

Mario González-Jiménez

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

463
citations

687220

13
h-index

752573

20
g-index

25
all docs

25
docs citations

25
times ranked

588
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of coherent delocalized phonon-like modes in DNA under physiological conditions. <i>Nature Communications</i> , 2016, 7, 11799.	5.8	66
2	Prediction of mosquito species and population age structure using mid-infrared spectroscopy and supervised machine learning. <i>Wellcome Open Research</i> , 2019, 4, 76.	0.9	40
3	Natural Jute Fibre-Based Supercapacitors and Sensors for Eco-Friendly Energy Autonomous Systems. <i>Advanced Sustainable Systems</i> , 2021, 5, 2000286.	2.7	39
4	Detection of malaria parasites in dried human blood spots using mid-infrared spectroscopy and logistic regression analysis. <i>Malaria Journal</i> , 2019, 18, 341.	0.8	36
5	Prediction of mosquito species and population age structure using mid-infrared spectroscopy and supervised machine learning. <i>Wellcome Open Research</i> , 2019, 4, 76.	0.9	36
6	Phonon-like Hydrogen-Bond Modes in Protic Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2017, 139, 7160-7163.	6.6	35
7	Using mid-infrared spectroscopy and supervised machine-learning to identify vertebrate blood meals in the malaria vector, <i>Anopheles arabiensis</i> . <i>Malaria Journal</i> , 2019, 18, 187.	0.8	28
8	Rapid age-grading and species identification of natural mosquitoes for malaria surveillance. <i>Nature Communications</i> , 2022, 13, 1501.	5.8	28
9	Spectrum of Slow and Super-Slow (Picosecond to Nanosecond) Water Dynamics around Organic and Biological Solutes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2964-2970.	2.1	27
10	Ultrafast 2D-IR and optical Kerr effect spectroscopy reveal the impact of duplex melting on the structural dynamics of DNA. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10333-10342.	1.3	24
11	Frustration of crystallisation by a liquid-crystal phase. <i>Scientific Reports</i> , 2017, 7, 42439.	1.6	20
12	Polyamorphism Mirrors Polymorphism in the Liquid-Liquid Transition of a Molecular Liquid. <i>Journal of the American Chemical Society</i> , 2020, 142, 7591-7597.	6.6	17
13	Mutagenic products are promoted in the nitrosation of tyramine. <i>Food Chemistry</i> , 2017, 216, 60-65.	4.2	15
14	Detection of Nitrite in Water Using Minoxidil as a Reagent. <i>Journal of Chemical Education</i> , 2013, 90, 1053-1056.	1.1	13
15	Aromatic C-nitrosation of a bioactive molecule. Nitrosation of minoxidil. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 7680.	1.5	8
16	Low-frequency vibrational modes in G-quadruplexes reveal the mechanical properties of nucleic acids. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13250-13260.	1.3	7
17	Taurine-nitrite interaction as a precursor of alkylation mechanisms. <i>Food Chemistry</i> , 2012, 134, 986-991.	4.2	6
18	The reactivity of vinyl compounds as alkylating agents. <i>Monatshefte für Chemie</i> , 2012, 143, 723-727.	0.9	5

#	ARTICLE	IF	CITATIONS
19	Low-Frequency (Gigahertz to Terahertz) Depolarized Raman Scattering Off-Resonance Alkanes, Cycloalkanes, and Six-Membered Rings: A Physical Interpretation. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7611-7624.	1.2	5
20	Interference by Nitrous Acid Decomposition in the Kinetic Study of Nitrosation Reactions. <i>International Journal of Chemical Kinetics</i> , 2014, 46, 321-327.	1.0	2
21	Prediction of mosquito species and population age structure using mid-infrared spectroscopy and supervised machine learning. <i>Wellcome Open Research</i> , 0, 4, 76.	0.9	2