Janez Seliger

List of Publications by Year
in descending order

68 papers	1,579 citations	331670 21 h-index	330143 37 g-index
69 all docs	69 docs citations	69 times ranked	911 citing authors

#	Article	IF	Citations
1	Dynamics of the n-decylammonium chains in the perovskite-type layer structure compound (C10H21NH3)2CdCl4. Journal of Chemical Physics, 1979, 71, 2118.	3.0	178
2	NMR study of disorder inBaTiO3andSrTiO3. Physical Review B, 2005, 71, .	3.2	135
3	A New Highly Sensitive 1H-14N Nuclear-Quandrupole 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: (CnH2n+1NH3)2CdCl4and (NH3â€“(CH2)nâ€“NH3) CdCl4. Journal of Chemical Physics, 1977, 66, 278-287.	3.0	80
5	14N NQR Spectroscopy of Some Amino Acids and Nucleic Bases via Double Resonance in the Laboratory Frame. Journal of Chemical Physics, 1972, 57, 5087-5093.	3.0	77
6	¹³C NMR in ferroelectric smectic liquid crystals. Ferroelectrics, 1984, 58, 115-132.	0.6	52
7	Spinâ€“lattice relaxation mechanisms in the smectic phases of TBBA. Journal of Chemical Physics, 1978, 68, 303.	3.0	50
8	14N quadrupole resonance of some liquid crystalline compounds in the solid. Journal of Chemical Physics, 1976, 65, 2887-2891.	3.0	46
9	¹H -¹⁴N Nuclear Quadrupole Double Resonance with Multiple Frequency Sweeps. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1994, 49, 31-34.	1.5	41
10	N14nuclear-quadrupole-resonance study of orientational ordering in the smectic phases of achiral TBBA and chiral TBACA. Physical Review A, 1978, 17, 1149-1155.	2.5	40
11	17O NQR study of the antiferroelectric phase transition in TlH2PO4. Journal of Chemical Physics, 1988, 88, 3260-3262.	3.0	39
12	P31Chemical-Shift Study of the Ferroelectric Transition in KD2PO4. Physical Review Letters, 1977, 38, 92-95.	7.8	37
13	Nuclear quadrupole double resonance techniques for the detection of explosives and drugs. Applied Magnetic Resonance, 2004, 25, 523-534.	1.2	37
14	Hydrogen bonding in 1,2-diazineâ€“chloranilic acid (2â€‰:â€‰1) studied by a 14N nuclear quadrupole coupling tensor and multi-temperature X-ray diffraction. Physical Chemistry Chemical Physics, 2009, 11, 2281.	2.8	37
15	14N nuclear quadrupole resonance of some sulfa drugs. Solid State Nuclear Magnetic Resonance, 2006, 30, 61-68.	2.3	34
16	Nuclear magnetic double resonance based on strong rf magnetic-field-induced coupling between spin systems. Physical Review B, 1975, 11, 27-36.	3.2	33
17	Two-dimensionalC13NMR study of orientational ordering in solidC60. Physical Review B, 1994, 49, 4993-5002.	3.2	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. Chemical Physics Letters, 1977, 48, 576-578.	2.6	23
20	Phase Transition and Ring-Puckering Motion in a Metalâ€“Organic Perovskite [(CH₂)₃NH₂][Zn(HCOO)₃]. Journal of Physical Chemistry A, 2012, 116, 12422-12428.	2.5	23
21	BeltlikeC60â^'Electron Spin Density Distribution in the Organic Ferromagnet TDAE-C60. Physical Review Letters, 2002, 88, 086402.	7.8	21
22	Polarization enhanced â€œsingle shotâ€•N14 nuclear quadrupole resonance detection of trinitrotoluene at room temperature. Applied Physics Letters, 2006, 89, 123509.	3.3	21
23	quadrupole coupling in Câ€“Oâ€“Hâ‹¯Oî…C hydrogen bonds. Chemical Physics, 1998, 231, 81-86.	1.9	20
24	Tautomerism and Possible Polymorphism in Solid Hydroxypyridines and Pyridones Studied by ¹⁴N NQR. Journal of Physical Chemistry A, 2013, 117, 1651-1658.	2.5	20
25	Application of 14N NQR to the Study of Piroxicam Polymorphism. Journal of Pharmaceutical Sciences, 2010, 99, 4857-4865.	3.3	19
26	Electron density distribution in 2-nitro-5-methylimidazole derivatives studied by NMR-NQR double resonance. Magnetic Resonance in Chemistry, 1999, 37, 878-880.	1.9	18
27	14N NQR, 1H NMR and DFT/QTAIM study of hydrogen bonding and polymorphism in selected solid 1,3,4-thiadiazole derivatives. Physical Chemistry Chemical Physics, 2010, 12, 13007.	2.8	18
28	An Insight into Prototropism and Supramolecular Motifs in Solid-State Structures of Allopurinol, Hypoxanthine, Xanthine, and Uric Acid. A1Hâ€“14N NQDR Spectroscopy, Hybrid DFT/QTAIM, and Hirshfeld Surface-Based Study. Journal of Physical Chemistry B, 2014, 118, 10837-10853.	2.6	18
29	14N NQR in the tetrazole family. Chemical Physics, 2009, 364, 98-104.	1.9	17
30	Topology of the Interactions Pattern in Pharmaceutically Relevant Polymorphs of Methylxanthines (Caffeine, Theobromine, and Theophiline): Combined Experimental (¹Hâ€“¹⁴N) Tj ETQq0 0 0 rgBT /Overlock 1 of Chemical Information and Modeling, 2014, 54, 2570-2584.	5.4	17
31	Supramolecular synthon pattern in solid clioquinol and cloxiquine (APIs of antibacterial, antifungal,) Tj ETQq1 1 0.784314 rgBT /Overl Journal of Molecular Modeling, 2011, 17, 1781-1800.	1.8	15
32	Nuclear quadrupole resonance characterization of carbamazepine cocrystals. Solid State Nuclear Magnetic Resonance, 2012, 47-48, 47-52.	2.3	15
33	New Methods for Detection of 14N NQR Frequencies. Applied Magnetic Resonance, 2012, 43, 469-484.	1.2	15
34	Sr87NMR of phase transitions inSrTi16O3andSrTi18O3. Physical Review B, 2005, 72, .	3.2	14
35	Improved N14 nuclear quadrupole resonance detection of trinitrotoluene using polarization transfer from protons to N14 nuclei. Journal of Applied Physics, 2007, 102, .	2.5	14
36	Polymorphism and disorder in natural active ingredients. Low and high-temperature phases of anhydrous caffeine: Spectroscopic (1Hâ€“14N NMRâ€“NQR/14N NQR) and solid-state computational modelling (DFT/QTAIM/RDS) study. European Journal of Pharmaceutical Sciences, 2016, 85, 18-30.	4.0	14

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37	¹⁷O NQR and ¹³C NMR study of hydrogenâ€bonded organic ferroelectric croconic acid. Physica Status Solidi (B): Basic Research, 2011, 248, 2091-2096.	1.5	12
38	A comparative study of the hydrogen-bonding patterns and prototropism in solid 2-thiocytosine (potential antileukemic agent) and cytosine, as studied by 1H-14N NQDR and QTAIM/ DFT. Journal of Molecular Modeling, 2012, 18, 11-26.	1.8	12
39	¹⁷O and¹⁴N quadrupole coupling and the mechanism of the ferroelectric transition in diglycine nitrate. Ferroelectrics, Letters Section, 1986, 6, 93-102.	1.0	11
40	Nuclear Quadrupole Resonance (NQR)â€"A Useful Spectroscopic Tool in Pharmacy for the Study of Polymorphism. Crystals, 2020, 10, 450.	2.2	11
41	A 14N nuclear quadrupole resonance study of phase transitions and molecular dynamics in hydrogen bonded organic antiferroelectrics 55DMBPâ€“H2ca and 1,5-NPDâ€“H2ca. Physical Chemistry Chemical Physics, 2011, 13, 9165.	2.8	10
42	Electron Configuration and Hydrogen-Bonding Pattern in Several Thymine and Uracil Analogues Studied by ¹Hâ€“¹⁴N NQDR and DFT/QTAIM. Journal of Physical Chemistry B, 2012, 116, 8793-8804.	2.6	10
43	Correlation between proton transfer and ³⁵Cl NQR frequency as well as molecular geometry of chloranilic acid in coâ€crystals with some organic bases. Magnetic Resonance in Chemistry, 2010, 48, 531-536.	1.9	9
44	NQR investigation and characterization of cocrystals and crystal polymorphs. Hyperfine Interactions, 2013, 222, 1-13.	0.5	9
45	Hydrogen Bonds in Cocrystals and Salts of 2-Amino-4,6-dimethylpyrimidine and Carboxylic Acids Studied by Nuclear Quadrupole Resonance. Journal of Physical Chemistry B, 2013, 117, 6946-6956.	2.6	9
46	14 N Nuclear Quadrupole Resonance Study of Polymorphism in Famotidine. Journal of Pharmaceutical Sciences, 2014, 103, 2704-2709.	3.3	9
47	Polymorphism and Thermal Stability of Natural Active Ingredients. 3,3â€²-Diindolylmethane (Chemopreventive and Chemotherapeutic) Studied by a Combined X-ray, ¹Hâ€“¹⁴N NMR-NQR, Differential Scanning Calorimetry, and Solid-State DFT/3D HS/QTAIM/RDS Computational Approach. Crystal Growth and Design, 2016, 16, 4336-4348.	3.0	9
48	Nuclear quadrupole resonance study of hydrogen bonded solid materials. Acta Chimica Slovenica, 2011, 58, 471-7.	0.6	9
49	14N NQR and proton NMR study of ferroelectric phase transition and proton exchange in organic ferroelectric (H2-TPPZ)(Hca)2. Physical Chemistry Chemical Physics, 2010, 12, 3254.	2.8	8
50	Nuclear quadrupole double resonance study of ferroelectric phase transitions. Ferroelectrics, 1988, 78, 223-230.	0.6	7
51	Nuclear Quadrupole Resonance Study of Hydrogen Bonds in Solid 2-Methylbenzimidazole and 5,6-Dimethylbenzimidazole. Journal of Physical Chemistry C, 2013, 117, 20193-20200.	3.1	7
52	Hydrogen bonding and proton transfer in cocrystals of 4,4â€²-bipyridyl and organic acids studied using nuclear quadrupole resonance. Physical Chemistry Chemical Physics, 2014, 16, 18141-18147.	2.8	7
53	NMR and NQR study of polymorphism in carbamazepine. Solid State Nuclear Magnetic Resonance, 2020, 107, 101653.	2.3	7
54	Crystallization of an amorphous solid studied by nuclear quadrupole double resonance. Chemical Physics, 2013, 421, 44-48.	1.9	6

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55	¹⁴N NQR spectroscopy reveals the proton position in Nâ€“Hâ‹¯N bonds: a case study with proton sponges. Physical Chemistry Chemical Physics, 2019, 21, 306-313.	2.8	6
56	Phonon-Driven Proton Transfer in 3,5-Pyridine Dicarboxylic Acid Studied by ²H, ¹⁴N, and ¹⁷O Nuclear Quadrupole Resonance. Journal of Physical Chemistry A, 2011, 115, 11652-11656.	2.5	5
57	Nuclear Quadrupole Resonance Investigation of Hydrogen Bonding in Some Cocrystals of 2,3,5,6-Tetramethylpyrazine and Carboxylic Acids. Journal of Physical Chemistry B, 2014, 118, 996-1002.	2.6	4
58	Impact of structural differences in carcinopreventive agents indole-3-carbinol and 3,3â€²-diindolylmethane on biological activity. An X-ray, 1Hâ€“14N NQDR, 13C CP/MAS NMR, and periodic hybrid DFT study. European Journal of Pharmaceutical Sciences, 2015, 77, 141-153.	4.0	4
59	Unusual Electron Charge Density in Carboxylic Acid. ¹⁷O Quadrupole Coupling in cis-Cyclobutane-1,2-dicarboxylic Acid. Journal of Physical Chemistry A, 2012, 116, 7139-7146.	2.5	3
60	Nuclear quadrupole resonance supported by periodic quantum calculations: a sensitive tool for precise structural characterization of short hydrogen bonds. Physical Chemistry Chemical Physics, 2020, 22, 27681-27689.	2.8	3
61	T1Ï± in nuclear quadrupole resonance: a theoretical study. Solid State Nuclear Magnetic Resonance, 1997, 8, 207-217.	2.3	2
62	14N NQR Study of Diphenylamine. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 88-92.	1.5	2
63	1 Hâ€“ 14 N cross-relaxation spectrum analysis in sildenafil and sildenafil citrate. Solid State Nuclear Magnetic Resonance, 2016, 78, 16-23.	2.3	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 (1H-14N NQDR) and quantum chemistry (periodic) Tj ETQq0 0 0 rgBT /Overlock 1 State Nuclear Magnetic Resonance, 2015, 68-69, 13-24.	2.3	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.	0.3	0
68	NQR investigation and characterization of cocrystals and crystal polymorphs. , 2012, , 245-257.		0