

# Kuang-Yow Lian

## List of Publications by Year in descending order

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111  
papers

1,839  
citations

279487

23  
h-index

301761

39  
g-index

113  
all docs

113  
docs citations

113  
times ranked

1298  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive detection of food colorant sunset yellow using nickel nanoparticles promoted lettuce-like spinel Co <sub>3</sub> O <sub>4</sub> anchored GO nanosheets. Food and Chemical Toxicology, 2022, 159, 112725.	1.8	22
2	Bi-functional renewable biopolymer wrapped CNFs/Ag doped spinel cobalt oxide as a sensitive platform for highly toxic nitroaromatic compound detection and degradation. Chemosphere, 2022, 291, 132998.	4.2	20
3	A sensitive and economical electrochemical platform for detection of food additive tert-butylhydroquinone based on porous Co <sub>3</sub> O <sub>4</sub> nanorods embellished chemically oxidized carbon black. Food Control, 2022, 136, 108844.	2.8	19
4	Ultrasensitive detection of cytotoxic food preservative tert-butylhydroquinone using 3D cupric oxide nanoflowers embedded functionalized carbon nanotubes. Journal of Hazardous Materials, 2021, 406, 124792.	6.5	28
5	Unique Methods for Determining the Attenuation and Delay in Blind Source Separation Based on the Degenerate Unmixing Estimation Technique. IEEE Access, 2021, 9, 129460-129470.	2.6	1
6	Multi-constrained Fuzzy Control for Perturbed Tâ€“S Fuzzy Singular Systems by Proportional-Plus-Derivative State Feedback Method. International Journal of Fuzzy Systems, 2021, 23, 1972-1985.	2.3	15
7	Surface functionalization of CNTs with amine group and decoration of begonia-like ZnO for detection of antipyretic drug acetaminophen. Applied Surface Science, 2021, 559, 149981.	3.1	13
8	Ultrasound-assisted synthesis of 3D flower-like zinc oxide decorated fMWCNTs for sensitive detection of toxic environmental pollutant 4-nitrophenol. Ultrasonics Sonochemistry, 2020, 60, 104798.	3.8	41
9	A novel soft sensor based warning system for hazardous ground-level ozone using advanced damped least squares neural network. Ecotoxicology and Environmental Safety, 2020, 205, 111168.	2.9	6
10	A Real-Time Wearable Assist System for Upper Extremity Throwing Action Based on Accelerometers. Sensors, 2020, 20, 1344.	2.1	3
11	Air quality warning system based on a localized PM <sub>2.5</sub> soft sensor using a novel approach of Bayesian regularized neural network via forward feature selection. Ecotoxicology and Environmental Safety, 2019, 182, 109386.	2.9	23
12	Leader-Follower Mobile Robots Control Based on Light Source Detection. IEEE Sensors Journal, 2019, 19, 11142-11150.	2.4	1
13	Ecofriendly synthesized reduced graphene oxide embellished marsh marigold-like zinc oxide nanocomposite based on ultrasonication technique for the sensitive detection of environmental pollutant hydroquinone. Ultrasonics Sonochemistry, 2019, 58, 104650.	3.8	25
14	Robust Doubleâ€“Integral Tâ€“S Fuzzy Output Regulation for Nonlinear Systems. Asian Journal of Control, 2018, 20, 1182-1193.	1.9	2
15	Synthesis of a functionalized multi-walled carbon nanotube decorated ruskin michelle-like ZnO nanocomposite and its application in the development of a highly sensitive hydroquinone sensor. Inorganic Chemistry Frontiers, 2018, 5, 1950-1961.	3.0	33
16	A fast searching algorithm for real-time sound source localization. , 2017, , .		1
17	Actual measurement on regenerative elevator drive and energy saving benefits. , 2017, , .		6
18	Wearable armband for real time hand gesture recognition. , 2017, , .		20

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19	Simplified robust fuzzy output regulator design for discrete-time nonlinear systems. Journal of Intelligent and Fuzzy Systems, 2016, 31, 1499-1511.	0.8	4
20	Real-Time Recognition of Hand-Drawn Patterns Using an Innovative Web-Based Approach. , 2016, , .		1
21	Employing Cross-Platform Smart Home Control System with IOT Technology Based. , 2016, , .		6
22	Wheeled robot control for catching up flying objects using RGB-D sensors. , 2015, , .		0
23	A New Searching Method of Splitting Threshold Values for Continuous Attribute Decision Tree Problems. , 2015, , .		2
24	Partitioning Technique for Relaxed Stability Criteria of Discrete-Time Systems with Interval Time-Varying Delay. Discrete Dynamics in Nature and Society, 2014, 2014, 1-6.	0.5	3
25	Image recognition system with predicting flying object path using 3D sensors. , 2014, , .		0
26	Smart home safety handwriting pattern recognition with innovative technology. Computers and Electrical Engineering, 2014, 40, 1123-1142.	3.0	13
27	Fish-eye cameras calibration for vehicle around view monitoring system. , 2014, , .		6
28	Sensor-less adaptive fuel concentration control for direct methanol fuel cells under varying load. Journal of Power Sources, 2013, 231, 239-245.	4.0	16
29	Fuzzy Virtual Reference Model Sensorless Tracking Control for Linear Induction Motors. IEEE Transactions on Cybernetics, 2013, 43, 970-981.	6.2	32
30	Indirect Adaptive Fuzzy Controller for LEGO Mindstorms NXT Two-Wheeled Robot. Applied Mechanics and Materials, 2013, 278-280, 561-567.	0.2	0
31	Mobile Monitoring and Embedded Control System for Factory Environment. Sensors, 2013, 13, 17379-17413.	2.1	21
32	Intelligent Remote Medical Care System by Use of a Multiple of Network Protocol Integration. Applied Mechanics and Materials, 2013, 404, 707-712.	0.2	0
33	Mobile Device Monitoring System in the Plant by an Innovative Approach. Applied Mechanics and Materials, 2013, 418, 104-107.	0.2	2
34	Employing Remote Mobile Scheme to Control Work Area via an Integrated Wireless Network. Applied Mechanics and Materials, 2013, 423-426, 2419-2422.	0.2	0
35	Gesture Recognition Using Improved Hierarchical Hidden Markov Algorithm. , 2013, , .		0
36	Intelligent multi-sensor control system based on innovative technology integration via ZigBee and Wi-Fi networks. Journal of Network and Computer Applications, 2013, 36, 756-767.	5.8	56

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37	Method of 3-step switching for tri-ped robot using piezo actuator. , 2012, , .		0
38	Home safety handwriting pattern recognition system. , 2012, , .		5
39	Sensorless linear induction motor speed tracking using fuzzy observers. IET Electric Power Applications, 2011, 5, 325.	1.1	44
40	Output regulation using integral fuzzy predictive control with piecewise Lyapunov functions. , 2011, , .		0
41	A fuzzy decision maker for portfolio problems. , 2010, , .		5
42	Sensorless linear induction motor control using fuzzy observers for speed tracking. , 2010, , .		4
43	Synchronization design of complex coupled systems using fuzzy approach. , 2009, , .		0
44	Stabilization at almost arbitrary points for chaotic systems. Chaos, Solitons and Fractals, 2008, 36, 452-459.	2.5	0
45	Realization of maximum power tracking approach for photovoltaic array systems based on T-S fuzzy method. , 2008, , .		8
46	Adaptive speed control for induction motors based on a semi-current-fed model. International Journal of Control, 2008, 81, 307-316.	1.2	5
47	LMI-Based Adaptive Tracking Control for Parametric Strict-Feedback Systems. IEEE Transactions on Fuzzy Systems, 2008, 16, 1245-1258.	6.5	7
48	LMI-based adaptive tracking control for a class of nonlinear stochastic systems. , 2008, , .		1
49	Realization of fuzzy congestion control on linux platform. , 2008, , .		0
50	Robust Adaptive Control of Linear Induction Motors With Unknown End-Effect and Secondary Resistance. IEEE Transactions on Energy Conversion, 2008, 23, 412-422.	3.7	23
51	CHAOTIC CONTROL AND CHAOTIFICATION USING FUZZY APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 263-274.	0.7	0
52	Hybrid Fuzzy Model-Based Control of Nonholonomic Systems: A Unified Viewpoint. IEEE Transactions on Fuzzy Systems, 2008, 16, 85-96.	6.5	25
53	Simple Realization of Integral Fuzzy Control for Isolated AHPFC Converters. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 6015-6020.	0.4	0
54	Linear Induction Motor Sensorless Speed Control Based on T-S Fuzzy Design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 5456-5461.	0.4	1

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55	Fuzzy Observer-Based Output Tracking Control of Nonlinear Systems via Model Predictive Control Approach. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	0
56	LMI-based fuzzy stabilization for multiple networked systems. , 2007, , .		1
57	LMI-Based Sensorless Control of Permanent-Magnet Synchronous Motors. IEEE Transactions on Industrial Electronics, 2007, 54, 2769-2778.	5.2	60
58	Adaptive motion/force tracking control of holonomic constrained mechanical systems: a unified viewpoint. International Journal of Adaptive Control and Signal Processing, 2007, 21, 415-433.	2.3	7
59	A stabilization criterion for matrices. Linear Algebra and Its Applications, 2007, 422, 22-28.	0.4	3
60	Current Sensorless Regulation for Converters via Integral Fuzzy Control. IEICE Transactions on Electronics, 2007, E90-C, 507-514.	0.3	3
61	Output Tracking Control for Fuzzy Systems Via Output Feedback Design. IEEE Transactions on Fuzzy Systems, 2006, 14, 628-639.	6.5	112
62	Performance Enhancement for Tâ€™S Fuzzy Control Using Neural Networks. IEEE Transactions on Fuzzy Systems, 2006, 14, 619-627.	6.5	23
63	Stability Conditions for LMI-Based Fuzzy Control From Viewpoint of Membership Functions. IEEE Transactions on Fuzzy Systems, 2006, 14, 874-884.	6.5	24
64	LMI-based Integral fuzzy control of DC-DC converters. IEEE Transactions on Fuzzy Systems, 2006, 14, 71-80.	6.5	114
65	Adaptive control of holonomic constrained systems: a feedforward fuzzy approximation-based approach. IEEE Transactions on Control Systems Technology, 2006, 14, 456-466.	3.2	9
66	LMI-based Sensorless Speed Control of Permanent Magnet Synchronous Motors. , 2006, , .		3
67	Sensorless Control for Induction Motors via Fuzzy Observer Design. , 2006, , .		4
68	Fuzzy Model and Control for Hybrid Systems Using Averaging Techniques. , 2006, , .		4
69	Cellular Neural Field and Its Convergence Analysis. IEEE Transactions on Neural Networks, 2006, 17, 1639-1641.	4.8	1
70	TCP Congestion Control Using Fuzzy Regulation Approach. , 2006, , .		0
71	Control Performance of Discrete-Time Fuzzy Systems Improved by Neural Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2006, E89-A, 1446-1453.	0.2	0
72	Fuzzy Model Based Chaotic Cryptosystems. , 2006, , 507-525.		3

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73	LOW EFFORT CONTROL FOR CHAOTIC SYSTEMS VIA A FUZZY MODEL-BASED APPROACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 251-256.	0.4	0
74	SMOOTH SLIDING MODE CONTROL FOR CONSTRAINED MANIPULATOR WITH JOINT FLEXIBILITY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 91-96.	0.4	4
75	Induction Motor Control With Friction Compensation: An Approach of Virtual-Desired-Variable Synthesis. IEEE Transactions on Power Electronics, 2005, 20, 1066-1074.	5.4	15
76	Fuzzy gain scheduling for parallel parking a car-like robot. IEEE Transactions on Control Systems Technology, 2005, 13, 1084-1092.	3.2	28
77	Robust adaptive motion/force tracking control design for uncertain constrained robot manipulators. Automatica, 2004, 40, 2111-2119.	3.0	26
78	Fuzzy Chaotic Synchronization and Communication " Signal Masking and Encryption. Studies in Fuzziness and Soft Computing, 2004, , 269-291.	0.6	2
79	FUZZY MODEL-BASED APPROACH TO CHAOTIC ENCRYPTION USING SYNCHRONIZATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 215-225.	0.7	8
80	Adaptive speed control for linear induction motors considering end effect. , 2003, , .		0
81	ROBUST DEAD-BEAT SYNCHRONIZATION AND COMMUNICATION FOR DISCRETE-TIME CHAOTIC SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 835-846.	0.7	5
82	CHAOTIC CONTROL USING FUZZY MODEL-BASED METHODS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1827-1841.	0.7	32
83	ADAPTIVE SPEED CONTROL WITH FRICTION COMPENSATION FOR SEMI-CURRENT-FED INDUCTION MOTORS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 205-210.	0.4	1
84	Semi-decentralized adaptive fuzzy control for cooperative multirobot systems with H/sup $\infty$ / motion/internal force tracking performance. IEEE Transactions on Systems, Man, and Cybernetics, 2002, 32, 269-280.	5.5	49
85	Adaptive synchronization design for chaotic systems via a scalar driving signal. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 17-27.	0.1	101
86	LMI-based fuzzy chaotic synchronization and communications. IEEE Transactions on Fuzzy Systems, 2001, 9, 539-553.	6.5	134
87	Secure communications of chaotic systems with robust performance via fuzzy observer-based design. IEEE Transactions on Fuzzy Systems, 2001, 9, 212-220.	6.5	48
88	Synthesis of fuzzy model-based designs to synchronization and secure communications for chaotic systems. IEEE Transactions on Systems, Man, and Cybernetics, 2001, 31, 66-83.	5.5	136
89	SYNCHRONIZATION AND SECURE COMMUNICATION FOR CHAOTIC SYSTEMS: THE MODULATED FUZZY SYSTEM DESIGN. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 1397-1410.	0.7	5
90	DISCRETE-TIME CHAOTIC SYSTEMS: APPLICATIONS IN SECURE COMMUNICATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 2193-2206.	0.7	31

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91	Synchronization with message embedded for generalized Lorenz chaotic circuits and its error analysis. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2000, 47, 1418-1424.	0.1	32
92	A skew-symmetric property of rigid-body systems. Systems and Control Letters, 1998, 33, 187-197.	1.3	1
93	Sliding-mode motion/force control of constrained robots. IEEE Transactions on Automatic Control, 1998, 43, 1101-1103.	3.6	38
94	Globally valid adaptive controllers of mechanical systems. IEEE Transactions on Automatic Control, 1997, 42, 1149-1154.	3.6	16
95	Steady motions of gyostat satellites and their stability. IEEE Transactions on Automatic Control, 1995, 40, 1732-1743.	3.6	24
96	Controllability of spacecraft systems in a central gravitational field. IEEE Transactions on Automatic Control, 1994, 39, 2426-2441.	3.6	63
97	Robust output tracking for nonlinear systems with weakly non-minimum phase. International Journal of Control, 1993, 58, 301-316.	1.2	16
98	Hamiltonian dynamics of a rigid body with momentum wheels in a central gravitational field. , 1993, , .		0
99	Global Attitude Representation and its Lie Bracket. , 1993, , .		13
100	Adaptive Robust Autopilot Design for Bank-to-Turn Aircraft. , 1993, , .		5
101	Output Tracking Control of Nonlinear Systems with Weakly Non-minimum Phase. , 1992, , .		0
102	Adaptive force control of single-link mechanism with joint flexibility. IEEE Transactions on Automation Science and Engineering, 1991, 7, 540-545.	2.4	18
103	Controllability of spacecraft systems in a central gravitational field. , 0, , .		1
104	Nonlinear autopilot and guidance for a highly maneuverable missile. , 0, , .		17
105	Adaptive tracking control for both constrained and coordinated manipulator systems. , 0, , .		0
106	Parallel parking a car-like robot using fuzzy gain scheduling. , 0, , .		14
107	LMI-based fuzzy chaotic synchronization and communication. , 0, , .		13
108	Robust chaotic fuzzy output feedback tracking control. , 0, , .		0

#	ARTICLE	IF	CITATIONS
109	Robust output feedback control for fuzzy descriptor systems. , 0, , .		2
110	High-efficiency Handwriting Recognition Online Shopping Systemby Mobile Devices. , 0, , .		0
111	Fuzzy Model Based Chaotic Cryptosystems. , 0, , 507-525.		0