

Kay-Soon Low

List of Publications by Citations

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124
papers

2,451
citations

28
h-index

45
g-index

151
ext. papers

2,996
ext. citations

4.2
avg, IF

5.44
L-index

#	Paper	IF	Citations
124	A Global Maximum Power Point Tracking Scheme Employing DIRECT Search Algorithm for Photovoltaic Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 3456-3467	8.9	232
123	Photovoltaic Model Identification Using Particle Swarm Optimization With Inverse Barrier Constraint. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 3975-3983	7.2	188
122	Zero-phase odd-harmonic repetitive controller for a single-phase PWM inverter. <i>IEEE Transactions on Power Electronics</i> , 2006 , 21, 193-201	7.2	121
121	State-of-Charge Estimation of Lithium-Ion Battery Using Square Root Spherical Unscented Kalman Filter (Sqrt-UKFST) in Nanosatellite. <i>IEEE Transactions on Power Electronics</i> , 2015 , 30, 4774-4783	7.2	79
120	Wireless Sensing of Human Respiratory Parameters by Low-Power Ultrawideband Impulse Radio Radar. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 928-938	5.2	72
119	Cooperative Communications in Ultra-Wideband Wireless Body Area Networks: Channel Modeling and System Diversity Analysis. <i>IEEE Journal on Selected Areas in Communications</i> , 2009 , 27, 5-16	14.2	72
118	Optimizing the Localization of a Wireless Sensor Network in Real Time Based on a Low-Cost Microcontroller. <i>IEEE Transactions on Industrial Electronics</i> , 2011 , 58, 741-749	8.9	68
117	Model Predictive Control of Parallel-Connected Inverters for Uninterruptible Power Supplies. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 2884-2893	8.9	61
116	Multichannel Pulse-Coupled-Neural-Network-Based Color Image Segmentation for Object Detection. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 3299-3308	8.9	54
115	Periodic errors elimination in CVCF PWM DC/AC converter systems: repetitive control approach. <i>IET Control Theory and Applications</i> , 2000 , 147, 694-700		54
114	Real-Time Estimation of Sensor Nodes Position Using Particle Swarm Optimization With Log-Barrier Constraint. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 3619-3628	5.2	49
113	A Repetitive Model Predictive Control Approach for Precision Tracking of a Linear Motion System. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 1955-1962	8.9	49
112	Assessment of Foot Trajectory for Human Gait Phase Detection Using Wireless Ultrasonic Sensor Network. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016 , 24, 88-97	4.8	46
111	Low Sampling Rate Online Parameters Monitoring of DCDC Converters for Predictive-Maintenance Using Biogeography-Based Optimization. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 2870-2879	7.2	44
110	Unrestrained Measurement of Arm Motion Based on a Wearable Wireless Sensor Network. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 1309-1317	5.2	44
109	Optimizing Photovoltaic Model for Different Cell Technologies Using a Generalized Multidimension Diode Model. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 6371-6380	8.9	41
108	Fabrication and performance evaluation of a high temperature co-fired ceramic vaporizing liquid microthruster. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 015013	2	40

107	Sigma-Z-source inverters. <i>IET Power Electronics</i> , 2015 , 8, 715-723	2.2	39
106	Pulse Design for Time Reversal Method as Applied to Ultrawideband Microwave Breast Cancer Detection: A Two-Dimensional Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 194-204	4.9	37
105	Temperature dependent state-of-charge estimation of lithium ion battery using dual spherical unscented Kalman filter. <i>IET Power Electronics</i> , 2015 , 8, 2026-2033	2.2	36
104	Opportunistic routing for body area network 2011 ,		36
103	Robust model predictive control and observer for direct drive applications. <i>IEEE Transactions on Power Electronics</i> , 2000 , 15, 1018-1028	7.2	35
102	A novel approach to joint flexion/extension angles measurement based on wearable UWB radios. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 300-8	7.2	32
101	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2015 , 51, 1017-1028	3.7	31
100	UWB MICROWAVE IMAGING FOR BREAST CANCER DETECTION --- EXPERIMENTS WITH HETEROGENEOUS BREAST PHANTOMS. <i>Progress in Electromagnetics Research M</i> , 2011 , 16, 19-29	0.6	31
99	Advanced precision linear stage for industrial automation applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2003 , 52, 785-789	5.2	30
98	A particle swarm optimization approach for the localization of a wireless sensor network 2008 ,		29
97	Adaptive routing for dynamic on-body wireless sensor networks. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 549-58	7.2	28
96	HOMOGENEOUS AND HETEROGENEOUS BREAST PHANTOMS FOR ULTRA-WIDEBAND MICROWAVE IMAGING APPLICATIONS. <i>Progress in Electromagnetics Research</i> , 2010 , 100, 397-415	3.8	27
95	A Geometric Filter Algorithm for Robust Device-Free Localization in Wireless Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2016 , 12, 1670-1678	11.9	26
94	A Pulsed Neural Network With On-Chip Learning and Its Practical Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 34-42	8.9	26
93	Ambulatory measurement of three-dimensional foot displacement during treadmill walking using wearable wireless ultrasonic sensor network. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 446-52	7.2	25
92	Effect of lesion morphology on microwave signature in 2-D ultra-wideband breast imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2008 , 55, 2011-21	5	25
91	A 64\$,times,\$64 CMOS Image Sensor With On-Chip Moving Object Detection and Localization. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2012 , 22, 581-588	6.4	24
90	FREQUENCY DOMAIN SKIN ARTIFACT REMOVAL METHOD FOR ULTRA-WIDEBAND BREAST CANCER DETECTION. <i>Progress in Electromagnetics Research</i> , 2009 , 98, 299-314	3.8	23

89	A Multiobjective Genetic Algorithm for Optimizing the Performance of Hard Disk Drive Motion Control System. <i>IEEE Industrial Electronics Magazine</i> , 2007 , 54, 1716-1725	6.2	23
88	Time of Arrival Data Fusion Method for Two-Dimensional Ultrawideband Breast Cancer Detection. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 2852-2865	4.9	23
87	Multi-dimension diode photovoltaic (PV) model for different PV cell technologies 2014 ,		22
86	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2013 , 49, 1467-1475	3.7	21
85	A Factorized Quaternion Approach to Determine the Arm Motions Using Triaxial Accelerometers With Anatomical and Sensor Constraints. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012 , 61, 1793-1802	5.2	21
84	Breast Lesion Classification Using Ultrawideband Early Time Breast Lesion Response. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 2604-2613	4.9	20
83	Time-Reversal Ultrawideband Breast Imaging: Pulse Design Criteria Considering Multiple Tumors With Unknown Tissue Properties. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 3073-3077	4.9	19
82	Identity Verification Through Palm Vein and Crease Texture. <i>Lecture Notes in Computer Science</i> , 2005 , 546-553	0.9	19
81	A DSP-based single-phase AC power source. <i>IEEE Transactions on Industrial Electronics</i> , 1999 , 46, 936-9418.9		18
80	Optimization of Sensor Node Locations in a Wireless Sensor Network 2008 ,		16
79	Observation of the Kinetic Inductance Limitation for the Fundamental Magnetic Resonance in Ultrasmall Gold v-Shape Split Ring Resonators. <i>Advanced Optical Materials</i> , 2016 , 4, 1047-1052	8.1	16
78	An Enhanced Geometric Filter Algorithm With Channel Diversity for Device-Free Localization. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016 , 65, 378-387	5.2	14
77	A DSP-based variable AC power source. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1998 , 47, 992-996	5.2	14
76	Evaluating generalized predictive control for a brushless DC drive. <i>IEEE Transactions on Power Electronics</i> , 1998 , 13, 1191-1198	7.2	14
75	Development of an Electrostatic Calibration System for a Torsional Micronewton Thrust Stand. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015 , 64, 3467-3475	5.2	13
74	Estimation of spatial-temporal gait parameters using a low-cost ultrasonic motion analysis system. <i>Sensors</i> , 2014 , 14, 15434-57	3.8	13
73	Lower Extremity Joint Angle Tracking with Wireless Ultrasonic Sensors during a Squat Exercise. <i>Sensors</i> , 2015 , 15, 9610-27	3.8	12
72	A Time-Delay-Integration CMOS image sensor with pipelined charge transfer architecture 2012 ,		12

71	Survey of Global-Positioning-System-Based Attitude Determination Algorithms. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 1321-1335	2.1	11
70	A High Dynamic Range CMOS Image Sensor With Dual-Exposure Charge Subtraction Scheme. <i>IEEE Sensors Journal</i> , 2015 , 15, 661-662	4	11
69	Single-Switch Quasi-Resonant DCDC Converter for a Pulsed Plasma Thruster of Satellites. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 4503-4513	7.2	11
68	Wireless Sensor Network for Satellite Applications: A Survey and Case Study. <i>Unmanned Systems</i> , 2014 , 02, 261-277	3	11
67	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020 , 56, 2978-2989	3.7	11
66	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019 , 55, 17-30	3.7	10
65	Ultra-Wideband Real-Time Dynamic Channel Characterization and System-Level Modeling for Radio Links in Body Area Networks. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 2995-3004	4.1	10
64	3D depth camera based human posture detection and recognition Using PCNN circuits and learning-based hierarchical classifier 2012 ,		10
63	Non-invasive respiration rate estimation using ultra-wideband distributed cognitive radar system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 920-3		9
62	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018 , 54, 2537-2546	3.7	8
61	A star pattern recognition algorithm for satellite attitude determination 2012 ,		8
60	A wearable wireless sensor network for human limbs monitoring 2009 ,		8
59	Wireless Sensor Networks for Industrial Environments		8
58	A digital control technique for a single-phase PWM inverter. <i>IEEE Transactions on Industrial Electronics</i> , 1998 , 45, 672-674	8.9	8
57	A robust star identification algorithm with star shortlisting. <i>Advances in Space Research</i> , 2018 , 61, 2647-2660	4.1	7
56	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019 , 55, 689-705	3.7	7
55	An Accurate 3D UWB Hyperbolic Localization in Indoor Multipath Environment Using Iterative Taylor-Series Estimation 2013 ,		7
54	An Adaptive Integration Time CMOS Image Sensor With Multiple Readout Channels. <i>IEEE Sensors Journal</i> , 2013 , 13, 4931-4939	4	7

53	Using wearable UWB radios to measure foot clearance during walking. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 5199-202</i>	0.9	5
52	UWB microwave breast cancer detection: generalized models and performance prediction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, 2006, 2630-3</i>		5
51	Repetitive Model Predictive Control of a Precision Linear Motor Drive 2007,		5
50	System design and development of VELOX-I nanosatellite 2015,		4
49	Real time runway detection in satellite images using multi-channel PCNN 2014,		4
48	Performance assessment on expanding SBAS service areas of GAGAN and MSAS to Singapore region 2014,		4
47	Distributed Model Predictive Control of satellite attitude using hybrid reaction wheels and magnetic actuators 2012,		4
46	Design of a radiation tolerant CMOS image sensor 2011,		4
45	A Virtual Instrument for the Testing and Performance Evaluation of a Microsatellite Power Supply System. <i>IEEE Transactions on Instrumentation and Measurement, 2008, 57, 1808-1815</i>	5.2	4
44	Localization in a Sparse Wireless Sensor Network Using Pedometer and Communication Ranging Measurements 2007,		4
43	Digital odd harmonic repetitive control of a single-phase PWM inverter		4
42	Digital Control of a Permanent Magnet Synchronous Motor Drive without Mechanical Sensors. <i>Electric Power Components and Systems, 2001, 29, 459-477</i>	1	4
41	A distributed transmission rate adjustment algorithm in heterogeneous CSMA/CA networks. <i>Sensors, 2015, 15, 7434-53</i>	3.8	3
40	Geometry-based algorithms for device-free localization with wireless sensor networks 2014,		3
39	State-of-charge estimation using particle swarm optimization with inverse barrier constraint in a nanosatellite 2015,		3
38	On-chip pulse based parallel neural circuits for object-tracking system. <i>Electronics Letters, 2010, 46, 614</i>	1.1	3
37	Maximum likelihood estimation of ground truth for air quality monitoring using vehicular sensor networks 2012,		3
36	A microprocessor based fully digital AC servo drive. <i>Microprocessors and Microsystems, 1997, 20, 429-436</i>	2.4	3

35	VELOX-II: Challenges of developing a 6U nanosatellite 2016,		3
34	2016,		3
33	A Pre-Processed Orbital Parameters Approach for Improving Cubesat Orbit Propagator and Attitude Determination. <i>Transactions of the Japan Society for Aeronautical and Space Sciences, 2016,</i> 59, 278-286	0.8	2
32	Evaluating the In-Orbit Performance of Power Management System for the VELOX-II Satellite. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016,</i> 14, Pf_69-Pf_75	0.3	2
31	Torsional thrust stand for characterization of microthrusters. <i>IOP Conference Series: Materials Science and Engineering, 2016,</i> 152, 012019	0.4	2
30	A new current-type magnetically coupled T-source inverter 2014,		2
29	An adaptive tuning algorithm for IEEE 802.15.4-based network control system 2014,		2
28	Measurement of knee flexion/extension angle using wearable UWB radios. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013,</i> 2013, 7213-6	0.9	2
27	An adaptive integration time CMOS image sensor with multiple readout channels for star trackers 2013,		2
26	Development and design challenges in VELOX-I nanosatellite 2015,		2
25	A wearable wireless ultrasonic sensor network for human arm motion tracking. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014,</i> 2014, 5960-3	0.9	2
24	Design and characterization of radiation-tolerant CMOS 4T Active Pixel Sensors 2014,		2
23	An overview of radar based ultra wideband breast cancer detection algorithms. <i>International Journal of Ultra Wideband Communications and Systems, 2010,</i> 1, 273	0	2
22	Probability Field Localization Algorithm for Wireless Sensor Network. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006,</i>		2
21	Effect of lesion morphology on microwave signature in ultra-wideband breast imaging: a preliminary two-dimensional investigation 2007,		2
20	Improving classification accuracy in through-wall radar imaging using hybrid prony's and singular value decomposition method		2
19	A high accuracy star tracker using running sequential angular match technique 2016,		2
18	Real-time estimation of satellite's two-line elements via positioning data 2018,		2

17	On-Chip Genetic Algorithm Optimized Pulse Based RBF Neural Network for Unsupervised Clustering Problem. <i>Lecture Notes in Computer Science</i> , 2006 , 851-860	0.9	2
16	A single-switch high voltage quasi-resonant DC-DC converter for a pulsed plasma thruster 2015 ,		1
15	Modeling and state of charge estimation of a lithium ion battery using unscented Kalman filter in a nanosatellite 2014 ,		1
14	An accurate lossless current sensing approach for a DC-DC converter with online calibration 2014 ,		1
13	Ambulatory measurement of foot kinematics using wearable ultrasonic sensors. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 6282-5	0.9	1
12	Integrating active and passive received signal strength-based localization 2014 ,		1
11	A multiplier-less GA optimized pulsed neural network for satellite image analysis using a FPGA 2008 ,		1
10	Human respiration rate estimation using body-worn ultra-wideband radar 2007 ,		1
9	Cross-Coupled Contouring Control of a Rotary Based Biaxial Motion System 2006 ,		1
8	Time domain measurements for UWB on-body radio propagation 2007 ,		1
7	Optimization of a hard disk drive servo system using multiobjective genetic algorithm 2004 ,		1
6	Through-wall radar image reconstruction based on time-domain transient signals in the presence of noise		1
5	Capacitor Charging by Quasi-Resonant Approach for a Pulsed Plasma Thruster in Nano-Satellite. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 1271-1278	1.3	0
4	Distributed Transmission Probability Control in Fading Channel with State Information. <i>International Journal of Distributed Sensor Networks</i> , 2015 , 11, 184629	1.7	
3	Local Displacement Transducer With Anderson Loop. <i>Geotechnical Testing Journal</i> , 2011 , 34, 103401	1.3	
2	Frequency Domain Breast Lesion Classification Using Ultra-Wideband Lesion Response 2014 , 241-256		
1	Gold and silver resonators and their optical properties. <i>International Journal of Nanotechnology</i> , 2016 , 13, 561	1.5	