

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69 papers	1,478 citations	20 h-index	36 g-index
69 ext. papers	1,528 ext. citations	2.9 avg, IF	4 L-index

#	Paper	IF	Citations
69	Dynamics of the n-decylammonium chains in the perovskite-type layer structure compound (C <sub>10</sub> H <sub>21</sub> NH <sub>3</sub> ) <sub>2</sub> CdCl <sub>4</sub> . <i>Journal of Chemical Physics</i> , <b>1979</b> , 71, 2118	3.9	170
68	NMR study of disorder in BaTiO <sub>3</sub> and SrTiO <sub>3</sub> . <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	126
67	A New Highly Sensitive 1H-14N Nuclear-Quadrupole Double-Resonance Technique. <i>Journal of Magnetic Resonance Series A</i> , <b>1994</b> , 106, 214-222		78
66	Proton NMR study of the structural phase transitions in perovskite layer compounds: (C <sub>n</sub> H <sub>2n+1</sub> NH <sub>3</sub> ) <sub>2</sub> CdCl <sub>4</sub> and (NH <sub>3</sub> (CH <sub>2</sub> ) <sub>n</sub> NH <sub>3</sub> ) CdCl <sub>4</sub> . <i>Journal of Chemical Physics</i> , <b>1977</b> , 66, 278-287	3.9	78
65	14N NQR Spectroscopy of Some Amino Acids and Nucleic Bases via Double Resonance in the Laboratory Frame. <i>Journal of Chemical Physics</i> , <b>1972</b> , 57, 5087-5093	3.9	72
64	13C NMR in ferroelectric smectic liquid crystals. <i>Ferroelectrics</i> , <b>1984</b> , 58, 115-132	0.6	49
63	14N quadrupole resonance of some liquid crystalline compounds in the solid. <i>Journal of Chemical Physics</i> , <b>1976</b> , 65, 2887-2891	3.9	46
62	Spin lattice relaxation mechanisms in the smectic phases of TBBA. <i>Journal of Chemical Physics</i> , <b>1978</b> , 68, 303	3.9	46
61	1H -14N Nuclear Quadrupole Double Resonance with Multiple Frequency Sweeps. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>1994</b> , 49, 31-34	1.4	39
60	N14 nuclear-quadrupole-resonance study of orientational ordering in the smectic phases of achiral TBBA and chiral TBACA. <i>Physical Review A</i> , <b>1978</b> , 17, 1149-1155	2.6	39
59	17O NQR study of the antiferroelectric phase transition in TiH <sub>2</sub> PO <sub>4</sub> . <i>Journal of Chemical Physics</i> , <b>1988</b> , 88, 3260-3262	3.9	38
58	Nuclear quadrupole double resonance techniques for the detection of explosives and drugs. <i>Applied Magnetic Resonance</i> , <b>2004</b> , 25, 523-534	0.8	35
57	P31 Chemical-Shift Study of the Ferroelectric Transition in KD <sub>2</sub> PO <sub>4</sub> . <i>Physical Review Letters</i> , <b>1977</b> , 38, 92-95	7.4	35
56	Hydrogen bonding in 1,2-diazine-chloranilic acid (2 : 1) studied by a 14N nuclear quadrupole coupling tensor and multi-temperature X-ray diffraction. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 2281-6	3.6	33
55	14N nuclear quadrupole resonance of some sulfa drugs. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2006</b> , 30, 61-8	3.1	33
54	Nuclear magnetic double resonance based on strong rf magnetic-field-induced coupling between spin systems. <i>Physical Review B</i> , <b>1975</b> , 11, 27-36	3.3	33
53	Two-dimensional 13C NMR study of orientational ordering in solid C <sub>60</sub> . <i>Physical Review B</i> , <b>1994</b> , 49, 4993-5002	3.5	31

52	NMR in incommensurate systems: non-local effects. <i>Journal of Physics C: Solid State Physics</i> , <b>1985</b> , 18, 2313-2330		28
51	Phase transition and ring-puckering motion in a metal-organic perovskite [(CH <sub>2</sub> ) <sub>3</sub> NH <sub>2</sub> ][Zn(HCOO) <sub>3</sub> ]. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 12422-8	2.8	21
50	Deuteron quadrupole coupling in KDF2. <i>Chemical Physics Letters</i> , <b>1977</b> , 48, 576-578	2.5	21
49	Tautomerism and possible polymorphism in solid hydroxypyridines and pyridones studied by <sup>14</sup> N NQR. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 1651-8	2.8	20
48	Polarization enhanced single shot <sup>14</sup> N nuclear quadrupole resonance detection of trinitrotoluene at room temperature. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 123509	3.4	20
47	Beltlike C(60)(-) electron spin density distribution in the organic ferromagnet TDAE-C(60). <i>Physical Review Letters</i> , <b>2002</b> , 88, 086402	7.4	20
46	<sup>17</sup> O quadrupole coupling in CO <sub>2</sub> hydrogen bonds. <i>Chemical Physics</i> , <b>1998</b> , 231, 81-86	2.3	19
45	( <sup>14</sup> N NQR, ( <sup>1</sup> H NMR and DFT/QTAIM study of hydrogen bonding and polymorphism in selected solid 1,3,4-thiadiazole derivatives. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 13007-19	3.6	18
44	Application of <sup>14</sup> N NQR to the study of piroxicam polymorphism. <i>Journal of Pharmaceutical Sciences</i> , <b>2010</b> , 99, 4857-65	3.9	17
43	Electron density distribution in 2-nitro-5-methylimidazole derivatives studied by NMR/ <sup>14</sup> NQR double resonance. <i>Magnetic Resonance in Chemistry</i> , <b>1999</b> , 37, 878-880	2.1	17
42	Nuclear quadrupole resonance characterization of carbamazepine cocrystals. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2012</b> , 47-48, 47-52	3.1	15
41	New Methods for Detection of <sup>14</sup> N NQR Frequencies. <i>Applied Magnetic Resonance</i> , <b>2012</b> , 43, 469-484	0.8	15
40	<sup>14</sup> N NQR in the tetrazole family. <i>Chemical Physics</i> , <b>2009</b> , 364, 98-104	2.3	15
39	An insight into prototropism and supramolecular motifs in solid-state structures of allopurinol, hypoxanthine, xanthine, and uric acid. A <sup>1</sup> H- <sup>14</sup> N NQDR spectroscopy, hybrid DFT/QTAIM, and Hirshfeld surface-based study. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 10837-53	3.4	14
38	Topology of the interactions pattern in pharmaceutically relevant polymorphs of methylxanthines (caffeine, theobromine, and theophiline): combined experimental ( <sup>1</sup> H- <sup>14</sup> N nuclear quadrupole double resonance) and computational (DFT and Hirshfeld-based) study. <i>Journal of Chemical Information and Modeling</i> , <b>2014</b> , 54, 2570-84	6.1	14
37	Improved <sup>14</sup> N nuclear quadrupole resonance detection of trinitrotoluene using polarization transfer from protons to <sup>14</sup> N nuclei. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 084903	2.5	14
36	Sr <sup>87</sup> NMR of phase transitions in SrTi <sub>16</sub> O <sub>3</sub> and SrTi <sub>18</sub> O <sub>3</sub> . <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	14
35	Polymorphism and disorder in natural active ingredients. Low and high-temperature phases of anhydrous caffeine: Spectroscopic (( <sup>1</sup> H-( <sup>14</sup> N NMR-NQR/( <sup>14</sup> N NQR) and solid-state computational modelling (DFT/QTAIM/RDS) study. <i>European Journal of Pharmaceutical Sciences</i> , <b>2016</b> , 85, 18-30	5.1	13

34	Supramolecular synthon pattern in solid clioquinol and cloxiquine (APIs of antibacterial, antifungal, antiangiogenic and antituberculosis drugs) studied by $^{13}\text{C}$ NQR, $^1\text{H}$ - $^{13}\text{C}$ and $^1\text{H}$ - $^{15}\text{N}$ NQDR and DFT/QTAIM. <i>Journal of Molecular Modeling</i> , <b>2011</b> , 17, 1781-800	2	13
33	A comparative study of the hydrogen-bonding patterns and prototropism in solid 2-thiocytosine (potential antileukemic agent) and cytosine, as studied by $^1\text{H}$ - $^{14}\text{N}$ NQDR and QTAIM/ DFT. <i>Journal of Molecular Modeling</i> , <b>2012</b> , 18, 11-26	2	11
32	$^{17}\text{O}$ NQR and $^{13}\text{C}$ NMR study of hydrogen-bonded organic ferroelectric croconic acid. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 2091-2096	1.3	11
31	Electron configuration and hydrogen-bonding pattern in several thymine and uracil analogues studied by $^1\text{H}$ - $^{14}\text{N}$ NQDR and DFT/QTAIM. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 8793-804	3.4	10
30	A $^{14}\text{N}$ nuclear quadrupole resonance study of phase transitions and molecular dynamics in hydrogen bonded organic antiferroelectrics 55DMBP-H <sub>2</sub> ca and 1,5-NPD-H <sub>2</sub> ca. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 9165-72	3.6	10
29	$^{17}\text{O}$ and $^{14}\text{N}$ quadrupole coupling and the mechanism of the ferroelectric transition in diglycine nitrate. <i>Ferroelectrics, Letters Section</i> , <b>1986</b> , 6, 93-102	0.5	10
28	$^{15}\text{N}$ nuclear quadrupole resonance study of polymorphism in famotidine. <i>Journal of Pharmaceutical Sciences</i> , <b>2014</b> , 103, 2704-2709	3.9	9
27	Correlation between proton transfer and $(^{35}\text{Cl})$ NQR frequency as well as molecular geometry of chloranilic acid in co-crystals with some organic bases. <i>Magnetic Resonance in Chemistry</i> , <b>2010</b> , 48, 531-6	2.1	9
26	NQR investigation and characterization of cocrystals and crystal polymorphs. <i>Hyperfine Interactions</i> , <b>2013</b> , 222, 1-13	0.8	8
25	Hydrogen bonds in cocrystals and salts of 2-amino-4,6-dimethylpyrimidine and carboxylic acids studied by nuclear quadrupole resonance. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 6946-56	3.4	8
24	Nuclear quadrupole resonance study of hydrogen bonded solid materials. <i>Acta Chimica Slovenica</i> , <b>2011</b> , 58, 471-7	1.9	8
23	Nuclear Quadrupole Resonance Study of Hydrogen Bonds in Solid 2-Methylbenzimidazole and 5,6-Dimethylbenzimidazole. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 20193-20200	3.8	7
22	$^{14}\text{N}$ NQR and proton NMR study of ferroelectric phase transition and proton exchange in organic ferroelectric (H <sub>2</sub> -TPPZ)(Hca) <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 3254-9	3.6	7
21	Polymorphism and Thermal Stability of Natural Active Ingredients. 3,3'-Diindolylmethane (Chemopreventive and Chemotherapeutic) Studied by a Combined X-ray, $^1\text{H}$ - $^{14}\text{N}$ NMR-NQR, Differential Scanning Calorimetry, and Solid-State DFT/3D HS/QTAIM/RDS Computational Approach. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 4336-4348	3.5	6
20	Hydrogen bonding and proton transfer in cocrystals of 4,4'-bipyridyl and organic acids studied using nuclear quadrupole resonance. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 18141-7	3.6	6
19	Crystallization of an amorphous solid studied by nuclear quadrupole double resonance. <i>Chemical Physics</i> , <b>2013</b> , 421, 44-48	2.3	6
18	Nuclear quadrupole double resonance study of ferroelectric phase transitions. <i>Ferroelectrics</i> , <b>1988</b> , 78, 223-230	0.6	6
17	N NQR spectroscopy reveals the proton position in N-HN bonds: a case study with proton sponges. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 21, 306-313	3.6	5

16	Nuclear Quadrupole Resonance (NQR) A Useful Spectroscopic Tool in Pharmacy for the Study of Polymorphism. <i>Crystals</i> , <b>2020</b> , 10, 450	2.3	5
15	Nuclear quadrupole resonance investigation of hydrogen bonding in some cocrystals of 2,3,5,6-tetramethylpyrazine and carboxylic acids. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 996-1002	3.4	4
14	Phonon-driven proton transfer in 3,5-pyridine dicarboxylic acid studied by <sup>2</sup> H, <sup>14</sup> N, and <sup>17</sup> O nuclear quadrupole resonance. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 11652-6	2.8	4
13	NMR and NQR study of polymorphism in carbamazepine. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2020</b> , 107, 101653	3.1	3
12	Unusual electron charge density in carboxylic acid. <sup>17</sup> O quadrupole coupling in cis-cyclobutane-1,2-dicarboxylic acid. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 7139-46	2.8	3
11	Impact of structural differences in carcinopreventive agents indole-3-carbinol and 3,3'-diindolylmethane on biological activity. An X-ray, <sup>1</sup> H- <sup>15</sup> N NQDR, <sup>13</sup> C CP/MAS NMR, and periodic hybrid DFT study. <i>European Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 77, 141-53	5.1	2
10	T1 rho in nuclear quadrupole resonance: a theoretical study. <i>Solid State Nuclear Magnetic Resonance</i> , <b>1997</b> , 8, 207-17	3.1	2
9	<sup>14</sup> N NQR Study of Diphenylamine. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , <b>2008</b> , 63, 88-92	1.4	2
8	Polarization Enhanced Nqr Detection at Low Frequencies. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2009</b> , 41-56	0.2	2
7	( <sup>1</sup> H-( <sup>14</sup> N) cross-relaxation spectrum analysis in sildenafil and sildenafil citrate. <i>Solid State Nuclear Magnetic Resonance</i> , <b>2016</b> , 78, 16-23	3.1	1
6	Nuclear Quadrupole Resonance, Theory <b>2017</b> , 447-455		1
5	Unusual case of desmotropy. Combined spectroscopy ( <sup>1</sup> H- <sup>15</sup> N NQDR) and quantum chemistry (periodic hybrid DFT/QTAIM and Hirshfeld surface-based) study of solid dacarbazine (anti-neoplastic). <i>Solid State Nuclear Magnetic Resonance</i> , <b>2015</b> , 68-69, 13-24	3.1	1
4	Nuclear Quadrupole Resonance, Theory* <b>1999</b> , 1975-1983		1
3	Nuclear quadrupole resonance supported by periodic quantum calculations: a sensitive tool for precise structural characterization of short hydrogen bonds. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 27681-27689	3.6	1
2	Double Resonance Detection of (Mainly Nitrogen) Nqr Frequencies in Explosives and Drugs. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2009</b> , 139-158	0.2	
1	NQR investigation and characterization of cocrystals and crystal polymorphs <b>2012</b> , 245-257		