Viliam Fedak

List of Publications by Year
in descending order

27 papers	305 citations	1040056 9 h-index	996975 15 g-index
27 all docs	27 docs citations	27 times ranked	304 citing authors

#	Article	IF	Citations
1	Dynamic Identification of Rotor Magnetic Flux, Torque and Rotor Resistance of Induction Motor. IEEE Access, 2020, 8, 142003-142015.	4.2	10
2	Distribution of the Strip Tensions with Slip Control in Strip Processing Lines. Energies, 2019, 12, 3010.	3.1	4
3	Lyapunov Based Reference Model of Tension Control in a Continuous Strip Processing Line with Multi-Motor Drive. Electronics (Switzerland), 2019, 8, 60.	3.1	9
4	Software Architectures for Smart Grid Systemâ€"A Bibliographical Survey. Energies, 2019, 12, 1183.	3.1	11
5	A Buck-Chopper Based Energy Storage System for the Cascaded H-Bridge Inverters in PV Applications. Energy Procedia, 2018, 145, 534-541.	1.8	5
6	Control Architecture for Cascaded H-Bridge Inverters in Large-Scale PV Systems. Energy Procedia, 2018, 145, 549-557.	1.8	9
7	Power Quality Performance Analysis of grid tied PV fed Parallel Pumping System under Normal and Vibrating Condition. Energy Procedia, 2018, 145, 497-503.	1.8	8
8	Stable and Robust Controller for Induction Motor Drive. , 2018, , .		1
9	Feedforward Finite Control Set Model Predictive Position Control of PMSM. , 2018, , .		9
10	The Fuzzy System as a Promising Tool for Drugs Selection in Medical Practice. IEEE Access, 2018, 6, 27294-27301.	4.2	4
11	An Original Transformer and Switched-Capacitor (T & SC)-Based Extension for DC-DC Boost Converter for High-Voltage/Low-Current Renewable Energy Applications: Hardware Implementation of a New T & SC Boost Converter. Energies, 2018, 11, 783.	3.1	69
12	Three-stage control architecture for cascaded H-Bridge inverters in large-scale PV systems â€“ Real time simulation validation. Applied Energy, 2018, 229, 1111-1127.	10.1	10
13	Modified SEPIC DC-to-DC boost converter with high output-gain configuration for renewable applications. , 2017, , .		31
14	A modified high output-gain cuk converter circuit configuration for renewable applications â€" A comprehensive investigation. , 2017, , .		20
15	Design of load torque and mechanical speed estimator of PMSM with unscented Kalman filter â€" An engineering guide. , 2017, , .		20
16	Control Strategy for a Grid-Connected Inverter under Unbalanced Network Conditionsâ€"A Disturbance Observer-Based Decoupled Current Approach. Energies, 2017, 10, 1067.	3.1	20
17	Development of Sliding Mode Controller for a Modified Boost Ä†uk Converter Configuration. Energies, 2017, 10, 1513.	3.1	13
18	Performance analysis of CNTFET based low energy and low power adiabatic logic design. , 2017, , .		0

#	Article	IF	Citations
19	Finite Control Set Model Predictive Speed Control of a DC Motor. Mathematical Problems in Engineering, 2016, 2016, 1-10.	1.1	15
20	CAD of Cascade Controllers for DC Drives Using Genetic Algorithm Methods. Procedia Engineering, 2014, 96, 182-189.	1.2	4
21	Modeling and Analysis of Multi-motor Drive Properties in a Web Processing Continuous Line. Procedia Engineering, 2014, 96, 281-288.	1.2	9
22	Development of Motion Control of Legs in Six-Legged Robotic Vehicle. Applied Mechanics and Materials, 2014, 613, 36-42.	0.2	0
23	Hardware Design for State Vector Identification of a Small Helicopter Model. Applied Mechanics and Materials, 2013, 282, 107-115.	0.2	1
24	Teaching Electrical Drives and Power Electronics: eLearning and Beyond. Automatika, 2010, 51, 166-173.	2.0	6
25	Philosophy of Interactive e-Learning for Power Electronics and Electrical Drives: a Way from Ideas to Realization. Journal of Power Electronics, 2010, 10, 587-594.	1.5	11
26	AC Drives for high Performance Applications Using Fuzzy Logic Controllers.. IEEJ Transactions on Industry Applications, 1994, 114, 734-740.	0.2	0
27	Implementation of Robot Control Algorithms by Real-Time Control System. International Journal of Engineering Research in Africa, 0, 18, 112-119.	0.7	6