

Harmonic Vibrational Frequencies: An Evaluation of Quadratic Configuration Interaction, Density Functional Factors

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Citation Report

#	ARTICLE	IF	CITATIONS
25	Relative Stabilities and Hydride Affinities of Silatropylium and Silabenzyl Cations and Their Isomers. Comparison with the Carbon Analogues Tropylium and Benzyl Cations. Journal of the American Chemical Society, 1996, 118, 10561-10570.	6.6	38
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1348	First signals of electrochemically oxidized species of TTF and TTM-TTF: A study by in situ spectroelectrochemical FTIR and DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4672-4679.	1.3	26
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1357	The influence of isotopomers on calculated thermodynamics quantities. <i>Molecular Physics</i> , 2003, 101, 2315-2318.	0.8	0
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1359	Trends in alkyl substituent effects on nucleophilic reactions of carbonyl compounds: Gas phase reactions between ammonia and R1R2COCH3+ oxonium ions. Electronic supplementary information (ESI) available: proton affinities, geometries and energies of optimised structures, structures of the stationary points and a plot of experimental and RRKM $\ln(k_{\text{rel}}/k_{\text{sub}})$ against α -stabilisation constants. See http://www.rsc.org/suppdata/ob/b2/b200055f/ . <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 705-713.	1.5	8
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4373	FT-IR and Raman spectroscopic and quantum chemical investigations of some metal halide complexes of 1-phenylpiperazine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 88, 144-155.	2.0	13
4374	Experimental, quantum chemical and natural bond orbital investigations of N-(2,4-dimethylphenyl)-2,2-dichloroacetamide and N-(3,5-dimethylphenyl)-2,2-dichloroacetamide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 88, 192-209.	2.0	6
4375	FTIR, FT-Raman, FT-NMR, UV-visible and quantum chemical investigations of 2-amino-4-methylbenzothiazole. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 88, 220-231.	2.0	35
4376	DFT, FT-Raman and FT-IR investigations of 1-cyclobutylpiperazine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 90, 109-117.	2.0	5
4377	FT-IR, FT-Raman, ab initio, HF and DFT studies, NBO, HOMO-LUMO and electronic structure calculations on 4-chloro-3-nitrotoluene. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 89, 137-148.	2.0	73
4378	2-Methoxyphenyl isocyanate and 2-Methoxyphenyl isothiocyanate: Conformers, vibration structure and multiplet Fermi resonance. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 91, 261-268.	2.0	5
4379	4-Allyl-5-pyridin-4-yl-2,4-dihydro-3H-1,2,4-triazole-3-thione: Synthesis, experimental and theoretical characterization. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 91, 136-145.	2.0	14
4380	Experimental (FT-IR, FT-Raman, NMR) and theoretical spectroscopic properties of intermolecular hydrogen bonded 1-acetyl-2-thiohydantoin polymorphs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 90, 141-151.	2.0	6
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4382	Molecular structure and vibrational spectra of 3-and 4-amino-2-bromopyridine by density functional methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 91, 206-216.	2.0	10
4383	Density functional theory study on characterization of 3-chloro-1,2-benzisothiazole. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 91, 248-255.	2.0	29
4384	Calculated infrared spectra of nerve agents and simulants. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 91, 256-260.	2.0	24
4385	A comparative study on vibrational, conformational and electronic structure of 1,1'-diol-o-xylene, 1,1'-diol-m-xylene and 1,1'-diol-p-xylene. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 92, 1-15.	2.0	2
4386	Experimental and quantum chemical computational study of (E)-1-[5-(3,4-dimethylphenyldiazenyl)-2-hydroxyphenyl]ethanone. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 93, 208-213.	2.0	19

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4388	The spectroscopic (FT-Raman, FT-IR, UV and NMR), molecular electrostatic potential, polarizability and hyperpolarizability, NBO and HOMO-LUMO analysis of monomeric and dimeric structures of 4-chloro-3,5-dinitrobenzoic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 93, 33-46.	2.0	106
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4391	Structural, vibrational (FT-IR and FT-Raman) and UV-Vis spectral analysis of 1-phenyl-3-(1,2,3-thiadiazol-5-yl)urea by DFT method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 95, 331-340.	2.0	12
4392	Ab initio Hartree-Fock and density functional theory investigations on the conformational stability, molecular structure and vibrational spectra of 5-chloro-3-(2-(4-methylpiperazin-1-yl)-2-oxoethyl)benzo[d]thiazol-2(3H)-one drug molecule. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 95, 282-299.	2.0	18
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4395	Experimental (FT-IR, FT-Raman and UV-Vis) spectra and theoretical DFT investigations of 2,3-diaminophenazine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 96, 401-412.	2.0	16
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4398	IR spectra and structure of 2-{5,5-dimethyl-3-[(2-phenyl)vinyl]cyclohex-2-enylidene}-malononitrile and its potassium cyanide and sodium methoxide carbanionic adducts: Experimental and B3LYP theoretical studies. <i>Journal of Molecular Structure</i> , 2012, 1009, 42-48.	1.8	1
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4400	Three hydrogen-bonded complexes of trigonelline with squaric acid: Crystallographic, spectroscopic and theoretical studies. <i>Journal of Molecular Structure</i> , 2012, 1007, 113-121.	1.8	20
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4403	Low temperature Raman and DFT study of creatinine. <i>Journal of Molecular Structure</i> , 2012, 1012, 141-150.	1.8	20
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4411	Molecular structure and vibrational spectra of free and coordinated 3-bromoquinoline: Unexpected intramolecular CH \cdots O interactions. <i>Journal of Molecular Structure</i> , 2012, 1017, 135-142.	1.8	7
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4417	Charge transfer in thin films of donor \rightarrow acceptor complexes studied by infrared spectroscopy. <i>Organic Electronics</i> , 2012, 13, 1237-1244.	1.4	24
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4442	Is There a Simple Way to Reliable Simulations of Infrared Spectra of Organic Compounds?. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6664-6670.	1.1	33
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4489	Molecular structure of tetraaqua adenosine 5â€“triphosphate aluminium(III) complex: A study involving Raman spectroscopy, theoretical DFT and potentiometry. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 105, 88-101.	2.0	11
4490	Structural and vibrational spectral investigations of melaminium maleate monohydrate by FTIR, FT-Raman and quantum chemical calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 107, 90-101.	2.0	15
4491	A density functional theory study of the regio- and stereoselectivity of the 1,3-dipolar cycloaddition of C-methyl substituted pyrazinium-3-olates with methyl acrylate and methyl methacrylate. <i>Computational and Theoretical Chemistry</i> , 2013, 1025, 58-66.	1.1	5
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4493	Electronic structure analysis of isomeric preferences of canonical and zwitterionic forms of lornoxicam. <i>Computational and Theoretical Chemistry</i> , 2013, 1023, 51-58.	1.1	4
4494	Nitro â†“E aci-nitro tautomerism and E/Z isomeric preferences of nitroethenediamine derivatives: a quantum chemical study. <i>RSC Advances</i> , 2013, 3, 25268.	1.7	12

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4498	Two-dimensional stimulated resonance Raman spectroscopy study of the Trp-cage peptide folding. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19457.	1.3	17
4499	A novel solid-state photochromic compound containing double heterocycles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 267, 55-59.	2.0	9
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4501	Structure and dynamics of the Th ⁴⁺ -ion in aqueous solution â€“ An ab initio QMCF-MD study. <i>Computational and Theoretical Chemistry</i> , 2013, 1022, 94-102.	1.1	16
4502	Structural analysis of a sulfo cation exchanger in the form of glycine. <i>Journal of Structural Chemistry</i> , 2013, 54, 668-675.	0.3	2
4503	Computational Study of the Fe(CN) ₂ CO Cofactor and Its Binding to HypC Protein. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13523-13533.	1.2	5
4504	Structure and spectral characteristics of diquat-cucurbituril complexes from density functional theory. <i>Journal of Molecular Modeling</i> , 2013, 19, 5113-5127.	0.8	7
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4507	Analysis of heat-treated graphite oxide by X-ray photoelectron spectroscopy. <i>Journal of Materials Science</i> , 2013, 48, 8171-8198.	1.7	147
4508	Molecular structure and vibrational spectral investigation of charge transfer NLO crystal Naphthalene Picrate for THz application. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 108, 256-267.	2.0	19
4509	Selected hydroxycoumarins as antioxidants in cells: physicochemical and reactive oxygen species scavenging studies. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 773-783.	0.9	14
4510	A theoretical study on 1,5-diazido-3-nitrazapentane (DANP) and 1,7-diazido-2,4,6-trinitrazaheptane (DATNH): molecular and crystal structures, thermodynamic and detonation properties, and pyrolysis mechanism. <i>Journal of Molecular Modeling</i> , 2013, 19, 5367-5376.	0.8	16
4511	Trastuzumab-Peptide Interactions: Mechanism and Application in Structure-Based Ligand Design. <i>International Journal of Molecular Sciences</i> , 2013, 14, 16836-16850.	1.8	21
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4515	Tautomerism, Raman, infrared and ultraviolet-visible spectra, vibrational assignments, MP2 and B3LYP calculations of dienol 3,4-dihydropyridine, keto-enol 3-hydroxypyridin-4-one and keto-enol dimer. <i>Journal of Molecular Structure</i> , 2013, 1043, 52-67.	1.8	7
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4518	Optimized CGenFF force-field parameters for acylphosphate and N-phosphonosulfonimidoyl functional groups. <i>Journal of Molecular Modeling</i> , 2013, 19, 5075-5087.	0.8	2
4519	Calculation of Vibrational Spectra of p-Ethylbenzenesulfonic Acid Hydrates. <i>Journal of Applied Spectroscopy</i> , 2013, 80, 499-504.	0.3	0
4520	Analysis of Vibrational Spectra of Pyridoxazinone Based on Density Functional Theory Calculations. <i>Journal of Applied Spectroscopy</i> , 2013, 80, 492-498.	0.3	11
4521	DFT, FT-Raman, and FT-IR investigations of 1-cyclopropylpiperazine. <i>Journal of Structural Chemistry</i> , 2013, 54, 1044-1054.	0.3	4
4522	A study of aliphatic amino acids using simulated vibrational circular dichroism and Raman optical activity spectra. <i>European Physical Journal D</i> , 2013, 67, 1.	0.6	21
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4525	Structural and Vibrational Properties of Imidazo[4,5-c]pyridine, a Structural Unit in Natural Products. <i>Journal of Natural Products</i> , 2013, 76, 1637-1646.	1.5	4
4526	Conformations of monoilydic diester triphenylphosphonium ylides. <i>Journal of Molecular Structure</i> , 2013, 1034, 51-56.	1.8	1
4527	Synthesis, structural characterization, and computational study of novel (E)-N-(1-p-tolylolethylidene)furan-2-carbohydrazide. <i>Journal of Molecular Structure</i> , 2013, 1051, 345-353.	1.8	1
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4541	Density functional theory characterization of phosphate and sulfate adsorption on Fe-(hydr)oxide: Reactivity, pH effect, estimation of Gibbs free energies, and topological analysis of hydrogen bonds. <i>Computational and Theoretical Chemistry</i> , 2013, 1005, 16-24.	1.1	54
4542	Structural changes of $\hat{\wedge}$ -carotene and some retinoid pharmaceuticals induced by environmental factors. <i>Journal of Molecular Structure</i> , 2013, 1037, 99-108.	1.8	9
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4545	Mechanistic Aspects of Ketene Formation Deduced from Femtosecond Photolysis of Diazocyclohexadienone, $\langle i \rangle o \langle /i \rangle$ -Phenylene Thioxocarbonate, and 2-Chlorophenol. <i>Journal of Organic Chemistry</i> , 2013, 78, 2026-2032.	1.7	21
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4548	Theoretical investigation of a novel high density cage compound 4,8,11,14,15 $\hat{\wedge}$ -pentanitro-2,6,9,13 $\hat{\wedge}$ -tetraoxa-4,8,11,14,15-pentaazaheptacyclo[5.5.1.1.3,11.15,9] pentadecane. <i>Journal of Molecular Modeling</i> , 2013, 19, 1019-1026.	0.8	12

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4550	Analysis of UV and vibrational spectra (FT-IR and FT-Raman) of hexachlorocyclotriphosphazene based on normal coordinate analysis, MP2 and DFT calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 105, 446-455.	2.0	9
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4556	Calculating excited state properties using Kohn-Sham density functional theory. <i>Journal of Chemical Physics</i> , 2013, 138, 064101.	1.2	47
4557	Crystal structures, infrared spectra, thermal stabilities and burning properties of RDX derivatives: A computational study. <i>Computational and Theoretical Chemistry</i> , 2013, 1018, 13-18.	1.1	7
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4563	Probing the “Venus fly-trap” parameters of cyclo-octadiene in selected ^η 2-diketonato complexes of platinum(II) and the nickel-triad from a spectroscopic, X-ray crystallographic and DFT study. <i>Polyhedron</i> , 2013, 50, 82-89.	1.0	5
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4565	One trinucleus dimethine cyanine dye: Experimental and theoretical studies on molecular structure as well as absorption and fluorescence properties. <i>Journal of Molecular Structure</i> , 2013, 1039, 84-93.	1.8	0
4566	4-Hydroxy-2,5-dimethylphenyl-benzophenone: Conformational stability, FT-IR and Raman investigation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 102, 386-392.	2.0	10

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4571	Ultrafast optical nonlinearity, electronic absorption, vibrational spectra and solvent effect studies of ninhydrin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 109, 331-343.	2.0	20
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4588	Synthesis and mesomorphic investigation of calamitic liquid crystalline system ethyl-[4-(4- α -decyloxy)benzoyloxy]-benzoate (4-EDBB): A temperature dependent micro-Raman study and DFT calculations. <i>Vibrational Spectroscopy</i> , 2013, 69, 40-48.	1.2	18
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5386	The computational prediction of Raman and ROA spectra of charged histidine tautomers in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27377-27389.	1.3	4
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5498	Molecular structure, FT IR, NMR, UV, NBO and HOMO-LUMO of 1-(3-(dimethylamino)propyl)-1-(4-fluorophenyl)-1,3-dihydroisobenzofuran-5-carbonitrile by DFT/B3LYP and PBEPBE methods with LanL2DZ and 6-311++G(d,2p) basis sets. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 180, 51-66.	2.0	46
5499	Synthesis, characterization, and DFT study of some transition metal complexes with Schiff base derived from 2-acetylthiophene and L-methionine. <i>Research on Chemical Intermediates</i> , 2017, 43, 4585-4610.	1.3	6
5500	Detection of surface-linked polychlorinated biphenyls using surface-enhanced Raman scattering spectroscopy. <i>Vibrational Spectroscopy</i> , 2017, 90, 1-6.	1.2	12
5501	Thorium and Uranium Hydride Phosphorus and Arsenic Bearing Molecules with Single and Double Actinide-Pnictogen and Bridged Agostic Hydrogen Bonds. <i>Inorganic Chemistry</i> , 2017, 56, 2949-2957.	1.9	11
5502	Theoretical study of the spectroscopic and nonlinear optical properties of trans- and cis-4-hydroxyazobenzene. <i>Journal of Molecular Modeling</i> , 2017, 23, 79.	0.8	8
5503	Infrared Spectra of Hexa-peri-hexabenzocoronene Cations: HBC ⁺ and HBC ²⁺ . <i>Astrophysical Journal</i> , 2017, 836, 28.	1.6	18
5504	Experimental and theoretical IR study of methyl thioglycolate, CH ₃ OC(O)CH ₂ SH, in different phases: Evidence of a dimer formation. <i>Journal of Molecular Structure</i> , 2017, 1139, 160-165.	1.8	4
5505	Harmonic Vibrational Frequencies: Approximate Global Scaling Factors for TPSS, M06, and M11 Functional Families Using Several Common Basis Sets. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2265-2273.	1.1	141
5506	Fingerprints of Through-Bond and Through-Space Exciton and Charge-Transfer Electron Delocalization in Linearly Extended [2.2]Paracyclophanes. <i>Journal of the American Chemical Society</i> , 2017, 139, 3095-3105.	6.6	34
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5508	Fourier-transform infrared spectroscopy (FTIR) analysis of triclinic and hexagonal birnessites. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 178, 32-46.	2.0	40
5509	Identification of Al ₁₃ on the Colloid Surface Using Surface-Enhanced Raman Spectroscopy. <i>Environmental Science & Technology</i> , 2017, 51, 2899-2906.	4.6	13
5510	Drude polarizable force field for aliphatic ketones and aldehydes, and their associated acyclic carbohydrates. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 349-363.	1.3	16
5511	Vibrational Frequencies of Fractionally Charged Molecular Species: Benchmarking DFT Results against ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2282-2287.	1.1	4
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5513	Identifying Atomic Scale Structure in Undoped/Doped Semicrystalline P3HT Using Inelastic Neutron Scattering. <i>Macromolecules</i> , 2017, 50, 2424-2435.	2.2	52
5514	Structural and vibrational analyses of new potential anticancer drug 2-(phenylmethyl)-2-azaspiro[5.11]heptadecane-1,3,7-trione. <i>Journal of Molecular Structure</i> , 2017, 1137, 97-108.	1.8	2

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5546	The vibrational properties of the bee-killer imidacloprid insecticide: A molecular description. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 185, 245-255.	2.0	20
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5550	Spectroscopic and quantum chemical studies of interaction between the alginic acid and Fe ₃ O ₄ nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 182, 1-7.	2.0	4

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5555	Raman Spectroscopic Signature Markers of Dopamine-Human Dopamine Transporter Interaction in Living Cells. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1510-1518.	1.7	27
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5562	Spectroscopic (FT-IR, FT-Raman, UV, ¹ H and ¹³ C NMR) profiling and computational studies on methyl 5-methoxy-1H-indole-2-carboxylate: A potential precursor to biologically active molecules. <i>Journal of Molecular Structure</i> , 2017, 1133, 199-210.	1.8	19
5563	Theoretical Calculation of Boron Isotopic Separation Factors in Ion-Exchange Chromatography. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 525-531.	1.0	6
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6485	Determination of the molecular structure and spectroscopic properties of capsaicin. <i>Radiation Physics and Chemistry</i> , 2023, 208, 110879.	1.4	4
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