

# Ionel Vechiu

## List of Publications by Year in descending order

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Version: 2024-02-01

10  
papers

381  
citations

1478505

6  
h-index

1588992

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g-index

10  
all docs

10  
docs citations

10  
times ranked

495  
citing authors

#	ARTICLE	IF	CITATIONS
1	CVaR-based energy management scheme for optimal resilience and operational cost in commercial building microgrids. International Journal of Electrical Power and Energy Systems, 2018, 100, 1-9.	5.5	161
2	A review of hierarchical control for building microgrids. Renewable and Sustainable Energy Reviews, 2020, 118, 109523.	16.4	102
3	Second-order sliding-mode controller design and tuning for grid synchronisation and power control of a wind turbine-driven doubly fed induction generator. IET Renewable Power Generation, 2013, 7, 540-551.	3.1	37
4	Two-level hierarchical model predictive control with an optimised cost function for energy management in building microgrids. Applied Energy, 2021, 285, 116420.	10.1	30
5	Sizing and control of a Solid Oxide Fuel Cell/Gas microTurbine hybrid power system using a unique inverter for rural microgrid integration. Applied Energy, 2016, 176, 272-281.	10.1	20
6	Optimal Management of an Energy Storage Unit in a PV-Based Microgrid Integrating Uncertainty and Risk. Applied Sciences (Switzerland), 2019, 9, 169.	2.5	18
7	Analysis and validation of a biogas hybrid SOFC/GT emulator. , 2014, , .		7
8	Universal switched state-space representation for model predictive control of power converters. Electric Power Systems Research, 2020, 180, 106120.	3.6	4
9	Autonomous observer of hydrogen storage to enhance a model predictive control structure for building microgrids. Journal of Energy Storage, 2022, 53, 105072.	8.1	2
10	Direct state-space model for model predictive control of multi-level power converters. , 2017, , .		0