Senthil Kumar

List of Publications by Year
in descending order

35 papers	**251** citations	1163117 **8** h-index	1125743 **13** g-index
36 all docs	**36** docs citations	**36** times ranked	**148** citing authors

#	Article	IF	Citations
1	Design and development of single phase AC–DC discontinuous conduction mode modified bridgeless positive output Luo converter for power quality improvement. IET Power Electronics, 2019, 12, 2722-2730.	2.1	26
2	Design of optimum Maximum Power Point Tracking algorithm for solar panel. , 2011, , .		22
3	A Comparative Study of PI, Fuzzy, and ANN Controllers for Chopper-fed DC Drive with Embedded Systems Approach. Electric Power Components and Systems, 2008, 36, 680-695.	1.8	21
4	Rare earth metal <scp>oxide–doped</scp> reduced <scp>graphene–oxide</scp> nanocomposite as binder–free hybrid electrode material for supercapacitor application. International Journal of Energy Research, 2021, 45, 8255-8266.	4.5	21
5	A Low-cost Four-quadrant Chopper-fed Embedded DC Drive Using Fuzzy Controller. Electric Power Components and Systems, 2007, 35, 907-920.	1.8	19
6	Energy management of distributed renewable energy sources for residential DC microgrid applications. International Transactions on Electrical Energy Systems, 2020, 30, e12258.	1.9	15
7	Comparative Study of PI, Fuzzy and Fuzzy tuned PI Controllers for Single-Phase AC-DC Three-Level Converter. Journal of Electrical Engineering and Technology, 2017, 12, 78-90.	2.0	13
8	Design of low cost universal artificial neuron controller for chopper fed embedded DC drives. Applied Soft Computing Journal, 2008, 8, 1637-1642.	7.2	11
9	Investigation of Power Quality Improvement in Super Lift Luo Converter. International Journal of Power Electronics and Drive Systems, 2017, 8, 1240.	0.6	10
10	Design and implementation of modified <scp>SEPIC</scp> high gain <scp>DC–DC</scp> converter for <scp>DC</scp> microgrid applications. International Transactions on Electrical Energy Systems, 2021, 31, e12921.	1.9	9
11	Comparison of Power Quality Improvement techniques in AC-DC Cuk Converter. , 2011, , .		8
12	Design and Implementation of Fuzzy Logic Controller for Online Computer Controlled Steering System for Navigation of a Teleoperated Agricultural Vehicle. Mathematical Problems in Engineering, 2013, 2013, 1-10.	1.1	8
13	A Global Path Planning Algorithm for Mobile Robot in Cluttered Environments with an Improved Initial Cost Solution and Convergence Rate. Arabian Journal for Science and Engineering, 2022, 47, 3633-3647.	3.0	8
14	DESIGN OF FUZZY LOGIC CONTROLLER FOR ONLINE SPEED REGULATION OF DC MOTOR USING PWM TECHNIQUE BASED ON LABORATORY VIRTUAL INSTRUMENT ENGINEERING WORKBENCH. Journal of Computer Science, 2013, 9, 990-997.	0.6	6
15	Single–phase front–end modified interleaved Luo power factor correction converter for on–board electric vehicle charger. International Journal of Circuit Theory and Applications, 2021, 49, 2655-2669.	2.0	6
16	Design and evaluation of robust controller for AC-to-DC Boost converter. , 2011, , .		5
17	Design and Implementation of High Power LED Lighting System for Health Care Applications. Current Signal Transduction Therapy, 2019, 14, 31-37.	0.5	5
18	Design and Evaluation of PI Controller for Four Switch BLDC Motor Drive. Applied Mechanics and Materials, 2014, 573, 136-142.	0.2	4

#	ARTICLE	IF	CITATIONS
19	FPGA Implementation of Optimal 3D-Integer DCT Structure for Video Compression. Scientific World Journal, The, 2015, 2015, 1-9.	2.1	4
20	Online Control of DC Motors Using Fuzzy Logic Controller for Remote Operated Robots. Journal of Electrical Engineering and Technology, 2014, 9, 352-362.	2.0	4
21	PREDICTION OF EMISSIONS USING COMBUSTION PARAMETERS IN A DIESEL ENGINE THROUGH FUZZY LOGIC TECHNIQUES. International Journal of Computational Intelligence and Applications, 2009, 08, 195-207.	0.8	3
22	Design and simulation of single phase z-source buck boost matrix converter. , 2012, , .		3
23	MODELING AND SIMULATION OF FUZZY BASED AUTOMATIC INSULIN DELIVERY SYSTEM. Journal of Computer Science, 2013, 9, 1133-1139.	0.6	3
24	Power Quality Improvement in Single Phase AC-DC Three Level Boost Converter Using PI and SMC. Applied Mechanics and Materials, 0, 573, 72-77.	0.2	3
25	G-RRT*: Goal-oriented sampling-based RRT* path planning Algorithm for mobile robot navigation with improved convergence rate. , 2021, , .		3
26	Fuzzy based automatic multi-level vehicle parking using lab view. , 2010, , .		2
27	Design and simulation of three phase matrix converter for brushless DC motor. , 2011, , .		2
28	Online control of fuzzy based mine detecting robot using virtual instrumentation. , 2012, , .		2
29	LABVIEW BASED AUTONOMOUS AGRICULTURAL ROBOT USING FUZZY LOGIC CONTROLLER. American Journal of Applied Sciences, 2013, 10, 1413-1418.	0.2	2
30	Analysis and Design of Single Phase AC-DC Modified SEPIC Converter. Applied Mechanics and Materials, 0, 573, 108-114.	0.2	2
31	Investigation of adaptive control of robot manipulators with uncertain features for trajectory tracking employing HIL simulation technique. Turkish Journal of Electrical Engineering and Computer Sciences, 2017, 25, 2513-2521.	1.4	1
32	Online intelligent analyzer for blood pressure measurement. , 2011, , .		0
33	Fuzzy Based Automatic Insulin Injector Simulation Aided by Online Doctor Consultation Using LabVIEW. Applied Mechanics and Materials, 0, 110-116, 1990-1995.	0.2	0
34	DESIGN AND STUDY OF ONLINE FUZZY RISK SCORE ANALYZER FOR DIABETES MELLITUS. American Journal of Applied Sciences, 2013, 10, 1124-1133.	0.2	0
35	Online intelligent incubator for neonates. , 2014, , .		0