Mirko Kovac

List of Publications by Year
in descending order

69	2,525	236925 25	233421 45
papers	citations	h-index	g-index

70	70	70	4882
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vision based crown loss estimation for individual trees with remote aerial robots. ISPRS Journal of Photogrammetry and Remote Sensing, 2022, 188, 75-88.	11.1	10
2	Effects of ionic liquids and dual curing on vat photopolymerization process and properties of 3d-printed ionogels. Additive Manufacturing, 2022, 56, 102895.	3.0	2
3	Aerial-aquatic robots capable of crossing the air-water boundary and hitchhiking on surfaces. Science Robotics, 2022, 7, eabm6695.	17.6	56
4	An Intelligent Aerial Manipulator for Wind Turbine Inspection and Repair. , 2022, , .		3
5	Biodegradable sensors are ready to transform autonomous ecological monitoring. Nature Ecology and Evolution, 2022, 6, 1245-1247.	7.8	13
6	Self-Sensing Cellulose Structures With Design-Controlled Stiffness. IEEE Robotics and Automation Letters, 2021, 6, 4017-4024.	5.1	7
7	Optic Flow-Based Reactive Collision Prevention for MAVs Using the Fictitious Obstacle Hypothesis. IEEE Robotics and Automation Letters, 2021, 6, 3144-3151.	5.1	16
8	Challenges in Control and Autonomy of Unmanned Aerial-Aquatic Vehicles. , 2021, , .		4
9	Measurement of the WÎ³ Production Cross Section in Proton-Proton Collisions at s=13â€‰â€‰TeV and Constraints on Effective Field Theory Coefficients. Physical Review Letters, 2021, 126, 252002.	7.8	13
10	Constraints on the Initial State of Pb-Pb Collisions via Measurements of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Z</mml:mi></mml:math> -Boson Yields and Azimuthal Anisotropy at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:mrow><mml:msub><mml:mrow><mml:mi>s</mml:mi></mml:mrow><mml:mrow><m Physical Review Letters, 2021, 127, 102002.	7.8	5
11	Body Caudal Undulation Measured by Soft Sensors and Emulated by Soft Artificial Muscles. Integrative and Comparative Biology, 2021, 61, 1955-1965.	2.0	4
12	Deep Neuromorphic Controller with Dynamic Topology for Aerial Robots. , 2021, , .		5
13	Robotic Electrospinning Actuated by Non-Circular Joint Continuum Manipulator for Endoluminal Therapy. , 2021, , .		0
14	A High Payload Aerial Platform for Infrastructure Repair and Manufacturing. , 2021, , .		6
15	Forest Drones for Environmental Sensing and Nature Conservation. , 2021, , .		7
16	Zero-footprint eco-robotics: A new perspective on biodegradable robots. , 2021, , .		7
17	Measurements of the Electroweak Diboson Production Cross Sections in Proton-Proton Collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:msqrt><mml:mo>=</mml:mo><m Using Leptonic Decays. Physical Review Letters, 2021, 127, 191801.	7.8	6
18	Undulatory Swimming Performance Explored With a Biorobotic Fish and Measured by Soft Sensors and Particle Image Velocimetry. Frontiers in Robotics and AI, 2021, 8, 791722.	3.2	6

#	Article	IF	Citations
19	Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:msqrt><mml:mo>=</mml:mo><mm Physical Review Letters, 2021, 127, 261804.	7.8	17
20	Observation of the Production of Three Massive Gauge Bosons at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msqrt><mml:mi>s</mml:mi></mml:msqrt><mml:mo>=</mml:mo><mml:mn>13</mml:mn><mml:mtext>â€‰</ Physical Review Letters, 2020, 125, 151802.	7.8	20
21	MEDUSA: A Multi-Environment Dual-Robot for Underwater Sample Acquisition. IEEE Robotics and Automation Letters, 2020, 5, 4564-4571.	5.1	24
22	Skills for physical artificial intelligence. Nature Machine Intelligence, 2020, 2, 658-660.	16.0	39
23	TiltDrone: A Fully-Actuated Tilting Quadrotor Platform. IEEE Robotics and Automation Letters, 2020, 5, 6845-6852.	5.1	60
24	Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>p</mml:mi><mml:mi>p</mml:mi></mml:mrow></mml:math> Collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msqrt><mml:mrow><mml:mi>s</mml:mi></mml:mrow></mml:msqrt><mml:mo>=</mml:mo><mm Physical Review Letters, 2020, 124, 202001.	7.8	13
25	display="inline"><mml:mrow><mml:msubsup><mml:mrow><mml:mi>B</mml:mi></mml:mrow><mml:mrow><mml:mi>s</mml:mi></ stretchy="false">â†’</mml:mo><mml:mi>X</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>3872</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 492 Td (stretchy="fa Letters, 2020, 125, 152001.	7.8	14
26	Unmanned Aerial Sensor Placement for Cluttered Environments. IEEE Robotics and Automation Letters, 2020, 5, 6623-6630.	5.1	30
27	Bioinspired Aerial Robots. , 2020, , 1-12.		0
28	SailMAV: Design and Implementation of a Novel Multi-Modal Flying Sailing Robot. IEEE Robotics and Automation Letters, 2019, 4, 2894-2901.	5.1	22
29	Modelling and simulation of a bioinspired aquatic micro aerial vehicle. , 2019, , .		6
30	Consecutive aquatic jump-gliding with water-reactive fuel. Science Robotics, 2019, 4, .	17.6	59
31	A Passively Adaptive Microspine Grapple for Robust, Controllable Perching. , 2019, , .		32
32	A Design and Fabrication Approach for Pneumatic Soft Robotic Arms Using 3D Printed Origami Skeletons. , 2019, , .		19
33	A review of collective robotic construction. Science Robotics, 2019, 4, .	17.6	116
34	An Integrated Delta Manipulator for Aerial Repair: A New Aerial Robotic System. IEEE Robotics and Automation Magazine, 2019, 26, 54-66.	2.0	65
35	Bioinspired design of a landing system with soft shock absorbers for autonomous aerial robots. Journal of Field Robotics, 2019, 36, 230-251.	6.0	23
36	Fully autonomous micro air vehicle flight and landing on a moving target using visualâ€“inertial estimation and modelâ€predictive control. Journal of Field Robotics, 2019, 36, 49-77.	6.0	20

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37	Power and Control Autonomy for High-Speed Locomotion With an Insect-Scale Legged Robot. IEEE Robotics and Automation Letters, 2018, 3, 987-993.	5.1	111
38	High-Power Propulsion Strategies for Aquatic Take-off in Robotics. Springer Proceedings in Advanced Robotics, 2018, , 5-20.	1.3	5
39	Tensile Web Construction and Perching with Nano Aerial Vehicles. Springer Proceedings in Advanced Robotics, 2018, , 71-88.	1.3	17
40	Studies of $${mathrm {B}} ^{*}_{{mathrm {s}}2}(5840)^0 $$ B s 2 âˆ— (5840) 0 and $${mathrm {B}}		

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55	SpiderMAV: Perching and stabilizing micro aerial vehicles with bio-inspired tensile anchoring systems. , 2017, , .		21
56	Learning from nature how to land aerial robots. Science, 2016, 352, 895-896.	12.6	49
57	Perspectives on biologically inspired hybrid and multi-modal locomotion. Bioinspiration and Biomimetics, 2015, 10, 020301.	2.9	68
58	Performance analysis of jump-gliding locomotion for miniature robotics. Bioinspiration and Biomimetics, 2015, 10, 025006.	2.9	43
59	At the Crossroads: Interdisciplinary Paths to Soft Robots. Soft Robotics, 2014, 1, 63-69.	8.0	17
60	The Bioinspiration Design Paradigm: A Perspective for Soft Robotics. Soft Robotics, 2014, 1, 28-37.	8.0	70
61	Launching the AquaMAV: bioinspired design for aerialâ€“aquatic robotic platforms. Bioinspiration and Biomimetics, 2014, 9, 031001.	2.9	113
62	The EPFL jumpglider: A hybrid jumping and gliding robot with rigid or folding wings. , 2011, , .		36
63	The locomotion capabilities of the EPFL jumpglider: A hybrid jumping and gliding robot. , 2011, , .		6
64	Steerable miniature jumping robot. Autonomous Robots, 2010, 28, 295-306.	4.8	128
65	A perching mechanism for micro aerial vehicles. Journal of Micro-Nano Mechatronics, 2009, 5, 77-91.	1.0	87
66	A miniature jumping robot with self-recovery capabilities. , 2009, , .		55
67	Towards a Self-Deploying and Gliding Robot. , 2009, , 271-284.		22
68	A miniature 7g jumping robot. , 2008, , .		200
69	A 1.5g SMA-actuated Microglider looking for the Light. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	19