

# Henrik Hesse

## List of Publications by Year in descending order

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36  
papers

486  
citations

933447

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h-index

888059

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g-index

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all docs

36  
docs citations

36  
times ranked

312  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Design Process of Shrouded Rotors for Efficient UAV Propulsion. , 2021, , .		2
2	Drone-Based AI and 3D Reconstruction for Digital Twin Augmentation. Lecture Notes in Computer Science, 2021, , 511-529.	1.3	8
3	LiDAR-Based 3D SLAM for Indoor Mapping. , 2021, , .		16
4	Numerical Capture and Validation of a Massively Separated Bluff-Body Wake. , 2020, , .		1
5	Design Methodology for Heavy-Lift Unmanned Aerial Vehicles with Coaxial Rotors. , 2019, , .		25
6	Enabling Optimization-Based Localization for IoT Devices. IEEE Internet of Things Journal, 2019, 6, 5639-5650.	8.7	23
7	Morphing Concept for Multirotor UAVs Enabling Stability Augmentation and Multiple-Parcel Delivery. , 2019, , .		7
8	Vision-Based Navigation for Control of Micro Aerial Vehicles. , 2019, , 413-427.		0
9	Visual Motion Tracking and Sensor Fusion for Kite Power Systems. Green Energy and Technology, 2018, , 413-438.	0.6	3
10	Modeling, Identification, Estimation and Adaptation for the Control of Power-Generating Kites. IFAC-PapersOnLine, 2018, 51, 981-989.	0.9	6
11	Pumping Cycle Kite Power with Twings. Green Energy and Technology, 2018, , 603-621.	0.6	7
12	Optimization based self-localization for IoT wireless sensor networks. , 2018, , .		1
13	Predictive Control of Autonomous Kites in Tow Test Experiments. , 2017, 1, 110-115.		19
14	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
15	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
16	Aerodynamic load control in horizontal axis wind turbines with combined aeroelastic tailoring and trailing-edge flaps. Wind Energy, 2016, 19, 243-263.	4.2	40
17	Dynamic Load Alleviation in Wake Vortex Encounters. Journal of Guidance, Control, and Dynamics, 2016, 39, 801-813.	2.8	21
18	AEOLUS, the ETH Autonomous Model Sailboat. , 2016, , 103-112.		6

#	ARTICLE	IF	CITATIONS
19	Model-based flight path planning and tracking for tethered wings. , 2015, , .		13
20	Range-inertial estimation for airborne wind energy. , 2015, , .		8
21	Model-based identification and control of the velocity vector orientation for autonomous kites. , 2015, , .		14
22	Aeroservoelastic stateâ€space vortex lattice modeling and load alleviation of wind turbine blades. Wind Energy, 2015, 18, 1317-1331.	4.2	27
23	Predictive Control for Alleviation of Gust Loads on Very Flexible Aircraft. , 2014, , .		10
24	Consistent Structural Linearization in Flexible Aircraft Dynamics with Large Rigid-Body Motion. AIAA Journal, 2014, 52, 528-538.	2.6	33
25	Efficient aeroservoelastic modeling and control using trailing-edge flaps of wind turbines. , 2014, , .		8
26	Reduced-Order Aeroelastic Models for Dynamics of Maneuvering Flexible Aircraft. AIAA Journal, 2014, 52, 1717-1732.	2.6	62
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	Model Reduction in Flexible-Aircraft Dynamics with Large Rigid-Body Motion. , 2013, , .		1
30	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
31	Consistent Structural Linearization in Flexible Aircraft Dynamics with Large Rigid-Body Motion. , 2012, , .		1
32	Consistent structural linearisation in flexible-body dynamics with large rigid-body motion. Computers and Structures, 2012, 110-111, 1-14.	4.4	37
33	Stability and Open-Loop Dynamics of Very Flexible Aircraft Including Free-Wake Effects. , 2011, , .		9
34	Numerical Investigation of Edge Flame Propagation Behavior in an Igniting Turbulent Planar Jet. Combustion Science and Technology, 2010, 182, 1747-1781.	2.3	13
35	Effects of Fuel Lewis Number on Localised Forced Ignition of Turbulent Mixing Layers. Flow, Turbulence and Combustion, 2010, 84, 125-166.	2.6	15
36	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