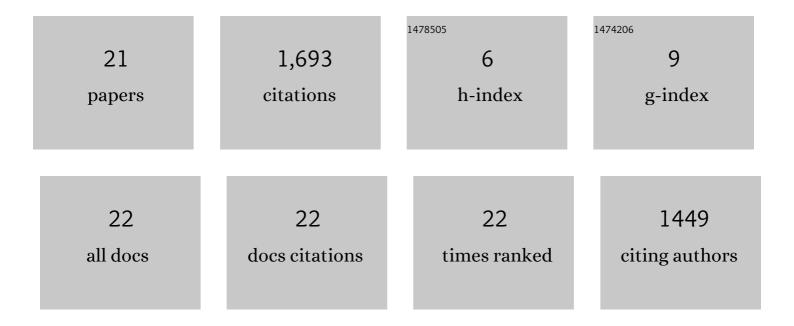
## Hannes Höppner

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8705520/publications.pdf

Version: 2024-02-01



#	Article	IF	CITATIONS
1	Variable impedance actuators: A review. Robotics and Autonomous Systems, 2013, 61, 1601-1614.	5.1	822
2	The DLR hand arm system. , 2011, , .		330
3	Variable Stiffness Actuators: Review on Design and Components. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2418-2430.	5.8	293
4	Analysis and Synthesis of the Bidirectional Antagonistic Variable Stiffness Mechanism. IEEE/ASME Transactions on Mechatronics, 2015, 20, 684-695.	5.8	72
5	CLASH: Compliant Low Cost Antagonistic Servo Hands. , 2018, , .		25
6	Key Insights into Hand Biomechanics: Human Grip Stiffness Can Be Decoupled from Force by Cocontraction and Predicted from Electromyography. Frontiers in Neurorobotics, 2017, 11, 17.	2.8	21
7	Soft Robotics with Variable Stiffness Actuators: Tough Robots for Soft Human Robot Interaction. , 2015, , 231-254.		21
8	Wrist and forearm rotation of the DLR Hand Arm System: Mechanical design, shape analysis and experimental validation. , 2011, , .		19
9	End-effector airbags to accelerate human-robot collaboration. , 2017, , .		17
10	EDAN: An EMG-controlled Daily Assistant to Help People With Physical Disabilities. , 2020, , .		16
11	Task Dependency of Grip Stiffness—A Study of Human Grip Force and Grip Stiffness Dependency during Two Different Tasks with Same Grip Forces. PLoS ONE, 2013, 8, e80889.	2.5	15
12	The Grasp Perturbator: Calibrating human grasp stiffness during a graded force task. , 2011, , .		10
13	Wrist and forearm rotation of the DLR hand arm system: Mechanical design, shape analysis and experimental validation. , 2011, , .		10
14	Human-Robotic Variable-Stiffness Grasps of Small-Fruit Containers Are Successful Even Under Severely Impaired Sensory Feedback. Frontiers in Neurorobotics, 2018, 12, 70.	2.8	9
15	Simultaneous Motion Tracking and Joint Stiffness Control of Bidirectional Antagonistic Variable-Stiffness Actuators. IEEE Robotics and Automation Letters, 2022, 7, 6614-6621.	5.1	4
16	Two-dimensional orthoglide mechanism for revealing areflexive human arm mechanical properties. , 2015, , .		2
17	Hitting the sweet spot: Automatic optimization of energy transfer during tool-held hits. , 2017, , .		2
18	Elastic Elements in a Wrist Prosthesis for Drumming Reduce Muscular Effort, but Increase Imprecision and Perceived Stress. Frontiers in Neurorobotics, 2018, 12, 9.	2.8	2

#	Article	IF	CITATIONS
19	A new biarticular joint mechanism to extend stiffness ranges. , 2014, , .		1
20	Blindfolded robotic teleoperation using spatial force feedback to the toe. , 2017, , .		1
21	Human's Capability to Discriminate Spatial Forces at the Big Toe. Frontiers in Neurorobotics, 2018, 12, 13.	2.8	1