

Andrzej Katrusiak

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495
papers

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61
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531
ext. papers

8,382
ext. citations

3.6
avg, IF

6.58
L-index

#	Paper	IF	Citations
495	Ferroelectricity in NH ₂ N Hydrogen Bonded Crystals. <i>Physical Review Letters</i> , 1999 , 82, 576-579	7.4	241
494	Ferroelectric order of parallel bistable hydrogen bonds. <i>Physical Review Letters</i> , 2002 , 89, 215507	7.4	193
493	Designing large triangular chiral macrocycles: efficient. <i>Journal of Organic Chemistry</i> , 2000 , 65, 5768-73	4.2	138
492	Mechanism of Pressure-Induced Phase Transitions, Amorphization, and Absorption-Edge Shift in Photovoltaic Methylammonium Lead Iodide. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3458-66	6.4	134
491	Giant negative linear compression positively coupled to massive thermal expansion in a metal-organic framework. <i>Nature Communications</i> , 2014 , 5, 4337	17.4	133
490	Crystallographic autostereograms. <i>Journal of Molecular Graphics and Modelling</i> , 2001 , 19, 363-7, 398	2.8	130
489	High-pressure crystallography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2008 , 64, 135-48		125
488	Enforcing Multifunctionality: A Pressure-Induced Spin-Crossover Photomagnet. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8795-802	16.4	121
487	Shadowing and absorption corrections of single-crystal high-pressure data. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2004 , 219,	1	84
486	Giant Negative Area Compressibility Tunable in a Soft Porous Framework Material. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9296-301	16.4	83
485	Geometric effects of H-atom disordering in hydrogen-bonded ferroelectrics. <i>Physical Review B</i> , 1993 , 48, 2992-3002	3.3	82
484	Lifetime nanomanometry - high-pressure luminescence of up-converting lanthanide nanocrystals - SrF:Yb,Er. <i>Nanoscale</i> , 2017 , 9, 16030-16037	7.7	81
483	Photovoltaic Hybrid Perovskites under Pressure. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2496-2506.4		78
482	Disproportionation of pyrazine in NH ₂ ...N hydrogen-bonded complexes: new materials of exceptional dielectric response. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15775-85	16.4	76
481	High-pressure X-ray diffraction study on the structure and phase transition of 1,3-cyclohexanedione crystals. <i>Acta Crystallographica Section B: Structural Science</i> , 1990 , 46, 246-256		76
480	High-Pressure Crystallographic Experiments with a CCD-Detector 2004 , 101-112		71
479	H-Bond Breaking in High-Pressure Urea. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15761-15767	3.8	62

478	Nearly isostructural polymorphs of ethynylbenzene: resolution of [triple bond]CH...pi(arene) and cooperative [triple bond]CH...pi(C[triple bond]C) interactions by pressure freezing. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12620-1	16.4	61
477	Association CH...pi and No van der Waals Contacts at the Lowest Limits of Crystalline Benzene I and II Stability Regions <i>Crystal Growth and Design</i> , 2010 , 10, 3461-3465	3.5	59
476	High-Pressure X-ray Diffraction Studies on Organic Crystals. <i>Crystal Research and Technology</i> , 1991 , 26, 523-531	1.3	59
475	Pressure-frozen benzene I revisited. <i>Acta Crystallographica Section B: Structural Science</i> , 2006 , 62, 94-101		58
474	Electrostatic Interactions and Conformations of Zwitterionic Pyridinium Alkanoates. <i>Journal of Organic Chemistry</i> , 1998 , 63, 2898-2908	4.2	58
473	High-pressure (+)-sucrose polymorph. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2146-50	16.4	57
472	Giant dielectric anisotropy and relaxor ferroelectricity induced by proton transfers in NH+...N-bonded supramolecular aggregates. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 6779-85	3.4	57
471	Coupling of displacive and order-disorder transformations in hydrogen-bonded ferroelectrics. <i>Physical Review B</i> , 1995 , 51, 589-592	3.3	52
470	Compressibility of lysozyme protein crystals by X-ray diffraction. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1996 , 52, 607-8		50
469	Macroscopic and Structural Effects of Hydrogen-bond Transformations. <i>Crystallography Reviews</i> , 1996 , 5, 133-175	1.3	48
468	Supramolecular reaction between pressure-frozen acetonitrile phases alpha and beta. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 7183-90	3.4	46
467	Stereochemistry and transformations of NH...N hydrogen bonds Part II. Proton stability in the monosalts of 1,4-diazabicyclo[2.2.2]octane. <i>Journal of Molecular Structure</i> , 1999 , 474, 135-141	3.4	46
466	On the pressure dependence of the crystal structure of squaric acid (H ₂ C ₄ O ₄). <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, L765-L772		45
465	Stereochemistry and transformation of -OH...= hydrogen bonds Part I. Polymorphism and phase transition of 1,3-cyclohexanedione crystals. <i>Journal of Molecular Structure</i> , 1992 , 269, 329-354	3.4	44
464	Phase transitions in the layered structure of diguanidinium tetraiodoplumbate. <i>Physical Review B</i> , 2000 , 61, 1026-1035	3.3	43
463	Experimental evidence for a continuous phase transition in a multidimensional ferroelectric. <i>Physical Review B</i> , 1998 , 57, 3326-3332	3.3	43
462	Ten Polymorphs of NH+...N Hydrogen-Bonded 1,4-Diazabicyclo[2.2.2]octane Complexes: Supramolecular Origin of Giant Anisotropic Dielectric Response in Polymorph V. <i>Crystal Growth and Design</i> , 2010 , 10, 3537-3546	3.5	42
461	Polar symmetry in new high-pressure phases of chloroform and bromoform. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 12001-9	3.4	41

- 460 Structure and phase transition of 1,3-cyclohexanedione crystals as a function of temperature. *Acta Crystallographica Section B: Structural Science*, **1991**, 47, 398-404 40
- 459 Piezochromic Porous Metal-Organic Framework. *Journal of Physical Chemistry Letters*, **2017**, 8, 279-284 6.4 39
- 458 Anomalous protonic-glass evolution from ordered phase in NH...N hydrogen-bonded dabcoHBF₄ ferroelectric. *Journal of Physical Chemistry B*, **2008**, 112, 16619-25 3-4 39
- 457 Short-Range Ferroelectric Order Induced by Proton Transfer-Mediated Ionicity. *Journal of Physical Chemistry B*, **2004**, 108, 15709-15713 3-4 39
- 456 Stereochemistry and transformations of NH...N hydrogen bonds Part I. Structural preferences for the hydrogen site. *Journal of Molecular Structure*, **1999**, 474, 125-133 3-4 38
- 455 Evidence for anomalous pressure dependence of the spontaneous strain in PbTiO₃. *Journal of Physics C: Solid State Physics*, **1986**, 19, L725-L730 38
- 454 Crystal structure of Schiff base derivative of 2,2'-dihydroxybiphenyl-3-carbaldehyde with n-butylamine. *Journal of Molecular Structure*, **2003**, 650, 191-199 3-4 37
- 453 Guanidinium nitrate. *Acta Crystallographica Section C: Crystal Structure Communications*, **1994**, 50, 1161-1163 37
- 452 X-ray, NMR and DFT studies of the complex of 1,4-dimethylpiperazine mono-betaine with p-hydroxybenzoic acid. *Journal of Molecular Structure*, **2006**, 785, 160-166 3-4 36
- 451 Pressure tuning between NH...N hydrogen-bonded ice analogue and NH...Br polar dabcoHBr complexes. *Journal of Physical Chemistry B*, **2006**, 110, 9755-8 3-4 35
- 450 Crystal structure of Schiff base derivative of gossypol with 3,6,9-trioxa-decylamine. *Journal of Molecular Structure*, **2003**, 655, 293-300 3-4 35
- 449 Imidazole Hidden Polar Phase. *Crystal Growth and Design*, **2012**, 12, 4302-4305 3-5 34
- 448 Molecular structure of the 1:1 inclusion complex of monensin A sodium salt with acetonitrile. *Journal of Molecular Structure*, **2007**, 832, 84-89 3-4 34
- 447 Pressure-Dependent Formation and Decomposition of Thiourea Hydrates. *Crystal Growth and Design*, **2013**, 13, 121-125 3-5 33
- 446 Pressure-Promoted CH...O Hydrogen Bonds in Formamide Aggregates. *Crystal Growth and Design*, **2011**, 11, 4768-4774 3-5 33
- 445 Pressure induced transformations of 1,4-diazabicyclo[2.2.2]octane (dabco) hydroiodide: diprotonation of dabco, its N-methylation and co-crystallization with methanol. *CrystEngComm*, **2010**, 12, 2528 3-3 33
- 444 Energetics of conformational conversion between 1,1,2-trichloroethane polymorphs. *Chemical Communications*, **2008**, 4439-41 5.8 33
- 443 Proton Disorder in NH...N Bonded [dabcoH]⁺⋯Relaxor: New Insights into H-Disordering in a One-Dimensional H₂O Ice Analogue. *Crystal Growth and Design*, **2010**, 10, 4334-4338 3-5 32

442	Band Gap Engineering in MASnBr and CsSnBr Perovskites: Mechanistic Insights through the Application of Pressure. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7398-7405	6.4	31
441	Hydrogen Bonds NH \cdots N in Compressed Benzimidazole Polymorphs. <i>Crystal Growth and Design</i> , 2013 , 13, 696-700	3.5	31
440	Compression of Intermolecular Interactions in CS ₂ Crystal. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 19089-19092	3.4	31
439	Polymorphism of maleic hydrazide. I. <i>Acta Crystallographica Section B: Structural Science</i> , 2001 , 57, 697-704		31
438	Thermodynamic behaviour of bistable NH \cdots N hydrogen bonds in monosalts of 1,4-diazabicyclo[2.2.2]octane. <i>Chemical Physics Letters</i> , 2000 , 318, 427-432	2.5	31
437	Structural phase transitions in guanidinium nitrate. <i>Journal of Molecular Structure</i> , 1996 , 378, 205-223	3.4	31
436	Rigid H ₂ O Molecule Model of Anomalous Thermal Expansion of Ices. <i>Physical Review Letters</i> , 1996 , 77, 4366-4369	7.4	31
435	Crystal structure of and solvent effect on tautomeric equilibrium in Schiff base derived from 2-hydroxy-1-naphthaldehyde and methylamine studied by X-ray diffraction, DFT, NMR and IR methods. <i>Journal of Molecular Structure</i> , 2009 , 929, 32-42	3.4	30
434	Molecular structures and hydrogen bonding in the 1 : 1 and 1 : 2 complexes of pyridine betaine with 2,6-dichloro-4-nitrophenol; an example of strongly coupled hydrogen bonds, O \cdots H \cdots O \cdots C \cdots O \cdots H \cdots O \cdots <i>Journal of Molecular Structure</i> , 1997 , 416, 145-160	3.4	30
433	Molecular structure of the 1:1 inclusion complex of monensin A lithium salt with acetonitrile. <i>Journal of Molecular Structure</i> , 2007 , 871, 92-97	3.4	30
432	In situ high-pressure crystallization and compression of halogen contacts in dichloromethane. <i>Acta Crystallographica Section B: Structural Science</i> , 2005 , 61, 595-600		30
431	High-pressure X-ray diffraction study of pentaerythritol. <i>Acta Crystallographica Section B: Structural Science</i> , 1995 , 51, 873-879		30
430	Compressed Arsenolite As ₄ O ₆ and Its Helium Clathrate As ₄ O ₆ ·2He. <i>Crystal Growth and Design</i> , 2015 , 15, 3740-3745	3.5	29
429	Conformational polymorphs of 1,1,2,2-tetrachloroethane: pressure vs. temperature. <i>Chemical Communications</i> , 2011 , 47, 8769-71	5.8	28
428	Effect of halogen atom exchange on the thermodynamic behavior and ferroelectric properties of [C(NH ₂) ₃] ₄ Br ₂ SO ₄ . <i>Physical Review B</i> , 2006 , 73,	3.3	28
427	Molecular structures and hydrogen bonding of 1:1 and 2:1 complexes of quinoline betaine with perchloric acid. <i>Journal of Molecular Structure</i> , 2002 , 609, 19-28	3.4	28
426	X-ray, FTIR and ab initio HF studies of OHO hydrogen bond in 4-dimethylamino-2,6-dimethylpyridine N-oxide 4-toluenesulphonate. Proton transfer in O \cdots H \cdots O complexes and correlation between the O \cdots O, C \cdots O and N \cdots O distances and pK _a . <i>Journal of Molecular Structure</i> , 1999 , 484, 49-61	3.4	28
425	Pressure-Generated Hydrogen Bonds and the Role of Subtle Molecular Features in Tetrahydrofuran. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 844-849	6.4	27

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- 422 Density, freezing and molecular aggregation in pyridazine, pyridine and benzene. *CrystEngComm*, **2010**, 12, 2561 3.3 26
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- 420 Pressure-controlled aggregation in carboxylic acids. A case study on the polymorphism of bromochlorofluoroacetic acid. *CrystEngComm*, **2009**, 11, 2668 3.3 26
- 419 High-pressure in-situ crystallization, structure and phase transitions in 1,2-dichloroethane. *Zeitschrift Fur Kristallographie - Crystalline Materials*, **2004**, 219, 573-579 1 26
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- 416 Synthesis, crystal structures and antibacterial activity studies of aza-derivatives of phytoalexin from cotton plant-gossypol. *European Journal of Medicinal Chemistry*, **2009**, 44, 4393-403 6.8 25
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- 414 Crystal and molecular structure, hydrogen bonding and electrostatic interactions of bis(homarine) hydrogen perchlorate studied by X-ray diffraction, DFT calculations, FTIR and Raman spectroscopies. *Journal of Molecular Structure*, **2007**, 839, 99-106 3.4 25
- 413 Molecular structure of rubidium six-coordinated dihydrate complex with monensin A. *Journal of Molecular Structure*, **2008**, 888, 224-229 3.4 25
- 412 DTA investigation of phase transitions in 1,3-cyclohexanedione under high pressures. *Solid State Communications*, **1992**, 82, 277-281 1.6 25
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- 410 Pressure-Induced Hydration of 1,4-Diazabicyclo[2.2.2]octane Hydroiodide (dabcoHI). *Crystal Growth and Design*, **2011**, 11, 2250-2256 3.5 24
- 409 1,1-Dichloroethane: a molecular crystal structure without van der Waals contacts?. *Journal of Physical Chemistry B*, **2008**, 112, 1184-8 3.4 24
- 408 Conformational analysis of bis(trigonelline) hydrochloride, perchlorate and their monohydrates by the B3LYP calculations, X-ray diffraction and vibrational spectra. *Journal of Molecular Structure*, **2006**, 784, 98-108 3.4 24
- 407 Stereochemistry and transformation of O-H...O hydrogen bonds Part II. Evaluation of Tc in hydrogen-bonded ferroelectrics from structural data. *Journal of Molecular Structure*, **1996**, 374, 177-189 3.4 24

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405	Most Frequent Organic Interactions Compressed in Toluene. <i>Crystal Growth and Design</i> , 2016 , 16, 1435-1441	3.4	23
404	Reinvestigation of the structure of monensin A phenylurethane sodium salt based on X-ray crystallographic and spectroscopic studies, and its activity against hospital strains of methicillin-resistant <i>S. epidermidis</i> and <i>S. aureus</i> . <i>Journal of Antibiotics</i> , 2011 , 64, 249-56	3.7	23
403	Competing hydrogen-bonding patterns and phase transitions of 1,2-diaminoethane at varied temperature and pressure. <i>Acta Crystallographica Section B: Structural Science</i> , 2006 , 62, 1078-89		23
402	Molecular structure of the complex of N-methylmorpholine betaine with 2,4-dinitrophenol. <i>Journal of Molecular Structure</i> , 2005 , 741, 1-9	3.4	23
401	Phase Transitions and Polymerization of C ₆ H ₆ ⋯C ₆ F ₆ Cocrystal under Extreme Conditions. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 29510-29519	3.8	23
400	Piezochromic Topology Switch in a Coordination Polymer. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 929-935	6.4	22
399	Reversible pressure pre-amorphization of a piezochromic metal-organic framework. <i>Dalton Transactions</i> , 2017 , 46, 14795-14803	4.3	22
398	Gold nanorods as a high-pressure sensor of phase transitions and refractive-index gauge. <i>Nanoscale</i> , 2019 , 11, 8718-8726	7.7	22
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396	Transformable H-bonds and conformation in compressed glucose. <i>Chemical Science</i> , 2015 , 6, 1991-1995	9.4	22
395	The Interplay of Molecular Conformation and Crystal Packing in Pressure-Frozen Tetramethylsilane. <i>Crystal Growth and Design</i> , 2008 , 8, 211-214	3.5	22
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391	Colossal Monotonic Response to Hydrostatic Pressure in Molecular Crystal Induced by a Chemical Modification. <i>Crystal Growth and Design</i> , 2014 , 14, 4247-4253	3.5	21
390	High-Pressure Crystallization and Structural Transformations in Compressed R,S-Ibuprofen. <i>Crystal Growth and Design</i> , 2015 , 15, 1512-1517	3.5	21
389	The 1:2:1 adduct of DABCO dication, hydrogen squarate and water molecules studied by X-ray diffraction and FTIR spectroscopy. <i>Journal of Molecular Structure</i> , 2011 , 998, 240-245	3.4	21

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- 385 X-ray and B3LYP structures and vibrational spectra of pyridine betaine perchlorate monohydrate and conformation of $\text{N}^+\text{CH}_2\text{COO}$ moiety in crystalline betaines. *Journal of Molecular Structure*, **2003**, 651-653, 621-634 3.4 21
- 384 High-Pressure Preference for the Low Z? Polymorph of a Molecular Crystal. *Crystal Growth and Design*, **2016**, 16, 3947-3953 3.5 20
- 383 Wallach's Rule Enforced by Pressure in Mandelic Acid. *Journal of Physical Chemistry C*, **2014**, 118, 4309-4318 3.8 20
- 382 Pressure-Induced Solvate Crystallization of 1,4-Diazabicyclo[2.2.2]octane Perchlorate with Methanol. *Crystal Growth and Design*, **2014**, 14, 2187-2191 3.5 20
- 381 Structure of the high-pressure phase IV of KH_2PO_4 (KDP). *Dalton Transactions*, **2013**, 42, 863-6 4.3 20
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- 379 X-ray, MP2 and DFT studies of the structure and vibrational spectra of trigonellinium chloride. *Chemical Physics*, **2003**, 289, 201-219 2.3 20
- 378 Competition between Halogen and Hydrogen Bonds in Triiodoimidazole Polymorphs. *Crystal Growth and Design*, **2016**, 16, 3869-3874 3.5 20
- 377 Research Update: Tricritical point and large caloric effect in a hybrid organic-inorganic perovskite. *APL Materials*, **2018**, 6, 100701 5.7 20
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369	Hydrogen bonds and proton location in 1:1 and 2:1 complexes of N-methylmorpholine betaine with picric acid. <i>Journal of Molecular Structure</i> , 2002 , 615, 73-81	3.4	19
368	Ionic disparity of identical molecules in polymorphs. <i>Organic Letters</i> , 2003 , 5, 1903-5	6.2	19
367	Molecular structure of bis(pyridiniumvalerate) hydrogen perchlorate studied by X-ray diffraction, FTIR spectroscopy, PM3 and SAM1 calculations. <i>Journal of Molecular Structure</i> , 2000 , 555, 203-212	3.4	19
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365	Dynamic Covalent Chemistry under High-Pressure:A New Route to Disulfide Metathesis. <i>Chemistry - A European Journal</i> , 2018 , 24, 8769-8773	4.8	18
364	Why Propane?. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4759-4763	3.8	18
363	Humidity Control of Isostructural Dehydration and Pressure-Induced Polymorphism in 1,4-Diazabicyclo[2.2.2]octane Dihydrobromide Monohydrate. <i>Crystal Growth and Design</i> , 2011 , 11, 4892-4899	3.5	18
362	Structural and antimicrobial studies of a new N-phenylamide of monensin A complex with sodium chloride. <i>Journal of Molecular Structure</i> , 2009 , 923, 53-59	3.4	18
361	The structure of 4-(trimethylammonium)benzoic acid chloride studied by X-ray diffraction, DFT calculations, NMR and FTIR spectroscopy. <i>Journal of Molecular Structure</i> , 2011 , 996, 75-81	3.4	18
360	Structural and spectroscopic studies of the 1:1 complex of lasalocid acid with 1,5,7-triazabicyclo[4.4.0]dec-5-ene. <i>Journal of Molecular Structure</i> , 2008 , 875, 501-508	3.4	18
359	Competing patterns of weak directional forces in pressure-frozen CH ₂ ClI and CH ₂ I ₂ . <i>Journal of Physical Chemistry B</i> , 2008 , 112, 5355-62	3.4	18
358	Halogen...halogen interactions in pressure-frozen ortho- and meta-dichlorobenzene isomers. <i>Acta Crystallographica Section B: Structural Science</i> , 2007 , 63, 124-31		18
357	Quantitative comparisons of structures. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2004 , 219, 1-11	1	18
356	Macroscopic and structural effects of hydrogen-bond transformations. <i>Crystallography Reviews</i> , 2003 , 9, 91-133	1.3	18
355	Reactivity of 6-chloro-4- and 5-hydrazino-2-phenyl-3(2H)-pyridazinones with Vilsmeier reagent. <i>Tetrahedron</i> , 1994 , 50, 12933-12940	2.4	18
354	Giant Anomalous Strain between High-Pressure Phases and the Mesomers of Urea. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 778-784	3.8	17
353	Quantitative estimate of cohesion forces. <i>CrystEngComm</i> , 2015 , 17, 9423-9430	3.3	17

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