

# Badreddine Babes

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

528  
citations

840728

11  
h-index

794568

19  
g-index

44  
all docs

44  
docs citations

44  
times ranked

335  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental enhancement of fuzzy fractional order PI+I controller of grid connected variable speed wind energy conversion system. Energy Conversion and Management, 2016, 123, 569-580.	9.2	65
2	Fuzzy Approximation-Based Fractional-Order Nonsingular Terminal Sliding Mode Controller for DC-DC Buck Converters. IEEE Transactions on Power Electronics, 2022, 37, 2749-2760.	7.9	39
3	A novel nature-inspired maximum power point tracking (MPPT) controller based on ACO-ANN algorithm for photovoltaic (PV) system fed arc welding machines. Neural Computing and Applications, 2022, 34, 299-317.	5.6	34
4	Fractional-Fuzzy PID Control Approach of Photovoltaic-Wire Feeder System (PV-WFS): Simulation and HIL-Based Experimental Investigation. IEEE Access, 2021, 9, 159933-159954.	4.2	24
5	Design and real time implementation of sliding mode supervised fractional controller for wind energy conversion system under sever working conditions. Energy Conversion and Management, 2018, 167, 91-101.	9.2	22
6	Unity power factor Converter based on a Fuzzy controller and Predictive Input Current. ISA Transactions, 2014, 53, 1817-1821.	5.7	20
7	Analysis, design and real-time implementation of shunt active power filter for power quality improvement based on predictive direct power control. , 2016, , .		20
8	Analysis and experimental evaluation of shunt active power filter for power quality improvement based on predictive direct power control. Environmental Science and Pollution Research, 2018, 25, 24548-24560.	5.3	20
9	Maximum power extraction framework using robust fractional-order feedback linearization control and GM-CPSO for PMSG-based WECS. Wind Engineering, 2021, 45, 1040-1054.	1.9	20
10	Design and Experimental Validation of a Digital Predictive Controller for Variable-Speed Wind Turbine Systems. Journal of Power Electronics, 2017, 17, 232-241.	1.5	20
11	Predictive Control of a Grid Connected PV System Incorporating Active power Filter functionalities. , 2019, , .		18
12	Implementation of Fractional-order Integral-plus-proportional Controller to Enhance the Power Quality of an Electrical Grid. Electric Power Components and Systems, 2016, 44, 1018-1028.	1.8	16
13	Design and real time implementation of three-phase three switches three levels Vienna rectifier based on intelligent controllers. Applied Soft Computing Journal, 2017, 56, 158-172.	7.2	14
14	ANFIS Controller Design Using PSO Algorithm for MPPT of Solar PV System Powered Brushless DC Motor Based Wire Feeder Unit. , 2020, , .		14
15	Optimal Tuning of Fractional Order Proportional-Integral-Derivative Controller for Wire Feeder System Using Ant Colony Optimization. Journal European Des Systemes Automatises, 2020, 53, 157-166.	0.4	13
16	DC-Motor Control Using Arduino-Uno Board for Wire-Feed System. , 2018, , .		12
17	Experimental design of stand-alone field oriented control for WECS in variable speed DFIG-based on hysteresis current controller. , 2017, , .		11
18	Power quality improvements of arc welding power supplies by modified bridgeless SEPIC PFC converter. Journal of Power Electronics, 2020, 20, 1445-1455.	1.5	10

#	ARTICLE	IF	CITATIONS
19	Improved Performance and Power Quality of Direct Torque Control of Asynchronous Motor by Using Intelligent Controllers. <i>Electric Power Components and Systems</i> , 2016, 44, 343-358.	1.8	9
20	Real-time Implementation of Robust Controller for PV Emulator Supplied Shunt Active Power Filter. , 2018, , .		9
21	Design of a Robust Voltage Controller for a DC-DC Buck Converter Using Fractional-Order Terminal Sliding Mode Control Strategy. , 2019, , .		9
22	A Robust Adaptive Fuzzy Fast Terminal Synergetic Voltage Control Scheme for DC/DC Buck Converter. , 2019, , .		8
23	Design and real-time implementation of an adaptive fast terminal synergetic controller based on dual RBF neural networks for voltage control of DC-DC step-down converter. <i>Electrical Engineering</i> , 2022, 104, 945-957.	2.0	8
24	Experimental design of a finite state model predictive control for improving power factor of boost rectifier. , 2015, , .		7
25	Modified method for transformer magnetizing characteristic computation and point-to-point wave control switching for inrush current mitigation. <i>International Journal of Circuit Theory and Applications</i> , 2019, 47, 1664-1679.	2.0	7
26	DSP-based implementation of improved deadbeat control for three-phase shunt active power filters. <i>Journal of Power Electronics</i> , 2020, 20, 188-197.	1.5	7
27	Optimal Tuning of PI Controller for PMDC Motor Speed Control Using Ant Colony optimization Algorithm for Enhancing Robustness of WFSs. , 2020, , .		7
28	New Optimal Control of Permanent Magnet DC Motor for Photovoltaic Wire Feeder Systems. <i>Journal European Des Systemes Automatisees</i> , 2020, 53, 811-823.	0.4	7
29	Experimental Investigation of an Adaptive Fuzzy-Neural Fast Terminal Synergetic Controller for Buck DC/DC Converters. <i>Sustainability</i> , 2022, 14, 7967.	3.2	7
30	Functioning ability of multilevel Vienna converter as new parallel active filtering configuration: simulation and experimental evaluation. <i>Electrical Engineering</i> , 2019, 101, 1103-1117.	2.0	6
31	Fractional order PI controller for grid connected wind energy conversion system. , 2015, , .		5
32	Real Time Implementation of Grid Connected Wind Energy Systems: Predictive Current Controller. , 2019, , .		5
33	Arc Welding Current Control Using Thyristor Based Three-Phase Rectifiers Applied to Gas Metal Arc Welding Connected to Grid Network. <i>Journal European Des Systemes Automatisees</i> , 2021, 54, 335-344.	0.4	5
34	Microstructural and Mechanical Properties of Welding and Thermal Spraying Coatings on Ductile Cast Iron. <i>Defect and Diffusion Forum</i> , 0, 406, 300-311.	0.4	5
35	Experimental validation of advanced SP-SAF based on intelligent controllers for power quality enhancement. <i>Energy Reports</i> , 2022, 8, 3018-3029.	5.1	5
36	Real time implementation of grid-connection control using robust PLL for WECS in variable speed DFIG-based on HCC. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
37	Point on Voltage Wave Switching for Sympathetic Inrush Current Reduction. , 2018, , .		4
38	Experimental Evaluation of Single-Phase Shunt Active Power Filter Based on Optimized Synergetic Control Strategy for Power Quality Enhancement. Journal Europeen Des Systemes Automatises, 2021, 54, 649-659.	0.4	4
39	Design and Analysis of Robust Nonlinear Synergetic Controller for a PMDC Motor Driven Wire-Feeder System (WFS). Lecture Notes in Electrical Engineering, 2021, , 373-387.	0.4	4
40	Mitigation of Sympathetic Inrush Current in Transformer Using the Technique of Point on Voltage Wave Control Switching. , 2018, , .		2
41	A DC/DC Buck Converter Voltage Regulation Using an Adaptive Fuzzy Fast Terminal Synergetic Control. Lecture Notes in Electrical Engineering, 2021, , 711-721.	0.4	2
42	Implementation of Direct Power Control for shunt active power filter. , 2013, , .		0
43	Power Quality Enhancement of AC/DC Converter by a Smart Direct Power Control: Practical Assessment. , 2021, , .		0
44	Optimizing MAG Welding Input Variables to Maximize Penetration Depth Using Particle Swarm Optimization Algorithm. Engineering Proceedings, 2022, 14, .	0.4	0