

Adesh Kumar

List of Publications by Year in descending order

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74
papers

908
citations

516710

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h-index

501196

28
g-index

80
all docs

80
docs citations

80
times ranked

450
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on fundamentals, constraints and fabrication techniques of superhydrophobic coatings. Progress in Organic Coatings, 2020, 142, 105557.	3.9	187
2	Wireless Sensor Network Based Smart Grid Communications: Cyber Attacks, Intrusion Detection System and Topology Control. Electronics (Switzerland), 2017, 6, 5.	3.1	78
3	Recent progress in nano-oxides and CNTs based corrosion resistant superhydrophobic coatings: A critical review. Progress in Organic Coatings, 2020, 140, 105512.	3.9	58
4	A facile approach to develop modified nano-silica embedded polystyrene based transparent superhydrophobic coating. Materials Letters, 2018, 233, 340-343.	2.6	32
5	Performance analysis of DSDV and OLSR wireless sensor network routing protocols using FPGA hardware and machine learning. Multimedia Tools and Applications, 2021, 80, 22301-22319.	3.9	32
6	Machine Learning Based Resource Utilization and Pre-estimation for Network on Chip (NoC) Communication. Wireless Personal Communications, 2018, 102, 2211-2231.	2.7	29
7	Fat Tree NoC Design and Synthesis. Advances in Intelligent Systems and Computing, 2018, , 1749-1756.	0.6	28
8	Comparative Design and Analysis of Mesh, Torus and Ring NoC. Procedia Computer Science, 2015, 48, 330-337.	2.0	27
9	Solar tree-based water pumping for assured irrigation in sustainable Indian agriculture environment. Sustainable Production and Consumption, 2022, 33, 15-27.	11.0	27
10	IoT-Based Implementation of Field Area Network Using Smart Grid Communication Infrastructure. Smart Cities, 2018, 1, 176-189.	9.4	26
11	Scalable Design and Synthesis of 3D Mesh Network on Chip. Advances in Intelligent Systems and Computing, 2017, , 661-666.	0.6	23
12	Effect of Height of the Substrate and Width of the Patch on the Performance Characteristics of Microstrip Antenna. International Journal of Electrical and Computer Engineering, 2015, 5, 1441.	0.7	22
13	Design and FPGA Implementation of DWT, Image Text Extraction Technique. Procedia Computer Science, 2015, 57, 1015-1025.	2.0	20
14	Automotive Power Window Communication with DTC Algorithm and Hardware-in-the Loop Testing. Wireless Personal Communications, 2020, 114, 3351-3366.	2.7	19
15	FPGA application for wireless monitoring in power plant. Nuclear Engineering and Technology, 2021, 53, 1167-1175.	2.3	19
16	Nature Based Self-Learning Mechanism and Simulation of Automatic Control Smart Hybrid Antilock Braking System. Wireless Personal Communications, 2021, 116, 3291-3308.	2.7	16
17	Renewable energy adoption: Design, development, and assessment of solar tree for the mountainous region. International Journal of Energy Research, 2022, 46, 743-759.	4.5	15
18	Secured Network on Chip (NoC) Architecture and Routing with Modified TACIT Cryptographic Technique. Procedia Computer Science, 2015, 48, 158-165.	2.0	14

#	ARTICLE	IF	CITATIONS
19	Zigbee Internode Communication and FPGA Synthesis Using Mesh, Star and Cluster Tree Topological Chip. <i>Wireless Personal Communications</i> , 2021, 119, 1321.	2.7	14
20	Smart grid and nuclear power plant security by integrating cryptographic hardware chip. <i>Nuclear Engineering and Technology</i> , 2021, 53, 3327-3334.	2.3	14
21	Application of Multi Layer Artificial Neural Network in the Diagnosis System: A Systematic Review. <i>IAES International Journal of Artificial Intelligence</i> , 2018, 7, 138.	0.8	14
22	3D Multilayer Mesh NoC Communication and FPGA Synthesis. <i>Wireless Personal Communications</i> , 2019, 106, 1855-1873.	2.7	13
23	Machine Learning Approach for Brain Tumor Detection and Segmentation. <i>International Journal of Organizational and Collective Intelligence</i> , 2021, 11, 68-84.	0.3	13
24	FPGA integrated IEEE 802.15.4 ZigBee wireless sensor nodes performance for industrial plant monitoring and automation. <i>Nuclear Engineering and Technology</i> , 2022, 54, 2444-2452.	2.3	13
25	Estimation of surface roughness for transparent superhydrophobic coating through image processing and machine learning. <i>Molecular Crystals and Liquid Crystals</i> , 2021, 726, 90-104.	0.9	11
26	Nonlinear dynamics of controlled release mechanism under boundary friction. <i>Results in Engineering</i> , 2021, 11, 100265.	5.1	11
27	Design and hardware development of power window control mechanism using microcontroller. , 2013, , .		9
28	Rotator on Chip (RoC) Design Based on Ring Topological NoC. <i>Procedia Computer Science</i> , 2015, 45, 540-548.	2.0	7
29	Storage Optimization of Automated Storage and Retrieval Systems Using Breadth-First Search Algorithm. <i>Lecture Notes in Electrical Engineering</i> , 2017, , 229-238.	0.4	7
30	Design and FPGA Synthesis of Three Stage Telecommunication Switching in HDL Environment. <i>Procedia Computer Science</i> , 2015, 48, 454-460.	2.0	6
31	Hardware chip performance analysis of different FFT architecture. <i>International Journal of Electronics</i> , 0, , 1-17.	1.4	6
32	EMI Concerns, Measurements and Standards for Smart Grid. <i>Green Energy and Technology</i> , 2020, , 123-136.	0.6	6
33	Smart Grid Security with Cryptographic Chip Integration. <i>EAI Endorsed Transactions on Energy Web</i> , 2019, 6, 157037.	0.4	6
34	Network on Chip for 3D Mesh Structure with Enhanced Security Algorithm in HDL Environment. <i>International Journal of Computer Applications</i> , 2012, 59, 6-12.	0.2	6
35	Development of Wireless Data Acquisition and Control System for Smart Microgrid. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 667-673.	0.4	5
36	Smart grid security with AES hardware chip. <i>International Journal of Information Technology (Singapore)</i> , 2020, 12, 49-55.	2.7	5

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37	Cybersecurity for Smart Grid: Threats, Solutions and Standardization. Green Energy and Technology, 2020, , 17-29.	0.6	5
38	Implementation of HMI Using VISUAL BASIC .NET for Induction Hardening Process. Advances in Intelligent Systems and Computing, 2020, , 913-920.	0.6	5
39	FM Receiver Design Using Programmable PLL. Wireless Personal Communications, 2017, 97, 773-787.	2.7	4
40	Integration of Cognitive Radio with Heterogeneous Smart Grid Communication Architecture. Advances in Intelligent Systems and Computing, 2018, , 981-989.	0.6	4
41	Automatic Street Lighting System. Advances in Intelligent Systems and Computing, 2018, , 879-887.	0.6	4
42	WPAN and IoT Enabled Automation to Authenticate Ignition of Vehicle in Perspective of Smart Cities. Sensors, 2021, 21, 7031.	3.8	4
43	ASIC Implementation of Programmable Timer Subsystems for WSN-SOC with WISHBONE Architecture on a Single Chip. The National Academy of Sciences, India, 2022, 45, 231-234.	1.3	4
44	Five Stage Telecommunication Switching Design and Synthesis. Wireless Personal Communications, 2017, 97, 3043-3059.	2.7	3
45	Visual Recurrence Analysis of Chaotic and Regular Motion of a Multiple Pendulum System. Arabian Journal for Science and Engineering, 2017, 42, 2711-2716.	3.0	3
46	Modeling and Simulation of ECG Signal for Heartbeat Application. Advances in Intelligent Systems and Computing, 2018, , 503-511.	0.6	3
47	IC Packaging: 3D IC Technology and Methods. Lecture Notes in Electrical Engineering, 2017, , 303-317.	0.4	2
48	Stabilization of Underactuated Mechanical System Using LQR Technique. Advances in Intelligent Systems and Computing, 2017, , 601-608.	0.6	2
49	Bionics Based Emergency Contact for Treatment of Epilepsy. , 2018, , .		2
50	Cross Layer Optimization and Simulation of Smart Grid Home Area Network. Modelling and Simulation in Engineering, 2018, 2018, 1-14.	0.7	2
51	Design and implementation of I2C interface on FPGA for space borne AIS receiver in embedded system. International Journal of Information Technology (Singapore), 2019, 11, 331-340.	2.7	2
52	Designing of FIR Filter Using FPGA: A Review. Lecture Notes in Electrical Engineering, 2019, , 493-505.	0.4	2
53	Design Goal Based Implementation of Energy Efficient Greek Unicode Reader for Natural Language Processing. International Journal of Smart Home, 2016, 10, 181-190.	0.4	2
54	Smart Communication and Security by Key Distribution in Multicast Environment. Wireless Communications and Mobile Computing, 2022, 2022, 1-14.	1.2	2

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55	Network on chip for DTMF Decoder and TDM switching in telecommunication network with HDL environment. , 2013, , .		1
56	Efficiency of Modified Phosphatic Fertilizer in Transplanted Rice (<i>Oryza sativa</i> L.) Under Partially Reclaimed Salt Affected Soil of Uttar Pradesh. The National Academy of Sciences, India, 2017, 40, 5-7.	1.3	1
57	Microcontroller and FPGA-Based Analysis of 8×48 LED Matrix Display with Keyboard Interface. Advances in Intelligent Systems and Computing, 2017, , 887-894.	0.6	1
58	Four-Stage Telecommunication Switching Design and Synthesis. Advances in Intelligent Systems and Computing, 2017, , 1079-1085.	0.6	1
59	Channel Capacity in MIMO OFDM System. Advances in Intelligent Systems and Computing, 2017, , 1113-1120.	0.6	1
60	Design and FPGA Implementation of 32-Point FFT Processor. Advances in Intelligent Systems and Computing, 2017, , 285-292.	0.6	1
61	Design and FPGA Implementation of DSSS for Near-Far Effect in MANET. Advances in Intelligent Systems and Computing, 2017, , 425-434.	0.6	1
62	Application of Data Mining in Smart Grid Technology. Advances in Information Quality and Management, 2021, , 815-827.	0.2	1
63	Symmetric Cryptography and Hardware Chip Implementation on FPGA. Advances in Intelligent Systems and Computing, 2020, , 945-955.	0.6	1
64	Blueprint of a CMOS Charge Pump for Phase-Locked Loop Synthesizers with High Efficiency. Lecture Notes in Electrical Engineering, 2017, , 249-257.	0.4	0
65	Bionic Functionality of Prosthetic Hand. Advances in Intelligent Systems and Computing, 2018, , 1177-1190.	0.6	0
66	GSM-Based Prepaid Meter. Advances in Intelligent Systems and Computing, 2018, , 1467-1479.	0.6	0
67	VGA Application in Text Display Using FPGA. Advances in Intelligent Systems and Computing, 2018, , 1575-1585.	0.6	0
68	Antenna Path Loss Propagation in the Dehradun Region at 1800MHz in L-Band. Lecture Notes in Electrical Engineering, 2018, , 171-179.	0.4	0
69	Bluetooth-Controlled Robot Using Windows Phone Application. Advances in Intelligent Systems and Computing, 2018, , 1199-1205.	0.6	0
70	Application of Data Mining in Smart Grid Technology. , 2022, , 869-882.		0
71	Design and FPGA Implementation of Intelligent Helmet Hardware Chip for Safe Drive. International Journal of Engineering and Technology, 2016, 8, 2831-2836.	0.1	0
72	Solar-Assisted Cloud-Enabled Intelligent Mini Refrigerator. Advances in Intelligent Systems and Computing, 2020, , 765-772.	0.6	0

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73	Bionics Based Camouflage Clothing for Soldiers. Advances in Intelligent Systems and Computing, 2020, , 415-423.	0.6	0
74	Memristive Phase Change Memory. International Journal of Engineering and Advanced Technology, 2019, 9, 4169-4173.	0.3	0