

# Maria Teresa Caccamo

## List of Publications by Year in descending order

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43  
papers

1,228  
citations

430874

18  
h-index

377865

34  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1655  
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Nanoparticles for Drug Delivery Application: Development of Versatile Nanocarrier Platforms in Biotechnology and Nanomedicine. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-26.	2.7	570
2	Changes in Motor, Cognitive, and Behavioral Symptoms in Parkinson's Disease and Mild Cognitive Impairment During the COVID-19 Lockdown. <i>Frontiers in Psychiatry</i> , 2020, 11, 590134.	2.6	46
3	Self-Assembly Processes in Hydrated Montmorillonite by FTIR Investigations. <i>Materials</i> , 2020, 13, 1100.	2.9	45
4	Innovative Wavelet Protocols in Analyzing Elastic Incoherent Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9417-9423.	2.6	36
5	Thermal properties of an exopolysaccharide produced by a marine thermotolerant <i>Bacillus licheniformis</i> by ATR-FTIR spectroscopy. <i>International Journal of Biological Macromolecules</i> , 2020, 145, 77-83.	7.5	35
6	Evidence of pre-micellar aggregates in aqueous solution of amphiphilic PDMS- $\alpha$ -PEO block copolymer. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 11983-11991.	2.8	34
7	Tagging the oligomer-to-polymer crossover on EG and PEGs by infrared and Raman spectroscopies and by wavelet cross-correlation spectral analysis. <i>Vibrational Spectroscopy</i> , 2016, 85, 222-227.	2.2	31
8	Thermal restraint on PEG-EG mixtures by FTIR investigations and wavelet cross-correlation analysis. <i>Polymer Testing</i> , 2017, 62, 311-318.	4.8	31
9	Infrared, Raman and INS studies of poly-ethylene oxide oligomers. <i>Journal of Molecular Structure</i> , 2013, 1048, 261-266.	3.6	30
10	Elastic incoherent neutron scatterings wavevector and thermal analysis on glass-forming homologous disaccharides. <i>Journal of Non-Crystalline Solids</i> , 2013, 378, 144-151.	3.1	28
11	New generation non-stationary portable neutron generators for biophysical applications of Neutron Activation Analysis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 3661-3670.	2.4	27
12	Colloidal stability of liposomes. <i>AIMS Materials Science</i> , 2019, 6, 200-213.	1.4	25
13	Weather forecast performances for complex orographic areas: Impact of different grid resolutions and of geographic data on heavy rainfall event simulations in Sicily. <i>Atmospheric Research</i> , 2017, 198, 22-33.	4.1	24
14	Thermal restraint of a bacterial exopolysaccharide of shallow vent origin. <i>International Journal of Biological Macromolecules</i> , 2018, 114, 649-655.	7.5	24
15	Thermal Analysis on Bioprotectant Disaccharides by Elastic Incoherent Neutron Scattering. <i>Food Biophysics</i> , 2014, 9, 99-104.	3.0	21
16	Investigations of homologous disaccharides by elastic incoherent neutron scattering and wavelet multiresolution analysis. <i>Chemical Physics</i> , 2013, 424, 56-61.	1.9	20
17	Multiscaling wavelet analysis of infrared and Raman data on polyethylene glycol 1000 aqueous solutions. <i>Spectroscopy Letters</i> , 2017, 50, 130-136.	1.0	20
18	Ethylene Glycol $\alpha$ - Polyethylene Glycol (EG-PEG) Mixtures: Infrared Spectra Wavelet Cross-Correlation Analysis. <i>Applied Spectroscopy</i> , 2017, 71, 401-409.	2.2	19

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19	The Shielding Action of Disaccharides for Typical Proteins in Aqueous Solution Against Static, 50 Hz and 1800 MHz Frequencies Electromagnetic Fields. <i>Current Chemical Biology</i> , 2016, 10, 57-64.	0.5	18
20	Experimental Study of Thermal Restraint in Bio-Protectant Disaccharides by FTIR Spectroscopy. <i>Open Biotechnology Journal</i> , 2018, 12, 123-133.	1.2	17
21	Variable mass pendulum behaviour processed by wavelet analysis. <i>European Journal of Physics</i> , 2017, 38, 015804.	0.6	13
22	Analysis of the ETNA 2015 Eruption Using WRFâ€“Chem Model and Satellite Observations. <i>Atmosphere</i> , 2020, 11, 1168.	2.3	13
23	Upgrading of Resolution Elastic Neutron Scattering (RENS). <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-7.	1.8	12
24	Wavelet Study of Meteorological Data Collected by Arduino-Weather Station: Impact on Solar Energy Collection Technology. <i>MATEC Web of Conferences</i> , 2016, 55, 02004.	0.2	11
25	Wavelet analysis of near-resonant series RLC circuit with time-dependent forcing frequency. <i>European Journal of Physics</i> , 2018, 39, 045702.	0.6	10
26	Laser Techniques on Acoustically Levitated Droplets. <i>EPJ Web of Conferences</i> , 2018, 167, 05010.	0.3	9
27	A Physicalâ€“Mathematical Approach to Climate Change Effects through Stochastic Resonance. <i>Climate</i> , 2019, 7, 21.	2.8	8
28	Effects of Heavy Ion Particle Irradiation on Spore Germination of <i>Bacillus</i> spp. from Extremely Hot and Cold Environments. <i>Life</i> , 2020, 10, 264.	2.4	8
29	Interdisciplinary approaches to the study of biological membranes. <i>AIMS Biophysics</i> , 2020, 7, 267-290.	0.6	8
30	On the Breaking of the Milankovitch Cycles Triggered by Temperature Increase: The Stochastic Resonance Response. <i>Climate</i> , 2021, 9, 67.	2.8	6
31	The Role of Physical Parameterizations on the Numerical Weather Prediction: Impact of Different Cumulus Schemes on Weather Forecasting on Complex Orographic Areas. <i>Atmosphere</i> , 2021, 12, 616.	2.3	6
32	Å¼chardtâ€™s experiment treated by Fourier transform. <i>European Journal of Physics</i> , 2019, 40, 025703.	0.6	5
33	Thermal Investigations on Carbon Nanotubes by Spectroscopic Techniques. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8159.	2.5	4
34	Resolution-elastic neutron scattering by correlation techniques. <i>Journal of Advanced Research</i> , 2019, 17, 109-116.	9.5	3
35	Hot Resistance of Spores from the Thermophilic <i>Bacillus horneckiae</i> SBP3 of Shallow Hydrothermal Vent Origin Elucidated by Spectroscopic Analyses. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4256.	2.5	2
36	Thermal investigation of montmorillonite/BSA by fourier transform infrared spectroscopy measurements&lt;xref ref-type="fn" rid="fn1">&lt;sup>1</sup>&lt;/xref>. <i>AIMS Biophysics</i> , 2020, 7, 436-451.	0.6	2

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37	A STUDY OF MONITORING HIGH FREQUENCY ELECTROMAGNETIC FIELD POLLUTION IN URBAN AREAS. , 0, , .		2
38	Climate Change Dynamics and Modeling: Future Perspectives. <i>Climate</i> , 2022, 10, 65.	2.8	2
39	Competition between Nâ€“H bending vibration and Î±-helix polarization under 50â€“Hz magnetic field in SH-SY5Y neuronal-like cells. <i>Spectroscopy Letters</i> , 2020, 53, 458-465.	1.0	1
40	Experimental Investigation on the Bioprotective Role of Trehalose on Glutamine Solutions by Infrared Spectroscopy. <i>Materials</i> , 2022, 15, 4329.	2.9	1
41	An FT-IR Based Investigation of Trehalose Mediated Thermal Stabilisation of <i>Bacillus clausii</i> . <i>Current Nutrition and Food Science</i> , 2021, 17, 566-571.	0.6	0
42	A machine learning-based predictive model for risk assessment in airport areas. , 2021, , .		0
43	Interdisciplinary experimental approaches for the investigation of complex systems of biophysical interest. <i>AIMS Biophysics</i> , 2020, 7, 119-120.	0.6	0