Isiah Zaplana

List of Publications by Year
in descending order

20 papers	172 citations
1307594 7 h-index	1125743 13 g-index
21 all docs	21 docs citations
21 times ranked	115 citing authors

#	Article	IF	Citations
1	Design and Analysis of a Fully Actuated Cable-Driven Joint for Hyper-Redundant Robots With Optimal Cable Routing. Journal of Mechanisms and Robotics, 2022, 14, .	2.2	9
2	Forecasting global aluminium flows to demonstrate the need for improved sorting and recycling methods. Waste Management, 2022, 137, 231-240.	7.4	25
3	Techno-Economic Assessment of Robotic Sorting of Aluminium Scrap. Procedia CIRP, 2022, 105, 152-157.	1.9	8
4	Assessing the efficiency of Laser-Induced Breakdown Spectroscopy (LIBS) based sorting of post-consumer aluminium scrap. Procedia CIRP, 2022, 105, 278-283.	1.9	6
5	Design of a robotic system for battery dismantling from tablets. Procedia CIRP, 2022, 105, 273-277.	1.9	5
6	A comparative assessment of resource-use criticality in advanced lithium-ion battery technologies. Procedia CIRP, 2022, 105, 7-12.	1.9	4
7	Simultaneous mass estimation and class classification of scrap metals using deep learning. Resources, Conservation and Recycling, 2022, 181, 106272.	10.8	10
8	Closed-form solutions for the inverse kinematics of serial robots using conformal geometric algebra. Mechanism and Machine Theory, 2022, 173, 104835.	4.5	11
9	Singularities of Serial Robots: Identification and Distance Computation Using Geometric Algebra. Mathematics, 2022, 10, 2068.	2.2	3
10	Scalable six bar linkage mechanism for re-orienting and aligning objects: Design methodology. Procedia CIRP, 2021, 97, 66-70.	1.9	1
11	A novel strategy for balancing the workload of industrial lines based on a genetic algorithm. , 2020, , .		2
12	A novel closed-form solution for the inverse kinematics of redundant manipulators through workspace analysis. Mechanism and Machine Theory, 2018, 121, 829-843.	4.5	57
13	A Geometric Algebra Invitation to Space-Time Physics, Robotics and Molecular Geometry. SpringerBriefs in Mathematics, 2018, , .	0.3	18
14	Análisis Cinemático de Robots Manipuladores Redundantes: Aplicación a los Robots Kuka LWR 4+ y ABB Yumi. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2018, 15, 192.	1.0	8
15	Minkowski's Space-Time: Geometry and Physics. SpringerBriefs in Mathematics, 2018, , 53-73.	0.3	0
16	Low Dimensional Geometric Algebras. SpringerBriefs in Mathematics, 2018, , 1-32.	0.3	0
17	Conformal Geometric Algebra. SpringerBriefs in Mathematics, 2018, , 33-51.	0.3	0
18	Robot Kinematics. SpringerBriefs in Mathematics, 2018, , 75-100.	0.3	0

#	Article	IF	Citations
19	Molecular Geometry. SpringerBriefs in Mathematics, 2018, , 101-116.	0.3	0
20	Teleoperating a mobile manipulator and a free-flying camera from a single haptic device. , 2016, , .		4