

# 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

8  
g-index

10  
all docs

10  
docs citations

10  
times ranked

495  
citing authors

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