

Antnio M Lopes

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

188
papers

2,697
citations

28
h-index

43
g-index

221
ext. papers

3,356
ext. citations

3
avg, IF

6.08
L-index

#	Paper	IF	Citations
188	State-of-Charge Estimation of Lithium-Ion Batteries Based on Fractional-Order Square-Root Unscented Kalman Filter. <i>Fractal and Fractional</i> , 2022 , 6, 52	3	1
187	Fractional-order shifted Legendre collocation method for solving non-linear variable-order fractional Fredholm integro-differential equations. <i>Computational and Applied Mathematics</i> , 2022 , 41, 1	2.4	0
186	Development of a Split Hopkinson Pressure Bar Machine for High Strain Rate Testing of Bonded Joints. <i>Journal of Testing and Evaluation</i> , 2022 , 50, 20200677	1	1
185	How Many Fractional Derivatives Are There?. <i>Mathematics</i> , 2022 , 10, 737	2.3	7
184	Nonlinear Differential Equations with Distributed Delay: Some New Oscillatory Solutions. <i>Mathematics</i> , 2022 , 10, 995	2.3	5
183	Multidimensional scaling and visualization of patterns in global large-scale accidents. <i>Chaos, Solitons and Fractals</i> , 2022 , 157, 111951	9.3	1
182	Shifted Fractional-Order Jacobi Collocation Method for Solving Variable-Order Fractional Integro-Differential Equation with Weakly Singular Kernel. <i>Fractal and Fractional</i> , 2022 , 6, 19	3	2
181	Adaptive state-of-charge estimation of lithium-ion batteries based on square-root unscented Kalman filter. <i>Energy</i> , 2022 , 123972	7.9	0
180	Synchronization of Incommensurate Fractional-Order Chaotic Systems Based on Linear Feedback Control. <i>Fractal and Fractional</i> , 2022 , 6, 221	3	2
179	Revisiting the Formula for the Ramanujan Constant of a Series. <i>Mathematics</i> , 2022 , 10, 1539	2.3	0
178	Stability and stabilization of fractional-order uncertain nonlinear systems with multi-order. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022 , 1-1	3.5	0
177	Development of a Drop Weight Machine for Adhesive Joint Testing. <i>Journal of Testing and Evaluation</i> , 2021 , 49, 20190147	1	5
176	Fractional-Order Sensing and Control: Embedding the Nonlinear Dynamics of Robot Manipulators into the Multidimensional Scaling Method. <i>Sensors</i> , 2021 , 21,	3.8	2
175	Overview in Summabilities: Summation Methods for Divergent Series, Ramanujan Summation and Fractional Finite Sums. <i>Mathematics</i> , 2021 , 9, 2963	2.3	1
174	Dynamical Analysis of the Dow Jones Index Using Dimensionality Reduction and Visualization. <i>Entropy</i> , 2021 , 23,	2.8	2
173	Entropy analysis of human death uncertainty. <i>Nonlinear Dynamics</i> , 2021 , 104, 1-15	5	0
172	Uniform Manifold Approximation and Projection Analysis of Soccer Players. <i>Entropy</i> , 2021 , 23,	2.8	2

171	Assessing the Effect of Laboratory Activities on Core Curricular Units of an Engineering Master's Program: A Multivariate Analysis. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-13	1.1	1
170	Multidimensional scaling analysis of generalized mean discrete-time fractional order controllers. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 95, 105657	3.7	5
169	Spontaneous activation under atrial fibrosis: A model using complex order derivatives. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 95, 105618	3.7	3
168	Modeling and visualizing competitiveness in soccer leagues. <i>Applied Mathematical Modelling</i> , 2021 , 92, 136-148	4.5	1
167	State of Charge Estimation of Lithium-Ion Batteries Based on Fuzzy Fractional-Order Unscented Kalman Filter. <i>Fractal and Fractional</i> , 2021 , 5, 91	3	4
166	Guaranteed Cost Leaderless Consensus Protocol Design for Fractional-Order Uncertain Multi-Agent Systems with State and Input Delays. <i>Fractal and Fractional</i> , 2021 , 5, 141	3	3
165	A Review of Fractional Order Entropies. <i>Entropy</i> , 2020 , 22,	2.8	9
164	A variable-order fractional proportional-integral controller and its application to a permanent magnet synchronous motor. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 3247-3254	6.1	5
163	Fractional-order modelling of epoxy resin. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190292	3	8
162	Rare and extreme events: the case of COVID-19 pandemic. <i>Nonlinear Dynamics</i> , 2020 , 100, 1-20	5	33
161	A COMPLEX ORDER MODEL OF ATRIAL ELECTRICAL PROPAGATION FROM FRACTAL POROUS CELL MEMBRANE. <i>Fractals</i> , 2020 , 28, 2050106	3.2	6
160	Shifted fractional Jacobi collocation method for solving fractional functional differential equations of variable order. <i>Chaos, Solitons and Fractals</i> , 2020 , 134, 109721	9.3	17
159	Fractional Dynamics in Soccer Leagues. <i>Symmetry</i> , 2020 , 12, 356	2.7	3
158	A novel color image encryption algorithm based on a fractional-order discrete chaotic neural network and DNA sequence operations. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2020 , 21, 866-879	2.2	24
157	Fractional Dynamics and Pseudo-Phase Space of Country Economic Processes. <i>Mathematics</i> , 2020 , 8, 81	2.3	5
156	Highly accurate technique for solving distributed-order time-fractional-sub-diffusion equations of fourth order. <i>Computational and Applied Mathematics</i> , 2020 , 39, 1	2.4	4
155	Multidimensional scaling locus of memristor and fractional order elements. <i>Journal of Advanced Research</i> , 2020 , 25, 147-157	13	16
154	Multidimensional scaling and visualization of patterns in prime numbers. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 83, 105128	3.7	14

153	Time-fractional dependence of the shear force in some beam type problems with negative Young modulus. <i>Applied Mathematical Modelling</i> , 2020 , 80, 668-682	4.5	5
152	Improved Decentralized Fractional PD Control of Structure Vibrations. <i>Mathematics</i> , 2020 , 8, 326	2.3	16
151	Output-feedback-guaranteed cost control of fractional-order uncertain linear delayed systems. <i>Computational and Applied Mathematics</i> , 2020 , 39, 1	2.4	7
150	Analysis of a rectangular prism n-units RLC fractional-order circuit network. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 3091-3104	6.1	3
149	Variable coefficient fractional-order PID controller and its application to a SEPIC device. <i>IET Control Theory and Applications</i> , 2020 , 14, 900-908	2.5	8
148	Computer Analysis of Human Belligerency. <i>Mathematics</i> , 2020 , 8, 1201	2.3	1
147	Sufficient conditions for existence and uniqueness of fractional stochastic delay differential equations. <i>Stochastics</i> , 2020 , 92, 379-396	0.6	12
146	A computational approach for the non-smooth solution of non-linear weakly singular Volterra integral equation with proportional delay. <i>Numerical Algorithms</i> , 2020 , 83, 987-1006	2.1	9
145	Fractional-order kinematic analysis of biomechanical inspired manipulators. <i>JVC/Journal of Vibration and Control</i> , 2020 , 26, 102-111	2	0
144	Electrochemical impedance spectroscopy characterization of beverages. <i>Food Chemistry</i> , 2020 , 302, 1253-1265	3.5	10
143	Numerical assessment of strain rate in an adhesive layer throughout double cantilever beam and end notch flexure tests. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2020 , 234, 415-425	1.5	5
142	A computational perspective of the periodic table of elements. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 78, 104883	3.7	4
141	Computational scheme for solving nonlinear fractional stochastic differential equations with delay. <i>Stochastic Analysis and Applications</i> , 2019 , 37, 893-908	1.1	22
140	The Lorentz transformations and one observation in the perspective of fractional calculus. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 78, 104855	3.7	2
139	Fractional Rényi entropy?. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	11
138	Numerical solution of mixed-type fractional functional differential equations using modified Lucas polynomials. <i>Computational and Applied Mathematics</i> , 2019 , 38, 1	2.4	18
137	Ranking the scientific output of researchers in fractional calculus. <i>Fractional Calculus and Applied Analysis</i> , 2019 , 22, 11-26	2.7	6
136	Shifted fractional Jacobi spectral algorithm for solving distributed order time-fractional reaction-diffusion equations. <i>Computational and Applied Mathematics</i> , 2019 , 38, 1	2.4	12

135	Entropy Analysis of Soccer Dynamics. <i>Entropy</i> , 2019 , 21,	2.8	16
134	A fractional perspective to the modelling of Lisbon's public transportation network. <i>Transportation</i> , 2019 , 46, 1893-1913	4	5
133	Complexity Analysis of Escher's Art. <i>Entropy</i> , 2019 , 21,	2.8	1
132	On the Complexity Analysis and Visualization of Musical Information. <i>Entropy</i> , 2019 , 21,	2.8	3
131	Delay-dependent criterion for asymptotic stability of a class of fractional-order memristive neural networks with time-varying delays. <i>Neural Networks</i> , 2019 , 118, 289-299	9.1	37
130	On the Numerical Computation of the Mittag-Leffler Function. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2019 , 20, 725-736	1.8	6
129	On Fractional-Order Characteristics of Vegetable Tissues and Edible Drinks. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019 , 19-35	0.2	1
128	Continuous-time fractional linear systems: steady-state responses 2019 , 149-174		3
127	Artistic painting: A fractional calculus perspective. <i>Applied Mathematical Modelling</i> , 2019 , 65, 614-626	4.5	17
126	Fractional-order modeling of a diode. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 70, 343-353	3.7	21
125	Shifted Jacobi-Gauss-collocation with convergence analysis for fractional integro-differential equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 72, 342-359	3.7	30
124	Computational Comparison and Visualization of Viruses in the Perspective of Clinical Information. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2019 , 11, 86-94	3.5	3
123	Towards fractional sensors. <i>JVC/Journal of Vibration and Control</i> , 2019 , 25, 52-60	2	6
122	On spectral methods for solving variable-order fractional integro-differential equations. <i>Computational and Applied Mathematics</i> , 2018 , 37, 3937-3950		14
121	Milk Characterization Using Electrical Impedance Spectroscopy and Fractional Models. <i>Food Analytical Methods</i> , 2018 , 11, 901-912	3.4	20
120	Stabilization of Uncertain Multi-Order Fractional Systems Based on the Extended State Observer. <i>Asian Journal of Control</i> , 2018 , 20, 1263-1273	1.7	17
119	Complexity Analysis of Global Temperature Time Series. <i>Entropy</i> , 2018 , 20,	2.8	6
118	How Hydrogen Dielectric Strength Forces the Work Voltage in the Electric Discharge Machining. <i>Micromachines</i> , 2018 , 9,	3.3	6

117	A space-time spectral approximation for solving nonlinear variable-order fractional sine and Klein-Gordon differential equations. <i>Computational and Applied Mathematics</i> , 2018 , 37, 6212-6229		11
116	Robust asymptotic stability of interval fractional-order nonlinear systems with time-delay. <i>Journal of the Franklin Institute</i> , 2018 , 355, 7749-7763	4	19
115	Dynamical analysis of the global business-cycle synchronization. <i>PLoS ONE</i> , 2018 , 13, e0191491	3.7	4
114	Fractional-Order Model of Wine. <i>Understanding Complex Systems</i> , 2018 , 191-203	0.4	2
113	Discrete-time generalized mean fractional order controllers. <i>IFAC-PapersOnLine</i> , 2018 , 51, 43-47	0.7	4
112	Atrial Rotor Dynamics Under Complex Fractional Order Diffusion. <i>Frontiers in Physiology</i> , 2018 , 9, 975	4.6	10
111	Dynamics of the N-link pendulum: a fractional perspective. <i>International Journal of Control</i> , 2017 , 90, 1192-1200	1.5	2
110	Multidimensional scaling analysis of soccer dynamics. <i>Applied Mathematical Modelling</i> , 2017 , 45, 642-652	4.5	14
109	Computational Analysis of the U.S. Forest Fires. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017 , 12,	1.4	2
108	The role of fractional calculus in modeling biological phenomena: A review. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 51, 141-159	3.7	290
107	Fractional-Order Devices. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 ,	0.4	27
106	On the computation of the multidimensional Mittag-Leffler function. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 53, 278-287	3.7	4
105	Computational comparison and pattern visualization of forest fires. <i>Chaos, Solitons and Fractals</i> , 2017 , 102, 407-413	9.3	
104	On the mathematical modeling of soccer dynamics. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 53, 142-153	3.7	7
103	A fractional perspective on the trajectory control of redundant and hyper-redundant robot manipulators. <i>Applied Mathematical Modelling</i> , 2017 , 46, 716-726	4.5	19
102	Introduction to Fractional-Order Elements and Devices. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 , 1-20	0.4	2
101	Devices. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 , 21-53	0.4	2
100	Demonstrations and Applications of Fractional-Order Devices. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 , 55-72	0.4	

99	Fractional-Order Models of Vegetable Tissues. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017 , 73-92	0.4	2
98	Jacobi Collocation Approximation for Solving Multi-dimensional Volterra Integral Equations. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2017 , 18, 411-425	1.8	21
97	Dynamics of Commodities Prices: Integer and Fractional Models. <i>Fundamenta Informaticae</i> , 2017 , 151, 389-408	1	10
96	Analysis and implementation of a force control strategy for drilling operations with an industrial robot. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017 , 39, 4749-4756	2	7
95	Tidal Analysis Using Time-Frequency Signal Processing and Information Clustering. <i>Entropy</i> , 2017 , 19, 390	2.8	3
94	Design of fractional-order hyper-chaotic multi-scroll systems based on hysteresis series. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 3775-3789	2.3	7
93	Temperature time series: Pattern analysis and forecasting 2017 ,		2
92	Generation of a family of fractional order hyper-chaotic multi-scroll attractors. <i>Chaos, Solitons and Fractals</i> , 2017 , 105, 244-255	9.3	19
91	Approximation of data using non-integer harmonics series. <i>Nonlinear Dynamics</i> , 2017 , 89, 2845-2854	5	1
90	Stability and synchronization of fractional-order memristive neural networks with multiple delays. <i>Neural Networks</i> , 2017 , 94, 76-85	9.1	68
89	On the fractional-order modeling of wine. <i>European Food Research and Technology</i> , 2017 , 243, 921-929	3.4	12
88	Fractional Jensen-Shannon Analysis of the Scientific Output of Researchers in Fractional Calculus. <i>Entropy</i> , 2017 , 19, 127	2.8	18
87	Analysis and pattern identification on smart sensors data 2017 ,		1
86	Modeling vegetable fractals by means of fractional-order equations. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 2100-2108	2	26
85	State space analysis of forest fires. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 2153-2164	2	6
84	Entropy Analysis of Industrial Accident Data Series. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016 , 11,	1.4	3
83	Integer and fractional-order entropy analysis of earthquake data series. <i>Nonlinear Dynamics</i> , 2016 , 84, 79-90	5	33
82	The N-link pendulum: Embedding nonlinear dynamics into the multidimensional scaling method. <i>Chaos, Solitons and Fractals</i> , 2016 , 89, 130-138	9.3	2

81	Solved Problems in Dynamical Systems and Control 2016 ,		5
80	Empirical Laws and Foreseeing the Future of Technological Progress. <i>Entropy</i> , 2016 , 18, 217	2.8	7
79	Entropy Analysis of a Railway Network's Complexity. <i>Entropy</i> , 2016 , 18, 388	2.8	9
78	Design and implementation of grid multi-scroll fractional-order chaotic attractors. <i>Chaos</i> , 2016 , 26, 084303	3.3	29
77	Application of Fractional Techniques in the Analysis of Forest Fires. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2016 , 17, 381-390	1.8	3
76	Analysis of global terrorism dynamics by means of entropy and state space portrait. <i>Nonlinear Dynamics</i> , 2016 , 85, 1547-1560	5	14
75	Multidimensional scaling analysis of virus diseases. <i>Computer Methods and Programs in Biomedicine</i> , 2016 , 131, 97-110	6.9	17
74	Relative fractional dynamics of stock markets. <i>Nonlinear Dynamics</i> , 2016 , 86, 1613-1619	5	37
73	Power Law Behavior and Self-Similarity in Modern Industrial Accidents. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015 , 25, 1550004	2	4
72	Multidimensional Scaling Visualization Using Parametric Similarity Indices. <i>Entropy</i> , 2015 , 17, 1775-1794	2.8	35
71	The Persistence of Memory. <i>Nonlinear Dynamics</i> , 2015 , 79, 63-82	5	37
70	Analysis of Natural and Artificial Phenomena Using Signal Processing and Fractional Calculus. <i>Fractional Calculus and Applied Analysis</i> , 2015 , 18, 459-478	2.7	32
69	A review on the characterization of signals and systems by power law distributions. <i>Signal Processing</i> , 2015 , 107, 246-253	4.4	15
68	Temporal Patterns in Earthquake Data-series 2015 , 50-60		
67	Fractional State Space Analysis of Economic Systems. <i>Entropy</i> , 2015 , 17, 5402-5421	2.8	67
66	Experiments with a Virtual Lab for Industrial Robots Programming. <i>International Journal of Online and Biomedical Engineering</i> , 2015 , 11, 10	0.8	2
65	Fractional State Space Analysis of Temperature Time Series. <i>Fractional Calculus and Applied Analysis</i> , 2015 , 18, 1518-1536	2.7	16
64	Visualizing control systems performance: A fractional perspective. <i>Advances in Mechanical Engineering</i> , 2015 , 7, 168781401561983	1.2	3

63	Multidimensional Scaling Visualization Using Parametric Entropy. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2015 , 25, 1540017	2	10
62	Dynamical analysis and visualization of tornadoes time series. <i>PLoS ONE</i> , 2015 , 10, e0120260	3.7	2
61	Fractional order models of leaves. <i>JVC/Journal of Vibration and Control</i> , 2014 , 20, 998-1008	2	40
60	Virtual experiment for teaching robot programming 2014 ,		2
59	Rhapsody in fractional. <i>Fractional Calculus and Applied Analysis</i> , 2014 , 17, 1188-1214	2.7	28
58	Experimental results with a variable geometry ejector using R600a as working fluid. <i>International Journal of Refrigeration</i> , 2014 , 46, 77-85	3.8	38
57	Effect of Cure Temperature on the Glass Transition Temperature and Mechanical Properties of Epoxy Adhesives 2014 , 90, 104-119		88
56	Double power laws, fractals and self-similarity. <i>Applied Mathematical Modelling</i> , 2014 , 38, 4019-4026	4.5	13
55	Analysis of temperature time-series: Embedding dynamics into the MDS method. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014 , 19, 851-871	3.7	48
54	Dynamic analysis and pattern visualization of forest fires. <i>PLoS ONE</i> , 2014 , 9, e105465	3.7	4
53	Analysis of Forest Fires by means of Pseudo Phase Plane and Multidimensional Scaling Methods. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-8	1.1	2
52	Multidimensional scaling visualization of earthquake phenomena. <i>Journal of Seismology</i> , 2014 , 18, 163-179		7
51	Casualties Distribution in Human and Natural Hazards 2014 , 173-180		
50	Virtual reality and haptics for dental surgery: a personal review. <i>Visual Computer</i> , 2013 , 29, 433-447	2.3	28
49	Dynamic analysis of earthquake phenomena by means of pseudo phase plane. <i>Nonlinear Dynamics</i> , 2013 , 74, 1191-1202	5	10
48	Robotics virtual lab based on off-line robot programming software 2013 ,		6
47	Haptic System for Determining the Young Modulus of Materials. <i>International Journal of Online and Biomedical Engineering</i> , 2013 , 9, 68	0.8	4
46	Fractional dynamics and MDS visualization of earthquake phenomena. <i>Computers and Mathematics With Applications</i> , 2013 , 66, 647-658	2.7	43

45	Effect of post-cure on the glass transition temperature and mechanical properties of epoxy adhesives. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 2542-2557	2	59
44	A review of virtual reality and haptics for product assembly (part 1): rigid parts. <i>Assembly Automation</i> , 2013 , 33, 68-77	2.1	25
43	Root Locus Practical Sketching Rules for Fractional-Order Systems. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-14	0.7	8
42	Power Law and Entropy Analysis of Catastrophic Phenomena. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-10	1.1	7
41	Analysis and Visualization of Seismic Data Using Mutual Information. <i>Entropy</i> , 2013 , 15, 3892-3909	2.8	37
40	Single-Objective Spreading Algorithm. <i>Intelligent Systems, Control and Automation: Science and Engineering</i> , 2013 , 131-142	0.6	
39	A review of virtual reality and haptics for product assembly: from rigid parts to soft cables. <i>Assembly Automation</i> , 2013 , 33, 157-164	2.1	18
38	Haptic Guidance in a Collaborative Robotic System. <i>Communications in Computer and Information Science</i> , 2013 , 101-112	0.3	1
37	A new type haptics-based virtual environment system for assembly training of complex products. <i>International Journal of Advanced Manufacturing Technology</i> , 2012 , 58, 379-396	3.2	51
36	Cut and Suture Support on Volumetric Models in the CyberMed Framework. <i>Procedia Technology</i> , 2012 , 5, 771-776		2
35	Beeling young modulus of materials 2012 ,		2
34	Dynamical behaviour of multi-particle large-scale systems. <i>Nonlinear Dynamics</i> , 2012 , 69, 913-925	5	6
33	A review of power laws in real life phenomena. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012 , 17, 3558-3578	3.7	96
32	Dynamical Analysis of the Global Warming. <i>Mathematical Problems in Engineering</i> , 2012 , 2012, 1-12	1.1	8
31	Design of a Parallel Robotic Manipulator Using Evolutionary Computing. <i>International Journal of Advanced Robotic Systems</i> , 2012 , 9, 27	1.4	6
30	Efficient Dynamic Modeling of a Hexa-Type Parallel Manipulator 2012 , 335-348		
29	Complete Dynamic Modeling of a Stewart Platform Using the Generalized Momentum Approach 2011 , 199-210		
28	Design and implementation of a haptic-based virtual assembly system. <i>Assembly Automation</i> , 2011 , 31, 369-384	2.1	18

27	Optimization of the Workpiece Location in a Machining Robotic Cell. <i>International Journal of Advanced Robotic Systems</i> , 2011 , 8, 73	1.4	13
26	Adding tactile information to remote & virtual labs 2011 ,		3
25	MaxiMin MOPSO Design of Parallel Robotic Manipulators. <i>Advances in Intelligent and Soft Computing</i> , 2011 , 339-347		4
24	Complete dynamic modelling of a moving base 6-dof parallel manipulator. <i>Robotica</i> , 2010 , 28, 781-793	2.1	7
23	Optimization of Parallel Manipulators Using Evolutionary Algorithms. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 79-86		7
22	WIMAX/802.16 BROADBAND WIRELESS NETWORKS 2010 , 79-111		
21	Dynamic modeling of a Stewart platform using the generalized momentum approach. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009 , 14, 3389-3401	3.7	41
20	The generalized momentum approach to the dynamic modeling of a 6-dof parallel manipulator. <i>Multibody System Dynamics</i> , 2009 , 21, 123-146	2.8	18
19	A Remote Laboratory in Engineering Measurement. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 4836-4843	8.9	80
18	A forceImpedance controlled industrial robot using an active robotic auxiliary device. <i>Robotics and Computer-Integrated Manufacturing</i> , 2008 , 24, 299-309	9.2	60
17	Acceleration-based force-impedance control of a six-dof parallel manipulator. <i>Industrial Robot</i> , 2007 , 34, 386-399	1.4	9
16	Acceleration Based Force-Impedance Control of a 6-dof Parallel Robotic Manipulator 2006 ,		3
15	Integer vs. Fractional Order Control of a Hexapod Robot 2005 , 73-83		1
14	Modelling and simulation of artificial locomotion systems. <i>Robotica</i> , 2005 , 23, 595-606	2.1	34
13	Fractional Order Control of a Hexapod Robot. <i>Nonlinear Dynamics</i> , 2004 , 38, 417-433	5	82
12	Comparison of Fractional and Integer Order Control of an Hexapod Robot 2003 , 667		11
11	POWER ANALYSIS OF MULTI-LEGGED SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 287-292		2
10	Gait selection for quadruped and hexapod walking systems		2

9	Optimal Location of the Workpiece in a PKM-based Machining Robotic Cell	223-236		
8	Optimal Location of the Workpiece in a PKM-Based Machining Robotic Cell	1500-1515		1
7	Performance analysis of multi-legged systems			3
6	Correlating entrance data and first year academic performance of students enrolled in the Integrated Master in Mechanical Engineering at the University of Porto. <i>International Journal of Mechanical Engineering Education</i> ,030641902110156		0.6	1
5	Shifted fractional Legendre spectral collocation technique for solving fractional stochastic Volterra integro-differential equations. <i>Engineering With Computers</i> ,1		4.5	2
4	A review of structural health monitoring of bonded structures using electromechanical impedance spectroscopy. <i>Structural Health Monitoring</i> ,147592172199341		4.4	17
3	Structural health monitoring of adhesive joints using Lamb waves: A review. <i>Structural Control and Health Monitoring</i> ,e2849		4.5	8
2	Effect of mechanical properties and geometric dimensions on electromechanical impedance signatures for adhesive joint integrity monitoring. <i>Mechanics of Advanced Materials and Structures</i> ,1-16		1.8	1
1	Feature extraction and visualization for damage detection on adhesive joints, utilizing lamb waves and supervised machine learning algorithms. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> ,095440622210864		1.3	1