

# Matija Krznar

## List of Publications by Year in descending order

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15  
papers

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1478505

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docs citations

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