

Ivan NÄ>mec

List of Publications by Year in descending order

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66
papers

1,023
citations

361413

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477307

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times ranked

1071
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#	ARTICLE	IF	CITATIONS
1	Novel compounds of 4-amino-1,2,4-triazole with dicarboxylic acids – crystal structures, vibrational spectra and non-linear optical properties. <i>Journal of Molecular Structure</i> , 2008, 873, 46-60.	3.6	80
2	Potential and limits of Raman spectroscopy for carotenoid detection in microorganisms: implications for astrobiology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20140199.	3.4	61
3	Microanalysis of clay-based pigments in painted artworks by the means of Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1570-1577.	2.5	50
4	A new series of 3,5-diamino-1,2,4-triazolium(1+) inorganic salts and their potential in crystal engineering of novel NLO materials. <i>CrystEngComm</i> , 2012, 14, 4625.	2.6	41
5	Preparation, crystal structure, vibrational spectra and thermal behaviour of piperazinium(2+) selenite monohydrate and piperazinium(2+) diselenite. <i>Journal of Molecular Structure</i> , 2002, 606, 101-116.	3.6	34
6	The structural phase transitions of aminoguanidinium(1+) dihydrogen phosphate – study of crystal structures, vibrational spectra and thermal behavior. <i>Journal of Solid State Chemistry</i> , 2004, 177, 4655-4664.	2.9	33
7	The crystal structure, vibrational spectra, thermal behaviour and second harmonic generation of aminoguanidinium(1+) hydrogen l-tartrate monohydrate. <i>Journal of Molecular Structure</i> , 2007, 832, 101-107.	3.6	32
8	Semi-organic salts of aniline with inorganic acids: prospective materials for the second harmonic generation. <i>CrystEngComm</i> , 2011, 13, 4131.	2.6	32
9	Study of the Family of Glycine – Selenious Acid Addition Compounds: Crystal Structure of Diglycine Hydrogen Selenite and Vibrational Spectra and DSC Measurement of Diglycine Hydrogen Selenite and Monoglycine – Selenious Acid Crystals. <i>Journal of Solid State Chemistry</i> , 1998, 140, 71-82.	2.9	31
10	The Crystal Structure, Vibrational Spectra, and Thermal Behavior of Piperazinium(2+) Selenate Monohydrate and N, N'-Dimethylpiperazinium(2+) Selenate Dihydrate. <i>Journal of Solid State Chemistry</i> , 2000, 150, 305-315.	2.9	31
11	Dussertite $\text{BaFe}^{3+}_3(\text{AsO}_4)_2(\text{OH})_5$ – a Raman spectroscopic study of a hydroxy-arsenate mineral. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 56-61.	2.5	30
12	Inorganic salts of biguanide – Searching for new materials for second harmonic generation. <i>Journal of Molecular Structure</i> , 2008, 886, 103-120.	3.6	27
13	Quantitative structure – property relationships of new benzoxazines and their electrooxidation as a model of metabolic degradation. <i>Electrochimica Acta</i> , 2005, 50, 1431-1437.	5.2	26
14	Organic salts of biguanide – An attempt to crystal engineering of novel materials for second harmonic generation. <i>Journal of Molecular Structure</i> , 2010, 966, 23-32.	3.6	26
15	Crocoite PbCrO_4 and mimetite $\text{Pb}_5(\text{AsO}_4)_3\text{Cl}$: rare minerals in highly degraded mediaeval murals in Northern Bohemia. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 848-858.	2.5	26
16	Novel material for second harmonic generation: 3-Amino-1,2,4-triazolinium(1+) hydrogen l-tartrate. <i>Journal of Molecular Structure</i> , 2007, 834-836, 328-335.	3.6	24
17	Guanylurea(1+) hydrogen phosphite: a novel promising phase-matchable material for second harmonic generation. <i>CrystEngComm</i> , 2010, 12, 2054.	2.6	24
18	Infrared and Visible Photodissociation Spectra of Rhodamine Ions at 3 K in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12648-12655.	2.5	24

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19	CoCrystals of 2-Amino-5-Nitropyridine Barbitol with Extreme Birefringence and Large Second Harmonic Generation Effect. <i>Chemistry - A European Journal</i> , 2018, 24, 8727-8731.	3.3	24
20	Crystal Structure and Infrared Absorption Spectra of Magnesium(II) Hydrogen Selenite Tetrahydrate, Mg(HSeO ₃) ₂ ·4H ₂ O. <i>Journal of Solid State Chemistry</i> , 1996, 122, 338-342.	2.9	22
21	Lidocaine barbiturate: a promising material for second harmonic generation. <i>CrystEngComm</i> , 2013, 15, 3275.	2.6	20
22	The efficiency of micro-Raman spectroscopy in the analysis of complicated mixtures in modern paints: Munch's and Kupka's paintings under study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 156, 36-46.	3.9	19
23	The crystal structure, vibrational spectra, and thermal behavior of dilithium piperazinium(2+) selenate tetrahydrate and dilithium N,N-dimethylpiperazinium(2+) selenate tetrahydrate. <i>Journal of Solid State Chemistry</i> , 2003, 170, 308-319.	2.9	18
24	Comparison of analytical tools appropriate for identification of proteinaceous additives in historical mortars. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 189-200.	3.7	18
25	Naturally irradiated fluorite as a historic violet pigment: Raman spectroscopic and X-ray diffraction study. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 236-243.	2.5	17
26	Raman spectroscopic study of the <i>Chromobacterium violaceum</i> pigment violacein using multiwavelength excitation and DFT calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 151, 459-467.	3.9	17
27	Crystal growth, crystal structure, vibrational spectroscopy, linear and nonlinear optical properties of guanidinium phosphates. <i>Optical Materials</i> , 2017, 69, 420-431.	3.6	17
28	S-(α)-1-phenyl ethyl ammonium(1+) sulphate and S-(α)-1-phenyl ethyl ammonium(1+) hydrogen phosphate 2.5 hydrate, preparation and characterization of crystallographic, optical and dielectric properties. <i>Journal of Molecular Structure</i> , 2010, 980, 31-38.	3.6	15
29	On preparation of nanocrystalline chromites by co-precipitation and autocombustion methods. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 195, 66-73.	3.5	14
30	Synthesis of new polymers involving deltahedral carborane units. <i>Macromolecular Chemistry and Physics</i> , 1997, 198, 193-218.	2.2	13
31	Uroxite and metauroxite, the first two uranyl oxalate minerals. <i>Mineralogical Magazine</i> , 2020, 84, 131-141.	1.4	10
32	4-Amino-1H-1,2,4-triazol-1-ium nitrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o18-o19.	0.2	9
33	Organic salts of guanazole – Seeking for new materials for second harmonic generation. <i>Journal of Molecular Structure</i> , 2013, 1044, 239-247.	3.6	9
34	(2-Azonioethyl)guanidinium dichloride – A promising phase-matchable NLO material employing a simple hydrogen bond acceptor in its structure. <i>Optical Materials</i> , 2015, 42, 39-46.	3.6	9
35	The pink pigment prodigiosin: Vibrational spectroscopy and DFT calculations. <i>Dyes and Pigments</i> , 2016, 134, 234-243.	3.7	9
36	The study of crystal structures and vibrational spectra of inorganic salts of 2,4-diaminopyrimidine. <i>Journal of Molecular Structure</i> , 2016, 1103, 82-93.	3.6	9

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37	Cocrystals of 2-Aminopyrimidine with Boric Acid – Crystal Engineering of a Novel Nonlinear Optically (NLO) Active Crystal. <i>Crystals</i> , 2019, 9, 403.	2.2	9
38	Raman spectroscopic search for scytonemin and gloeocapsin in endolithic colonizations in large gypsum crystals. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 2633-2647.	2.5	9
39	The effect of the structure of the substituent in position ten on the voltammetric behaviour of phenothiazin derivatives. <i>Collection of Czechoslovak Chemical Communications</i> , 1990, 55, 63-71.	1.0	8
40	Preparation, Crystal Structure, Vibrational Spectra, and Thermal Behavior of N,N'-Dimethylpiperazinium(2+) Hydrogen Selenite. <i>Journal of Solid State Chemistry</i> , 2001, 161, 312-318.	2.9	7
41	Tris(2-amino-1,3-thiazolium) hydrogen sulfate sulfate monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o3216-o3217.	0.2	7
42	1,1-Dimethylbiguanidium(2+) dinitrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o18-o19.	0.2	7
43	Comparison of the hydrogen-bond patterns in 2-amino-1,3,4-thiadiazolium hydrogen oxalate, 2-amino-1,3,4-thiadiazole – succinic acid (1/2), 2-amino-1,3,4-thiadiazole – glutaric acid (1/1) and 2-amino-1,3,4-thiadiazole – adipic acid (1/1). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2014, 70, 927-933.	0.5	7
44	Preparation, crystal structure, vibrational spectra and thermal behavior of selenites of ethylene diamine, 1,3-propylene diamine and 1,4-butylene diamine. <i>Journal of Solid State Chemistry</i> , 2003, 170, 390-403.	2.9	6
45	Novel organic NLO material bis(N-phenylbiguanidium(1+)) oxalate – A combined X-ray diffraction, DSC and vibrational spectroscopic study of its unique polymorphism. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 170, 256-266.	3.9	6
46	Crystal Structure and (Non)linear Optical Properties of a Cyanuric Acid Isoniazid <1/1> Co-crystal: Shortcomings of Phase Matching Determination from Powdered Samples. <i>Crystal Growth and Design</i> , 2019, 19, 6831-6836.	3.0	6
47	Electrochemical oxidation of thiobenzanilide. <i>Electroanalysis</i> , 1994, 6, 75-78.	2.9	5
48	Bis(2-phenylbiguanidium) adipate tetrahydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o118-o119.	0.2	5
49	Single crystals of guanidinium zinc sulfate, [C(NH ₂) ₃] ₂ Zn(SO ₄) ₂ – growth, structure, vibrational spectroscopy and stimulated Raman scattering. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2015, 230, 639-649.	0.8	5
50	Crystal growth, thermal expansion, pyroelectricity and vibrational spectroscopy of barium antimony tartrate, Ba[Sb ₂ (+)C ₄ H ₂ O ₆] ₂ · 3H ₂ O. <i>Optical Materials</i> , 2019, 91, 70-79.	3.6	5
51	Linear and nonlinear optical properties, pyroelectricity and vibrational spectroscopy of polar guanidinium hydrogen phosphite, GuH ₂ PO ₃ , and hydrogen selenite, GuHSeO ₃ . <i>Optical Materials</i> , 2021, 111, 110722.	3.6	5
52	2-Phenylbiguanidinium hydrogen succinate methanol monosolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o3187-o3188.	0.2	5
53	2-Amino-1,3-thiazolium dihydrogen phosphate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o3410-o3411.	0.2	3
54	Observation of stimulated Raman scattering in polar tetragonal crystals of barium antimony tartrate trihydrate, Ba[Sb ₂ (+)C ₄ H ₂ O ₆] ₂ · 3H ₂ O. <i>Annalen Der Physik</i> , 2017, 529, 1600295.	2.4	3

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55	Bis[(5 <i>RS</i> ,11 <i>RS</i>)-2,8-dimethyl-5,10-methano-5,6,11,12-tetrahydrobenzo[<i>b,f</i>][1,5]diazocine-5-ium dihydrogen phosphate] tris(phosphoric acid) methanol solvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o3941-o3943.	0.2	2
56	Twisted intramolecular charge transfer and its contribution to the NLO activity of Diglycine Picrate: A vibrational spectroscopic study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 720-731.	3.9	2
57	Crystal structures and vibrational spectra of biuret co-crystals with cyanuric and glutaric acids, discussion of hydrogen bonding involving carbonyl groups. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2016, 231, 291-300.	0.8	2
58	Crystallographic aspects of hydrated salts of 4,6-diaminopyrimidine with the first five dicarboxylic acids. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017, 232, 471-484.	0.8	2
59	Electrochemical Oxidation of Probuocol in Anhydrous Acetonitrile. <i>Collection of Czechoslovak Chemical Communications</i> , 1999, 64, 1100-1110.	1.0	2
60	Novel Materials for Second Harmonic Generation - Salts of L-Valine and Selenic Acid. <i>Materials Research Society Symposia Proceedings</i> , 2002, 725, 1.	0.1	1
61	Order-disorder phase transition in the peroxidovanadium complex $\text{NH}_4[\text{VO}(\text{O})_2]_2(\text{NH}_3)_3$. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 200, 110-115.	3.9	1
62	Solid phases in the systems glycine \cdot ZnX ₂ \cdot H ₂ O (X=Cl ⁻ , Br ⁻ , I ⁻) at 25 ^\circ C. <i>Monatshefte Für Chemie</i> , 2018, 149, 299-311.	1.8	1
63	The crystal structure of 3-amino-(2,4-dioxopent-3-yl)-4,5-dihydro-1,2,4-triazinium nitrate, $\text{C}_8\text{H}_{13}\text{N}_5\text{O}_5$. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2019, 234, 461-463.	0.3	1
64	Novel Salts of 2,4-Diaminoquinazoline: Searching for Materials for Second Harmonic Generation Based on a Promising Polarizable Cation. <i>Journal of Chemical Crystallography</i> , 2012, 42, 809-815.	1.1	0
65	Frontispiece: Co-Crystals of 2-Amino-5-Nitropyridine Barbitol with Extreme Birefringence and Large Second Harmonic Generation Effect. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
66	Inorganic Salts of N-phenylbiguanidium(1+) - Novel Family with Promising Representatives for Nonlinear Optics. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8419.	4.1	0