

# Bryan Convens

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5033253/publications.pdf>

Version: 2024-02-01

11  
papers

178  
citations

1478505

6  
h-index

1281871

11  
g-index

11  
all docs

11  
docs citations

11  
times ranked

193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing the power and energy consumption of powered prosthetic ankles with series and parallel elasticity. Mechanism and Machine Theory, 2017, 116, 419-432.	4.5	40
2	EtherCAT Tutorial: An Introduction for Real-Time Hardware Communication on Windows [Tutorial]. IEEE Robotics and Automation Magazine, 2018, 25, 22-122.	2.0	34
3	Real-time motion control of robotic manipulators for safe human-robot coexistence. Robotics and Computer-Integrated Manufacturing, 2022, 73, 102223.	9.9	28
4	Modeling, Design and Test-Bench Validation of a Semi-Active Propulsive Ankle Prosthesis With a Clutched Series Elastic Actuator. IEEE Robotics and Automation Letters, 2019, 4, 1823-1830.	5.1	23
5	Control of Fully Actuated Unmanned Aerial Vehicles with Actuator Saturation * *This research has been funded by the Mandats d'Impulsion Scientifique "Optimization-free Control of Nonlinear Systems subject to Constraints" of the Fonds de la Recherche Scientifique (FNRS), Ref. F452617F.. IFAC-PapersOnLine, 2017, 50, 12715-12720.	0.9	17
6	Design, Optimization and Energetic Evaluation of an Efficient Fully Powered Ankle-Foot Prosthesis With a Series Elastic Actuator. IEEE Access, 2020, 8, 61491-61503.	4.2	12
7	The effects of variable mechanical parameters on peak power and energy consumption of ankle-foot prostheses at different speeds. Advanced Robotics, 2018, 32, 1229-1240.	1.8	6
8	Invariant Set Distributed Explicit Reference Governors for Provably Safe On-Board Control of Nano-Quadrotor Swarms. Frontiers in Robotics and AI, 2021, 8, 663809.	3.2	6
9	Failure Mode and Effect Analysis (FMEA)-Driven Design of a Planetary Gearbox for Active Wearable Robotics. Biosystems and Biorobotics, 2019, , 460-464.	0.3	5
10	Introducing Compound Planetary Gears (C-PGTs): A Compact Way to Achieve High Gear Ratios for Wearable Robots. Biosystems and Biorobotics, 2019, , 485-489.	0.3	5
11	Safe, Fast, and Efficient Distributed Receding Horizon Constrained Control of Aerial Robot Swarms. IEEE Robotics and Automation Letters, 2022, 7, 4173-4180.	5.1	2