## Giulio Rosati

List of Publications by Year in descending order

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CUULO ROSATI

#	Article	IF	CITATIONS
1	Metabolomics for personalized medicine: the input of analytical chemistry from biomarker discovery to point-of-care tests. Analytical and Bioanalytical Chemistry, 2022, 414, 759-789.	3.7	43
2	Label-free and reagentless electrochemical genosensor based on graphene acid for meat adulteration detection. Biosensors and Bioelectronics, 2022, 195, 113628.	10.1	25
3	A plug, print & play inkjet printing and impedance-based biosensing technology operating through a smartphone for clinical diagnostics. Biosensors and Bioelectronics, 2022, 196, 113737.	10.1	28
4	Optimizing Cycle Time of Industrial Robotic Tasks with Multiple Feasible Configurations at the Working Points. Robotics, 2022, 11, 16.	3.5	2
5	Point-of-Care Sensors in Clinical Environments: Potential and Challenges. , 2022, , .		1
6	Wearable and fully printed microfluidic nanosensor for sweat rate, conductivity, and copper detection with healthcare applications. Biosensors and Bioelectronics, 2022, 202, 114005.	10.1	29
7	Requirements and Solutions for Motion Limb Assistance of COVID-19 Patients. Robotics, 2022, 11, 45.	3.5	4
8	Vibration Energy Harvesting from Raindrops Impacts: Experimental Tests and Interpretative Models. Applied Sciences (Switzerland), 2022, 12, 3249.	2.5	3
9	Rehabilitation robotics after stroke: a bibliometric literature review. Expert Review of Medical Devices, 2022, 19, 405-421.	2.8	9
10	The Microbiome Meets Nanotechnology: Opportunities and Challenges in Developing New Diagnostic Devices. Advanced Materials, 2021, 33, e2006104.	21.0	24
11	Inkjet-printed fully customizable and low-cost electrodes matrix for gesture recognition. Scientific Reports, 2021, 11, 14938.	3.3	7
12	A dynamic model for the optimization of rotatory feeding devices. Mechanism and Machine Theory, 2021, 166, 104479.	4.5	3
13	Working Cycle Sequence Optimization for Industrial Robots. Mechanisms and Machine Science, 2021, , 228-236.	0.5	9
14	Design and Operation Improvements for CADEL Cable-Driven Elbow Assisting Device. Mechanisms and Machine Science, 2021, , 503-511.	0.5	3
15	Nanodiagnostics to Face SARS-CoV-2 and Future Pandemics: From an Idea to the Market and Beyond. ACS Nano, 2021, 15, 17137-17149.	14.6	32
16	Sales Kit Automated Production: An Integrated Procedure for Setup Reduction in Case of High Products Variety. Applied Sciences (Switzerland), 2021, 11, 10110.	2.5	1
17	The influence of the product characteristics on human-robot collaboration: a model for the performance of collaborative robotic assembly. International Journal of Advanced Manufacturing Technology, 2020, 106, 2317-2331.	3.0	34
18	Lateral flow assay modified with time-delay wax barriers as a sensitivity and signal enhancement strategy. Biosensors and Bioelectronics, 2020, 168, 112559.	10.1	43

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19	Effect of End-Effector Compliance on Collisions in Robotic Teleoperation. Applied Sciences (Switzerland), 2020, 10, 9077.	2.5	5
20	Design and Performance of an Elbow Assisting Mechanism. Machines, 2020, 8, 68.	2.2	19
21	Advances in Mechanical Systems Dynamics. Robotics, 2020, 9, 12.	3.5	2
22	Optimization of a Kitting Line: A Case Study. Robotics, 2019, 8, 70.	3.5	6
23	Haptic Stimulation for Improving Training of a Motor Imagery BCI Developed for a Hand-Exoskeleton in Rehabilitation. , 2019, 2019, 1127-1132.		5
24	Inkjet Printed Interdigitated Biosensor for Easy and Rapid Detection of Bacteriophage Contamination: a Preliminary Study for Milk Processing Control Applications. Chemosensors, 2019, 7, 8.	3.6	17
25	Trajectory Optimization of a Redundant Serial Robot Using Cartesian via Points and Kinematic Decoupling. Robotics, 2019, 8, 101.	3.5	25
26	Inkjet sensors produced by consumer printers with smartphone impedance readout. Sensing and Bio-Sensing Research, 2019, 26, 100308.	4.2	15
27	Human–Robot Collaboration in Manufacturing Applications: A Review. Robotics, 2019, 8, 100.	3.5	303
28	A simple and accessible inkjet platform for ultra-short concept-to-prototype sEMG electrodes production. , 2019, 2019, 5765-5768.		2
29	Collaborative and traditional robotic assembly: a comparison model. International Journal of Advanced Manufacturing Technology, 2019, 102, 1355-1372.	3.0	73
30	Silver nanoparticles inkjet-printed flexible biosensor for rapid label-free antibiotic detection in milk. Sensors and Actuators B: Chemical, 2019, 280, 280-289.	7.8	73
31	A Novel Collision Avoidance Method for Serial Robots. Mechanisms and Machine Science, 2019, , 293-301.	0.5	13
32	Vibratory Feeding of Cylindrical Parts: A Dynamic Model. Mechanisms and Machine Science, 2019, , 203-210.	0.5	0
33	Optimization of Cyclic Voltammetric Curve Parameters to Measure Lactate Concentration in Urine Samples. Lecture Notes in Electrical Engineering, 2018, , 103-110.	0.4	Ο
34	Lactate Dehydrogenase and Glutamate Pyruvate Transaminase biosensing strategies for lactate detection on screen-printed sensors. Catalysis efficiency and interference analysis in complex matrices: from cell cultures to sport medicine. Sensing and Bio-Sensing Research, 2018, 21, 54-64.	4.2	12
35	Optimizing Stiffness and Dexterity of Planar Adaptive Cable-Driven Parallel Robots. Journal of Mechanisms and Robotics, 2017, 9, .	2.2	52
36	Design and Optimal Control of an Underactuated Cable-Driven Micro–Macro Robot. IEEE Robotics and Automation Letters, 2017, 2, 896-903.	5.1	25

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37	Trajectory planning of a suspended cable driven parallel robot with reconfigurable end effector. Robotics and Computer-Integrated Manufacturing, 2017, 48, 1-11.	9.9	41
38	Development of a four-channel haptic system for remote assessment of patients with impaired hands. Robotica, 2017, 35, 1975-1991.	1.9	2
39	Improving performance of cable robots by adaptively changing minimum tension in cables. International Journal of Precision Engineering and Manufacturing, 2017, 18, 673-680.	2.2	3
40	Design and construction of a variable-aperture gripper for flexible automated assembly. Robotics and Computer-Integrated Manufacturing, 2017, 48, 157-166.	9.9	19
41	Culture Mediums and Buffer Effect on Screen-printed Carbon Electrodes for Continuous Voltammetric Monitoring of in vitro Cell Cultures Lactate Production. Procedia Technology, 2017, 27, 246-247.	1.1	3
42	Agility in assembly systems: a comparison model. Assembly Automation, 2017, 37, 411-421.	1.7	26
43	Functional Design of a Robotic Gripper forÂAdaptive Robotic Assembly. Mechanisms and Machine Science, 2017, , 257-265.	0.5	1
44	Optimized Trajectory Planning of Pick and Place Operations to Be Performed by Cable-Driven Parallel Robots. Mechanisms and Machine Science, 2017, , 287-295.	0.5	0
45	On the Use of Cable-Driven Robots in Early Inpatient Stroke Rehabilitation. Mechanisms and Machine Science, 2017, , 551-558.	0.5	10
46	Performance evaluation of a new design of cable-suspended camera system. , 2017, , .		4
47	Design and Construction of a Bilateral Haptic System for the Remote Assessment of the Stiffness and Range of Motion of the Hand. Sensors, 2016, 16, 1633.	3.8	6
48	Changes in muscle coordination patterns induced by exposure to a viscous force field. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 58.	4.6	11
49	Modeling of SAM Impedance Onto Gold and Silver Thin-Film Mass-Produced Electrodes and Their Use for Optimization of Lactic Acid Detection. IEEE Transactions on Nanobioscience, 2016, 15, 756-764.	3.3	6
50	Throughput maximization and buffer design of robotized flexible production systems with feeder renewals and priority rules. International Journal of Advanced Manufacturing Technology, 2016, 85, 891-907.	3.0	4
51	Validation of a Footwear-Based Gait Analysis System With Action-Related Feedback. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 971-980.	4.9	33
52	Implementation framework for a fully flexible assembly system (F-FAS). Assembly Automation, 2015, 35, 114-121.	1.7	9
53	Hybrid fexible assembly systems (H-FAS): bridging the gap between traditional and fully flexible assembly systems. International Journal of Advanced Manufacturing Technology, 2015, 81, 1289-1301.	3.0	23
54	Comparative study of two measurement/modeling techniques for biodevices functionalization assessment in agri-food applications. , 2015, , .		1

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55	First Experimental Testing of a Dynamic Minimum Tension Control (DMTC) for Cable Driven Parallel Robots. Mechanisms and Machine Science, 2015, , 239-248.	0.5	5
56	Robotic Upper Limb Rehabilitation after Acute Stroke by NeReBot: Evaluation of Treatment Costs. BioMed Research International, 2014, 2014, 1-5.	1.9	34
57	Effects of Kinesthetic and Cutaneous Stimulation During the Learning of a Viscous Force Field. IEEE Transactions on Haptics, 2014, 7, 251-263.	2.7	13
58	The value of robotic systems in stroke rehabilitation. Expert Review of Medical Devices, 2014, 11, 187-198.	2.8	115
59	Sophia-3: A Semiadaptive Cable-Driven Rehabilitation Device With a Tilting Working Plane. IEEE Transactions on Robotics, 2014, 30, 974-979.	10.3	70
60	Performance Improvement by Layout Designs of Conductive Polymer Microelectrode Based Impedimetric Biosensors. Electroanalysis, 2014, 26, 1400-1408.	2.9	14
61	Mixed-model sequencing optimization for an automated single-station fully flexible assembly system (F-FAS). International Journal of Advanced Manufacturing Technology, 2014, 70, 797-812.	3.0	20
62	Randomized Trial of a Robotic Assistive Device for the Upper Extremity During Early Inpatient Stroke Rehabilitation. Neurorehabilitation and Neural Repair, 2014, 28, 377-386.	2.9	92
63	Effects of Complementary Auditory Feedback in Robot-Assisted Lower Extremity Motor Adaptation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 775-786.	4.9	34
64	Fully flexible assembly systems (Fâ $\in$ FAS): a new concept in flexible automation. Assembly Automation, 2013, 33, 8-21.	1.7	62
65	A Higher-Order Method for Dynamic Optimization of Controllable Linear Time-Invariant Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	1
66	On the Role of Auditory Feedback in Robot-Assisted Movement Training after Stroke: Review of the Literature. Computational Intelligence and Neuroscience, 2013, 2013, 1-15.	1.7	54
67	Robotic Technologies and Rehabilitation: New Tools for Stroke Patients' Therapy. BioMed Research International, 2013, 2013, 1-8.	1.9	119
68	Modelling and optimization of fully flexible assembly systems (Fâ€FAS). Assembly Automation, 2013, 33, 165-174.	1.7	34
69	Cutaneous Force Feedback as a Sensory Subtraction Technique in Haptics. IEEE Transactions on Haptics, 2012, 5, 289-300.	2.7	144
70	Robot-assisted gait training with complementary auditory feedback: Results on short-term motor adaptation. , 2012, , .		1
71	Effect of task-related continuous auditory feedback during learning of tracking motion exercises. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 79.	4.6	38
72	Substituting auditory for visual feedback to adapt to altered dynamic and kinematic environments during reaching. Experimental Brain Research, 2012, 221, 33-41.	1.5	33

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73	Improving robotics for neurorehabilitation: Enhancing engagement, performance, and learning with auditory feedback. , 2011, 2011, 5975373.		16
74	A Higher-Order Method for Dynamic Optimization of Controllable LTI Systems. , 2011, , .		0
75	Effect of visual distraction and auditory feedback on patient effort during robot-assisted movement training after stroke. Journal of NeuroEngineering and Rehabilitation, 2011, 8, 21.	4.6	93
76	Modeling and Control of a 3-DOF pendulum-like manipulator. , 2011, , .		23
77	Convenience analysis and validation of a fully flexible assembly system. , 2011, , .		7
78	On the Design of Adaptive Cable-Driven Systems. Journal of Mechanisms and Robotics, 2011, 3, .	2.2	62
79	Flexible assembly system for heat exchanger coils. , 2011, , .		3
80	Upper-limb robot-assisted therapy in rehabilitation of acute stroke patients: Focused review and results of new randomized controlled trial. Journal of Rehabilitation Research and Development, 2011, 48, 355.	1.6	153
81	First Test Results of a Haptic Tele-Operation System to Enhance Stability of Telescopic Handlers. , 2010, , .		2
82	Performance Analysis of Planar Cable-Based Parallel Manipulators. , 2010, , .		7
83	Development of a haptic teleoperation system for remote motor and functional evaluation of hand in patients with neurological impairments. , 2010, , .		7
84	The place of robotics in post-stroke rehabilitation. Expert Review of Medical Devices, 2010, 7, 753-758.	2.8	39
85	Using a Fingertip Tactile Device to Substitute Kinesthetic Feedback in Haptic Interaction. Lecture Notes in Computer Science, 2010, , 125-130.	1.3	31
86	Design of a single-dof active hand orthosis for neurorehabilitation. , 2009, , .		14
87	Real-time defect detection on highly reflective curved surfaces. Optics and Lasers in Engineering, 2009, 47, 379-384.	3.8	57
88	On-line dimensional measurement of small components on the eyeglasses assembly line. Optics and Lasers in Engineering, 2009, 47, 320-328.	3.8	30
89	Design and control of two planar cable-driven robots for upper-limb neurorehabilitation. , 2009, , .		17
90	Using Sound feedback to counteract visual distractor during robot-assisted movement training. , 2009, , .		3

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91	Upper limb rehabilitation robotics after stroke: A perspective from the University of Padua, Italy. Journal of Rehabilitation Medicine, 2009, 41, 981-985.	1.1	45
92	Compliant Control of Post-Stroke Rehabilitation Robots: Using Movement-Specific Models to Improve Controller Performance. , 2008, , .		9
93	Planar Robotic Systems for Upper-Limb Post-Stroke Rehabilitation. , 2008, , .		17
94	Performance Assessment of a 3D Cable-Driven Haptic Device. , 2008, , .		6
95	A Novel Perspective in the Design of Cable-Driven Systems. , 2008, , .		6
96	A Haptic System to Enhance Stability of Heavy Duty Machines. , 2008, , .		1
97	First experimental results of an integrated robotic system for haptic teleoperation. , 2007, , .		1
98	Performance of cable suspended robots for upper limb rehabilitation. , 2007, , .		33
99	Robotic-Assisted Rehabilitation of the Upper Limb After Acute Stroke. Archives of Physical Medicine and Rehabilitation, 2007, 88, 142-149.	0.9	331
100	Rehabilitation robotics in Padua, Italy. , 2007, , .		3
101	Robot-Aided Upper Limb Rehabilitation in the Acute Phase. , 2007, , .		0
102	Design, Implementation and Clinical Tests of a Wire-Based Robot for Neurorehabilitation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2007, 15, 560-569.	4.9	210
103	Robotic therapy: a novel approach in upper-limb neurorehabilitation after stroke. Neurological Sciences, 2007, 28, 294-294.	1.9	2
104	Implementation of a Water Compensator for Total Body Irradiation. IEEE Transactions on Biomedical Engineering, 2005, 52, 1741-1747.	4.2	5
105	Wheeled Omni-Directional Robot Dynamics Including Slip. , 2002, , 201.		7
106	Dynamic model with slip for wheeled omnidirectional robots. IEEE Transactions on Automation Science and Engineering, 2002, 18, 285-293.	2.3	183
107	Manipulability of a planar wire driven haptic device. Mechanism and Machine Theory, 2002, 37, 215-228.	4.5	68
108	3-d.o.f. Wire Driven Planar Haptic Interface. Journal of Intelligent and Robotic Systems: Theory and Applications, 2001, 32, 23-36.	3.4	52

#	Article	IF	CITATIONS
109	Title is missing!. Journal of Dynamical and Control Systems, 2000, 10, 399-417.	0.4	1
110	Design of a New 5 d.o.f. Wire-Based Robot for Rehabilitation. , 0, , .		30
111	A haptic system for robotic assisted spine surgery. , 0, , .		8