Matija Krznar

List of Publications by Year
in descending order

15 papers	126 citations	1478505 6 h-index	1281871 11 g-index
15 all docs	15 docs citations	15 times ranked	86 citing authors

#	Article	IF	Citations
1	Comparative analysis of conventional diesel-electric and hypothetical battery-electric heavy haul locomotive operation in terms of fuel savings and emissions reduction potentials. Energy, 2021, 232, 121097.	8.8	28
2	Dual EKF-Based State and Parameter Estimator for a LiFePO₄ Battery Cell. Journal of Power Electronics, 2017, 17, 398-410.	1.5	21
3	Method for Characterization of a Multirotor UAV Electric Propulsion System. Applied Sciences (Switzerland), 2020, 10, 8229.	2.5	16
4	Cross-axis control system design for borehole drilling based on damping optimum criterion and utilization of proportional-integral controllers. Optimization and Engineering, 2021, 22, 51-81.	2.4	13
5	On-line Inertia Measurement of Unmanned Aerial Vehicles using on board Sensors and Bifilar Pendulum. Interdisciplinary Description of Complex Systems, 2018, 16, 149-161.	0.6	12
6	Modeling, Control System Design and Preliminary Experimental Verification of a Hybrid Power Unit Suitable for Multirotor UAVs. Energies, 2021, 14, 2669.	3.1	10
7	Experimental Identification and Characterization of Multirotor UAV Propulsion. Journal of Physics: Conference Series, 2017, 870, 012003.	0.4	7
8	Propeller speed estimation for unmanned aerial vehicles using Kalman filtering. International Journal of Automation and Control, 2020, 14, 284.	0.5	4
9	Experimental characterization and development of a SoC/SoH estimator for a LiFePO<inf>4</inf> battery cell. , 2015, , .		3
10	A retrofitting control system design suitable for deep borehole drilling using legacy draw-works mechanical brake hardware. Energy Conversion and Management, 2022, 260, 115589.	9.2	3
11	Current and voltage control system designs with EKF-based state-of-charge estimator for the purpose of LiFePO4 battery cell charging. Optimization and Engineering, 2022, 23, 2335-2363.	2.4	3
12	Modeling, Controller Design and Simulation Groundwork on Multirotor Unmanned Aerial Vehicle Hybrid Power Unit. Energies, 2021, 14, 7125.	3.1	2
13	Propeller speed estimation for unmanned aerial vehicles using Kalman filtering. International Journal of Automation and Control, 2020, 14, 284.	0.5	2
14	Internal Combustion Engine Starting and Torque Boosting Control System Design with Vibration Active Damping Features for a P0 Mild Hybrid Vehicle Configuration. Energies, 2022, 15, 1311.	3.1	2
15	Damping Optimum-based Design of State Controller and Observer for Drill-String Rotary Speed Control. , 2019, , .		0