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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	Vibrational Dynamics in crystalline 4-(dimethylamino) benzaldehyde: Inelastic Neutron Scattering and Periodic DFT Study. Materials, 2022, 15, 475.	2.9	2
2	Water in Deep Eutectic Solvents: New Insights From Inelastic Neutron Scattering Spectroscopy. Frontiers in Physics, 2022, 10, .	2.1	17
3	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
4	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
5	Vibrational Dynamics of Crystalline 4-Phenylbenzaldehyde from INS Spectra and Periodic DFT Calculations. Molecules, 2020, 25, 1374.	3.8	6
6	Asymmetric Monomer, Amorphous Polymer? Structureâ€“Property Relationships in 2,4-FDCA and 2,4-PEF. Macromolecules, 2020, 53, 1380-1387.	4.8	24
7	Efficient Visibleâ€Lightâ€Excitable Eu³⁺ Complexes for Red Organic Lightâ€Emitting Diodes. European Journal of Inorganic Chemistry, 2020, 2020, 1260-1270.	2.0	25
8	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
9	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
10	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
11	Vibrational dynamics of 4-fluorobenzaldehyde from periodic DFT calculations. Chemical Physics Letters: X, 2019, 2, 100006.	2.1	3
12	Preformulation Studies of the Î³-Cyclodextrin and Montelukast Inclusion Compound Prepared by Comilling. Journal of Pharmaceutical Sciences, 2019, 108, 1837-1847.	3.3	4
13	Inside PEF: Chain Conformation and Dynamics in Crystalline and Amorphous Domains. Macromolecules, 2018, 51, 3515-3526.	4.8	110
14	Hydrogen Bond Dynamics of Cellulose through Inelastic Neutron Scattering Spectroscopy. Biomacromolecules, 2018, 19, 1305-1313.	5.4	28
15	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
16	Identification of microplastics using Raman spectroscopy: Latest developments and future prospects. Water Research, 2018, 142, 426-440.	11.3	512
17	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
18	Excimer Formation in a Terbium Metalâ€“Organic Framework Assists Luminescence Thermometry. Chemistry of Materials, 2017, 29, 9547-9554.	6.7	65

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19	Characterization of Microplastics by Raman Spectroscopy. Comprehensive Analytical Chemistry, 2017, , 119-151.	1.3	84
20	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
21	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
22	Light emission of a polyfluorene derivative containing complexed europium ions. Physical Chemistry Chemical Physics, 2015, 17, 26238-26248.	2.8	26
23	Modelling the Luminescence of Phosphonate Lanthanide-Organic Frameworks. European Journal of Inorganic Chemistry, 2015, 2015, 1254-1260.	2.0	7
24	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
25	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
26	Coordination polymers based on a glycine-derivative ligand. CrystEngComm, 2014, 16, 8119-8137.	2.6	5
27	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
28	Intermolecular Câ€“Hâ‹¯O interactions in cyclopentanone: An inelastic neutron scattering study. Chemical Physics, 2013, 427, 117-123.	1.9	5
29	Effects of hydrogen-bond and cooperativity in the vibrational spectra of Luminol. Vibrational Spectroscopy, 2013, 64, 119-125.	2.2	4
30	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
31	Engineering highly efficient Eu(iii)-based tri-ureasil hybrids toward luminescent solar concentrators. Journal of Materials Chemistry A, 2013, 1, 7339.	10.3	95
32	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
33	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
34	Chemistry and Catalytic Activity of Molybdenum(VI)-Pyrazolylpyridine Complexes in Olefin Epoxidation. Crystal Structures of Monomeric Dioxo, Dioxo-Ï¼-oxo, and Oxodiperoxo Derivatives. Inorganic Chemistry, 2011, 50, 525-538.	4.0	50
35	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
36	Insights into phase stability of anhydrous/hydrate systems: a Ramanâ€based methodology. Journal of Raman Spectroscopy, 2010, 41, 340-349.	2.5	4

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37	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
38	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
39	Effect of hydrogen bonding in the vibrational spectra of transâ€cinnamic acid. Journal of Raman Spectroscopy, 2009, 40, 394-400.	2.5	32
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	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