

Rafael Benítez

List of Publications by Year in descending order

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papers

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citations

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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. Microscopy Research and Technique, 2022, 85, 3284-3295.	2.2	8
2	Unweighted TOPSIS: a new multi-criteria tool for sustainability analysis. International Journal of Sustainable Development and World Ecology, 2021, 28, 36-48.	5.9	15
3	Measuring (biological) materials mechanics with atomic force microscopy. 2. Influence of the loading rate and applied force (colloidal particles). Microscopy Research and Technique, 2021, 84, 1078-1088.	2.2	8
4	Interdependence between Green Financial Instruments and Major Conventional Assets: A Wavelet-Based Network Analysis. Mathematics, 2021, 9, 900.	2.2	26
5	dear-Shiny: An Interactive Web App for Data Envelopment Analysis. Sustainability, 2021, 13, 6774.	3.2	8
6	A New Wavelet Tool to Quantify Non-Periodicity of Non-Stationary Economic Time Series. Mathematics, 2020, 8, 844.	2.2	11
7	Managing high quality timber plantations as silvopastoral systems: tree growth, soil water dynamics and nitrate leaching risk. New Forests, 2020, 51, 985-1002.	1.7	2
8	A Short-Term Data Based Water Consumption Prediction Approach. Energies, 2019, 12, 2359.	3.1	18
9	A High-Frequency Data-Driven Machine Learning Approach for Demand Forecasting in Smart Cities. Scientific Programming, 2019, 2019, 1-16.	0.7	3
10	Resveratrol-Induced Temporal Variation in the Mechanical Properties of MCF-7 Breast Cancer Cells Investigated by Atomic Force Microscopy. International Journal of Molecular Sciences, 2019, 20, 3275.	4.1	25
11	Microtubule disruption changes endothelial cell mechanics and adhesion. Scientific Reports, 2019, 9, 14903.	3.3	40
12	Measuring biomaterials mechanics with atomic force microscopy. 1. Influence of the loading rate and applied force (pyramidal tips). Microscopy Research and Technique, 2019, 82, 1392-1400.	2.2	37
13	A Probabilistic Model for Crystal Growth Applied to Protein Deposition at the Microscale. Materials, 2019, 12, 479.	2.9	2
14	Mechanical properties of gelatin nanoparticles in dependency of crosslinking time and storage. Colloids and Surfaces B: Biointerfaces, 2019, 175, 713-720.	5.0	32
15	Non-Lipschitz Homogeneous Volterra Integral Equations. Understanding Complex Systems, 2019, , 237-259.	0.6	1
16	Interactions between financial stress and economic activity for the U.S.: A time- and frequency-varying analysis using wavelets. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 446-462.	2.6	32
17	How do management techniques affect carbon stock in intensive hardwood plantations?. Forest Ecology and Management, 2017, 389, 228-239.	3.2	14
18	Searching events in AFM force-extension curves: A wavelet approach. Microscopy Research and Technique, 2017, 80, 153-159.	2.2	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.	2.2	19
20	afmToolkit: an R Package for Automated AFM Force-Distance Curves Analysis. R Journal, 2017, 9, 291.	1.8	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.	4.5	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.	2.2	2
24	Shrub encroachment of Iberian dehesas: implications on total forage productivity. Agroforestry Systems, 2015, 89, 587-598.	2.0	21
25	Looking at cell mechanics with atomic force microscopy: Experiment and theory. Microscopy Research and Technique, 2014, 77, 947-958.	2.2	32
26	Comment on "Mechanical Properties of Giant Liposomes Compressed between Two Parallel Plates: Impact of Artificial Actin Shells" Langmuir, 2014, 30, 7928-7930.	3.5	2
27	The Wavelet Scalogram in the Study of Time Series. SEMA SIMAI Springer Series, 2014, , 147-154.	0.7	12
28	A new automatic contact point detection algorithm for AFM force curves. Microscopy Research and Technique, 2013, 76, 870-876.	2.2	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.	0.1	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.	2.0	7
31	A wavelet-based tool for studying non-periodicity. Computers and Mathematics With Applications, 2010, 60, 634-641.	2.7	81
32	Stress relaxation microscopy: Imaging local stress in cells. Journal of Biomechanics, 2010, 43, 349-354.	2.1	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.	2.6	110
34	Invariant manifolds of the Bonhoeffer-van der Pol oscillator. Chaos, Solitons and Fractals, 2009, 40, 2170-2180.	5.1	2
35	Attraction Properties of Unbounded Solutions for a Nonlinear Abel Integral Equation. Journal of Integral Equations and Applications, 2007, 19, .	0.6	2
36	Nonconvolution nonlinear integral volterra equations with monotone operators. Computers and Mathematics With Applications, 2005, 50, 1405-1414.	2.7	6

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37	Aspects of the behaviour of solutions of nonlinear Abel equations. Nonlinear Analysis: Theory, Methods & Applications, 2003, 54, 1241-1249.	1.1	6
38	A Note on the Uniqueness and Attractive Behavior of Solutions for Nonlinear Volterra Equations. Journal of Integral Equations and Applications, 2001, 13, 305.	0.6	7