Mariela M Nolasco

List of Publications by Year
in descending order

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47 papers	1,970 citations	304743 22 h-index	243625 44 g-index
48 all docs	48 docs citations	48 times ranked	2749 citing authors

#	Article	IF	Citations
1	Identification of microplastics using Raman spectroscopy: Latest developments and future prospects. Water Research, 2018, 142, 426-440.	11.3	512
2	Inelastic neutron scattering study of reline: shedding light on the hydrogen bonding network of deep eutectic solvents. Physical Chemistry Chemical Physics, 2017, 19, 17998-18009.	2.8	132
3	Inside PEF: Chain Conformation and Dynamics in Crystalline and Amorphous Domains. Macromolecules, 2018, 51, 3515-3526.	4.8	110
4	Photoâ€“Click Chemistry to Design Highly Efficient Lanthanide Î²-Diketonate Complexes Stable under UV Irradiation. Chemistry of Materials, 2013, 25, 586-598.	6.7	96
5	Engineering highly efficient Eu(iii)-based tri-ureasil hybrids toward luminescent solar concentrators. Journal of Materials Chemistry A, 2013, 1, 7339.	10.3	95
6	Characterization of Microplastics by Raman Spectroscopy. Comprehensive Analytical Chemistry, 2017, , 119-151.	1.3	84
7	Computationally-Assisted Approach to the Vibrational Spectra of Molecular Crystals: Study of Hydrogen-Bonding and Pseudo-Polymorphism. ChemPhysChem, 2006, 7, 2150-2161.	2.1	71
8	Excimer Formation in a Terbium Metalâ€“Organic Framework Assists Luminescence Thermometry. Chemistry of Materials, 2017, 29, 9547-9554.	6.7	65
9	Probing Pseudopolymorphic Transitions in Pharmaceutical Solids using Raman Spectroscopy: Hydration and Dehydration of Theophylline. Journal of Pharmaceutical Sciences, 2007, 96, 1366-1379.	3.3	56
10	Dependence of the Lifetime upon the Excitation Energy and Intramolecular Energy Transfer Rates: The ⁵D₀ Eu^{III} Emission Case. Chemistry - A European Journal, 2012, 18, 12130-12139.	3.3	54
11	New chloro and triphenylsiloxy derivatives of dioxomolybdenum(VI) chelated with pyrazolylpyridine ligands: Catalytic applications in olefin epoxidation. Journal of Molecular Catalysis A, 2007, 261, 79-87.	4.8	52
12	C?H???O Hydrogen Bonds in Cyclohexenone Reveal the Spectroscopic Behavior of Csp3?H and Csp2?H Donors. ChemPhysChem, 2005, 6, 496-502.	2.1	50
13	Chemistry and Catalytic Activity of Molybdenum(VI)-Pyrazolylpyridine Complexes in Olefin Epoxidation. Crystal Structures of Monomeric Dioxo, Dioxo-Î¼-oxo, and Oxodiperoxo Derivatives. Inorganic Chemistry, 2011, 50, 525-538.	4.0	50
14	Hydrogenâ€Bond Dynamics of Cï£¿Hâ‹…â‹…â‹…O Interactions: The Chloroformâ‹…â‹…â‹…Acetone Case. Chemistry - A European Journal, 2010, 16, 9010-9017.	3.3	38
15	Synthesis, Structural Elucidation, and Catalytic Properties in Olefin Epoxidation of the Polymeric Hybrid Material [Mo3O9(2-[3(5)-Pyrazolyl]pyridine)]n. Inorganic Chemistry, 2014, 53, 2652-2665.	4.0	38
16	Intriguing light-emission features of ketoprofen-based Eu(III) adduct due to a strong electronâ€“phonon coupling. Journal of Luminescence, 2016, 170, 357-363.	3.1	34
17	A Combined Theoreticalâ^'Experimental Study of the Inclusion of Niobocene Dichloride in Native and Permethylated Î²-Cyclodextrins. Organometallics, 2007, 26, 4220-4228.	2.3	32
18	Effect of hydrogen bonding in the vibrational spectra of transâ€cinnamic acid. Journal of Raman Spectroscopy, 2009, 40, 394-400.	2.5	32

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19	Hydrogen Bond Dynamics of Cellulose through Inelastic Neutron Scattering Spectroscopy. Biomacromolecules, 2018, 19, 1305-1313.	5.4	28
20	Light emission of a polyfluorene derivative containing complexed europium ions. Physical Chemistry Chemical Physics, 2015, 17, 26238-26248.	2.8	26
21	Efficient Visibleâ€Lightâ€Excitable Eu³⁺ Complexes for Red Organic Lightâ€Emitting Diodes. European Journal of Inorganic Chemistry, 2020, 2020, 1260-1270.	2.0	25
22	What a difference a methyl group makes â€“ probing cholineâ€“urea molecular interactions through urea structure modification. Physical Chemistry Chemical Physics, 2019, 21, 18278-18289.	2.8	24
23	Asymmetric Monomer, Amorphous Polymer? Structureâ€“Property Relationships in 2,4-FDCA and 2,4-PEF. Macromolecules, 2020, 53, 1380-1387.	4.8	24
24	The role of 4,7-disubstituted phenanthroline ligands in energy transfer of europium(iii) complexes: a DFT study. New Journal of Chemistry, 2011, 35, 2435.	2.8	21
25	Modelling the luminescence of extended solids: an example of a highly luminescent MCM-41 impregnated with a Eu³⁺Î²-diketonate complex. Journal of Materials Chemistry C, 2014, 2, 9701-9711.	5.5	20
26	Poly(4-styrene sulfonic acid)/bacterial cellulose membranes: Electrochemical performance in a single-chamber microbial fuel cell. Bioresource Technology Reports, 2020, 9, 100376.	2.7	20
27	Câ€“Hâ‹¯O Hydrogen bonding in 4-phenyl-benzaldehyde: A comprehensive crystallographic, spectroscopic and computational study. Physical Chemistry Chemical Physics, 2005, 7, 3027.	2.8	19
28	Vibrational Study on the Local Structure of Postâ€Synthesis and Hybrid Mesoporous Materials: Are There Fundamental Distinctions?. Chemistry - A European Journal, 2007, 13, 7874-7882.	3.3	19
29	A green-emitting Î±-substituted Î²-diketonate Tb³⁺ phosphor for ultraviolet LED-based solid-state lighting. Journal of Coordination Chemistry, 2014, 67, 4076-4089.	2.2	19
30	Water in Deep Eutectic Solvents: New Insights From Inelastic Neutron Scattering Spectroscopy. Frontiers in Physics, 2022, 10, .	2.1	17
31	Understanding the vibrational spectra of crystalline isoniazid: Raman, IR and INS spectroscopy and solid-state DFT study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 204, 452-459.	3.9	13
32	Crystal structure landscapes from combined vibrational spectroscopy and ab initio calculations: 4-(Dimethylamino)benzaldehyde. Computational and Theoretical Chemistry, 2010, 946, 65-69.	1.5	12
33	Understanding the Structure and Dynamics of Nanocellulose-Based Composites with Neutral and Ionic Poly(methacrylate) Derivatives Using Inelastic Neutron Scattering and DFT Calculations. Molecules, 2020, 25, 1689.	3.8	12
34	Influence of the Crystal Structure on the Luminescence Properties of Mixed Eu,La-(1,10-Phenanthroline) Complexes. European Journal of Inorganic Chemistry, 2015, 2015, 4861-4868.	2.0	10
35	Spectroscopic and thermal studies on the inclusion of transâ€cinnamic acid and a number of its hydroxylâ€derivatives with Î±, Î² and Î³â€cyclodextrins molecules. Journal of Raman Spectroscopy, 2009, 40, 687-695.	2.5	7
36	Modelling the Luminescence of Phosphonate Lanthanide-Organic Frameworks. European Journal of Inorganic Chemistry, 2015, 2015, 1254-1260.	2.0	7

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37	Vibrational Dynamics of Crystalline 4-Phenylbenzaldehyde from INS Spectra and Periodic DFT Calculations. Molecules, 2020, 25, 1374.	3.8	6
38	Intermolecular Câ€“Hâ‹¯O interactions in cyclopentanone: An inelastic neutron scattering study. Chemical Physics, 2013, 427, 117-123.	1.9	5
39	Coordination polymers based on a glycine-derivative ligand. CrystEngComm, 2014, 16, 8119-8137.	2.6	5
40	High Emission Quantum Yield Tb3+ -Activated Organic-Inorganic Hybrids for UV-Down-Shifting Green Light-Emitting Diodes. European Journal of Inorganic Chemistry, 2020, 2020, 1736-1742.	2.0	5
41	Insights into phase stability of anhydrous/hydrate systems: a Ramanâ€based methodology. Journal of Raman Spectroscopy, 2010, 41, 340-349.	2.5	4
42	Exploring Câ€“HÂ·Â·Â·O hydrogen bonds in dihydrocoumarin from combined vibrational spectroscopy and DFT calculations. Chemical Physics Letters, 2012, 551, 86-91.	2.6	4
43	Effects of hydrogen-bond and cooperativity in the vibrational spectra of Luminol. Vibrational Spectroscopy, 2013, 64, 119-125.	2.2	4
44	Preformulation Studies of the Î³-Cyclodextrin and Montelukast Inclusion Compound Prepared by Comilling. Journal of Pharmaceutical Sciences, 2019, 108, 1837-1847.	3.3	4
45	New Insights on the Vibrational Dynamics of 2-Methoxy-, 4-Methoxy- and 4-Ethoxy-Benzaldehyde from INS Spectra and Periodic DFT Calculations. Materials, 2021, 14, 4561.	2.9	4
46	Vibrational dynamics of 4-fluorobenzaldehyde from periodic DFT calculations. Chemical Physics Letters: X, 2019, 2, 100006.	2.1	3
47	Vibrational Dynamics in crystalline 4-(dimethylamino) benzaldehyde: Inelastic Neutron Scattering and Periodic DFT Study. Materials, 2022, 15, 475.	2.9	2