

# Syed Aziz

## List of Publications by Year in descending order

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72  
papers

1,126  
citations

471509

17  
h-index

454955

30  
g-index

77  
all docs

77  
docs citations

77  
times ranked

1302  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of Cyber-Physical System in Healthcare. International Journal of Distributed Sensor Networks, 2014, 10, 217415.	2.2	170
2	Sensor Anomaly Detection in Wireless Sensor Networks for Healthcare. Sensors, 2015, 15, 8764-8786.	3.8	109
3	Identification of Foot Pathologies Based on Plantar Pressure Asymmetry. Sensors, 2015, 15, 20392-20408.	3.8	96
4	Energy Efficient Image Transmission in Wireless Multimedia Sensor Networks. IEEE Communications Letters, 2013, 17, 1084-1087.	4.1	86
5	Energy cost minimization for net zero energy homes through optimal sizing of battery storage system. Renewable Energy, 2019, 141, 278-286.	8.9	85
6	A Real-Time Localization System for an Endoscopic Capsule Using Magnetic Sensors. Sensors, 2014, 14, 20910-20929.	3.8	55
7	Effects of high solar photovoltaic penetration on distribution feeders and the economic impact. Renewable and Sustainable Energy Reviews, 2020, 131, 110021.	16.4	43
8	Object extraction scheme and protocol for energy efficient image communication over wireless sensor networks. Computer Networks, 2013, 57, 2949-2960.	5.1	37
9	An area efficient LDPC decoder using a reduced complexity min-sum algorithm. The Integration VLSI Journal, 2012, 45, 141-148.	2.1	28
10	FPGA Implementation of High Performance LDPC Decoder Using Modified 2-Bit Min-Sum Algorithm. , 2010, , .		26
11	Efficient parallel architecture for multi-level forward discrete wavelet transform processors. Computers and Electrical Engineering, 2012, 38, 1325-1335.	4.8	25
12	FPGA Implementation of a LDPC Decoder using a Reduced Complexity Message Passing Algorithm. Journal of Networks, 2011, 6, .	0.4	24
13	Effective Teaching of the Physical Design of Integrated Circuits Using Educational Tools. IEEE Transactions on Education, 2010, 53, 517-531.	2.4	22
14	Exploring ways that ePortfolios can support the progressive development of graduate qualities and professional competencies. Higher Education Research and Development, 2013, 32, 871-887.	2.9	21
15	A Real-Time Tracking System for an Endoscopic Capsule using Multiple Magnetic Sensors. Lecture Notes in Electrical Engineering, 2008, , 201-218.	0.4	21
16	A near infrared instrument to monitor relative hemoglobin concentrations of human bone tissue <i>in vitro</i> and <i>in vivo</i>. Review of Scientific Instruments, 2010, 81, 043111.	1.3	18
17	PV generation and load profile data of net zero energy homes in South Australia. Data in Brief, 2019, 25, 104235.	1.0	18
18	Development of a Tracking Algorithm for an In-Vivo RF Capsule Prototype. , 2006, , .		17

#	ARTICLE	IF	CITATIONS
19	False Alarm Detection in Cyber-physical Systems for Healthcare Applications. AASRI Procedia, 2013, 5, 54-61.	0.6	17
20	A simple and inexpensive enteric-coated capsule for delivery of acid-labile macromolecules to the small intestine. Journal of Zhejiang University: Science B, 2015, 16, 586-592.	2.8	16
21	FPGA-Based Image Processor Architecture for Wireless Multimedia Sensor Network. , 2011, , .		13
22	Resource efficient LDPC decoders for multimedia communication. The Integration VLSI Journal, 2015, 48, 213-220.	2.1	13
23	Evaluating Energy Generation Capacity of PVDF Sensors: Effects of Sensor Geometry and Loading. Materials, 2021, 14, 1895.	2.9	11
24	A reduced complexity message passing algorithm with improved performance for LDPC decoding. , 2009, , .		10
25	A real-time localization system for an endoscopic capsule. , 2014, , .		9
26	Implementation of Low Density Parity Check Decoders using a New High Level Design Methodology. Journal of Computers, 2010, 5, .	0.4	9
27	Energy Economy of Households With Photovoltaic System and Battery Storage Under Time of Use Tariff With Demand Charge. IEEE Access, 2022, 10, 33069-33082.	4.2	9
28	Analysis of performance and implementation complexity of simplified algorithms for decoding Low-Density Parity-Check codes. , 2010, , .		8
29	FPGA architecture for object extraction in Wireless Multimedia Sensor Network. , 2011, , .		8
30	A multi-level Hierarchical Quasi-Cyclic matrix for implementation of flexible partially-parallel LDPC decoders. , 2011, , .		8
31	A Highly Flexible LDPC Decoder using Hierarchical Quasi-Cyclic Matrix with Layered Permutation. Journal of Networks, 2012, 7, .	0.4	8
32	FlexiSâ€”A Flexible Sensor Node Platform for the Internet of Things. Sensors, 2021, 21, 5154.	3.8	6
33	An automated design methodology for FPGA-based Multi-Gbps LDPC decoders. , 2012, , .		5
34	A Bus Level SystemC Model for Evaluation of Avionics Mission System Data Bus. , 2005, , .		4
35	High Speed Area Efficient Multi-resolution 2-D 9/7 filter DWT Processor. , 2006, , .		4
36	Construction of a multi-level Hierarchical Quasi-Cyclic matrix with layered permutation for partially-parallel LDPC decoders. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
37	Two-Way Normalization of Min-Sum Decoding Algorithm for Medium and Short Length Low Density Parity Check Codes. , 2011, , .		4
38	Optimal battery size for grid connected rooftop solar photovoltaic systems in South Australia. , 2017, , .		4
39	Comparative Evaluation of Alternative Tariffs on Energy Cost of Households with PV and Battery. , 2019, , .		4
40	Annual Electricity Cost Minimization for South Australian Dwellings through Optimal Battery Sizing. , 2019, , .		4
41	DOA estimation of wideband LFM RADAR signals. , 2019, , .		4
42	On Efficient Design of LDPC Decoders for Wireless Sensor Networks. Journal of Networks, 2014, 9, .	0.4	4
43	A cycle-accurate transaction level SystemC model for a serial communication bus. Computers and Electrical Engineering, 2009, 35, 790-802.	4.8	3
44	A real-time tracking system for in vivo endofunctional capsule using magnetic sensors. , 2012, 2012, 598-601.		3
45	Magnetic sensing technology for in vivo tracking. , 2012, , .		3
46	An energy efficient image compression scheme for Wireless Sensor Networks. , 2013, , .		3
47	Storage node based routing protocol for Wireless Sensor Networks. , 2013, , .		3
48	Application of Battery Energy Storage System to Improve Damping of a Simple Power System. , 2018, , .		3
49	Experimental validation of direction of arrival estimation for high chirpâ€rate linear frequency modulated radar signals. IET Radar, Sonar and Navigation, 2021, 15, 627-640.	1.8	3
50	Evaluation of aggregation techniques for DOA estimation of wideband radar signals. , 2020, , .		3
51	Remote reconfiguration of FPGA-based wireless sensor nodes for flexible Internet of Thingsâ†. Computers and Electrical Engineering, 2022, 100, 107935.	4.8	3
52	Character recognition by double backpropagation neural network. , 0, , .		2
53	Design of a Wireless Power Supply Receiver for Biomedical Applications. , 2006, , .		2
54	New methodologies for high level modeling and synthesis of low density parity check decoders. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
55	Low-Complexity Aggregation Techniques for DOA Estimation over Wide-RF Bandwidths. Electronics (Switzerland), 2021, 10, 1707.	3.1	2
56	Testing differential split-level CMOS circuits. IET Circuits, Devices and Systems, 1994, 141, 451.	0.6	1
57	Automated Speech Discrimination using Frequency Derivative Threshold Detection. , 2007, , .		1
58	LDPC decoding algorithms. , 2018, , 29-53.		1
59	A high-speed two's complement multiplier using differential split-level CMOS. Microelectronics Journal, 1993, 24, 217-223.	2.0	0
60	On C-testability of carry free dividers. , 0, , .		0
61	A synthesisable VHDL model for an easily testable generalised multiplier. , 0, , .		0
62	An electrically controlled micromachined drug delivery device employing two silicon wafers. , 2006, , .		0
63	Design of an Area Efficient High-Speed Color FDWT Processor. , 2006, , .		0
64	A Conceptual Framework for a SIM-based Electronic Transaction Authentication System. , 2007, , .		0
65	Algorithms for Alignment of Co-Channel Speech Signals in Adaptive Speech Separation. , 2007, , .		0
66	Modeling for Performamnce: SystemC Model of A Communication Bus in A Distributed Network. , 2007, , .		0
67	Structure and flexibility of LDPC codes. , 2018, , 11-28.		0
68	LDPC decoder architectures. , 2018, , 55-67.		0
69	LDPC decoders in multimedia communication. , 2018, , 105-115.		0
70	Application of Battery Energy Storage Systems to Enhance Power System Inertia. , 2019, , .		0
71	Response Time Determinism in Healthcare Data Analytics Using Machine Learning. Communications in Computer and Information Science, 2020, , 203-210.	0.5	0
72	A Conceptual Framework for a SIM-based Electronic Transaction Authentication System. , 2007, , .		0