Janez Seliger

List of Publications by Year in Descending Order

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	Nuclear Quadrupole Resonance (NQR)—A Useful Spectroscopic Tool in Pharmacy for the Study of Polymorphism. *Crystals*, **2020**, 10, 450	2.3	5
68	NMR and NQR study of polymorphism in carbamazepine. *Solid State Nuclear Magnetic Resonance*, **2020**, 107, 101653	3.1	3
67	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	3.6	1
66	N NQR spectroscopy reveals the proton position in N-HN bonds: a case study with proton sponges. *Physical Chemistry Chemical Physics*, **2018**, 21, 306-313	3.6	5
65	Nuclear Quadrupole Resonance, Theory **2017**, 447-455		1
64	(1)H-(14)N cross-relaxation spectrum analysis in sildenafil and sildenafil citrate. *Solid State Nuclear Magnetic Resonance*, **2016**, 78, 16-23	3.1	1
63	Polymorphism and Thermal Stability of Natural Active Ingredients. 3,3?-Diindolylmethane (Chemopreventive and Chemotherapeutic) Studied by a Combined X-ray, 1H14N NMR-NQR, Differential Scanning Calorimetry, and Solid-State DFT/3D HS/QTAIM/RDS Computational	3.5	6
62	Polymorphism and disorder in natural active ingredients. Low and high-temperature phases of anhydrous caffeine: Spectroscopic ((1)H-(14)N NMR-NQR/(14)N NQR) and solid-state computational modelling (DFT/QTAIM/RDS) study. *European Journal of Pharmaceutical Sciences*, **2016**, 85, 18-30	5.1	13
61	Impact of structural differences in carcinopreventive agents indole-3-carbinol and 3,3'-diindolylmethane on biological activity. An X-ray, H-N NQDR, C CP/MAS NMR, and periodic hybrid DFT study. *European Journal of Pharmaceutical Sciences*, **2015**, 77, 141-53	5.1	2
60	Unusual case of desmotropy. Combined spectroscopy (H-N NQDR) and quantum chemistry (periodic hybrid DFT/QTAIM and Hirshfeld surface-based) study of solid dacarbazine (anti-neoplastic). *Solid State Nuclear Magnetic Resonance*, **2015**, 68-69, 13-24	3.1	1
59	N nuclear quadrupole resonance study of polymorphism in famotidine. *Journal of Pharmaceutical Sciences*, **2014**, 103, 2704-2709	3.9	9
58	An insight into prototropism and supramolecular motifs in solid-state structures of allopurinol, hypoxanthine, xanthine, and uric acid. A H-N NQDR spectroscopy, hybrid DFT/QTAIM, and Hirshfeld surface-based study. *Journal of Physical Chemistry B*, **2014**, 118, 10837-53	3.4	14
57	Hydrogen bonding and proton transfer in cocrystals of 4,4'-bipyridyl and organic acids studied using nuclear quadrupole resonance. *Physical Chemistry Chemical Physics*, **2014**, 16, 18141-7	3.6	6
56	Topology of the interactions pattern in pharmaceutically relevant polymorphs of methylxanthines (caffeine, theobromine, and theophiline): combined experimental (H-N nuclear quadrupole double resonance) and computational (DFT and Hirshfeld-based) study. *Journal of Chemical Information and Modeling*, **2014**, 54, 2570-84	6.1	14
55	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	3.4	4
54	Nuclear Quadrupole Resonance Study of Hydrogen Bonds in Solid 2-Methylbenzimidazole and 5,6-Dimethylbenzimidazole. *Journal of Physical Chemistry C*, **2013**, 117, 20193-20200	3.8	7
53	NQR investigation and characterization of cocrystals and crystal polymorphs. *Hyperfine Interactions*, **2013**, 222, 1-13	0.8	8

52	Crystallization of an amorphous solid studied by nuclear quadrupole double resonance. *Chemical Physics*, **2013**, 421, 44-48	2.3	6
51	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, 6946-56	3.4	8
50	Tautomerism and possible polymorphism in solid hydroxypyridines and pyridones studied by 14N NQR. *Journal of Physical Chemistry A*, **2013**, 117, 1651-8	2.8	20
49	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	2	11
48	Nuclear quadrupole resonance characterization of carbamazepine cocrystals. *Solid State Nuclear Magnetic Resonance*, **2012**, 47-48, 47-52	3.1	15
47	New Methods for Detection of 14N NQR Frequencies. *Applied Magnetic Resonance*, **2012**, 43, 469-484	0.8	15
46	Electron configuration and hydrogen-bonding pattern in several thymine and uracil analogues studied by 1H-14N NQDR and DFT/QTAIM. *Journal of Physical Chemistry B*, **2012**, 116, 8793-804	3.4	10
45	Phase transition and ring-puckering motion in a metal-organic perovskite [(CH2)3NH2][Zn(HCOO)3]. *Journal of Physical Chemistry A*, **2012**, 116, 12422-8	2.8	21
44	Unusual electron charge density in carboxylic acid. 17O quadrupole coupling in cis-cyclobutane-1,2-dicarboxylic acid. *Journal of Physical Chemistry A*, **2012**, 116, 7139-46	2.8	3
43	NQR investigation and characterization of cocrystals and crystal polymorphs **2012**, 245-257		
42	Supramolecular synthon pattern in solid clioquinol and cloxiquine (APIs of antibacterial, antifungal, antiaging and antituberculosis drugs) studied by □Cl NQR, □H-□O and □H-□N NQDR and DFT/QTAIM. *Journal of Molecular Modeling*, **2011**, 17, 1781-800	2	13
41	17O NQR and 13C NMR study of hydrogen-bonded organic ferroelectric croconic acid. *Physica Status Solidi (B): Basic Research*, **2011**, 248, 2091-2096	1.3	11
40	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, 11652-6	2.8	4
39	A 14N nuclear quadrupole resonance study of phase transitions and molecular dynamics in hydrogen bonded organic antiferroelectrics 55DMBP-H2ca and 1,5-NPD-H2ca. *Physical Chemistry Chemical Physics*, **2011**, 13, 9165-72	3.6	10
38	Nuclear quadrupole resonance study of hydrogen bonded solid materials. *Acta Chimica Slovenica*, **2011**, 58, 471-7	1.9	8
37	(14)N NQR, (1)H NMR and DFT/QTAIM study of hydrogen bonding and polymorphism in selected solid 1,3,4-thiadiazole derivatives. *Physical Chemistry Chemical Physics*, **2010**, 12, 13007-19	3.6	18
36	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, 3254-9	3.6	7
35	Application of 14N NQR to the study of piroxicam polymorphism. *Journal of Pharmaceutical Sciences*, **2010**, 99, 4857-65	3.9	17

34	Correlation between proton transfer and (35)Cl NQR frequency as well as molecular geometry of chloranilic acid in co-crystals with some organic bases. *Magnetic Resonance in Chemistry*, **2010**, 48, 531-6	2.1	9
33	14N NQR in the tetrazole family. *Chemical Physics*, **2009**, 364, 98-104	2.3	15
32	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	
31	Hydrogen bonding in 1,2-diazine-chloranilic acid (2 : 1) studied by a 14N nuclear quadrupole coupling tensor and multi-temperature X-ray diffraction. *Physical Chemistry Chemical Physics*, **2009**, 11, 2281-6	3.6	33
30	Polarization Enhanced Nqr Detection at Low Frequencies. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2009**, 41-56	0.2	2
29	14N NQR Study of Diphenylamine. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2008**, 63, 88-92	1.4	2
28	Improved N14 nuclear quadrupole resonance detection of trinitrotoluene using polarization transfer from protons to N14 nuclei. *Journal of Applied Physics*, **2007**, 102, 084903	2.5	14
27	Polarization enhanced □single shot□N14 nuclear quadrupole resonance detection of trinitrotoluene at room temperature. *Applied Physics Letters*, **2006**, 89, 123509	3.4	20
26	14N nuclear quadrupole resonance of some sulfa drugs. *Solid State Nuclear Magnetic Resonance*, **2006**, 30, 61-8	3.1	33
25	Sr87 NMR of phase transitions in SrTi16O3 and SrTi18O3. *Physical Review B*, **2005**, 72,	3.3	14
24	NMR study of disorder in BaTiO3 and SrTiO3. *Physical Review B*, **2005**, 71,	3.3	126
23	Nuclear quadrupole double resonance techniques for the detection of explosives and drugs. *Applied Magnetic Resonance*, **2004**, 25, 523-534	0.8	35
22	Beltlike C(60)(-) electron spin density distribution in the organic ferromagnet TDAE-C(60). *Physical Review Letters*, **2002**, 88, 086402	7.4	20
21	Electron density distribution in 2-nitro-5-methylimidazole derivatives studied by NMR□NQR double resonance. *Magnetic Resonance in Chemistry*, **1999**, 37, 878-880	2.1	17
20	Nuclear Quadrupole Resonance, Theory* **1999**, 1975-1983		1
19	17O quadrupole coupling in C□H□?O?C hydrogen bonds. *Chemical Physics*, **1998**, 231, 81-86	2.3	19
18	T1 rho in nuclear quadrupole resonance: a theoretical study. *Solid State Nuclear Magnetic Resonance*, **1997**, 8, 207-17	3.1	2
17	Two-dimensional 13C NMR study of orientational ordering in solid C60. *Physical Review B*, **1994**, 49, 4993-5002	3.3	31

16	A New Highly Sensitive 1H-14N Nuclear-Quandrupole Double-Resonance Technique. *Journal of Magnetic Resonance Series A*, **1994**, 106, 214-222		78
15	1H -14N Nuclear Quadrupole Double Resonance with Multiple Frequency Sweeps. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1994**, 49, 31-34	1.4	39
14	17O NQR study of the antiferroelectric phase transition in TlH2PO4. *Journal of Chemical Physics*, **1988**, 88, 3260-3262	3.9	38
13	Nuclear quadrupole double resonance study of ferroelectric phase transitions. *Ferroelectrics*, **1988**, 78, 223-230	0.6	6
12	17O and 14N quadrupole coupling and the mechanism of the ferroelectric transition in diglycine nitrate. *Ferroelectrics, Letters Section*, **1986**, 6, 93-102	0.5	10
11	NMR in incommensurate systems: non-local effects. *Journal of Physics C: Solid State Physics*, **1985**, 18, 2313-2330		28
10	13C NMR in ferroelectric smectic liquid crystals. *Ferroelectrics*, **1984**, 58, 115-132	0.6	49
9	Dynamics of the n-decylammonium chains in the perovskite-type layer structure compound (C10H21NH3)2CdCl4. *Journal of Chemical Physics*, **1979**, 71, 2118	3.9	170
8	N14 nuclear-quadrupole-resonance study of orientational ordering in the smectic phases of achiral TBBA and chiral TBACA. *Physical Review A*, **1978**, 17, 1149-1155	2.6	39
7	Spin□attice relaxation mechanisms in the smectic phases of TBBA. *Journal of Chemical Physics*, **1978**, 68, 303	3.9	46
6	P31 Chemical-Shift Study of the Ferroelectric Transition in KD2PO4. *Physical Review Letters*, **1977**, 38, 92-95	7.4	35
5	Proton NMR study of the structural phase transitions in perovskite layer compounds: (CnH2n+1NH3)2CdCl4 and (NH3□CH2)n□NH3) CdCl4. *Journal of Chemical Physics*, **1977**, 66, 278-287	3.9	78
4	Deuteron quadrupole coupling in KDF2. *Chemical Physics Letters*, **1977**, 48, 576-578	2.5	21
3	14N quadrupole resonance of some liquid crystalline compounds in the solid. *Journal of Chemical Physics*, **1976**, 65, 2887-2891	3.9	46
2	Nuclear magnetic double resonance based on strong rf magnetic-field-induced coupling between spin systems. *Physical Review B*, **1975**, 11, 27-36	3.3	33
1	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	3.9	72