

Richard Binns

List of Publications by Year in descending order

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papers

261
citations

1163117

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all docs

30
docs citations

30
times ranked

339
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Neural Network Fault Estimation Approach for Nonlinear Dynamic Systems With Applications to Wind Turbine Systems. IEEE Transactions on Industrial Informatics, 2019, 15, 6302-6312.	11.3	66
2	Ultrasensitive biosensor based on magnetic microspheres enhanced microfiber interferometer. Biosensors and Bioelectronics, 2019, 145, 111563.	10.1	29
3	A rapid and controllable acoustothermal microheater using thin film surface acoustic waves. Sensors and Actuators A: Physical, 2021, 318, 112508.	4.1	25
4	Secure MIMO Visible Light Communication System Based on User's Location and Encryption. Journal of Lightwave Technology, 2017, 35, 5324-5334.	4.6	21
5	Flexible and Integrated Sensing Platform of Acoustic Waves and Metamaterials based on Polyimide-Coated Woven Carbon Fibers. ACS Sensors, 2020, 5, 2563-2569.	7.8	21
6	Cascaded Sagnac Loops Embedded With Two Polarization Maintaining Photonic Crystal Fibers for Highly Sensitive Strain Measurement. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	18
7	Simulation and evaluation of pulse-coupled oscillators in wireless sensor networks. Systems Science and Control Engineering, 2018, 6, 337-349.	3.1	8
8	Electrically Sensing Characteristics of the Sagnac Interferometer Embedded With a Liquid Crystal-Infiltrated Photonic Crystal Fiber. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	8
9	Electrically Tuning Characteristics of LC Selectively Infiltrated PCF Sagnac Interferometer. IEEE Photonics Technology Letters, 2021, 33, 668-671.	2.5	7
10	Synchronization of Pulse-Coupled Oscillators for IEEE 802.15.4 Multi-Hop Wireless Sensor Networks. , 2018, , .		6
11	Modelling and Synchronisation of Delayed Packet-Coupled Oscillators in Industrial Wireless Sensor Networks. IFAC-PapersOnLine, 2020, 53, 8283-8289.	0.9	6
12	A survey on smart traffic network control and optimization. , 2016, , .		5
13	Optical fibre sensors for monitoring phase transitions in phase changing materials. Smart Materials and Structures, 2018, 27, 105021.	3.5	5
14	Experimental Characterization of RGB LED Transceiver in Low-Complexity LED-to-LED Link. Sensors, 2020, 20, 5754.	3.8	5
15	Chaos Synchronization in Visible Light Communications with Variable Delays Induced by Multipath Fading. Applied System Innovation, 2018, 1, 45.	4.6	4
16	Characterization of RGB LEDs as Emitter and Photodetector for LED-to-LED Communication. , 2020, , .		4
17	Acousto-Pi: An Opto-Acoustofluidic System Using Surface Acoustic Waves Controlled With Open-Source Electronics for Integrated In-Field Diagnostics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 411-422.	3.0	4
18	DC biased input stage with differential photocurrent sensing for VLC front-ends. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
19	Experimental Demonstration of EEG Signal Transmission Using VLC Deploying LabView. , 2018, , .		3
20	Sensorless variable speed operation of doublyâ€fed reluctance wind generators. IET Renewable Power Generation, 2020, 14, 2810-2819.	3.1	3
21	Integrated Sensing and Acoustofluidic Functions for Flexible Thin Film Acoustic Wave Devices Based on Metallic and Polymer Multilayers. IEEE Sensors Journal, 2023, 23, 24041-24049.	4.7	3
22	Application of an Infinite Gain Multiple Feedback Filter in VLC Link Range Extension. , 2018, , .		2
23	Real-time Wireless Healthcare system for Angular Transmission of EEG signal using VL-OCC. Procedia Computer Science, 2019, 152, 28-35.	2.0	2
24	Experimental Demonstration of Single-Channel EEG Signal Using 32 Å— 32 Pixel OLED Screen and Camera. Electronics (Switzerland), 2019, 8, 734.	3.1	1
25	Data-driven Sensor Fault Estimation for the Wind Turbine Systems. , 2020, , .		1
26	Apnoea-Pi: Sleep disorder monitoring with open-source electronics and acoustics. , 2021, , .		1
27	Time Synchronization of Pulse-Coupled Oscillators for Smart Grids. , 2018, , .		0
28	Singlemode-multimode-singlemode fibre structure for phase transition monitoring in phase changing materials (invited paper). Journal of Physics: Conference Series, 2018, 1065, 252024.	0.4	0
29	Characterisation and Interference Model of Contemporary Artificial Light Sources Noise on a VLC channel. , 2018, , .		0
30	Experimental Evaluation of Non-identical Pulse-Coupled Oscillators Synchronisation in IEEE 802.15.4 Wireless Sensor Networks. , 2019, , .		0