

# Janez Seliger

## List of Publications by Year in descending order

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68  
papers

1,579  
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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	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> . Journal of Chemical Physics, 1979, 71, 2118.	1.2	178
2	NMR study of disorder in BaTiO <sub>3</sub> and SrTiO <sub>3</sub> . Physical Review B, 2005, 71, .	1.1	135
3	A New Highly Sensitive <sup>1</sup> H- <sup>14</sup> N Nuclear-Quadrupole Double-Resonance Technique. Journal of Magnetic Resonance Series A, 1994, 106, 214-222.	1.6	82
4	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> ) <sub>n</sub> (CH <sub>2</sub> ) <sub>n</sub> (NH <sub>3</sub> ) CdCl <sub>4</sub> . Journal of Chemical Physics, 1977, 66, 278-287.	1.2	80
5	<sup>14</sup> N NQR Spectroscopy of Some Amino Acids and Nucleic Bases via Double Resonance in the Laboratory Frame. Journal of Chemical Physics, 1972, 57, 5087-5093.	1.2	77
6	<sup>13</sup> C NMR in ferroelectric smectic liquid crystals. Ferroelectrics, 1984, 58, 115-132.	0.3	52
7	Spin-lattice relaxation mechanisms in the smectic phases of TBBA. Journal of Chemical Physics, 1978, 68, 303.	1.2	50
8	<sup>14</sup> N quadrupole resonance of some liquid crystalline compounds in the solid. Journal of Chemical Physics, 1976, 65, 2887-2891.	1.2	46
9	<sup>1</sup> H - <sup>14</sup> N Nuclear Quadrupole Double Resonance with Multiple Frequency Sweeps. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1994, 49, 31-34.	0.7	41
10	<sup>14</sup> N nuclear-quadrupole-resonance study of orientational ordering in the smectic phases of achiral TBBA and chiral TBACA. Physical Review A, 1978, 17, 1149-1155.	1.0	40
11	<sup>17</sup> O NQR study of the antiferroelectric phase transition in TiH <sub>2</sub> PO <sub>4</sub> . Journal of Chemical Physics, 1988, 88, 3260-3262.	1.2	39
12	<sup>31</sup> P Chemical-Shift Study of the Ferroelectric Transition in KD <sub>2</sub> PO <sub>4</sub> . Physical Review Letters, 1977, 38, 92-95.	2.9	37
13	Nuclear quadrupole double resonance techniques for the detection of explosives and drugs. Applied Magnetic Resonance, 2004, 25, 523-534.	0.6	37
14	Hydrogen bonding in 1,2-diazine-chloranilic acid (2-aminopyridine) studied by a <sup>14</sup> N nuclear quadrupole coupling tensor and multi-temperature X-ray diffraction. Physical Chemistry Chemical Physics, 2009, 11, 2281.	1.3	37
15	<sup>14</sup> N nuclear quadrupole resonance of some sulfa drugs. Solid State Nuclear Magnetic Resonance, 2006, 30, 61-68.	1.5	34
16	Nuclear magnetic double resonance based on strong rf magnetic-field-induced coupling between spin systems. Physical Review B, 1975, 11, 27-36.	1.1	33
17	Two-dimensional <sup>13</sup> C NMR study of orientational ordering in solid C <sub>60</sub> . Physical Review B, 1994, 49, 4993-5002.	1.1	32
18	NMR in incommensurate systems: non-local effects. Journal of Physics C: Solid State Physics, 1985, 18, 2313-2330.	1.5	28

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19	Deuteron quadrupole coupling in KDF2. <i>Chemical Physics Letters</i> , 1977, 48, 576-578.	1.2	23
20	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> , 2012, 116, 12422-12428.	1.1	23
21	Beltlike C60 <sup>+</sup> Electron Spin Density Distribution in the Organic Ferromagnet TDAE-C60. <i>Physical Review Letters</i> , 2002, 88, 086402.	2.9	21
22	Polarization enhanced <sup>14</sup> N nuclear quadrupole resonance detection of trinitrotoluene at room temperature. <i>Applied Physics Letters</i> , 2006, 89, 123509.	1.5	21
23	quadrupole coupling in C-H...C hydrogen bonds. <i>Chemical Physics</i> , 1998, 231, 81-86.	0.9	20
24	Tautomerism and Possible Polymorphism in Solid Hydroxypyridines and Pyridones Studied by <sup>14</sup> N NQR. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1651-1658.	1.1	20
25	Application of <sup>14</sup> N NQR to the Study of Piroxicam Polymorphism. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 4857-4865.	1.6	19
26	Electron density distribution in 2-nitro-5-methylimidazole derivatives studied by NMR-NQR double resonance. <i>Magnetic Resonance in Chemistry</i> , 1999, 37, 878-880.	1.1	18
27	<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> , 2010, 12, 13007.	1.3	18
28	An Insight into Prototropism and Supramolecular Motifs in Solid-State Structures of Allopurinol, Hypoxanthine, Xanthine, and Uric Acid. A <sup>14</sup> N NQDR Spectroscopy, Hybrid DFT/QTAIM, and Hirshfeld Surface-Based Study. <i>Journal of Physical Chemistry B</i> , 2014, 118, 10837-10853.	1.2	18
29	<sup>14</sup> N NQR in the tetrazole family. <i>Chemical Physics</i> , 2009, 364, 98-104.	0.9	17
30	Topology of the Interactions Pattern in Pharmaceutically Relevant Polymorphs of Methylxanthines (Caffeine, Theobromine, and Theophiline): Combined Experimental ( <sup>14</sup> N) Tj ETQq 0,0,0 rgBT /Overlock 17	2.5	17
31	Supramolecular synthon pattern in solid cloquinol and cloxiquine (APIs of antibacterial, antifungal,) Tj ETQq 1 1 0.784314 rgBT /Overlock 17 <i>Journal of Molecular Modeling</i> , 2011, 17, 1781-1800.	0.8	15
32	Nuclear quadrupole resonance characterization of carbamazepine cocrystals. <i>Solid State Nuclear Magnetic Resonance</i> , 2012, 47-48, 47-52.	1.5	15
33	New Methods for Detection of <sup>14</sup> N NQR Frequencies. <i>Applied Magnetic Resonance</i> , 2012, 43, 469-484.	0.6	15
34	<sup>87</sup> Sr 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> , 2005, 72, .	1.1	14
35	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> , 2007, 102, .	1.1	14
36	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- <sup>14</sup> N NQR/ <sup>14</sup> N NQR) and solid-state computational modelling (DFT/QTAIM/RDS) study. <i>European Journal of Pharmaceutical Sciences</i> , 2016, 85, 18-30.	1.9	14

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37	<sup>17</sup> O NQR and <sup>13</sup> C NMR study of hydrogen-bonded organic ferroelectric croconic acid. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2091-2096.	0.7	12
38	A comparative study of the hydrogen-bonding patterns and prototropism in solid 2-thiocytosine (potential antileukemic agent) and cytosine, as studied by <sup>1</sup> H- <sup>14</sup> N NQDR and QAIM/ DFT. <i>Journal of Molecular Modeling</i> , 2012, 18, 11-26.	0.8	12
39	<sup>17</sup> O and <sup>14</sup> N quadrupole coupling and the mechanism of the ferroelectric transition in diglycine nitrate. <i>Ferroelectrics, Letters Section</i> , 1986, 6, 93-102.	0.4	11
40	Nuclear Quadrupole Resonance (NQR) – A Useful Spectroscopic Tool in Pharmacy for the Study of Polymorphism. <i>Crystals</i> , 2020, 10, 450.	1.0	11
41	A <sup>14</sup> 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> , 2011, 13, 9165.	1.3	10
42	Electron Configuration and Hydrogen-Bonding Pattern in Several Thymine and Uracil Analogues Studied by <sup>1</sup> H- <sup>14</sup> N NQDR and DFT/QAIM. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8793-8804.	1.2	10
43	Correlation between proton transfer and <sup>35</sup> Cl NQR frequency as well as molecular geometry of chloranilic acid in co-crystals with some organic bases. <i>Magnetic Resonance in Chemistry</i> , 2010, 48, 531-536.	1.1	9
44	NQR investigation and characterization of cocrystals and crystal polymorphs. <i>Hyperfine Interactions</i> , 2013, 222, 1-13.	0.2	9
45	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> , 2013, 117, 6946-6956.	1.2	9
46	<sup>14</sup> N Nuclear Quadrupole Resonance Study of Polymorphism in Famotidine. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 2704-2709.	1.6	9
47	Polymorphism and Thermal Stability of Natural Active Ingredients. 3,3-Diindolylmethane (Chemopreventive and Chemotherapeutic) Studied by a Combined X-ray, <sup>1</sup> H- <sup>14</sup> N NMR-NQR, Differential Scanning Calorimetry, and Solid-State DFT/3D HS/QAIM/RDS Computational Approach. <i>Crystal Growth and Design</i> , 2016, 16, 4336-4348.	1.4	9
48	Nuclear quadrupole resonance study of hydrogen bonded solid materials. <i>Acta Chimica Slovenica</i> , 2011, 58, 471-7.	0.2	9
49	<sup>14</sup> 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> , 2010, 12, 3254.	1.3	8
50	Nuclear quadrupole double resonance study of ferroelectric phase transitions. <i>Ferroelectrics</i> , 1988, 78, 223-230.	0.3	7
51	Nuclear Quadrupole Resonance Study of Hydrogen Bonds in Solid 2-Methylbenzimidazole and 5,6-Dimethylbenzimidazole. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20193-20200.	1.5	7
52	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> , 2014, 16, 18141-18147.	1.3	7
53	NMR and NQR study of polymorphism in carbamazepine. <i>Solid State Nuclear Magnetic Resonance</i> , 2020, 107, 101653.	1.5	7
54	Crystallization of an amorphous solid studied by nuclear quadrupole double resonance. <i>Chemical Physics</i> , 2013, 421, 44-48.	0.9	6

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55	<sup>14</sup> N NQR spectroscopy reveals the proton position in N-H bonds: a case study with proton sponges. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 306-313.	1.3	6
56	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> , 2011, 115, 11652-11656.	1.1	5
57	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> , 2014, 118, 996-1002.	1.2	4
58	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>14</sup> N NQDR, <sup>13</sup> C CP/MAS NMR, and periodic hybrid DFT study. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 77, 141-153.	1.9	4
59	Unusual Electron Charge Density in Carboxylic Acid. <sup>17</sup> O Quadrupole Coupling in <i>cis</i> -Cyclobutane-1,2-dicarboxylic Acid. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7139-7146.	1.1	3
60	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> , 2020, 22, 27681-27689.	1.3	3
61	T <sub>1</sub> in nuclear quadrupole resonance: a theoretical study. <i>Solid State Nuclear Magnetic Resonance</i> , 1997, 8, 207-217.	1.5	2
62	<sup>14</sup> N NQR Study of Diphenylamine. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2008, 63, 88-92.	0.7	2
63	<sup>1</sup> H- <sup>14</sup> N cross-relaxation spectrum analysis in sildenafil and sildenafil citrate. <i>Solid State Nuclear Magnetic Resonance</i> , 2016, 78, 16-23.	1.5	2
64	Nuclear Quadrupole Resonance, Theory. , 2017, , 447-455.		2
65	Nuclear Quadrupole Resonance, Theory*. , 1999, , 1975-1983.		1
66	Unusual case of desmotropy. Combined spectroscopy ( <sup>1</sup> H- <sup>14</sup> N NQDR) and quantum chemistry (periodic) Tj ETQq0 0 0 rgBT /Overlock 1 State Nuclear Magnetic Resonance, 2015, 68-69, 13-24.	1.5	1
67	Double Resonance Detection of (Mainly Nitrogen) Nqr Frequencies in Explosives and Drugs. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 139-158.	0.2	0
68	NQR investigation and characterization of cocrystals and crystal polymorphs. , 2012, , 245-257.		0