

Rafael BenÃ-tez

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

794
citations

516561

16
h-index

526166

27
g-index

38
all docs

38
docs citations

38
times ranked

1040
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring biological materials mechanics with atomic force microscopy –Determination of viscoelastic cell properties from stress relaxation experiments. <i>Microscopy Research and Technique</i> , 2022, 85, 3284-3295.	1.2	8
2	Unweighted TOPSIS: a new multi-criteria tool for sustainability analysis. <i>International Journal of Sustainable Development and World Ecology</i> , 2021, 28, 36-48.	3.2	15
3	Measuring (biological) materials mechanics with atomic force microscopy. 2. Influence of the loading rate and applied force (colloidal particles). <i>Microscopy Research and Technique</i> , 2021, 84, 1078-1088.	1.2	8
4	Interdependence between Green Financial Instruments and Major Conventional Assets: A Wavelet-Based Network Analysis. <i>Mathematics</i> , 2021, 9, 900.	1.1	26
5	dear-Shiny: An Interactive Web App for Data Envelopment Analysis. <i>Sustainability</i> , 2021, 13, 6774.	1.6	8
6	A New Wavelet Tool to Quantify Non-Periodicity of Non-Stationary Economic Time Series. <i>Mathematics</i> , 2020, 8, 844.	1.1	11
7	Managing high quality timber plantations as silvopastoral systems: tree growth, soil water dynamics and nitrate leaching risk. <i>New Forests</i> , 2020, 51, 985-1002.	0.7	2
8	A Short-Term Data Based Water Consumption Prediction Approach. <i>Energies</i> , 2019, 12, 2359.	1.6	18
9	A High-Frequency Data-Driven Machine Learning Approach for Demand Forecasting in Smart Cities. <i>Scientific Programming</i> , 2019, 2019, 1-16.	0.5	3
10	Resveratrol-Induced Temporal Variation in the Mechanical Properties of MCF-7 Breast Cancer Cells Investigated by Atomic Force Microscopy. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3275.	1.8	25
11	Microtubule disruption changes endothelial cell mechanics and adhesion. <i>Scientific Reports</i> , 2019, 9, 14903.	1.6	40
12	Measuring biomaterials mechanics with atomic force microscopy. 1. Influence of the loading rate and applied force (pyramidal tips). <i>Microscopy Research and Technique</i> , 2019, 82, 1392-1400.	1.2	37
13	A Probabilistic Model for Crystal Growth Applied to Protein Deposition at the Microscale. <i>Materials</i> , 2019, 12, 479.	1.3	2
14	Mechanical properties of gelatin nanoparticles in dependency of crosslinking time and storage. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 713-720.	2.5	32
15	Non-Lipschitz Homogeneous Volterra Integral Equations. <i>Understanding Complex Systems</i> , 2019, , 237-259.	0.3	1
16	Interactions between financial stress and economic activity for the U.S.: A time- and frequency-varying analysis using wavelets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 492, 446-462.	1.2	32
17	How do management techniques affect carbon stock in intensive hardwood plantations?. <i>Forest Ecology and Management</i> , 2017, 389, 228-239.	1.4	14
18	Searching events in AFM force–extension curves: A wavelet approach. <i>Microscopy Research and Technique</i> , 2017, 80, 153-159.	1.2	6

#	ARTICLE	IF	CITATIONS
19	The windowed scalogram difference: A novel wavelet tool for comparing time series. Applied Mathematics and Computation, 2017, 312, 49-65.	1.4	19
20	afmToolkit: an R Package for Automated AFM Force-Distance Curves Analysis. R Journal, 2017, 9, 291.	0.7	19
21	Interest rate changes and stock returns: A European multi-country study with wavelets. International Review of Economics and Finance, 2016, 44, 1-12.	2.2	62
22	THE USE OF WHATSAPP FOR IMPROVING THE STUDENT ATTENTION FROM THE TUTORIAL ACTION PLAN. , 2016, , .		0
23	Blow-up collocation solutions of nonlinear homogeneous Volterra integral equations. Applied Mathematics and Computation, 2015, 256, 754-768.	1.4	2
24	Shrub encroachment of Iberian dehesas: implications on total forage productivity. Agroforestry Systems, 2015, 89, 587-598.	0.9	21
25	Looking at cell mechanics with atomic force microscopy: Experiment and theory. Microscopy Research and Technique, 2014, 77, 947-958.	1.2	32
26	Comment on "Mechanical Properties of Giant Liposomes Compressed between Two Parallel Plates: Impact of Artificial Actin Shells" Langmuir, 2014, 30, 7928-7930.	1.6	2
27	The Wavelet Scalogram in the Study of Time Series. SEMA SIMAI Springer Series, 2014, , 147-154.	0.4	12
28	A new automatic contact point detection algorithm for AFM force curves. Microscopy Research and Technique, 2013, 76, 870-876.	1.2	50
29	Measurements of total ozone amount over Badajoz (Southwestern Spain) by means of a GUV multiband radiometer. Optica Pura Y Aplicada, 2012, 45, 39-43.	0.0	0
30	Existence and uniqueness of nontrivial collocation solutions of implicitly linear homogeneous Volterra integral equations. Journal of Computational and Applied Mathematics, 2011, 235, 3661-3672.	1.1	7
31	A wavelet-based tool for studying non-periodicity. Computers and Mathematics With Applications, 2010, 60, 634-641.	1.4	81
32	Stress relaxation microscopy: Imaging local stress in cells. Journal of Biomechanics, 2010, 43, 349-354.	0.9	66
33	Stress relaxation and creep on living cells with the atomic force microscope: a means to calculate elastic moduli and viscosities of cell components. Nanotechnology, 2010, 21, 445101.	1.3	110
34	Invariant manifolds of the Bonhoeffer-van der Pol oscillator. Chaos, Solitons and Fractals, 2009, 40, 2170-2180.	2.5	2
35	Attraction Properties of Unbounded Solutions for a Nonlinear Abel Integral Equation. Journal of Integral Equations and Applications, 2007, 19, .	0.2	2
36	Nonconvolution nonlinear integral volterra equations with monotone operators. Computers and Mathematics With Applications, 2005, 50, 1405-1414.	1.4	6

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37	Aspects of the behaviour of solutions of nonlinear Abel equations. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2003, 54, 1241-1249.	0.6	6
38	A Note on the Uniqueness and Attractive Behavior of Solutions for Nonlinear Volterra Equations. <i>Journal of Integral Equations and Applications</i> , 2001, 13, 305.	0.2	7