# Henrik Hesse

List of Publications by Year
in descending order

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|---|---|---|---|
| 36 papers | 486 citations | 933447<br>10 h-index | 888059<br>17 g-index |
| 36 all docs | 36 docs citations | 36 times ranked | 312 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Reduced-Order Aeroelastic Models for Dynamics of Maneuvering Flexible Aircraft. AIAA Journal, 2014, 52, 1717-1732. | 2.6 | 62 |
| 2 | Aerodynamic load control in horizontal axis wind turbines with combined aeroelastic tailoring and trailingâ€edge flaps. Wind Energy, 2016, 19, 243-263. | 4.2 | 40 |
| 3 | Consistent structural linearisation in flexible-body dynamics with large rigid-body motion. Computers and Structures, 2012, 110-111, 1-14. | 4.4 | 37 |
| 4 | Consistent Structural Linearization in Flexible Aircraft Dynamics with Large Rigid-Body Motion. AIAA Journal, 2014, 52, 528-538. | 2.6 | 33 |
| 5 | Aeroservoelastic stateâ€space vortex lattice modeling and load alleviation of wind turbine blades. Wind Energy, 2015, 18, 1317-1331. | 4.2 | 27 |
| 6 | The effects of the Lewis number of the fuel on the displacement speed of edge flames in igniting turbulent mixing layers. Proceedings of the Combustion Institute, 2009, 32, 1399-1407. | 3.9 | 25 |
| 7 | Design Methodology for Heavy-Lift Unmanned Aerial Vehicles with Coaxial Rotors. , 2019, , . | | 25 |
| 8 | Enabling Optimization-Based Localization for IoT Devices. IEEE Internet of Things Journal, 2019, 6, 5639-5650. | 8.7 | 23 |
| 9 | Dynamic Load Alleviation in Wake Vortex Encounters. Journal of Guidance, Control, and Dynamics, 2016, 39, 801-813. | 2.8 | 21 |
| 10 | Predictive Control of Autonomous Kites in Tow Test Experiments. , 2017, 1, 110-115. | | 19 |
| 11 | LiDAR-Based 3D SLAM for Indoor Mapping. , 2021, , . | | 16 |
| 12 | Effects of Fuel Lewis Number on Localised Forced Ignition of Turbulent Mixing Layers. Flow, Turbulence and Combustion, 2010, 84, 125-166. | 2.6 | 15 |
| 13 | Model-based identification and control of the velocity vector orientation for autonomous kites. , 2015, , . | | 14 |
| 14 | Numerical Investigation of Edge Flame Propagation Behavior in an Igniting Turbulent Planar Jet. Combustion Science and Technology, 2010, 182, 1747-1781. | 2.3 | 13 |
| 15 | Model-based flight path planning and tracking for tethered wings. , 2015, , . | | 13 |
| 16 | Predictive Control for Alleviation of Gust Loads on Very Flexible Aircraft. , 2014, , . | | 10 |
| 17 | Stability and Open-Loop Dynamics of Very Flexible Aircraft Including Free-Wake Effects. , 2011, , . | | 9 |
| 18 | Efficient aeroservoelastic modeling and control using trailing-edge flaps of wind turbines. , 2014, , . | | 8 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Range-inertial estimation for airborne wind energy. , 2015, , . | | 8 |
| 20 | Drone-Based AI and 3D Reconstruction for Digital Twin Augmentation. Lecture Notes in Computer Science, 2021, , 511-529. | 1.3 | 8 |
| 21 | Pumping Cycle Kite Power with Twings. Green Energy and Technology, 2018, , 603-621. | 0.6 | 7 |
| 22 | Morphing Concept for Multirotor UAVs Enabling Stability Augmentation and Multiple-Parcel Delivery. , 2019, , . | | 7 |
| 23 | Displacement Speed Statistics for Stratified Mixture Combustion in an Igniting Turbulent Planar Jet. Journal of Engineering for Gas Turbines and Power, 2012, 134, . | 1.1 | 6 |
| 24 | AEOLUS, the ETH Autonomous Model Sailboat. , 2016, , 103-112. | | 6 |
| 25 | Predictive Guidance Control for Autonomous Kites with Input Delay * *This research was supported by the Swiss National Science Foundation (Synergia) No. 141836 and the European Union Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No. 642682.. IFAC-PapersOnLine, 2017, 50, 13276-13281. | 0.9 | 6 |
| 26 | Modeling, Identification, Estimation and Adaptation for the Control of Power-Generating Kites. IFAC-PapersOnLine, 2018, 51, 981-989. | 0.9 | 6 |
| 27 | Model-based Aeroservoelastic Design and Load Alleviation of Large Wind Turbines. , 2014, , . | | 5 |
| 28 | Assessing the Impact of Aerodynamic Modelling on Manoeuvring Aircraft. , 2014, , . | | 4 |
| 29 | State Estimation for Kite Power Systems with Delayed Sensor Measurements * *This research was supported by the Swiss National Science Foundation (Synergia) No. 141836 and the Swiss Commission for Technology and Innovation (CTI). IFAC-PapersOnLine, 2017, 50, 11959-11964. | 0.9 | 4 |
| 30 | Visual Motion Tracking and Sensor Fusion for Kite Power Systems. Green Energy and Technology, 2018, , 413-438. | 0.6 | 3 |
| 31 | Rapid Design Process of Shrouded Rotors for Efficient UAV Propulsion. , 2021, , . | | 2 |
| 32 | Consistent Structural Linearization in Flexible Aircraft Dynamics with Large Rigid-Body Motion. , 2012, , . | | 1 |
| 33 | Model Reduction in Flexible-Aircraft Dynamics with Large Rigid-Body Motion. , 2013, , . | | 1 |
| 34 | Optimization based self-localization for IoT wireless sensor networks. , 2018, , . | | 1 |
| 35 | Numerical Capture and Validation of a Massively Separated Bluff-Body Wake. , 2020, , . | | 1 |
| 36 | Vision-Based Navigation for Control of Micro Aerial Vehicles. , 2019, , 413-427. | | 0 |