

Kay-Soon Low

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5275794/kay-soon-low-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
123	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020 , 56, 2978-2989	3.7	11
122	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019 , 55, 17-30	3.7	10
121	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019 , 55, 689-705	3.7	7
120	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018 , 54, 2537-2546	3.7	8
119	A robust star identification algorithm with star shortlisting. <i>Advances in Space Research</i> , 2018 , 61, 2647-2660	2.4	7
118	Real-time estimation of satellite's two-line elements via positioning data 2018 ,		2
117	Survey of Global-Positioning-System-Based Attitude Determination Algorithms. <i>Journal of Guidance, Control, and Dynamics</i> , 2017 , 40, 1321-1335	2.1	11
116	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
115	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
114	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</i> , 2016 , 59, 278-286	0.8	2
113	Evaluating the In-Orbit Performance of Power Management System for the VELOX-PII Satellite. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2016 , 14, Pf_69-Pf_75	0.3	2
112	Torsional thrust stand for characterization of microthrusters. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 152, 012019	0.4	2
111	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
110	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
109	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
108	Gold and silver resonators and their optical properties. <i>International Journal of Nanotechnology</i> , 2016 , 13, 561	1.5	

107	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
106	A high accuracy star tracker using running sequential angular match technique 2016 ,		2
105	VELOX-II: Challenges of developing a 6U nanosatellite 2016 ,		3
104	2016 ,		3
103	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
102	Lower Extremity Joint Angle Tracking with Wireless Ultrasonic Sensors during a Squat Exercise. <i>Sensors</i> , 2015 , 15, 9610-27	3.8	12
101	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2015 , 51, 1017-1028	3.7	31
100	A distributed transmission rate adjustment algorithm in heterogeneous CSMA/CA networks. <i>Sensors</i> , 2015 , 15, 7434-53	3.8	3
99	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
98	A single-switch high voltage quasi-resonant DC-DC converter for a pulsed plasma thruster 2015 ,		1
97	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
96	System design and development of VELOX-I nanosatellite 2015 ,		4
95	A High Dynamic Range CMOS Image Sensor With Dual-Exposure Charge Subtraction Scheme. <i>IEEE Sensors Journal</i> , 2015 , 15, 661-662	4	11
94	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
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	State-of-charge estimation using particle swarm optimization with inverse barrier constraint in a nanosatellite 2015 ,		3
91	Sigma-Z-source inverters. <i>IET Power Electronics</i> , 2015 , 8, 715-723	2.2	39
90	Development and design challenges in VELOX-I nanosatellite 2015 ,		2

89	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
88	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
87	Distributed Transmission Probability Control in Fading Channel with State Information. <i>International Journal of Distributed Sensor Networks</i> , 2015 , 11, 184629	1.7	
86	A new current-type magnetically coupled T-source inverter 2014 ,		2
85	Modeling and state of charge estimation of a lithium ion battery using unscented Kalman filter in a nanosatellite 2014 ,		1
84	Geometry-based algorithms for device-free localization with wireless sensor networks 2014 ,		3
83	An adaptive tuning algorithm for IEEE 802.15.4-based network control system 2014 ,		2
82	Multi-dimension diode photovoltaic (PV) model for different PV cell technologies 2014 ,		22
81	An accurate lossless current sensing approach for a DC-DC converter with online calibration 2014 ,		1
80	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</i> , 2014 , 2014, 5960-3	0.9	2
79	Real time runway detection in satellite images using multi-channel PCNN 2014 ,		4
78	Wireless Sensor Network for Satellite Applications: A Survey and Case Study. <i>Unmanned Systems</i> , 2014 , 02, 261-277	3	11
77	Performance assessment on expanding SBAS service areas of GAGAN and MSAS to Singapore region 2014 ,		4
76	Estimation of spatial-temporal gait parameters using a low-cost ultrasonic motion analysis system. <i>Sensors</i> , 2014 , 14, 15434-57	3.8	13
75	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
74	Integrating active and passive received signal strength-based localization 2014 ,		1
73	Design and characterization of radiation-tolerant CMOS 4T Active Pixel Sensors 2014 ,		2
72	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

71	Frequency Domain Breast Lesion Classification Using Ultra-Wideband Lesion Response 2014 , 241-256		
70	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2013 , 49, 1467-1475	3.7	21
69	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</i> , 2013 , 2013, 7213-6	0.9	2
68	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
67	An adaptive integration time CMOS image sensor with multiple readout channels for star trackers 2013 ,		2
66	An Accurate 3D UWB Hyperbolic Localization in Indoor Multipath Environment Using Iterative Taylor-Series Estimation 2013 ,		7
65	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</i> , 2013 , 2013, 5199-202	0.9	5
64	An Adaptive Integration Time CMOS Image Sensor With Multiple Readout Channels. <i>IEEE Sensors Journal</i> , 2013 , 13, 4931-4939	4	7
63	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
62	Distributed Model Predictive Control of satellite attitude using hybrid reaction wheels and magnetic actuators 2012 ,		4
61	3D depth camera based human posture detection and recognition Using PCNN circuits and learning-based hierarchical classifier 2012 ,		10
60	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
59	A star pattern recognition algorithm for satellite attitude determination 2012 ,		8
58	A Time-Delay-Integration CMOS image sensor with pipelined charge transfer architecture 2012 ,		12
57	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
56	Maximum likelihood estimation of ground truth for air quality monitoring using vehicular sensor networks 2012 ,		3
55	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
54	Opportunistic routing for body area network 2011 ,		36

53	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
52	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
51	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
50	Real-Time Estimation of Sensor Node's Position Using Particle Swarm Optimization With Log-Barrier Constraint. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 3619-3628	5.2	49
49	Design of a radiation tolerant CMOS image sensor 2011 ,		4
48	Local Displacement Transducer With Anderson Loop. <i>Geotechnical Testing Journal</i> , 2011 , 34, 103401	1.3	
47	HOMOGENEOUS AND HETEROGENEOUS BREAST PHANTOMS FOR ULTRA-WIDEBAND MICROWAVE IMAGING APPLICATIONS. <i>Progress in Electromagnetics Research</i> , 2010 , 100, 397-415	3.8	27
46	On-chip pulse based parallel neural circuits for object-tracking system. <i>Electronics Letters</i> , 2010 , 46, 614	1.1	3
45	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
44	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
43	An overview of radar based ultra wideband breast cancer detection algorithms. <i>International Journal of Ultra Wideband Communications and Systems</i> , 2010 , 1, 273	0	2
42	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
41	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
40	A wearable wireless sensor network for human limbs monitoring 2009 ,		8
39	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
38	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
37	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
36	A Virtual Instrument for the Testing and Performance Evaluation of a Microsatellite Power Supply System. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2008 , 57, 1808-1815	5.2	4

35	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
34	A multiplier-less GA optimized pulsed neural network for satellite image analysis using a FPGA 2008 ,		1
33	A particle swarm optimization approach for the localization of a wireless sensor network 2008 ,		29
32	Optimization of Sensor Node Locations in a Wireless Sensor Network 2008 ,		16
31	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
30	Human respiration rate estimation using body-worn ultra-wideband radar 2007 ,		1
29	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
28	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
27	Localization in a Sparse Wireless Sensor Network Using Pedometer and Communication Ranging Measurements 2007 ,		4
26	Time domain measurements for UWB on-body radio propagation 2007 ,		1
25	Effect of lesion morphology on microwave signature in ultra-wideband breast imaging: a preliminary two-dimensional investigation 2007 ,		2
24	Repetitive Model Predictive Control of a Precision Linear Motor Drive 2007 ,		5
23	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
22	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
21	UWB microwave breast cancer detection: generalized models and performance prediction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 2630-3		5
20	Probability Field Localization Algorithm for Wireless Sensor Network. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , 2006 ,		2
19	Cross-Coupled Contouring Control of a Rotary Based Biaxial Motion System 2006 ,		1
18	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

17	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
16	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
15	Identity Verification Through Palm Vein and Crease Texture. <i>Lecture Notes in Computer Science</i> , 2005 , 546-553	0.9	19
14	Optimization of a hard disk drive servo system using multiobjective genetic algorithm 2004 ,		1
13	Advanced precision linear stage for industrial automation applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2003 , 52, 785-789	5.2	30
12	Digital Control of a Permanent Magnet Synchronous Motor Drive without Mechanical Sensors. <i>Electric Power Components and Systems</i> , 2001 , 29, 459-477	1	4
11	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
10	Robust model predictive control and observer for direct drive applications. <i>IEEE Transactions on Power Electronics</i> , 2000 , 15, 1018-1028	7.2	35
9	A DSP-based single-phase AC power source. <i>IEEE Transactions on Industrial Electronics</i> , 1999 , 46, 936-941	8.9	18
8	A DSP-based variable AC power source. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1998 , 47, 992-996	5.2	14
7	A digital control technique for a single-phase PWM inverter. <i>IEEE Transactions on Industrial Electronics</i> , 1998 , 45, 672-674	8.9	8
6	Evaluating generalized predictive control for a brushless DC drive. <i>IEEE Transactions on Power Electronics</i> , 1998 , 13, 1191-1198	7.2	14
5	A microprocessor based fully digital AC servo drive. <i>Microprocessors and Microsystems</i> , 1997 , 20, 429-436	2.4	3
4	Wireless Sensor Networks for Industrial Environments		8
3	Digital odd harmonic repetitive control of a single-phase PWM inverter		4
2	Improving classification accuracy in through-wall radar imaging using hybrid prony's and singular value decomposition method		2
1	Through-wall radar image reconstruction based on time-domain transient signals in the presence of noise		1