection methods for XL-MIMO systems. *AEU - International Journal of Electronics and Communications*, **2021**, 130, 153568	2.8	2
59	Hybrid Hughes-Hartogs power allocation algorithms for OFDMA systems. *IET Signal Processing*, **2018**, 12, 1185-1192	1.7	2
58	Energy and spectral efficiencies trade-off in MIMO-NOMA system under user-rate fairness and variable user per cluster. *Physical Communication*, **2021**, 47, 101348	2.2	2
57	Nonorthogonal multiple access systems optimization to ensure maximum fairness to users. *Transactions on Emerging Telecommunications Technologies*, **2020**, 31, e3875	1.9	2
56	Theoretical error for asynchronous multi-user large-scale MIMO channel estimation. *IET Communications*, **2017**, 11, 17-24	1.3	1
55	Near-perfect reconstruction short length pulses for FBMC systems: re-optimising OFDP design via semi-definite programming. *IET Signal Processing*, **2019**, 13, 701-707	1.7	1
54	Bit-error-rate minimisation in multiuser transmission schemes for multiple-input multiple-output communication with increasing number of base station antennas. *IET Communications*, **2015**, 9, 1960-1967	1.3	1
53	MIMO Precoding for Correlated Fading Channels. *Journal of Circuits, Systems and Computers*, **2016**, 25, 1650041	0.9	1
52	Time-delay and estimation uncertainty impact on the heuristic-based power control of optical networks. *Optical and Quantum Electronics*, **2016**, 48, 1	2.4	1
51	DE/PSO-aided hybrid linear detectors for MIMO-OFDM systems under correlated arrays. *Transactions on Emerging Telecommunications Technologies*, **2018**, 29, e3495	1.9	1
50	**2019**,		1
49	SIR optimization in wavelength-hopping time spreading optical code routed networks. *Optik*, **2013**, 124, 3208-3214	2.5	1
48	Firefly Algorithm in Telecommunications **2015**, 43-72		1
47	Analysis and Modeling of Brazilian Indoor PLC Channels Controlled Environment - Testing and Validation. *IEEE Latin America Transactions*, **2015**, 13, 2473-2481	0.7	1

46	Ant Colony Input Parameters Optimization for Multiuser Detection in DS/CDMA Systems. *IEEE Latin America Transactions*, **2014**, 12, 1355-1364	0.7	1
45	Hybrid local search polynomial-expanded linear multiuser detector for DS/CDMA systems. *International Journal of Wireless and Mobile Computing*, **2013**, 6, 18	0.4	1
44	Pre-distortion schemes for MISO single-user ultra-wideband systems **2011**,		1
43	Channel reliability in turbo-coded DS/CDMA systems under Rayleigh fading channels **2008**,		1
42	Performance of MISO Time Reversal Ultra-Wideband over an 802.15.3a Channel Model **2008**,		1
41	DS/CDMA Multiuser Detection Based on Polynomial Expansion Subspace Signal. *IEEE Latin America Transactions*, **2008**, 6, 371-381	0.7	1
40	Weighting Particle Swarm Optimization SIMO MC-CDMA Multiuser Detectors **2008**,		1
39	GA, SA, and TS near-optimum multiuser detectors for s/MIMO MC-CDMA systems **2008**,		1
38	Genetic algorithm multiuser detection in fading channel with errors in the estimates of parameters		1
37	Set of Sequences for QS-CDMA Systems with Multi-User Detection and Multipath-Fading Channels. *Wireless Personal Communications*, **2005**, 33, 35-51	1.9	1
36	Spectrum sensing optimization in uncalibrated massive antennas systems. *Physical Communication*, **2021**, 49, 101484	2.2	1
35	Hopfield learning-based and non-linear programming methods for resource allocation in OCDMA networks. *IET Communications*, **2020**, 14, 1925-1936	1.3	1
34	Adjustable threshold LAS massive MIMO detection under imperfect CSI and spatial correlation. *Physical Communication*, **2020**, 38, 100971	2.2	1
33	Adaptive chaotic hurricane-aided efficient power assignment for elastic optical networks. *Optical Switching and Networking*, **2020**, 39, 100595	1.6	1
32	Energy and spectral efficiency trade-off in OCDMA-PON assisted by non-linear programming methods. *Computer Networks*, **2021**, 189, 107920	5.4	1
31	Antenna selection in nonorthogonal multiple access multiple-input multiple-output systems aided by machine learning. *Transactions on Emerging Telecommunications Technologies*, **2021**, 32, e4283	1.9	1
30	Linear detection analysis in MIMO-OFDM with spatial correlation **2016**,		1
29	Modeling and mitigation of spectral crosstalk in OFDM WDM-VLC system. *Optics Communications*, **2021**, 478, 126361	2	1

28	Resource efficiency and pilot decontamination in XL-MIMO double-scattering correlated channels. *Transactions on Emerging Telecommunications Technologies*,e4365	1.9	1
27	Modeling the kinetics of potentially toxic elements desorption in sediment affected by a dam breakdown disaster in Doce River - Brazil. *Chemosphere*, **2021**, 283, 131157	8.4	1
26	Exploring the Non-Overlapping Visibility Regions in XL-MIMO Random Access and Scheduling. *IEEE Transactions on Wireless Communications*, **2022**, 1-1	9.6	1
25	Machine learning-aided pilot and power allocation in multi-cellular massive MIMO networks. *Physical Communication*, **2022**, 52, 101646	2.2	1
24	Transport of radioselenium oxyanions by diffusion in unsaturated soils. *Radiochimica Acta*, **2015**, 103, 501-511	1.9	0
23	SDR Lattice-Reduction-Aided Detector. *IEEE Latin America Transactions*, **2013**, 11, 1007-1014	0.7	0
22	Jointly multi-user detection and channel estimation with genetic algorithm. *Wireless Communications and Mobile Computing*, **2011**, 11, 767-782	1.9	0
21	Throughput and latency in the distributed Q-learning random access mMTC networks. *Computer Networks*, **2022**, 206, 108787	5.4	0
20	Massive MIMO and NOMA bits-per-antenna efficiency under power allocation policies. *Physical Communication*, **2022**, 51, 101588	2.2	0
19	Increasing energy efficiency in OCDMA network via distributed power control. *Journal of Microwaves, Optoelectronics and Electromagnetic Applications*, **2012**, 11, 39-55	0.7	0
18	Non-linear biobjective EE-SE optimization for NOMA-MIMO systems under user-rate fairness and variable number of users per cluster. *AEU - International Journal of Electronics and Communications*, **2021**, 138, 153870	2.8	0
17	Halton-Chaos and ALPSO power allocation methods for passive optical CDMA networks. *AEU - International Journal of Electronics and Communications*, **2021**, 139, 153911	2.8	0
16	Clustered Double-Scattering Channel Modeling for XL-MIMO With Uniform Arrays. *IEEE Access*, **2022**, 10, 20173-20186	3.5	0
15	User-Centric Perspective in Random Access Cell-Free Aided by Spatial Separability. *IEEE Internet of Things Journal*, **2022**, 1-1	10.7	0
14	Subcarrier and Power Allocation Algorithm for Spectral Efficiency Maximization in Superposition Coding OFDMA Systems. *Journal of Circuits, Systems and Computers*, **2015**, 24, 1550061	0.9	
13	Guided Search MIMO Detectors aided by Lattice Reduction under Correlated Channels. *IEEE Latin America Transactions*, **2015**, 13, 599-608	0.7	
12	BER minimisation via optimal power allocation and eigenbeamforming in MIMO systems. *Telecommunication Systems*, **2019**, 70, 277-293	2.3	
11	MMSE Pre-distortion Scheme for Multiuser UWB. *Wireless Personal Communications*, **2013**, 70, 1307-1319	1.9	

10	Hybrid 1-opt Local Search Polynomial-Expanded Linear Multiuser Detectors. *IEEE Latin America Transactions*, **2013**, 11, 1169-1175	0.7
9	The Impact of Geographic Distribution in Passive Optical Network with Optical CDMA. *IEEE Latin America Transactions*, **2015**, 13, 2152-2158	0.7
8	Local Search Detection in Multiple Access DS/CDMA Networks. *IEEE Latin America Transactions*, **2012**, 10, 1482-1488	0.7
7	Power-Rate Allocation in DS/CDMA Systems Based on Discretized Verhulst Equilibrium. *IEEE Latin America Transactions*, **2011**, 9, 681-689	0.7
6	Channel Reliability for Turbo DS/CDMA Systems under Rayleigh Fading and Multiple Access Interference. *IEEE Latin America Transactions*, **2010**, 8, 1-8	0.7
5	Low-margin Efficient Power and Spectrum Assignment in Elastic Optical Networks. *Optical Switching and Networking*, **2021**, 43, 100649	1.6
4	Estimation Uncertainties in the Optical Signal-to-Noise Ratio Network Optimization. *Journal of Microwaves, Optoelectronics and Electromagnetic Applications*, **2016**, 15, 1-17	0.7
3	Improved MB Cognitive Radio Spectrum Sensing Using Wavelet Spectrum Filtering. *Journal of Circuits, Systems and Computers*, **2019**, 28, 1950136	0.9
2	Water Resource Management Aided by Game Theory. *Springer Water*, **2021**, 217-262	0.3
1	CNN-aided multiple PU spectrum sensing in uncalibrated massive antennas SU system. *Physical Communication*, **2022**, 101715	2.2