

Enggee Lim

List of Publications by Year in descending order

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132
papers

1,358
citations

361413

20
h-index

414414

32
g-index

135
all docs

135
docs citations

135
times ranked

1104
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Wavelet Analysis and Its Applications: Challenges and Opportunities. IEEE Access, 2022, 10, 58869-58903.	4.2	87
2	An Implantable and Conformal Antenna for Wireless Capsule Endoscopy. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1153-1157.	4.0	84
3	Deep Learning Based Multistep Solar Forecasting for PV Ramp-Rate Control Using Sky Images. IEEE Transactions on Industrial Informatics, 2021, 17, 1397-1406.	11.3	84
4	Application of simulated annealing to design of serial feed sequentially rotated 2 Å— 2 antenna array. Electronics Letters, 2000, 36, 1987.	1.0	69
5	Bioâ€Inspired Photoelectric Artificial Synapse based on Twoâ€Dimensional Ti₃C₂T<i>x</i> MXenes Floating Gate. Advanced Functional Materials, 2021, 31, 2106000.	14.9	59
6	Tuning of Kalman Filter Parameters via Genetic Algorithm for State-of-Charge Estimation in Battery Management System. Scientific World Journal, The, 2014, 2014, 1-11.	2.1	50
7	A Beaconless Asymmetric Energy-Efficient Time Synchronization Scheme for Resource-Constrained Multi-Hop Wireless Sensor Networks. IEEE Transactions on Communications, 2020, 68, 1716-1730.	7.8	50
8	Wearable EBG-Backed Belt Antenna for Smart On-Body Applications. IEEE Transactions on Industrial Informatics, 2020, 16, 7177-7189.	11.3	43
9	Electron trapping & blocking effect enabled by MXene/TiO2 intermediate layer for charge regulation of triboelectric nanogenerators. Nano Energy, 2022, 98, 107236.	16.0	36
10	Wideband Loop Antenna With Split-Ring Resonators for Wireless Medical Telemetry. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1415-1419.	4.0	34
11	Power ramp-rates of utility-scale PV systems under passing clouds: Module-level emulation with cloud shadow modeling. Applied Energy, 2020, 268, 114980.	10.1	33
12	State-of-Art Power Line Communications Channel Modelling. Procedia Computer Science, 2013, 17, 563-570.	2.0	29
13	Energy-Efficient Time Synchronization Based on Asynchronous Source Clock Frequency Recovery and Reverse Two-Way Message Exchanges in Wireless Sensor Networks. IEEE Transactions on Communications, 2016, , 1-1.	7.8	29
14	Sensor network based PV power nowcasting with spatio-temporal preselection for grid-friendly control. Applied Energy, 2019, 255, 113760.	10.1	26
15	Adaptive ROI generation for video object segmentation using reinforcement learning. Pattern Recognition, 2020, 106, 107465.	8.1	26
16	Medical Applications of Microwave Imaging. Scientific World Journal, The, 2014, 2014, 1-7.	2.1	25
17	Discriminative Triad Matching and Reconstruction for Weakly Referring Expression Grounding. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 4189-4195.	13.9	25
18	Multiobjective genetic algorithm approach for a dual-feed circular polarised patch antenna design. Electronics Letters, 2000, 36, 1005.	1.0	22

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19	Photovoltaic Modified \hat{I}^2 -Parameter-based MPPT Method with Fast Tracking. Journal of Power Electronics, 2016, 16, 9-17.	1.5	22
20	Low-Complexity Semiblind Multi-CFO Estimation and ICA-Based Equalization for CoMP OFDM Systems. IEEE Transactions on Vehicular Technology, 2014, 63, 1928-1934.	6.3	21
21	Investigation of magnetic resonance coupling circuit topologies for wireless power transmission. Microwave and Optical Technology Letters, 2019, 61, 1755-1763.	1.4	20
22	Resistive switching behavior of solution-processed AlO _x and GO based RRAM at low temperature. Solid-State Electronics, 2020, 168, 107735.	1.4	19
23	Iterative Shrinking for Referring Expression Grounding Using Deep Reinforcement Learning. , 2021, , .		18
24	A Conformal Split-Ring Loop as a Self-Resonator for Wireless Power Transfer. IEEE Access, 2020, 8, 911-919.	4.2	17
25	A 403 MHz Wireless Power Transfer System With Tuned Split-Ring Loops for Implantable Medical Devices. IEEE Transactions on Antennas and Propagation, 2022, 70, 1355-1366.	5.1	16
26	W-doped TiO ₂ as electron transport layer for high performance solution-processed perovskite solar cells. Applied Surface Science, 2021, 563, 150298.	6.1	15
27	An efficient formula for the input impedance of a microstrip right-angled isosceles triangular patch antenna. IEEE Antennas and Wireless Propagation Letters, 2002, 1, 18-21.	4.0	14
28	Progressive sample mining and representation learning for one-shot person re-identification. Pattern Recognition, 2021, 110, 107614.	8.1	14
29	A parametric bootstrap algorithm for cluster number determination of load pattern categorization. Energy, 2019, 180, 50-60.	8.8	13
30	Fast Iterative Semi-Blind Receiver for URLLC in Short-Frame Full-Duplex Systems With CFO. IEEE Journal on Selected Areas in Communications, 2019, 37, 839-853.	14.0	13
31	Coordinated Frequency Regulation Using Solar Forecasting Based Virtual Inertia Control for Islanded Microgrids. IEEE Transactions on Sustainable Energy, 2021, 12, 2393-2403.	8.8	13
32	Building an Intelligent Laboratory Environment via a Cyber-Physical System. International Journal of Distributed Sensor Networks, 2013, 9, 109014.	2.2	12
33	Symbol-Splitting-Based Simultaneous Wireless Information and Power Transfer System for WPAN Applications. IEEE Microwave and Wireless Components Letters, 2020, 30, 713-716.	3.2	12
34	Transformer-Based Language-Person Search With Multiple Region Slicing. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1624-1633.	8.3	12
35	High-Robustness and Low-Complexity Joint Estimation of TOAs and CFOs for Multiuser SIMO OFDM Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 7739-7743.	6.3	11
36	Improving Multi-Hop Time Synchronization Performance in Wireless Sensor Networks Based on Packet-Relaying Gateways With Per-Hop Delay Compensation. IEEE Transactions on Communications, 2021, 69, 6093-6105.	7.8	11

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37	Efficient impedance coupling formulas for rectangular segment in planar microstrip circuits. IEEE Transactions on Antennas and Propagation, 2003, 51, 2137-2140.	5.1	10
38	Cooperation of multi robots for disaster rescue. , 2017, , .		10
39	Design of an arduino-based smart car. , 2014, , .		9
40	Cloud Motion Forecasting and Cloud Base Height Estimation Using Two Low-Cost Sky Cameras. , 2018, , .		9
41	Design and Simulation of Peer-to-Peer Energy Trading Framework with Dynamic Electricity Price. , 2019, , .		9
42	High-performance solution-processed $Ti_{3}C_{2}T_{x}$ MXene doped ZnSnO thin-film transistors via the formation of a two-dimensional electron gas. Journal of Materials Chemistry A, 2021, 9, 17390-17399.	10.3	9
43	Towards the applicability of solar nowcasting: A practice on predictive PV power ramp-rate control. Renewable Energy, 2022, 195, 147-166.	8.9	9
44	Compressive Sensing based User Activity Detection and Channel Estimation in Uplink NOMA Systems. , 2020, , .		8
45	Wearable Belt Antenna for Body Communication Networks. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2043-2047.	4.0	8
46	A WSN approach to unmanned aerial surveillance of traffic anomalies: Some challenges and potential solutions. , 2013, , .		7
47	Grant-Free Communications With Adaptive Period for IIoT: Sparsity and Correlation-Based Joint Channel Estimation and Signal Detection. IEEE Internet of Things Journal, 2022, 9, 4624-4638.	8.7	7
48	Fast pixel-matching for video object segmentation. Signal Processing: Image Communication, 2021, 98, 116373.	3.2	7
49	Wireless body area network and its applications. , 2015, , .		6
50	RF performance evaluation of microstrip lines printed on flexible polyethylene terephthalate (PET) films. , 2015, , .		6
51	Forecasting Based Virtual Inertia Control of PV Systems for Islanded Micro-Grid. , 2019, , .		6
52	Enhancement on the performance of eco-friendly solution-processed InO/AlO thin-film transistors via lithium incorporation. Journal of Alloys and Compounds, 2020, 829, 154458.	5.5	6
53	An Integrated Self-Powered Real-Time Pedometer System with Ultrafast Response and High Accuracy. ACS Applied Materials & Interfaces, 2021, 13, 61789-61798.	8.0	6
54	UWB planar antennas for wireless capsule endoscopy. , 2013, , .		5

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55	Load Scheduling Based on an Advanced Real-Time Price Forecasting Model. , 2015, , .		5
56	Radio frequency energy harvesting technology. , 2016, , .		5
57	Design of Wearable Radio Frequency Identification Antenna. Wireless Personal Communications, 2018, 98, 3059-3070.	2.7	5
58	Robust Semi-Blind Estimation of Channel and CFO for GFDM Systems. , 2019, , .		5
59	Rational-Orthogonal-Wavelet-Based Active Sonar Pulse and Detector Design. IEEE Journal of Oceanic Engineering, 2019, 44, 167-178.	3.8	5
60	Open-Ended Coaxial Cable Selection for Measurement of Liquid Dielectric Properties via the Reflection Method. Mathematical Problems in Engineering, 2020, 2020, 1-8.	1.1	5
61	Inverse Projection of the Wireless Capsule Endoscopy Images. , 2010, , .		4
62	Study the Ground Plane Effect of a Multiband Antenna for Multiple Wireless Communication Systems. Procedia Engineering, 2011, 15, 2521-2526.	1.2	4
63	Energy-efficient positioning for cellular networks with unknown path loss exponent. , 2015, , .		4
64	Dynamic pricing based and electric vehicle assisted demand response strategy. , 2017, , .		4
65	Multi-GHz microstrip transmission lines realised by screen printing on flexible substrates. , 2017, , .		4
66	Exploring the effectiveness of student-generated video tutorials in electronic lab-based teaching. , 2017, , .		4
67	Neuromorphic Properties of Memristor towards Artificial Intelligence. , 2018, , .		4
68	Electric Vehicles Assisted Multi-Household Cooperative Demand Response Strategy. , 2019, , .		4
69	Potential Benefits for Residential Building with Photovoltaic Battery System Participation in Peer-to-Peer Energy Trading. Energies, 2022, 15, 3913.	3.1	4
70	Compact USB WLAN Printed Meander Line Antennas. Procedia Engineering, 2011, 15, 2516-2520.	1.2	3
71	A training based Support Vector Machine technique for blood detection in wireless capsule endoscopy images. , 2012, , .		3
72	Transmitter antennas for wireless capsule endoscopy. , 2012, , .		3

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73	State-of-the-art of 60 GHz antennas in wireless body area network. , 2015, , .		3
74	Wearable antenna design for bioinformation. , 2016, , .		3
75	Rectanna design for energy harvesting. , 2016, , .		3
76	RF Characteristics of Wireless Capsule Endoscopy in Human Body. Lecture Notes in Computer Science, 2013, , 700-706.	1.3	3
77	Perturbation Modelling of a Corner Deleted Circular Polarised Microstrip Antenna with Offset Feed. , 2010, , .		2
78	Design, Investigation and Optimization of a Compact UWB Antenna. , 2010, , .		2
79	2D to cylindrical inverse projection of the wireless capsule endoscopy images. , 2011, , .		2
80	Development of a Reliability Course for Emerging Circuits and Systems. Advanced Materials Research, 0, 622-623, 1922-1924.	0.3	2
81	Semi-blind MIMO OFDM systems with precoding aided CFO estimation and ICA based equalization. , 2013, , .		2
82	Porting LooCI Components into Zigduino. Procedia Computer Science, 2013, 17, 579-582.	2.0	2
83	Moveable wireless capsule endoscopy. , 2013, , .		2
84	Internet of Things: A practical implementation based on a Wireless Sensor Network approach. , 2013, , .		2
85	Low-complexity frequency synchronization for ICA based semi-blind CoMP systems with ICI and phase rotation caused by multiple CFOs. , 2014, , .		2
86	UWB antenna with superior low-frequency performance. Microwave and Optical Technology Letters, 2016, 58, 118-121.	1.4	2
87	Semi-blind precoding aided ML CFO estimation for ICA based MIMO OFDM systems. , 2016, , .		2
88	RF characteristics of wireless capsule endoscopy in human body. Journal of Central South University, 2016, 23, 1198-1207.	3.0	2
89	A Semi-blind Model with Parameter Identification for Building Temperature Estimation. Cognitive Computation, 2018, 10, 105-116.	5.2	2
90	Iterative Semi-Blind CFO Estimation, SI Cancellation and Signal Detection for Full-Duplex Systems. , 2018, , .		2

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91	A Belt Antenna Design with Textile Artificial Magnetic Conductor Reflector. , 2019, , .		2
92	A Semi-Blind Multiuser SIMO GFDM System in the Presence of CFOs and IQ Imbalances. IEEE Transactions on Wireless Communications, 2022, 21, 48-63.	9.2	2
93	Printed Split-Ring Loops with High Q-Factor for Wireless Power Transmission. Electronics (Switzerland), 2021, 10, 2884.	3.1	2
94	Highly Resilient Minimal Path Routing Algorithm for Fault Tolerant Network-on-Chips. Procedia Engineering, 2011, 15, 3406-3410.	1.2	1
95	Assuring system reliability in wireless sensor networks via verification and validation. , 2012, , .		1
96	An efficient history-based routing algorithm for interconnection networks. , 2012, , .		1
97	Independent component analysis based semi-blind equalization for multiuser-CoMP OFDM systems with low-complexity estimation of multiple CFOs. , 2012, , .		1
98	Novel training and comparison method for blood detection in wireless capsule endoscopy images. , 2013, , .		1
99	Design and optimization of a planar UWB antenna. , 2013, , .		1
100	ICA based joint semi-blind equalization and CFO estimation for OFDMA systems. , 2014, , .		1
101	Semi-blind Doppler spread tracking and channel equalization for green wireless MIMO systems. , 2015, , .		1
102	Broadband sonar waveform design with rational orthogonal wavelet. , 2017, , .		1
103	A Multiband Rectenna for Self-sustainable Devices. , 2018, , .		1
104	Memristor-based Neuromorphic Implementations for Artificial Neural Networks. , 2018, , .		1
105	Wireless Power Transfer Using Resonance Coupling Method for Implantable Applications. , 2018, , .		1
106	High-Accuracy Joint Multi-CFO and Multi-TOA Estimation for Multiuser SIMO OFDM Systems. , 2018, , .		1
107	Semi-Blind Joint Multi-CFO and Multi-Channel Estimation for GFDM with Arbitrary Carrier Assignment. , 2019, , .		1
108	Orthogonal sequences based multi-CFO estimation and semi-blind ICA based equalization for multiuser comp systems. Computer Science and Information Systems, 2012, 9, 1385-1406.	1.0	1

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109	Interference Utilization Precoding in Multi-Cluster IoT Networks. <i>Frontiers in Signal Processing</i> , 2021, 1, .	1.7	1
110	Design of a novel 8-port memory cell. , 2010, , .		0
111	Modeling and Verification of NCL Circuits Using PAT. <i>Procedia Engineering</i> , 2011, 15, 3411-3415.	1.2	0
112	A novel radio propagation and radiation model of the wireless capsule endoscopy in human gastro-intestine (GI) tract. , 2011, , .		0
113	Application of hough transform feature extraction to reduce angular vibration in images captured from moving objects. , 2013, , .		0
114	Investigation of EM wave propagation of the Wireless Capsule in human body. , 2013, , .		0
115	Joint semi-blind channel equalization and ICI mitigation for carrier aggregation based CoMP OFDMA systems with multiple CFOs. , 2013, , .		0
116	Receiver window design for OFDM systems over time-varying power line channels. , 2014, , .		0
117	The new wrappable wireless capsule antennas. , 2014, , .		0
118	Simulation and analysis of desulfator for smart battery system. , 2014, , .		0
119	Determine the Permittivity of the Plastic Materials. , 2014, , .		0
120	Semi-blind full-duplex relay system with ICA based joint CFO mitigation and equalization. , 2015, , .		0
121	Rectangular Ring Antenna for Wearable System. , 2015, , .		0
122	Maximum Power Point Estimation for Photovoltaic Modules via RBFNN. <i>Lecture Notes in Electrical Engineering</i> , 2016, , 397-404.	0.4	0
123	Mobile phone antenna. , 2017, , .		0
124	Low Cost Hand Gesture Control in Complex Environment Using Raspberry Pi. , 2019, , .		0
125	Facile Route for Low-temperature Eco-friendly Solution Processed ZnSnO Thin-film Transistors. , 2020, , .		0
126	Pricing Bermudan Interest Rate Swaptions via Parallel Simulation under the Extended Multi-factor LIBOR Market Model. <i>Lecture Notes in Computer Science</i> , 2012, , 472-481.	1.3	0

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127	Parallel Generation of Optimal Mortgage Refinancing Threshold Rates. Lecture Notes in Computer Science, 2013, , 665-675.	1.3	0
128	Pricing American Options on Dividend-Paying Stocks and Estimating the Greek Letters Using Leisen-Reimer Binomial Trees. Lecture Notes in Computer Science, 2013, , 676-685.	1.3	0
129	Wireless Power Supply System. Advanced Science Letters, 2015, 21, 458-460.	0.2	0
130	Compressive Sensing-Based Secure Uplink Grant-Free Systems. Frontiers in Signal Processing, 2022, 2, .	1.7	0
131	Design of Multi-AGV System with Tracking, Collision Avoidance and Coordination. , 2021, , .		0
132	Detection of Burst Users and Symbols for Grant-Free Communication in the Presence of Massive Connected Users. IEEE Transactions on Vehicular Technology, 2022, 71, 7973-7978.	6.3	0