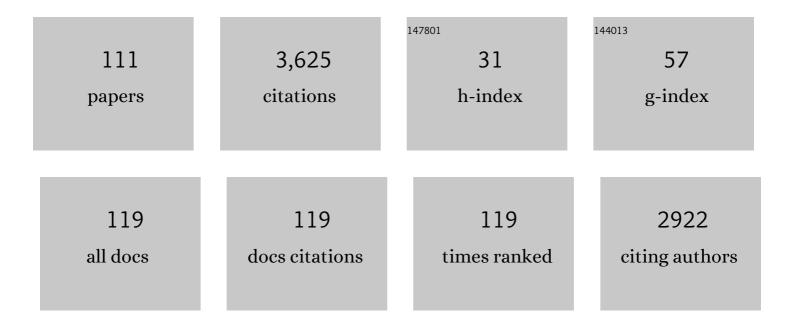
Giulio Rosati

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2503549/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Robotic-Assisted Rehabilitation of the Upper Limb After Acute Stroke. Archives of Physical Medicine and Rehabilitation, 2007, 88, 142-149. | 0.9 | 331 |
| 2 | Human–Robot Collaboration in Manufacturing Applications: A Review. Robotics, 2019, 8, 100. | 3.5 | 303 |
| 3 | 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 |
| 4 | Dynamic model with slip for wheeled omnidirectional robots. IEEE Transactions on Automation Science and Engineering, 2002, 18, 285-293. | 2.3 | 183 |
| 5 | 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 |
| 6 | Cutaneous Force Feedback as a Sensory Subtraction Technique in Haptics. IEEE Transactions on Haptics, 2012, 5, 289-300. | 2.7 | 144 |
| 7 | Robotic Technologies and Rehabilitation: New Tools for Stroke Patients' Therapy. BioMed Research International, 2013, 2013, 1-8. | 1.9 | 119 |
| 8 | The value of robotic systems in stroke rehabilitation. Expert Review of Medical Devices, 2014, 11, 187-198. | 2.8 | 115 |
| 9 | 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 |
| 10 | 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 |
| 11 | Collaborative and traditional robotic assembly: a comparison model. International Journal of Advanced Manufacturing Technology, 2019, 102, 1355-1372. | 3.0 | 73 |
| 12 | 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 |
| 13 | Sophia-3: A Semiadaptive Cable-Driven Rehabilitation Device With a Tilting Working Plane. IEEE Transactions on Robotics, 2014, 30, 974-979. | 10.3 | 70 |
| 14 | Manipulability of a planar wire driven haptic device. Mechanism and Machine Theory, 2002, 37, 215-228. | 4.5 | 68 |
| 15 | On the Design of Adaptive Cable-Driven Systems. Journal of Mechanisms and Robotics, 2011, 3, . | 2.2 | 62 |
| 16 | Fully flexible assembly systems (Fâ€FAS): a new concept in flexible automation. Assembly Automation, 2013, 33, 8-21. | 1.7 | 62 |
| 17 | Real-time defect detection on highly reflective curved surfaces. Optics and Lasers in Engineering, 2009, 47, 379-384. | 3.8 | 57 |
| 18 | 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 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | 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 |
| 20 | Optimizing Stiffness and Dexterity of Planar Adaptive Cable-Driven Parallel Robots. Journal of Mechanisms and Robotics, 2017, 9, . | 2.2 | 52 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | The place of robotics in post-stroke rehabilitation. Expert Review of Medical Devices, 2010, 7, 753-758. | 2.8 | 39 |
| 26 | Effect of task-related continuous auditory feedback during learning of tracking motion exercises. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 79. | 4.6 | 38 |
| 27 | 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 |
| 28 | Modelling and optimization of fully flexible assembly systems (Fâ€FAS). Assembly Automation, 2013, 33, 165-174. | 1.7 | 34 |
| 29 | Robotic Upper Limb Rehabilitation after Acute Stroke by NeReBot: Evaluation of Treatment Costs. BioMed Research International, 2014, 2014, 1-5. | 1.9 | 34 |
| 30 | 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 |
| 31 | Performance of cable suspended robots for upper limb rehabilitation. , 2007, , . | | 33 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | Using a Fingertip Tactile Device to Substitute Kinesthetic Feedback in Haptic Interaction. Lecture Notes in Computer Science, 2010, , 125-130. | 1.3 | 31 |
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36 Design of a New 5 d.o.f. Wire-Based Robot for Rehabilitation. , 0, , .

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 37 | On-line dimensional measurement of small components on the eyeglasses assembly line. Optics and Lasers in Engineering, 2009, 47, 320-328. | 3.8 | 30 |
| 38 | 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 |
| 39 | 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 |
| 40 | Agility in assembly systems: a comparison model. Assembly Automation, 2017, 37, 411-421. | 1.7 | 26 |
| 41 | Design and Optimal Control of an Underactuated Cable-Driven Micro–Macro Robot. IEEE Robotics and Automation Letters, 2017, 2, 896-903. | 5.1 | 25 |
| 42 | Trajectory Optimization of a Redundant Serial Robot Using Cartesian via Points and Kinematic Decoupling. Robotics, 2019, 8, 101. | 3.5 | 25 |
| 43 | Label-free and reagentless electrochemical genosensor based on graphene acid for meat adulteration detection. Biosensors and Bioelectronics, 2022, 195, 113628. | 10.1 | 25 |
| 44 | The Microbiome Meets Nanotechnology: Opportunities and Challenges in Developing New Diagnostic Devices. Advanced Materials, 2021, 33, e2006104. | 21.0 | 24 |
| 45 | Modeling and Control of a 3-DOF pendulum-like manipulator. , 2011, , . | | 23 |
| 46 | 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 |
| 47 | 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 |
| 48 | Design and construction of a variable-aperture gripper for flexible automated assembly. Robotics and Computer-Integrated Manufacturing, 2017, 48, 157-166. | 9.9 | 19 |
| 49 | Design and Performance of an Elbow Assisting Mechanism. Machines, 2020, 8, 68. | 2.2 | 19 |
| 50 | Planar Robotic Systems for Upper-Limb Post-Stroke Rehabilitation. , 2008, , . | | 17 |
| 51 | Design and control of two planar cable-driven robots for upper-limb neurorehabilitation. , 2009, , . | | 17 |
| 52 | 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 |
| 53 | Improving robotics for neurorehabilitation: Enhancing engagement, performance, and learning with auditory feedback. , 2011, 2011, 5975373. | | 16 |
| 54 | Inkjet sensors produced by consumer printers with smartphone impedance readout. Sensing and Bio-Sensing Research, 2019, 26, 100308. | 4.2 | 15 |

| # | Article | IF | CITATIONS |
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| 55 | Design of a single-dof active hand orthosis for neurorehabilitation. , 2009, , . | | 14 |
| 56 | Performance Improvement by Layout Designs of Conductive Polymer Microelectrode Based Impedimetric Biosensors. Electroanalysis, 2014, 26, 1400-1408. | 2.9 | 14 |
| 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 | A Novel Collision Avoidance Method for Serial Robots. Mechanisms and Machine Science, 2019, , 293-301. | 0.5 | 13 |
| 59 | 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 |
| 60 | Changes in muscle coordination patterns induced by exposure to a viscous force field. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 58. | 4.6 | 11 |
| 61 | On the Use of Cable-Driven Robots in Early Inpatient Stroke Rehabilitation. Mechanisms and Machine Science, 2017, , 551-558. | 0.5 | 10 |
| 62 | Compliant Control of Post-Stroke Rehabilitation Robots: Using Movement-Specific Models to Improve Controller Performance. , 2008, , . | | 9 |
| 63 | Implementation framework for a fully flexible assembly system (F-FAS). Assembly Automation, 2015, 35, 114-121. | 1.7 | 9 |
| 64 | Working Cycle Sequence Optimization for Industrial Robots. Mechanisms and Machine Science, 2021, , 228-236. | 0.5 | 9 |
| 65 | Rehabilitation robotics after stroke: a bibliometric literature review. Expert Review of Medical Devices, 2022, 19, 405-421. | 2.8 | 9 |
| 66 | A haptic system for robotic assisted spine surgery. , 0, , . | | 8 |
| 67 | Wheeled Omni-Directional Robot Dynamics Including Slip. , 2002, , 201. | | 7 |
| 68 | Performance Analysis of Planar Cable-Based Parallel Manipulators. , 2010, , . | | 7 |
| 69 | Development of a haptic teleoperation system for remote motor and functional evaluation of hand in patients with neurological impairments. , 2010, , . | | 7 |
| 70 | Convenience analysis and validation of a fully flexible assembly system. , 2011, , . | | 7 |
| 71 | Inkjet-printed fully customizable and low-cost electrodes matrix for gesture recognition. Scientific Reports, 2021, 11, 14938. | 3.3 | 7 |
| 72 | Performance Assessment of a 3D Cable-Driven Haptic Device. , 2008, , . | | 6 |

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| 73 | A Novel Perspective in the Design of Cable-Driven Systems. , 2008, , . | | 6 |
| 74 | 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 |
| 75 | 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 |
| 76 | Optimization of a Kitting Line: A Case Study. Robotics, 2019, 8, 70. | 3.5 | 6 |
| 77 | Implementation of a Water Compensator for Total Body Irradiation. IEEE Transactions on Biomedical Engineering, 2005, 52, 1741-1747. | 4.2 | 5 |
| 78 | Haptic Stimulation for Improving Training of a Motor Imagery BCI Developed for a Hand-Exoskeleton in Rehabilitation. , 2019, 2019, 1127-1132. | | 5 |
| 79 | Effect of End-Effector Compliance on Collisions in Robotic Teleoperation. Applied Sciences (Switzerland), 2020, 10, 9077. | 2.5 | 5 |
| 80 | 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 |
| 81 | 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 |
| 82 | Performance evaluation of a new design of cable-suspended camera system. , 2017, , . | | 4 |
| 83 | Requirements and Solutions for Motion Limb Assistance of COVID-19 Patients. Robotics, 2022, 11, 45. | 3.5 | 4 |
| 84 | Rehabilitation robotics in Padua, Italy. , 2007, , . | | 3 |
| 85 | Using Sound feedback to counteract visual distractor during robot-assisted movement training. , 2009, , . | | 3 |
| 86 | Flexible assembly system for heat exchanger coils. , 2011, , . | | 3 |
| 87 | 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 |
| 88 | 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 |
| 89 | A dynamic model for the optimization of rotatory feeding devices. Mechanism and Machine Theory, 2021, 166, 104479. | 4.5 | 3 |
| 90 | Design and Operation Improvements for CADEL Cable-Driven Elbow Assisting Device. Mechanisms and Machine Science, 2021, , 503-511. | 0.5 | 3 |

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| 91 | Vibration Energy Harvesting from Raindrops Impacts: Experimental Tests and Interpretative Models. Applied Sciences (Switzerland), 2022, 12, 3249. | 2.5 | 3 |
| 92 | Robotic therapy: a novel approach in upper-limb neurorehabilitation after stroke. Neurological Sciences, 2007, 28, 294-294. | 1.9 | 2 |
| 93 | First Test Results of a Haptic Tele-Operation System to Enhance Stability of Telescopic Handlers. , 2010, , . | | 2 |
| 94 | Development of a four-channel haptic system for remote assessment of patients with impaired hands. Robotica, 2017, 35, 1975-1991. | 1.9 | 2 |
| 95 | A simple and accessible inkjet platform for ultra-short concept-to-prototype sEMG electrodes production. , 2019, 2019, 5765-5768. | | 2 |
| 96 | Advances in Mechanical Systems Dynamics. Robotics, 2020, 9, 12. | 3.5 | 2 |
| 97 | Optimizing Cycle Time of Industrial Robotic Tasks with Multiple Feasible Configurations at the Working Points. Robotics, 2022, 11, 16. | 3.5 | 2 |
| 98 | Title is missing!. Journal of Dynamical and Control Systems, 2000, 10, 399-417. | 0.4 | 1 |
| 99 | First experimental results of an integrated robotic system for haptic teleoperation. , 2007, , . | | 1 |
| 100 | A Haptic System to Enhance Stability of Heavy Duty Machines. , 2008, , . | | 1 |
| 101 | Robot-assisted gait training with complementary auditory feedback: Results on short-term motor adaptation. , 2012, , . | | 1 |
| 102 | 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 |
| 103 | Comparative study of two measurement/modeling techniques for biodevices functionalization assessment in agri-food applications. , 2015, , . | | 1 |
| 104 | Functional Design of a Robotic Gripper forÂAdaptive Robotic Assembly. Mechanisms and Machine Science, 2017, , 257-265. | 0.5 | 1 |
| 105 | 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 |
| 106 | Point-of-Care Sensors in Clinical Environments: Potential and Challenges. , 2022, , . | | 1 |
| 107 | Robot-Aided Upper Limb Rehabilitation in the Acute Phase. , 2007, , . | | 0 |
| 108 | A Higher-Order Method for Dynamic Optimization of Controllable LTI Systems. , 2011, , . | | 0 |

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| 109 | 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 |
| 110 | Optimization of Cyclic Voltammetric Curve Parameters to Measure Lactate Concentration in Urine Samples. Lecture Notes in Electrical Engineering, 2018, , 103-110. | 0.4 | 0 |
| 111 | Vibratory Feeding of Cylindrical Parts: A Dynamic Model. Mechanisms and Machine Science, 2019, , 203-210. | 0.5 | Ο |