# Victor Petuya

## List of Publications by Year in descending order

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| 68 | 525 | 687363 13 | 713466 21 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 74 | 74 | 74 | 313 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Design and analysis of an active 2-DOF lockable joint. Mechanics Based Design of Structures and Machines, 2022, 50, 2736-2759. | 4.7 | 6 |
| 2 | Numerical Approaches for Loads and Motions Assessment of Floating WECs Moored by Means of Catenary Mooring Systems. Mechanisms and Machine Science, 2022, , 59-69. | 0.5 | 0 |
| 3 | Requirements and Solutions for Motion Limb Assistance of COVID-19 Patients. Robotics, 2022, 11, 45. | 3.5 | 4 |
| 4 | Design and Testing of Two Haptic Devices Based on Reconfigurable 2R Joints. Applied Sciences (Switzerland), 2022, 12, 339. | 2.5 | 1 |
| 5 | Frequency domain modelling of a coupled system of floating structure and mooring Lines: An application to a wave energy converter. Ocean Engineering, 2021, 220, 108498. | 4.3 | 8 |
| 6 | Improving Skills in Mechanism and Machine Science Using GIM Software. Applied Sciences (Switzerland), 2021, 11, 7850. | 2.5 | 6 |
| 7 | Path Analysis for Hybrid Rigidâ€“Flexible Mechanisms. Mathematics, 2021, 9, 1869. | 2.2 | 3 |
| 8 | Quasi-Static Analysis of a Tapered Extendable Arm Inspired by an Origami with Modified Folding Diagram. Mechanisms and Machine Science, 2021, , 652-658. | 0.5 | 0 |
| 9 | A Comparison of Numerical Approaches for the Design of Mooring Systems for Wave Energy Converters. Journal of Marine Science and Engineering, 2020, 8, 523. | 2.6 | 16 |
| 10 | Small scale experimental validation of a numerical model of the HarshLab2.0 floating platform coupled with a non-linear lumped mass catenary mooring system. Ocean Engineering, 2020, 200, 107036. | 4.3 | 13 |
| 11 | Designing a Translational Parallel Manipulator Based on the 3SS Kinematic Joint. Journal of Mechanisms and Robotics, 2019, 11, . | 2.2 | 0 |
| 12 | A methodology to achieve the set of operation modes of reconfigurable parallel manipulators. Meccanica, 2019, 54, 2507-2520. | 2.0 | 7 |
| 13 | A Robot for Welding Inspection in Offshore Mooring Chains. Mechanisms and Machine Science, 2019, , 406-412. | 0.5 | 0 |
| 14 | Design of an active reconfigurable 2R joint. Mechanisms and Machine Science, 2019, , 1423-1429. | 0.5 | 2 |
| 15 | Mooring System Design Approach: A Case Study for MARMOK-A Floating OWC Wave Energy Converter. , 2018, , . | | 2 |
| 16 | A robot for non-destructive testing weld inspection of offshore mooring chains. International Journal of Advanced Robotic Systems, 2018, 15, 172988141877053. | 2.1 | 2 |
| 17 | Pa<sup>2</sup> kinematic bond in translational parallel manipulators. Mechanical Sciences, 2018, 9, 25-39. | 1.0 | 2 |
| 18 | Parallel Manipulators: Practical Applications and Kinematic Design Criteria. Towards the Modular Reconfigurable Robots. Mechanisms and Machine Science, 2018, , 131-140. | 0.5 | 3 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | A proposal for a formula of absolute pole velocities between relative poles. Mechanism and Machine Theory, 2017, 114, 74-84. | 4.5 | 2 |
| 20 | Control distribution of partially decoupled multi-level manipulators with five DOFs. Robotica, 2017, 35, 337-353. | 1.9 | 1 |
| 21 | Multioperation capacity of parallel manipulators basing on generic kinematic chain approach. Mechanism and Machine Theory, 2017, 116, 234-247. | 4.5 | 2 |
| 22 | Non-singular transitions based design methodology for parallel manipulators. Mechanism and Machine Theory, 2015, 91, 168-186. | 4.5 | 12 |
| 23 | Design of a solar tracking parallel mechanism with low energy consumption. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 566-579. | 2.1 | 19 |
| 24 | Educational and Research Kinematic Capabilities of GIM Software. Mechanisms and Machine Science, 2015, , 11-19. | 0.5 | 2 |
| 25 | Side Chain Kinematics Simulation on Protein Conformational Changes. Mechanisms and Machine Science, 2015, , 121-132. | 0.5 | 0 |
| 26 | General Purpose Software to Solve the Inverse Dynamics and Compute the Internal Efforts of Non-redundant Planar Mechanisms. Mechanisms and Machine Science, 2015, , 365-375. | 0.5 | 0 |
| 27 | Axis Cross-Coupling Reduction on a High Bandwidth XY Flexure Stage. Mechanisms and Machine Science, 2015, , 61-71. | 0.5 | 0 |
| 28 | ESTADO DE LA TÃ‰CNICA DE LOS MANIPULADORES PARALELOS. APLICACIONES PRÃCTICAS Y CRITERIOS CINEMÃTICOS DE DISEÃ‘O. Dyna (Spain), 2015, 90, 144-152. | 0.2 | 1 |
| 29 | Protein Motion Simulation Algorithm for Dihedral Angle Rotation Implementing Variable Speed. Mechanics Based Design of Structures and Machines, 2014, 42, 268-277. | 4.7 | 0 |
| 30 | Educational software tools for the kinematic analysis of mechanisms. Computer Applications in Engineering Education, 2014, 22, 72-86. | 3.4 | 47 |
| 31 | Characterizing the configuration space of the 3-SPS-S spatial orientation parallel manipulator. Meccanica, 2014, 49, 1101-1114. | 2.0 | 8 |
| 32 | Insights into mechanism kinematics for protein motion simulation. BMC Bioinformatics, 2014, 15, 184. | 2.6 | 11 |
| 33 | Structural Synthesis of 3-DoF Spatial Fully Parallel Manipulators. International Journal of Advanced Robotic Systems, 2014, 11, 101. | 2.1 | 6 |
| 34 | Dimensional Synthesis of a Spatial Orientation 3-DoF Parallel Manipulator by Characterizing the Configuration Space. Mechanisms and Machine Science, 2014, , 85-92. | 0.5 | 0 |
| 35 | Using the ThinkMOTION Project Resources for the Teaching of Mechanism and Machine Theory. Mechanisms and Machine Science, 2014, , 229-237. | 0.5 | 0 |
| 36 | Computation of the protein molecular mechanism using adaptive dihedral angle increments. Frontiers of Mechanical Engineering, 2013, 8, 104-108. | 4.3 | 0 |

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|---|---|---|---|
| 37 | Biokinematic protein simulation by an adaptive dihedral angle approach. Mechanism and Machine Theory, 2013, 69, 105-114. | 4.5 | 1 |
| 38 | Computation of the Protein Molecular Mechanism Using Adaptive Dihedral Angle Increments. Mechanisms and Machine Science, 2013, , 105-112. | 0.5 | 0 |
| 39 | Restoration and Digital Display of Max Kohl Mechanisms in the Engineering School of USAL. Mechanisms and Machine Science, 2013, , 731-740. | 0.5 | 0 |
| 40 | Planning Nonsingular Transitions Between Solutions of the Direct Kinematic Problem From the Joint Space. Journal of Mechanisms and Robotics, 2012, 4, . | 2.2 | 5 |
| 41 | Designing parallel manipulators: from specifications to a real prototype. Industrial Robot, 2012, 39, 500-512. | 2.1 | 12 |
| 42 | Assembly Mode Changing in the Cuspidal Analytic 3-R $underline{hbox{P}}$R. IEEE Transactions on Robotics, 2012, 28, 506-513. | 10.3 | 15 |
| 43 | Kinematics Study of Protein Chains and Protein Motion Simulation. Mechanisms and Machine Science, 2012, , 85-99. | 0.5 | 0 |
| 44 | Protein Folding Pathways Implementing Dihedral Angle Variable Speed. , 2012, , 277-284. | | 0 |
| 45 | A biokinematic approach for the computational simulation of proteins molecular mechanism. Mechanism and Machine Theory, 2011, 46, 1854-1868. | 4.5 | 13 |
| 46 | Design procedure for cuspidal parallel manipulators. Mechanism and Machine Theory, 2011, 46, 97-111. | 4.5 | 4 |
| 47 | A symmetric parallel SchÃ¶nflies-motion manipulator for pick-and-place operations. Robotica, 2011, 29, 853-862. | 1.9 | 46 |
| 48 | Computing the Configuration Space for Tracing Paths Between Assembly Modes. Journal of Mechanisms and Robotics, 2010, 2, . | 2.2 | 4 |
| 49 | Synthesis of partially decoupled multi-level manipulators with lower mobility. Mechanism and Machine Theory, 2010, 45, 106-118. | 4.5 | 15 |
| 50 | Researching into Non-Singular Transitions in the Joint Space. , 2010, , 45-52. | | 5 |
| 51 | Protein Kinematic Motion Simulation Including Potential Energy Feedback. , 2010, , 83-90. | | 2 |
| 52 | Analysis of the Direct Kinematic Problem in 3-DOF Parallel Manipulators. , 2010, , 445-456. | | 1 |
| 53 | Structural Dynamic Analysis of Low-Mobility Parallel Manipulators. , 2010, , 387-394. | | 1 |
| 54 | Defining Conditions for Nonsingular Transitions Between Assembly Modes. IEEE Transactions on Robotics, 2009, 25, 1438-1447. | 10.3 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Considering the Ability for Nonsingular Transitions of Assembly Mode for Dimensional Synthesis. , 2009, , . | | 0 |
| 56 | Computing the Configuration Space for Motion Planning between Assembly Modes. , 2009, , 35-42. | | 2 |
| 57 | A Kinematic Approach to Calculate Protein Motion Paths. , 2009, , 69-76. | | 1 |
| 58 | A numerical procedure to solve non-linear kinematic problems in spatial mechanisms. International Journal for Numerical Methods in Engineering, 2008, 73, 825-843. | 2.8 | 9 |
| 59 | Computational kinematics for robotic manipulators: Jacobian problems. Engineering Computations, 2008, 25, 4-27. | 1.4 | 9 |
| 60 | A New General-Purpose Method to Solve the Forward Position Problem in Parallel Manipulators. Advanced Robotics, 2008, 22, 395-409. | 1.8 | 7 |
| 61 | Synthesis and Design of a Novel 3T1R Fully-Parallel Manipulator. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, . | 2.9 | 58 |
| 62 | Point-based Jacobian formulation for computational kinematics of manipulators. Mechanism and Machine Theory, 2006, 41, 1407-1423. | 4.5 | 40 |
| 63 | Motion pattern singularity in lower mobility parallel manipulators. , 2006, , 489-496. | | 1 |
| 64 | Position analysis of planar mechanisms with R-pairs using a geometricalâ€“iterative method. Mechanism and Machine Theory, 2004, 39, 133-152. | 4.5 | 16 |
| 65 | Kinematic analysis of mechanisms via a velocity equation based in a geometric matrix. Mechanism and Machine Theory, 2003, 38, 1413-1429. | 4.5 | 27 |
| 66 | A method for the solution of the forward position problems of planar mechanisms with prismatic and revolute joints. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2001, 216, 395-407. | 2.1 | 4 |
| 67 | Resolution of the Direct Position Problem of Parallel Kinematic Platforms Using the Geometrical-Iterative Method. , 0, , . | | 3 |
| 68 | Three Error Estimators for Non-Linear Structural Problems. , 0, , . | | 1 |