

Thomas Newe

List of Publications by Citations

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

103
papers

1,014
citations

16
h-index

28
g-index

129
ext. papers

1,301
ext. citations

2.1
avg, IF

4.73
L-index

#	Paper	IF	Citations
103	Organic light-emitting devices (OLEDs) and OLED-based chemical and biological sensors: an overview. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 133001	3	223
102	Inspection-Class Remotely Operated Vehicles A Review. <i>Journal of Marine Science and Engineering</i> , 2017 , 5, 13	2.4	64
101	A comparative review of wireless sensor network mote technologies 2009 ,		59
100	Defence against Black Hole and Selective Forwarding Attacks for Medical WSNs in the IoT. <i>Sensors</i> , 2016 , 16,	3.8	46
99	Wireless Sensor Node hardware: A review 2008 ,		41
98	Underwater Depth and Temperature Sensing Based on Fiber Optic Technology for Marine and Fresh Water Applications. <i>Sensors</i> , 2017 , 17,	3.8	34
97	Challenges Associated with Implementing 5G in Manufacturing. <i>Telecom</i> , 2020 , 1, 48-67	1.8	31
96	TDMA Protocol Requirements for Wireless Sensor Networks 2008 ,		30
95	Securing Wireless Sensor Networks: Security Architectures. <i>Journal of Networks</i> , 2008 , 3,		30
94	Security for wireless sensor networks: A review 2009 ,		25
93	A secure end-to-end IoT solution. <i>Sensors and Actuators A: Physical</i> , 2017 , 263, 291-299	3.9	21
92	Security Protocols for Use with Wireless Sensor Networks: A Survey of Security Architectures 2007 ,		20
91	Efficiently securing data on a wireless sensor network. <i>Journal of Physics: Conference Series</i> , 2007 , 76, 012063	0.3	19
90	Optical fibre cavity for ring-down experiments with low coupling losses. <i>Measurement Science and Technology</i> , 2010 , 21, 094034	2	18
89	Prototype of a secure wireless patient monitoring system for the medical community. <i>Sensors and Actuators A: Physical</i> , 2012 , 173, 55-65	3.9	17
88	Securing future decentralised industrial IoT infrastructures: Challenges and free open source solutions. <i>Future Generation Computer Systems</i> , 2019 , 93, 596-608	7.5	17
87	An Optical Fibre Depth (Pressure) Sensor for Remote Operated Vehicles in Underwater Applications. <i>Sensors</i> , 2017 , 17,	3.8	16

86	Analysis of Hardware Encryption Versus Software Encryption on Wireless Sensor Network Motes. <i>Lecture Notes in Electrical Engineering</i> , 2008 , 3-14	0.2	15
85	Automated Ground Vehicle (AGV) and Sensor Technologies- A Review 2018 ,		14
84	On the implementation and evaluation of an elliptic curve based cryptosystem for Java enabled Wireless Sensor Networks. <i>Sensors and Actuators A: Physical</i> , 2009 , 156, 394-405	3.9	12
83	Industrial IoT, Cyber Threats, and Standards Landscape: Evaluation and Roadmap. <i>Sensors</i> , 2021 , 21,	3.8	11
82	Object recognition within smart manufacturing. <i>Procedia Manufacturing</i> , 2019 , 38, 408-414	1.5	11
81	2.4 GHz IEEE 802.15.4 channel interference classification algorithm running live on a sensor node 2012 ,		10
80	Configuration Tool for a Wireless Sensor Network Integrated Security Framework. <i>Journal of Network and Systems Management</i> , 2012 , 20, 417-452	2.1	10
79	Coexistence measurements and analysis of IEEE 802.15.4 with Wi-Fi and bluetooth for vehicle networks 2012 ,		10
78	Power Management in Operating Systems for Wireless Sensor Nodes 2007 ,		9
77	Motion artefact minimization from photoplethysmography based non-invasive hemoglobin sensor based on an envelope filtering algorithm. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018 , 115, 288-298	4.6	9
76	Stereo Vision Sensing: Review of existing systems 2018 ,		9
75	A Lightweight Classification Algorithm for External Sources of Interference in IEEE 802.15.4-Based Wireless Sensor Networks Operating at the 2.4 GHz. <i>International Journal of Distributed Sensor Networks</i> , 2014 , 10, 265286	1.7	8
74	Planning with parents for seriously ill children: preliminary results on the development of the parental engagement scale. <i>Palliative and Supportive Care</i> , 2011 , 9, 367-76	2.5	7
73	Secure Hash Algorithm-3(SHA-3) implementation on Xilinx FPGAs, Suitable for IoT Applications. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2020 , 7, 1-6	0.4	7
72	Cloud computing and Internet of Things fusion: Cost issues 2017 ,		6
71	An Experimental Study of the Effects of External Physiological Parameters on the Photoplethysmography Signals in the Context of Local Blood Pressure (Hydrostatic Pressure Changes). <i>Sensors</i> , 2017 , 17,	3.8	6
70	AES implementation on Xilinx FPGAs suitable for FPGA based WBSNs 2015 ,		6
69	An FPGA based reconfigurable IPSec ESP core suitable for IoT applications 2016 ,		6

68	Real-Time Video Latency Measurement between a Robot and Its Remote Control Station: Causes and Mitigation. <i>Wireless Communications and Mobile Computing</i> , 2018 , 2018, 1-19	1.9	6
67	High Speed Implementation of a SHA-3 Core on Virtex-5 and Virtex-6 FPGAs. <i>Journal of Circuits, Systems and Computers</i> , 2016 , 25, 1650069	0.9	5
66	2015 ,		5
65	Secure and Efficient Key Coordination Algorithm for Line Topology Network Maintenance for Use in Maritime Wireless Sensor Networks. <i>Sensors</i> , 2016 , 16,	3.8	5
64	Bloom filter based data collection algorithm for wireless sensor networks 2017 ,		4
63	An FPGA-based reconfigurable IPsec AH core with efficient implementation of SHA-3 for high speed IoT applications. <i>Security and Communication Networks</i> , 2016 , 9, 3282-3295	1.9	4
62	A Mote Interface for Fiber Optic Spectral Sensing With Real-Time Monitoring of the Marine Environment. <i>IEEE Sensors Journal</i> , 2013 , 13, 2619-2625	4	4
61	Healthcare WSN: Cluster Elections and Selective Forwarding Defense 2015 ,		4
60	Novel miniature pressure and temperature optical fibre sensor based on an extrinsic Fabry-Perot Interferometer (EFPI) and Fibre Bragg Gratings (FBG) for the Ocean environment 2014 ,		4
59	Fibre-optic evanescent-wave field fluid concentration sensor 2009 ,		4
58	A Survey of Authentication Mechanisms: Authentication for Ad-Hoc Wireless Sensor Networks 2007 ,		4
57	High Bandwidth Maritime Communication Systems [Review of Existing Solutions and New Proposals 2018 ,		4
56	Efficient High Speed Implementation of Secure Hash Algorithm-3 on Virtex-5 FPGA 2014 ,		3
55	Trust Security Mechanism for Marine Wireless Sensor Networks 2015 ,		3
54	Formal Verification of a Key Agreement Protocol for Wireless Sensor Networks 2012 ,		3
53	A tool for the security configuration of sensor networks. <i>Journal of Physics: Conference Series</i> , 2009 , 178, 012043	0.3	3
52	Investigation of binary liquid aqueous methanol and ethanol mixtures using meander-shaped fibre-optic evanescent-wave absorption sensors 2008 ,		3
51	Efficient and High Speed FPGA Bump in the Wire Implementation for Data Integrity and Confidentiality Services in the IoT. <i>Smart Sensors, Measurement and Instrumentation</i> , 2017 , 259-285	0.3	3

50	Tenant - Vendor and Third-Party Agreements for the Cloud: Considerations for Security Provision. <i>International Journal of Software Engineering and Its Applications</i> , 2016 , 10, 449-460	0.1	3
49	Integration of autonomous intelligent vehicles into manufacturing environments: Challenges. <i>Procedia Manufacturing</i> , 2019 , 38, 1683-1690	1.5	3
48	2018 ,		3
47	Can IoT escape Cloud QoS and Cost Pitfalls 2018 ,		3
46	Medical WSN: Power, routing and selective forwarding defense 2015 ,		2
45	Integration of an MES and AIV Using a LabVIEW Middleware Scheduler Suitable for Use in Industry 4.0 Applications. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7054	2.6	2
44	Reconfiguration of neighbouring nodes in coastal monitoring wireless sensor networks based on leader node recommendation 2017 ,		2
43	Bump in the wire (BITW) security solution for a marine ROV remote control application. <i>Journal of Information Security and Applications</i> , 2018 , 38, 111-121	3.5	2
42	Medical WSN: Defense for selective forwarding attack 2015 ,		2
41	Security for Wireless Sensor Networks [Configuration Aid. <i>Lecture Notes in Electrical Engineering</i> , 2010 , 1-24	0.2	2
40	2007 ,		2
39	A multi-wavelength discriminating sensor with a wireless mote interface for aquatic pollution monitoring. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2020 , 7, 1-4	0.4	2
38	Federated Hybrid Clouds Service Level Agreements and Legal Issues. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 471-486	0.4	2
37	Cluster head election and rotation for medical-based wireless sensor networks 2017 ,		2
36	Memory storage administration of security encryption keys for line topology in maritime wireless sensor networks 2016 ,		2
35	Remote acoustic analysis for tool condition monitoring. <i>Procedia Manufacturing</i> , 2019 , 38, 840-847	1.5	2
34	An Overview of Popular Digital Image Processing Filtering Operations 2019 ,		2
33	An efficient implementation of FPGA based high speed IPSec (AH/ESP) core. <i>International Journal of Internet Protocol Technology</i> , 2018 , 11, 97	0.3	1

32	Real-Time Secure/Unsecure Video Latency Measurement/Analysis with FPGA-Based Bump-in-the-Wire Security. <i>Sensors</i> , 2019 , 19,	3.8	1
31	Underwater pressure measurement using fibre optic extrinsic Fabry-Perot interferometric (EFPI) sensors 2014 ,		1
30	Bloom filterBased efficient broadcast algorithm for the Internet of things. <i>International Journal of Distributed Sensor Networks</i> , 2017 , 13, 155014771774974	1.7	1
29	Implementing Secure Key Coordination Scheme for Line Topology Wireless Sensor Networks 2017 ,		1
28	2015 ,		1
27	Competition at the Wireless Sensor Network MAC Layer: Low Power Probing interfering with X-MAC. <i>Journal of Physics: Conference Series</i> , 2011 , 307, 012038	0.3	1
26	On the (im)possibility of denial of service attacks exploiting authentication overhead in WSNs 2009 ,		1
25	2009 ,		1
24	Development of a prototyping platform for the integration of multiple fiber optic sensing devices to a SHIMMERsystem for in-situ maritime monitoring. 2009 ,		1
23	Evaluation of key distribution protocols for use with wireless sensor networks 2009 ,		1
22	Low cost hydrocarbon spillage sensor for the marine environment with interfacing to a mote platform 2011 ,		1
21	MARSSeNs: A modular architecture for the security of sensor networks 2011 ,		1
20	Realisation of a minimum-knowledge identification and signature scheme. <i>Computers and Security</i> , 1998 , 17, 253-264	4.9	1
19	2008 ,		1
18	On the logical verification of a group key agreement protocol for resource constrained mobile devices 2007 ,		1
17	On the Formal Verification of the SNEP Key Agreement Protocol for Wireless Sensor Networks 2007 ,		1
16	A Simulated and Experimental Analysis of Evaporation Duct Effects on Microwave Communications in the Irish Sea. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	1
15	Hybrid Multi-Cloud Demystifying SLAs for Smart City Enterprises Using IoT Applications. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2020 , 52-67	0.3	1

14	Hybrid Cloud SLAs for Industry 4.0: Bridging the Gap. <i>Annals of Emerging Technologies in Computing</i> , 2020 , 4, 41-60	1.2	1
13	Wireless Sensor Node Hardware 2014 , 1-15		1
12	Review and evaluation of WSN simulation tools in a cloud based environment 2016 ,		1
11	An Experimental Study of the Effects of the Evaporation Duct on Microwave Propagation 2019 ,		1
10	A comparative study of Image Filters and Machine Learning for use in Machined Part Recognition 2019 ,		1
9	Hybrid Cloud Computing QoS Glitches 2018 ,		1
8	Enabling secure time-series data sharing via homomorphic encryption in cloud-assisted IIoT. <i>Future Generation Computer Systems</i> , 2022 , 133, 351-363	7.5	1
7	Trust security mechanism for maritime wireless sensor networks. <i>Concurrency Computation Practice and Experience</i> , 2017 , 29, e3945	1.4	0
6	Key handling in wireless sensor networks. <i>Journal of Physics: Conference Series</i> , 2007 , 76, 012060	0.3	0
5	Comparison and overview of Wireless sensor network systems for Medical Applications. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2020 , 7, 1-6	0.4	0
4	Foreword by Guest Editors for the Special Issue on the 2016 Global Conference on Wireless and Optical Communications (GCWOC16). <i>Wireless Personal Communications</i> , 2017 , 95, 215-221	1.9	
3	Logically Optimized Smallest FPGA Architecture for SHA-3 Core. <i>Communications in Computer and Information Science</i> , 2014 , 195-203	0.3	
2	Selection application for platforms and security protocols suitable for wireless sensor networks. <i>Journal of Physics: Conference Series</i> , 2009 , 178, 012034	0.3	
1	Marine based Wireless Sensor Networks: Challenges and Requirements. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2020 , 7, 1-5	0.4	