Enggee Lim

List of Publications by Year
in descending order

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	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
2	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
3	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
4	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
5	Compressive Sensing-Based Secure Uplink Grant-Free Systems. Frontiers in Signal Processing, 2022, 2, .	1.7	0
6	Electron trapping & blocking effect enabled by MXene/TiO2 intermediate layer for charge regulation of triboelectric nanogenerators. Nano Energy, 2022, 98, 107236.	16.0	36
7	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
8	A Review of Wavelet Analysis and Its Applications: Challenges and Opportunities. IEEE Access, 2022, 10, 58869-58903.	4.2	87
9	Potential Benefits for Residential Building with Photovoltaic Battery System Participation in Peer-to-Peer Energy Trading. Energies, 2022, 15, 3913.	3.1	4
10	Towards the applicability of solar nowcasting: A practice on predictive PV power ramp-rate control. Renewable Energy, 2022, 195, 147-166.	8.9	9
11	Progressive sample mining and representation learning for one-shot person re-identification. Pattern Recognition, 2021, 110, 107614.	8.1	14
12	High-performance solution-processed $Ti_3C_2T_x$ 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
13	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
14	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
15	Bioâ€Inspired Photoelectric Artificial Synapse based on Twoâ€Dimensional $Ti_3C_2T_x$ MXenes Floating Gate. Advanced Functional Materials, 2021, 31, 2106000.	14.9	59
16	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
17	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
18	W-doped TiO2 as electron transport layer for high performance solution-processed perovskite solar cells. Applied Surface Science, 2021, 563, 150298.	6.1	15

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19	Fast pixel-matching for video object segmentation. Signal Processing: Image Communication, 2021, 98, 116373.	3.2	7
20	Iterative Shrinking for Referring Expression Grounding Using Deep Reinforcement Learning. , 2021, , .		18
21	Interference Utilization Precoding in Multi-Cluster IoT Networks. Frontiers in Signal Processing, 2021, 1, .	1.7	1
22	Printed Split-Ring Loops with High Q-Factor for Wireless Power Transmission. Electronics (Switzerland), 2021, 10, 2884.	3.1	2
23	Design of Multi-AGV System with Tracking, Collision Avoidance and Coordination. , 2021, , .		0
24	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
25	A Conformal Split-Ring Loop as a Self-Resonator for Wireless Power Transfer. IEEE Access, 2020, 8, 911-919.	4.2	17
26	Resistive switching behavior of solution-processed AlOx and GO based RRAM at low temperature. Solid-State Electronics, 2020, 168, 107735.	1.4	19
27	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
28	Facile Route for Low-temperature Eco-friendly Solution Processed ZnSnO Thin-film Transistors. , 2020, , .		0
29	Compressive Sensing based User Activity Detection and Channel Estimation in Uplink NOMA Systems. , 2020, , .		8
30	Wearable Belt Antenna for Body Communication Networks. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2043-2047.	4.0	8
31	Adaptive ROI generation for video object segmentation using reinforcement learning. Pattern Recognition, 2020, 106, 107465.	8.1	26
32	Wearable EBG-Backed Belt Antenna for Smart On-Body Applications. IEEE Transactions on Industrial Informatics, 2020, 16, 7177-7189.	11.3	43
33	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
34	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
35	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
36	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

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37	Robust Semi-Blind Estimation of Channel and CFO for GFDM Systems. , 2019, , .		5
38	Wideband Loop Antenna With Split-Ring Resonators for Wireless Medical Telemetry. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1415-1419.	4.0	34
39	Sensor network based PV power nowcasting with spatio-temporal preselection for grid-friendly control. Applied Energy, 2019, 255, 113760.	10.1	26
40	A Belt Antenna Design with Textile Aritificial Magnetic Conductor Reflector. , 2019, , .		2
41	Electric Vehicles Assisted Multi-Household Cooperative Demand Response Strategy. , 2019, , .		4
42	A parametric bootstrap algorithm for cluster number determination of load pattern categorization. Energy, 2019, 180, 50-60.	8.8	13
43	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
44	Investigation of magnetic resonance coupling circuit topologies for wireless power transmission. Microwave and Optical Technology Letters, 2019, 61, 1755-1763.	1.4	20
45	Forecasting Based Virtual Inertia Control of PV Systems for Islanded Micro-Grid. , 2019, , .		6
46	Design and Simulation of Peer-to-Peer Energy Trading Framework with Dynamic Electricity Price. , 2019, , .		9
47	Low Cost Hand Gesture Control in Complex Environment Using Raspberry Pi. , 2019, , .		0
48	Semi-Blind Joint Multi-CFO and Multi-Channel Estimation for GFDMA with Arbitrary Carrier Assignment. , 2019, , .		1
49	Rational-Orthogonal-Wavelet-Based Active Sonar Pulse and Detector Design. IEEE Journal of Oceanic Engineering, 2019, 44, 167-178.	3.8	5
50	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
51	A Semi-blind Model with Parameter Identification for Building Temperature Estimation. Cognitive Computation, 2018, 10, 105-116.	5.2	2
52	Design of Wearable Radio Frequency Identification Antenna. Wireless Personal Communications, 2018, 98, 3059-3070.	2.7	5
53	A Multiband Rectenna for Self-sustainable Devices. , 2018, , .		1
54	Cloud Motion Forecasting and Cloud Base Height Estimation Using Two Low-Cost Sky Cameras. , 2018, , .		9

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55	Neuromorphic Properties of Memristor towards Artificial Intelligence. , 2018, , .		4
56	Memristor-based Neuromorphic Implementations for Artificial Neural Networks. , 2018, , .		1
57	Wireless Power Transfer Using Resonance Coupling Method for Implantable Applications. , 2018, , .		1
58	High-Accuracy Joint Multi-CFO and Multi-TOA Estimation for Multiuser SIMO OFDM Systems. , 2018, , .		1
59	Iterative Semi-Blind CFO Estimation, SI Cancelation and Signal Detection for Full-Duplex Systems. , 2018, , .		2
60	An Implantable and Conformal Antenna for Wireless Capsule Endoscopy. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1153-1157.	4.0	84
61	Dynamic pricing based and electric vehicle assisted demand response strategy. , 2017, , .		4
62	Cooperation of multi robots for disaster rescue. , 2017, , .		10
63	Mobile phone antenna. , 2017, , .		0
64	Broadband sonar waveform design with rational orthogonal wavelet. , 2017, , .		1
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	Wearable antenna design for bioinformation. , 2016, , .		3
68	Radio frequency energy harvesting technology. , 2016, , .		5
69	Rectanna design for energy harvesting. , 2016, , .		3
70	UWB antenna with superior low-frequency performance. Microwave and Optical Technology Letters, 2016, 58, 118-121.	1.4	2
71	Maximum Power Point Estimation for Photovoltaic Modules via RBFNN. Lecture Notes in Electrical Engineering, 2016, , 397-404.	0.4	0
72	Semi-blind precoding aided ML CFO estimation for ICA based MIMO OFDM systems. , 2016, , .		2

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73	RF characteristics of wireless capsule endoscopy in human body. Journal of Central South University, 2016, 23, 1198-1207.	3.0	2
74	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
75	Photovoltaic Modified Î²-Parameter-based MPPT Method with Fast Tracking. Journal of Power Electronics, 2016, 16, 9-17.	1.5	22
76	Energy-efficient positioning for cellular networks with unknown path loss exponent. , 2015, , .		4
77	Wireless body area network and its applications. , 2015, , .		6
78	Semi-blind full-duplex relay system with ICA based joint CFO mitigation and equalization. , 2015, , .		0
79	State-of-the-art of 60 GHz antennas in wireless body area network. , 2015, , .		3
80	Load Scheduling Based on an Advanced Real-Time Price Forecasting Model. , 2015, , .		5
81	RF performance evaluation of microstrip lines printed on flexible polyethylene terephthalate (PET) films. , 2015, , .		6
82	Rectangular Ring Antenna for Wearable System. , 2015, , .		0
83	Semi-blind Doppler spread tracking and channel equalization for green wireless MIMO systems. , 2015, , .		1
84	Wireless Power Supply System. Advanced Science Letters, 2015, 21, 458-460.	0.2	0
85	Medical Applications of Microwave Imaging. Scientific World Journal, The, 2014, 2014, 1-7.	2.1	25
86	Receiver window design for OFDM systems over time-varying power line channels. , 2014, , .		0
87	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
88	Design of an arduino-based smart car. , 2014, , .		9
89	ICA based joint semi-blind equalization and CFO estimation for OFDMA systems. , 2014, , .		1
90	The new wrappable wireless capsule antennas. , 2014, , .		0

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91	Simulation and analysis of desulfator for smart battery system. , 2014, , .		0
92	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
93	Low-complexity frequency synchronization for ICA based semi-blind CoMP systems with ICI and phase rotation caused by multiple CFOs. , 2014, , .		2
94	Determine the Permittivity of the Plastic Materials. , 2014, , .		0
95	UWB planar antennas for wireless capsule endoscopy. , 2013, , .		5
96	State-of-Art Power Line Communications Channel Modelling. Procedia Computer Science, 2013, 17, 563-570.	2.0	29
97	Semi-blind MIMO OFDM systems with precoding aided CFO estimation and ICA based equalization. , 2013, , .		2
98	Application of hough transform feature extraction to reduce angular vibration in images captured from moving objects. , 2013, , .		0
99	Porting LooCI Components into Zigduino. Procedia Computer Science, 2013, 17, 579-582.	2.0	2
100	A WSN approach to unmanned aerial surveillance of traffic anomalies: Some challenges and potential solutions. , 2013, , .		7
101	Novel training and comparison method for blood detection in wireless capsule endoscopy images. , 2013, , .		1
102	Investigation of EM wave propagation of the Wireless Capsule in human body. , 2013, , .		0
103	Design and optimization of a planar UWB antenna. , 2013, , .		1
104	Joint semi-blind channel equalization and ICI mitigation for carrier aggregation based CoMP OFDMA systems with multiple CFOs. , 2013, , .		0
105	Building an Intelligent Laboratory Environment via a Cyber-Physical System. International Journal of Distributed Sensor Networks, 2013, 9, 109014.	2.2	12
106	Moveable wireless capsule endoscopy. , 2013, , .		2
107	Internet of Things: A practical implementation based on a Wireless Sensor Network approach. , 2013, , .		2
108	RF Characteristics of Wireless Capsule Endoscopy in Human Body. Lecture Notes in Computer Science, 2013, , 700-706.	1.3	3

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109	Parallel Generation of Optimal Mortgage Refinancing Threshold Rates. Lecture Notes in Computer Science, 2013, , 665-675.	1.3	0
110	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
111	Assuring system reliability in wireless sensor networks via verification and validation. , 2012, , .		1
112	An efficient history-based routing algorithm for interconnection networks. , 2012, , .		1
113	Independent component analysis based semi-blind equalization for multiuser-CoMP OFDM systems with low-complexity estimation of multiple CFOs. , 2012, , .		1
114	A training based Support Vector Machine technique for blood detection in wireless capsule endoscopy images. , 2012, , .		3
115	Transmitter antennas for wireless capsule endoscopy. , 2012, , .		3
116	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
117	Pricing Bermudan Interest Rate Swaptions via Parallel Simulation under the Extended Multi-factor LIBOR Market Model. Lecture Notes in Computer Science, 2012, , 472-481.	1.3	0
118	2D to cylindrical inverse projection of the wireless capsule endoscopy images. , 2011, , .		2
119	Compact USB WLAN Printed Meander Line Antennas. Procedia Engineering, 2011, 15, 2516-2520.	1.2	3
120	Study the Ground Plane Effect of a Multiband Antenna for Multiple Wireless Communication Systems. Procedia Engineering, 2011, 15, 2521-2526.	1.2	4
121	Highly Resilient Minimal Path Routing Algorithm for Fault Tolerant Network-on-Chips. Procedia Engineering, 2011, 15, 3406-3410.	1.2	1
122	Modeling and Verification of NCL Circuits Using PAT. Procedia Engineering, 2011, 15, 3411-3415.	1.2	0
123	A novel radio propagation and radiation model of the wireless capsule endoscopy in human gastro-intestine (GI) tract. , 2011, , .		0
124	Perturbation Modelling of a Corner Deleted Circular Polarised Microstrip Antenna with Offset Feed. , 2010, , .		2
125	Inverse Projection of the Wireless Capsule Endoscopy Images. , 2010, , .		4
126	Design of a novel 8-port memory cell. , 2010, , .		0

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127	Design, Investigation and Optimization of a Compact UWB Antenna. , 2010, , .		2
128	Efficient impedance coupling formulas for rectangular segment in planar microstrip circuits. IEEE Transactions on Antennas and Propagation, 2003, 51, 2137-2140.	5.1	10
129	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
130	Multiobjective genetic algorithm approach for a dual-feed circular polarised patch antenna design. Electronics Letters, 2000, 36, 1005.	1.0	22
131	Application of simulated annealing to design of serial feed sequentially rotated 2 Ã— 2 antenna array. Electronics Letters, 2000, 36, 1987.	1.0	69
132	Development of a Reliability Course for Emerging Circuits and Systems. Advanced Materials Research, 0, 622-623, 1922-1924.	0.3	2