

Suryaprakash Nagarajarao

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Intramolecular Hydrogen Bonding Involving Organic Fluorine: NMR Investigations Corroborated by DFT-Based Theoretical Calculations. <i>Molecules</i> , 2017, 22, 423.	1.7	55
2	Quick re-introduction of selective scalar interactions in a pure-shift NMR spectrum. <i>Chemical Communications</i> , 2014, 50, 15597-15600.	2.2	50
3	N ⁺ -H ⁺ F hydrogen bonds in fluorinated benzanilides: NMR and DFT study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13232.	1.3	49
4	Engagement of CF ₃ Group in N ⁺ -H ⁺ F ⁺ C Hydrogen Bond in the Solution State: NMR Spectroscopy and MD Simulation Studies. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1123-1129.	1.2	42
5	Sensitivity enhancement in slice-selective NMR experiments through polarization sharing. <i>Chemical Communications</i> , 2014, 50, 8550-8553.	2.2	31
6	Ternary ion-pair complexation: a protocol for chiral discrimination and the assignment of absolute configuration of chiral hydroxy acids. <i>New Journal of Chemistry</i> , 2013, 37, 4025.	1.4	29
7	In situ approach for testing the enantiopurity of chiral amines and amino alcohols by ¹ H NMR. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 495-502.	1.5	29
8	Clean G-SERF an NMR experiment for the complete eradication of axial peaks and undesired couplings from the complex spectrum. <i>RSC Advances</i> , 2017, 7, 735-741.	1.7	25
9	¹ J _{CH} -Edited Pure Shift NMR for the Facile Measurement of ¹ J _{CH} for Specific Protons. <i>ChemPhysChem</i> , 2015, 16, 1079-1082.	1.0	24
10	Pure shift edited ultra high resolution NMR spectrum with complete eradication of axial peaks and unwanted couplings. <i>Journal of Magnetic Resonance</i> , 2017, 279, 74-80.	1.2	24
11	Organic fluorine involved intramolecular hydrogen bonds in the derivatives of imides: NMR evidence corroborated by DFT based theoretical calculations. <i>RSC Advances</i> , 2015, 5, 86013-86022.	1.7	21
12	Pure shift NMR approach for fast and accurate extraction of heteronuclear couplings. <i>RSC Advances</i> , 2014, 4, 15018-15021.	1.7	20
13	Intra-molecular hydrogen bonding with organic fluorine in the solution state: Deriving evidence by a two dimensional NMR experiment. <i>Chemical Physics Letters</i> , 2012, 525-526, 129-133.	1.2	18
14	Intramolecular hydrogen bond directed stable conformations of benzoyl phenyl oxalamides: unambiguous evidence from extensive NMR studies and DFT-based computations. <i>RSC Advances</i> , 2018, 8, 11230-11240.	1.7	18
15	Intramolecular hydrogen bonds involving organic fluorine in the derivatives of hydrazides: an NMR investigation substantiated by DFT based theoretical calculations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15226-15235.	1.3	17
16	Three centered hydrogen bonds of the type C ⁺ -H(N) ⁺ -C ⁺ in diphenyloxamide derivatives involving halogens and a rotating CF ₃ group: NMR, QTAIM, NCI and NBO studies. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7528-7536.	1.3	16
17	Intramolecular HB Interactions Evidenced in Dibenzoyl Oxalamide Derivatives: NMR, QTAIM, and NCI Studies. <i>Journal of Physical Chemistry A</i> , 2018, 122, 199-208.	1.1	15
18	A simple and rapid approach for testing enantiopurity of hydroxy acids and their derivatives using ¹ H NMR spectroscopy. <i>RSC Advances</i> , 2015, 5, 67277-67283.	1.7	14

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19	Quick measurement of ^1H - ^{19}F scalar couplings from the complex NMR spectra by real-time spin edition. <i>Chemical Physics Letters</i> , 2015, 640, 157-160.	1.2	13
20	Two- and Three-Centered Hydrogen Bonds Involving Organic Fluorine Stabilize Conformations of Hydrazide Halo Derivatives: NMR, IR, QAIM, NCI, and Theoretical Evidence. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7810-7816.	1.1	13
21	Assignment of the absolute configuration of hydroxy acids using ^1H NMR spectroscopy: a simple and rapid approach. <i>Tetrahedron: Asymmetry</i> , 2017, 28, 250-256.	1.8	9
22	Intramolecular hydrogen bond directed distribution of conformational populations in the derivatives of N -benzylidenebenzohydrazide. <i>New Journal of Chemistry</i> , 2019, 43, 13134-13142.	1.4	9
23	Facile synthesis of Graphene Oxide/Double-stranded DNA composite liquid crystals and Hydrogels. <i>Journal of Chemical Sciences</i> , 2016, 128, 325-330.	0.7	8
24	Retention of strong intramolecular hydrogen bonds in high polarity solvents in binaphthalene-benzamide derivatives: extensive NMR studies. <i>RSC Advances</i> , 2019, 9, 32759-32770.	1.7	8
25	Study of H/D exchange rates to derive the strength of intramolecular hydrogen bonds in halo substituted organic building blocks: An NMR spectroscopic investigation. <i>Chemical Physics Letters</i> , 2015, 639, 254-260.	1.2	7
26	Intramolecular Hydrogen Bonding Appetency for Conformational Penchants in Oxalohydrazide Fluoro Derivatives: NMR, MD, QAIM, and NCI Studies. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2703-2713.	1.1	7
27	Orchestrated approaches using pure shift NMR: Extraction of spectral parameters, ultra-high resolution, and sensitivity enhancement. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 893-909.	1.1	6
28	C-HETSERF: distinction of cis/trans-isomers and measurement of long range couplings between chemically equivalent nuclei in polycyclic aromatic hydrocarbons. <i>RSC Advances</i> , 2012, 2, 12915.	1.7	5
29	A three-component protocol for the enantiodifferentiation of amines using triphenyl borate and BINOL: is it an ion pair or an amine-coordinated complex?. <i>Tetrahedron: Asymmetry</i> , 2014, 25, 705-708.	1.8	5
30	A simple ternary ion-pair complexation protocol for testing the enantiopurity and the absolute configurational analysis of acid and ester derivatives. <i>New Journal of Chemistry</i> , 2018, 42, 9920-9929.	1.4	3
31	Identification of Heroin in Street Doses Using 1D-TOCSY Nuclear Magnetic Resonance. <i>Journal of Forensic Sciences</i> , 2000, 45, 963-967.	0.9	3
32	Competing HB acceptors: an extensive NMR investigations corroborated by single crystal XRD and DFT calculations. <i>RSC Advances</i> , 2021, 11, 15195-15202.	1.7	2