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List of Publications by Year
in descending order

89	827	687363 13	610901 24
papers	citations	h-index	g-index

90	90	90	537
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low complexity hybrid SLM for PAPR mitigation for ACO OFDM. ICT Express, 2022, 8, 72-76.	4.8	7
2	Memory Channel Models of a Hybrid PLC-VLC Link for a Smart Underground Mine. IEEE Internet of Things Journal, 2022, 9, 11893-11903.	8.7	10
3	PAPR Reduction in Optical OFDM Using Lexicographical Permutations With Low Complexity. IEEE Access, 2022, 10, 1706-1713.	4.2	7
4	Long Short Term Memory Water Quality Predictive Model Discrepancy Mitigation Through Genetic Algorithm Optimisation and Ensemble Modeling. IEEE Access, 2022, 10, 24638-24658.	4.2	13
5	Generalized Permutation Coded OFDM-MFSK in Hybrid Powerline and Visible Light Communication. IEEE Access, 2022, 10, 20783-20792.	4.2	5
6	Electricity Theft Detection in Smart Grids Based on Deep Neural Network. IEEE Access, 2022, 10, 39638-39655.	4.2	42
7	An optimization planning framework for allocating multiple distributed energy resources and electric vehicle charging stations in distribution networks. Applied Energy, 2022, 322, 119513.	10.1	24
8	Optimization algorithms for improving the performance of permutation trellis codes. Physical Communication, 2021, 44, 101237.	2.1	3
9	Structured Light in Turbulence. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-21.	2.9	79
10	Effect of d-Dimensional Re-orderings on Lossless Compression of Radio-Astronomy and Digital Elevation Data. IEEE Access, 2021, 9, 80415-80433.	4.2	0
11	Miscellaneous Energy Profile Management Scheme for Optimal Integration of Electric Vehicles in a Distribution Network Considering Renewable Energy Sources. , 2021, , .		2
12	Predictive Syndrome Based Low Complexity Joint Iterative Detection-Decoding Algorithm for Non-Binary LDPC Codes. IEEE Access, 2021, 9, 33464-33477.	4.2	5
13	Markov Model Characterization of a Multicarrier Narrowband Powerline Channel With Memory in an Underground Mining Environment. IEEE Access, 2021, 9, 59085-59092.	4.2	6
14	A Review of Metaheuristic Techniques for Optimal Integration of Electrical Units in Distribution Networks. IEEE Access, 2021, 9, 5046-5068.	4.2	35
15	Fritchman modeling for correlated turbulence-induced errors in FSO communication. Applied Optics, 2021, 60, 1801.	1.8	4
16	MARVEL: Multi-agent reinforcement learning for VANET delay minimization. China Communications, 2021, 18, 1-11.	3.2	5
17	Channel models for an indoor power line communication system. , 2021, , 67-108.		4
18	Soft-Decision Decoding of Permutation-Based Optical Codes for a Multiple Access System. IEEE Communications Letters, 2021, 25, 2824-2828.	4.1	3

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19	Symbol-Level Synchronization Channel Modeling With Real-World Application: From Davey-MacKay, Fritchman to Markov. IEEE Access, 2021, 9, 79752-79765.	4.2	1
20	Category-Based Multiobjective Approach for Optimal Integration of Distributed Generation and Energy Storage Systems in Distribution Networks. IEEE Access, 2021, 9, 28237-28250.	4.2	13
21	A Subcarrier Permutation Scheme for Noise Mitigation and Multi-Access in Powerline Channels. , 2021, , .		2
22	A Coordinated Charging Model for Electric Vehicles in a Smart Grid using Whale Optimization Algorithm. , 2020, , .		9
23	Short-sighted deep learning. Physical Review E, 2020, 102, 013307.	2.1	1
24	Convergence of mobile broadband and broadcast services: A cognitive radio sensing and sharing perspective. Intelligent and Converged Networks, 2020, 1, 99-114.	4.8	16
25	Low Complexity Bit Reliability and Predication Based Symbol Value Selection Decoding Algorithms for Non-Binary LDPC Codes. IEEE Access, 2020, 8, 142691-142703.	4.2	8
26	Two-Step Surface Damage Detection Scheme using Convolutional Neural Network and Artificial Neural Network. , 2020, , .		4
27	Prediction and Voting Based Symbol Flipping Non-Binary LDPC Decoding Algorithms. , 2020, , .		3
28	Visible Light Communication System Employing Space Time Coded Relay Nodes and Imaging Receivers. SAIEE Africa Research Journal, 2020, 111, 56-64.	1.2	4
29	Wireless- Powered UAV assisted Communication System in Nakagami-m Fading Channels. , 2020, , .		4
30	Is Deep Learning a Renormalization Group Flow?. IEEE Access, 2020, 8, 106487-106505.	4.2	14
31	Indoor amplify-and-forward power-line and visible light communication channel model based on a semi-hidden Markov model. AEU - International Journal of Electronics and Communications, 2020, 124, 153108.	2.9	10
32	Solving MKP Applied to IoT in Smart Grid Using Meta-heuristics Algorithms: A Parallel Processing Perspective. , 2020, , .		0
33	Transmitter power control for a multicarrier visible light communication system. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3453.	3.9	4
34	A High-Speed, Wavelength Invariant, Single-Pixel Wavefront Sensor With a Digital Micromirror Device. IEEE Access, 2019, 7, 85860-85866.	4.2	15
35	Subcarrier and Power Allocations for Enhanced ADO-OFDM with Dimming Control. , 2019, , .		1
36	Index Modulation Based Hybrid Dimming Scheme for Visible Light Communication. , 2019, , .		2

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37	Spectral-Efficient Hybrid Dimming Scheme for Indoor Visible Light Communication: A Subcarrier Index Modulation Based Approach. Journal of Lightwave Technology, 2019, 37, 5756-5765.	4.6	16
38	Time diversity scheme and adaptive signal clipping with blanking applied to G3 systems for narrowband powerâ€line communications. International Journal of Communication Systems, 2019, 32, e3917.	2.5	2
39	Modelling noise and pulse width modulation interference in indoor visible light communication channels. AEU - International Journal of Electronics and Communications, 2019, 106, 40-47.	2.9	9
40	The Resilience of Hermiteâ€“ and Laguerreâ€“Gaussian Modes in Turbulence. Journal of Lightwave Technology, 2019, 37, 3911-3917.	4.6	51
41	Discrete Flower Pollination Algorithm for Solving the Symmetric Travelling Salesman Problem. , 2019, , .		3
42	Impulse Noise Mitigation Using Subcarrier Coding of OFDM-MFSK Scheme in Powerline Channel. , 2019, , .		4
43	Long-Bone Fracture Detection using Artificial Neural Networks based on Line Features of X-ray Images. , 2019, , .		23
44	Permutation-Aided Space-Time Shift Keying for Indoor Visible Light Communication. , 2019, , .		2
45	Digital micro-mirror devices for laser beam shaping. , 2019, , .		1
46	Visible light communication using a software-defined radio approach. , 2019, , .		1
47	Tackling Africaâ€™s digital divide. Nature Photonics, 2018, 12, 249-252.	31.4	44
48	SAM: A Meta-Heuristic Algorithm for Singlemachine Scheduling Problems. SAIEE Africa Research Journal, 2018, 109, 58-68.	1.2	0
49	Generalized Spatial Modulation Based Hybrid Dimming Scheme for Visible Light Communication. , 2018, , .		2
50	An Overview of OFDM-Based Visible Light Communication Systems From the Perspective of Energy Efficiency Versus Spectral Efficiency. IEEE Access, 2018, 6, 60824-60833.	4.2	47
51	Sparse Channel Estimation for MIMO Systems based on Time-Domain Training Sequence Optimization. , 2018, , .		0
52	Spectral-Efficient Generalized Spatial Modulation Based Hybrid Dimming Scheme With LACO-OFDM in VLC. IEEE Access, 2018, 6, 41153-41162.	4.2	35
53	First and Second-Order Semi-Hidden Fritchman Markov models for a multi-carrier based indoor narrowband power line communication system. Physical Communication, 2018, 29, 55-66.	2.1	10
54	Modal Diversity for Robust Free-Space Optical Communications. Physical Review Applied, 2018, 10, .	3.8	31

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55	Bridging the digital divide: a South African perspective. , 2018, , .		1
56	Single Machine Slack Due-Window Assignment and Scheduling of Linear Time-Dependent Deteriorating Jobs and a Deteriorating Maintenance Activity. Open Access Library Journal (oalib), 2018, 05, 1-9.	0.2	0
57	A semi-hidden Fritchman Markov modeling of indoor CENELEC A narrowband power line noise based on signal level measurements. AEU - International Journal of Electronics and Communications, 2017, 74, 21-30.	2.9	5
58	Interleaved Constrained Codes With Markers Correcting Bursts of Insertions or Deletions. IEEE Communications Letters, 2017, 21, 702-705.	4.1	6
59	Evaluation of mixed permutation codes in PLC channels, using Hamming distance profile. Telecommunication Systems, 2017, 65, 169-179.	2.5	4
60	Hybrid PLCâ€VLC channel model and spectral estimation using a nonparametric approach. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3224.	3.9	20
61	An overview of colour LED & CFL lighting interference on the low voltage PLC network. , 2017, , .		2
62	Information leakage of heterogeneous encoded correlated sequences over an eavesdropped channel. , 2015, , .		3
63	Codes for correcting three or more adjacent deletions or insertions. , 2014, , .		27
64	An OFDM inter-subcarrier permutation coding scheme for power-line communication. , 2014, , .		3
65	Adaptive rateless permutation coding scheme for OFDM-based PLC. , 2013, , .		7
66	Modeling of in-house CENELEC A-band PLC channel using Fritchman model and Baum-Welch algorithm. , 2013, , .		5
67	Spatial-Spectral Watermarking Scheme for Jpeg Steganography. SAIEE Africa Research Journal, 2013, 104, 154-160.	1.2	1
68	Error pattern/behavior of noise in in-house CENELEC A-Band PLC channel. , 2012, , .		5
69	Time-diversity permutation coding scheme for narrow-band power-line channels. , 2012, , .		19
70	A Comparative Study on the Distance-Optimality for Distance-Preserving Mappings Constructions with Cyclic-Shift Prefix Technique. SAIEE Africa Research Journal, 2012, 103, 155-164.	1.2	0
71	Moment Balancing Templates for (d,k)-Constrained Codes and Run-Length Limited Sequences. IEEE Transactions on Information Theory, 2012, 58, 2244-2252.	2.4	2
72	Adaptive transmit-power control scheme for cognitive radios. , 2011, , .		0

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73	Moment Balancing Templates for Spectral Null Codes. IEEE Transactions on Information Theory, 2010, 56, 3749-3753.	2.4	2
74	Correcting Deletions Using Linear and Cyclic Codes. IEEE Transactions on Information Theory, 2010, 56, 5223-5234.	2.4	10
75	Moment balancing templates for (d, k) constrained codes. , 2010, , .		0
76	Moment Balancing Templates: Constructions to Add Insertion/Deletion Correction Capability to Error Correcting or Constrained Codes. IEEE Transactions on Information Theory, 2009, 55, 3494-3500.	2.4	6
77	Distance-optimality study for permutation codes using cyclic-shift prefix/suffix technique. , 2009, , .		0
78	Re-synchronization of permutation codes with Viterbi-like decoding. , 2009, , .		6
79	Binary permutation sequences as subsets of Levenshtein codes, spectral null codes, run-length limited codes and constant weight codes. Designs, Codes, and Cryptography, 2008, 48, 141-154.	1.6	4
80	k-bit grouping moment balancing templates for spectral shaping codes. , 2008, , .		3
81	Synchronization using insertion/deletion correcting permutation codes. , 2008, , .		6
82	On Linear and Cyclic Codes for Correcting Deletions. , 2007, , .		6
83	Moment Balancing Templates: Universal Constructions to Add Insertion/Deletion Correction Capability to Arbitrary Error Correcting or Constrained Codes. , 2007, , .		3
84	Spectral Shaping Technique for Permutation Distance-Preserving Mapping Codes. , 2007, , .		6
85	A post-modulation scheme to correct insertion/deletion/substitution errors using the Dc²-balanced codes. , 2007, , .		0
86	Bidirectional Viterbi Decoding using the Levenshtein Distance Metric for Deletion Channels. , 2006, , .		7
87	On combined spectral shaping coding and M-FSK modulation for power line communications. , 2005, , .		2
88	Rate-compatible path-pruned convolutional codes and their applications on channels with insertion, deletion and substitution errors. , 2005, , .		4
89	Rate-compatible pruned convolutional codes and Viterbi decoding with the Levenshtein distance metric applied to channels with insertion, deletion, and substitution errors. , 0, , .		2