Marek SzafraÅ„ski

List of Publications by Year
in descending order

80	2,067	257101 24	253896 43
papers	citations	h-index	g-index

80	80	80	1880
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Heat capacity anomaly near magnetic phase transition in GaFeO3. Journal of Magnetism and Magnetic Materials, 2022, 548, 168978.	1.0	2
2	Comment on â€œImproper molecular ferroelectrics with simultaneous ultrahigh pyroelectricity and figures of meritâ€•by Li et al.. Science Advances, 2022, 8, .	4.7	1
3	Time-dependent transformation routes of perovskites CsPbBr₃ and CsPbCl₃ under high pressure. Journal of Materials Chemistry A, 2021, 9, 10769-10779.	5.2	17
4	Comment on â€œPhase transitions, screening and dielectric response of CsPbBr₃â€•by Å. Svirskas, S. BalÄ•Å«nas, M. Å imÄ—nas, G. UseviÄ•ius, M. Kinka, M. VeliÄka, D. Kubicki, M. E. Castillo, A. Karabanov, V. V. Shvartsman, M. R. Soares, V. Åablinskas, A. N. Salak, D. C. Lupascu and J. Banys, J. Mater. Chem. A, 2020, 8, 14015. Journal of Materials Chemistry A, 2021, 9, 11450-11452.	5.2	2
5	Thermodynamic pathway between the non-polar and ferroelectric polymorphs of guanidinium ethoxysulfonate. CrystEngComm, 2020, 22, 3975-3983.	1.3	0
6	Large Negative Linear Compressibility Triggered by Hydrogen Bonding. Journal of Physical Chemistry C, 2020, 124, 11631-11638.	1.5	9
7	Comment on â€œUnprecedented 30 K hysteresis across switchable dielectric and magnetic properties in a bright luminescent organicâ€“inorganic halide (CH₆N₃)₂MnCl₄â€•by A. Sen, D. Swain, T. N. Guru Row and A. Sundaresan, J. Mater. Chem. C, 2019, 7, 4838. Journal of Materials Chemistry C, 2020, 8, 2594-2596.	2.7	3
8	Vitrification and New Phases in the Water:Pyrimidine Binary Eutectic System. Journal of Physical Chemistry B, 2019, 123, 7190-7196.	1.2	1
9	Band Gap Engineering in MASnBr₃ and CsSnBr₃ Perovskites: Mechanistic Insights through the Application of Pressure. Journal of Physical Chemistry Letters, 2019, 10, 7398-7405.	2.1	57
10	Differences in photoinduced optical transients in perovskite absorbers for solar cells. RSC Advances, 2018, 8, 6479-6487.	1.7	6
11	Synthesis, Crystal Structures, and Phase Transitions of Dabco Oxonium Triperchlorate and Tritetrafluoroborate. Crystal Growth and Design, 2018, 18, 7106-7113.	1.4	9
12	Research Update: Tricritical point and large caloric effect in a hybrid organic-inorganic perovskite. APL Materials, 2018, 6, .	2.2	26
13	Structural Disorder and Molecular Dynamics in Ferroelectric Crystals [C(NH₂)₃]₄Br₂SO₄ and [C(NH₂)₃]₄Cl₂SO₄. Journal of Physical Chemistry C, 2018, 122, 22054-22062.	1.5	7
14	A giant 2-dimensional dielectric response in a compressed hydrogen-bonded hybrid organicâ€“inorganic salt. Journal of Materials Chemistry C, 2018, 6, 7689-7699.	2.7	12
15	Pressureâ€“Temperature Phase Diagrams and Transition Mechanisms of Hybrid Organicâ€“Inorganic NHÂ·Â·Â·N Bonded Ferroelectrics. Crystal Growth and Design, 2018, 18, 6488-6496.	1.4	9
16	Photovoltaic Hybrid Perovskites under Pressure. Journal of Physical Chemistry Letters, 2017, 8, 2496-2506.	2.1	104
17	Comment on â€œ1,4-Diazabicyclo[2.2.2]octane-based disalts showing non-centrosymmetric structures and phase transition behaviorsâ€•by X.-B. Han, P. Hu, C. Shi and W. Zhang, CrystEngComm, 2016,18, 1563. CrystEngComm, 2017, 19, 179-182.	1.3	7
18	Ferroelastic phase transition in [(C₂H₅)₄N][(CH₃)₄N]MnBr₄. Phase Transitions, 2017, 90, 610-617.	0.6	9

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19	Phase Transitions in Layered Diguanidinium Hexachlorostannate(IV). Crystal Growth and Design, 2016, 16, 2157-2166.	1.4	10
20	Reverse Groupâ€“Subgroup Relation at the Ferroelastic Phase Transition in [(C₂H₅)₄N][(CH₃)₄N]MnBr₄. Crystal Growth and Design, 2016, 16, 3771-3776.	1.4	19
21	Mechanism of Pressure-Induced Phase Transitions, Amorphization, and Absorption-Edge Shift in Photovoltaic Methylammonium Lead Iodide. Journal of Physical Chemistry Letters, 2016, 7, 3458-3466.	2.1	176
22	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.	1.4	9
23	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.	1.9	4
24	Comment on the Phase Transition Mechanism in Diglycine Methanesulfonate. Chemistry - an Asian Journal, 2014, 9, 3342-3343.	1.7	1
25	Effect of high pressure on the supramolecular structures of guanidinium based ferroelectrics. CrystEngComm, 2014, 16, 6250.	1.3	18
26	Quasistatic Disorder of NHÂ·Â·Â·N Bonds and Elastic-Properties Relationship in 2-Phenylimidazole Crystals. Journal of Physical Chemistry C, 2014, 118, 7049-7056.	1.5	6
27	Origin of Metastable Properties in the Ferroelectric Phase of Tetraguanidinium Dichloro-Sulfate. Journal of Physical Chemistry C, 2014, 118, 15556-15564.	1.5	2
28	Strong negative thermal expansion and relaxor ferroelectricity driven by supramolecular patterns. Journal of Materials Chemistry C, 2013, 1, 7904.	2.7	20
29	New Polar Phases of 1,4-Diazabicyclo[2.2.2]octane Perchlorate, An NH⁺Â·Â·Â·N Hydrogen-Bonded Ferroelectric. Crystal Growth and Design, 2013, 13, 2872-2879.	1.4	20
30	Origin of spontaneous polarization and reconstructive phase transition in guanidinium iodide. CrystEngComm, 2013, 15, 4617.	1.3	35
31	Comment on Ferroelectricity in Bis(imidazolium) <scp>L</scp>â€Tartrate. Angewandte Chemie - International Edition, 2013, 52, 7076-7078.	7.2	17
32	Comment on Ferroelectricity in Bis(imidazolium)L-Tartrate. Angewandte Chemie, 2013, 125, 7214-7216.	1.6	6
33	SzafraÅ„ski and Katrusiak Reply:. Physical Review Letters, 2012, 109, .	2.9	2
34	Crystal Structures, Phase Transitions, and Pressure-Induced Ferroelectricity in [C(NH2)3]5SO4(SO3â€“OC2H5)2F. Journal of Physical Chemistry B, 2011, 115, 10277-10284.	1.2	8
35	Pressure-induced collapse of guanidinium nitrate Nâ€“Hâ‹¯O bonded honeycomb layers into a 3-D pattern with varied H-acceptor capacity. Chemical Communications, 2011, 47, 2107-2109.	2.2	29
36	Simple Guanidinium Salts Revisited: Roomâ€“Temperature Ferroelectricity in Hydrogen-Bonded Supramolecular Structures. Journal of Physical Chemistry B, 2011, 115, 8755-8762.	1.2	62

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37	Proton Disorder in NHÂ·Â·Â·N Bonded [dabcoH]⁺I^{â^'} Relaxor: New Insights into H-Disordering in a One-Dimensional H₂O Ice Analogue. Crystal Growth and Design, 2010, 10, 4334-4338.	1.4	36
38	Ten Polymorphs of NH⁺Â·Â·Â·N Hydrogen-Bonded 1,4-Diazabicyclo[2.2.2]octane Complexes: Supramolecular Origin of Giant Anisotropic Dielectric Response in Polymorph V. Crystal Growth and Design, 2010, 10, 3537-3546.	1.4	45
39	Bias-Field and Pressure Effects on the One-Dimensional Dielectric Response in Nâ^'H⁺Â·Â·Â·N Hydrogen-Bonded 1,4-Diazabicyclo[2.2.2]octane Hydrobromide Crystal. Journal of Physical Chemistry B, 2009, 113, 9479-9488.	1.2	29
40	Temperature-induced displacement of the proton site in strong Fâ€“Hâ€“F hydrogen bond and mechanism of phase transition in 1,4 diazabicyclo[2.2.2]octane dihydrogen difluoride. Chemical Physics Letters, 2008, 457, 110-114.	1.2	4
41	Dielectric response of disordered Pb(Sc_{1/2}Ta_{1/2})O₃single crystal under hydrostatic pressure. Phase Transitions, 2008, 81, 987-998.	0.6	3
42	Anomalous Protonic-Glass Evolution from Ordered Phase in NHÂ·Â·Â·N Hydrogen-Bonded DabcoHBF₄ Ferroelectric. Journal of Physical Chemistry B, 2008, 112, 16619-16625.	1.2	43
43	From Nonpolar to Ferroelectric Crystal Structure:â€‰ The Temperature-Tuned Growth of Two Guanidinium Ethoxysulfonate Polymorphs. Journal of Physical Chemistry B, 2008, 112, 3101-3109.	1.2	21
44	Giant Dielectric Anisotropy and Relaxor Ferroelectricity Induced by Proton Transfers in NH⁺Â·Â·Â·N-Bonded Supramolecular Aggregates. Journal of Physical Chemistry B, 2008, 112, 6779-6785.	1.2	60
45	Dielectric Response of PLZT 9.5/65/35 Relaxor Under Hydrostatic Pressure. Ferroelectrics, Letters Section, 2007, 34, 29-35.	0.4	2
46	Crystal structure and phase transitions in perovskite-like C(NH2)3SnCl3. Journal of Solid State Chemistry, 2007, 180, 2209-2215.	1.4	14
47	Effect of Hydrostatic Pressure on the Dielectric Properties of PMN-0.31PT Single Crystal. Ferroelectrics, 2006, 339, 75-84.	0.3	5
48	Disproportionation of Pyrazine in NH+Â·Â·Â·N Hydrogen-Bonded Complexes:Â New Materials of Exceptional Dielectric Response. Journal of the American Chemical Society, 2006, 128, 15775-15785.	6.6	79
49	Molecular interactions in crystalline dibromomethane and diiodomethane, and the stabilities of their high-pressure and low-temperature phases. Acta Crystallographica Section B: Structural Science, 2006, 62, 1090-1098.	1.8	21
50	Effect of halogen atom exchange on the thermodynamic behavior and ferroelectric properties of[C(NH2)3]4Br2SO4. Physical Review B, 2006, 73, .	1.1	28
51	Ferroelectricity in the guanidinium compound[C(NH2)3]4Cl2SO4: Synthesis and characterization. Physical Review B, 2005, 72, .	1.1	43
52	Structural Implications of Anomalous Thermal Expansion and Glass-Like Dielectric Response in Pyridinium Halogenoaurates. Journal of Physical Chemistry B, 2005, 109, 20824-20829.	1.2	6
53	Low-temperature and high-pressure phase transitions in ferroelectric dabcoHBF4. Journal of Physics Condensed Matter, 2004, 16, 6053-6062.	0.7	16
54	High-pressure peculiarities in compositionally ordered Pb(Sc1/2Nb1/2)O3. Journal of Physics Condensed Matter, 2004, 16, 7025-7032.	0.7	8

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55	Temperature-induced H-site centring in NH--O hydrogen-bonds of guanidinium nitrate by neutron diffraction. Chemical Physics Letters, 2004, 391, 267-272.	1.2	11
56	Short-Range Ferroelectric Order Induced by Proton Transfer-Mediated Ionicity. Journal of Physical Chemistry B, 2004, 108, 15709-15713.	1.2	44
57	Effect of Hydrostatic Pressure on the Dielectric Behavior of Polymer Relaxors. Ferroelectrics, 2004, 304, 13-18.	0.3	1
58	Phase Transitions Studied by High-Pressure Dielectric Spectroscopy and Calorimetry. , 2004, , 295-310.		3
59	Phase transitions and pressure effects in simple pyridinium salts. Journal of Physics Condensed Matter, 2003, 15, 5933-5944.	0.7	8
60	Linear Birefringence and Domain Structure in Dabco Salts. Ferroelectrics, 2002, 269, 45-50.	0.3	2
61	Dielectric and Structural Properties of Dipyridinium Iodide Triiodide. Ferroelectrics, 2002, 268, 289-294.	0.3	6
62	Ferroelectric Order of Parallel Bistable Hydrogen Bonds. Physical Review Letters, 2002, 89, 215507.	2.9	213
63	Microscopic instabilities related to H3O+ dynamics in monoguanidinium dioxonium trinitrate. Chemical Physics Letters, 2001, 340, 302-307.	1.2	7
64	Thermodynamic behaviour of bistable NH+â€“N hydrogen bonds in monosalts of 1,4-diazabicyclo[2.2.2]octane. Chemical Physics Letters, 2000, 318, 427-432.	1.2	33
65	Pressure-induced decoupling of the order-disorder and displacive contributions to the phase transition in diguanidinium tetrachlorostannate. Physical Review B, 2000, 62, 8787-8793.	1.1	12
66	Phase transitions in the layered structure of diguanidinium tetraiodoplumbate. Physical Review B, 2000, 61, 1026-1035.	1.1	52
67	Ferroelectricity inNHâ‹¯NHydrogen Bonded Crystals. Physical Review Letters, 1999, 82, 576-579.	2.9	269
68	Hydrogen bonding in two isomorphous bis-guanidinium salts: tetrachlorozincate(II) and tetrabromozincate(II). Journal of Molecular Structure, 1998, 446, 1-9.	1.8	25
69	NMR Study of Cation Motion in Guanidinium Iodoplumbates. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1997, 52, 783-788.	0.7	20
70	Investigation of phase instabilities in guanidinium halogenoplumbates(II). Thermochimica Acta, 1997, 307, 177-183.	1.2	43
71	Influence of Molecular and Lattice Vibrations on the Stability of Layered Crystal Structure of Guanidinium Nitrate. Physica Status Solidi (B): Basic Research, 1997, 201, 343-354.	0.7	9
72	Structural phase transitions in guanidinium nitrate. Journal of Molecular Structure, 1996, 378, 205-223.	1.8	34

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73	A Combined Neutron Powder and X-Ray Single Crystal Diffraction Study of Anhydro-Iodic Acid, DIO3 Â· I2O5, at 293 K. Journal of Solid State Chemistry, 1993, 102, 408-413.	1.4	5
74	Investigation of phase transitions in guanidinium nitrate crystals. Journal of Physics Condensed Matter, 1993, 5, 7425-7434.	0.7	11
75	Deflection and diffraction of light by ferroelastic crystals of sodium-ammonium tartrate tetrahydrate and lithium-ammonium tartrate monohydrate. Ferroelectrics, 1992, 129, 55-65.	0.3	5
76	Unusually strong deformation of guanidinium nitrate crystal at the solid-solid phase transition. Solid State Communications, 1992, 84, 1051-1054.	0.9	18
77	DTA investigation of phase transitions in 1,3-cyclohexanedione under high pressures. Solid State Communications, 1992, 82, 277-281.	0.9	25
78	Microscopic origin of spontaneous polarization and absolute sense of pyroelectric and piezoelectric coefficients in Î±-LiIO3. Solid State Communications, 1990, 75, 535-538.	0.9	10
79	Optical activity, domain structure and deflection of light at domain walls in lithium ammonium tartrate monohydrate (LAT). Ferroelectrics, 1989, 97, 233-245.	0.3	11
80	Energy gap of some alkaline halate crystals by optical methods. Journal of Molecular Structure, 1986, 142, 139-142.	1.8	2