

# Jerzy Hanuza

## List of Publications by Year in descending order

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96  
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212478

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docs citations

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2954  
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#	ARTICLE	IF	CITATIONS
1	The Structural and Optical Properties of 1,2,4-Triazolo[4,3-a]pyridine-3-amine. <i>Molecules</i> , 2022, 27, 721.	1.7	4
2	Structural and Luminescence Behavior of Nanocrystalline Orthophosphate $KMeY(PO_4)_2: Eu^{3+}$ (Me =) Tj ETQq0 0 0,rgBT /Overlock 10 Tf	1.5	3
3	Spectroscopic Evidence of Thermal Changes in Plant Oils during Deep-Frying“Chemical and Infrared Studies. <i>Plants</i> , 2022, 11, 1813.	1.6	6
4	Spectroscopic and biochemical characteristics of flax transgenic callus cultures producing PHB. <i>Plant Cell, Tissue and Organ Culture</i> , 2020, 141, 489-497.	1.2	4
5	Rearrangement of cell wall polymers in flax infected with a pathogenic strain of <i>Fusarium culmorum</i> . <i>Physiological and Molecular Plant Pathology</i> , 2020, 110, 101461.	1.3	3
6	3-Hydroxybutyrate Is Active Compound in Flax that Upregulates Genes Involved in DNA Methylation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2887.	1.8	11
7	Effect of mcl-PHA synthesis in flax on plant mechanical properties and cell wall composition. <i>Transgenic Research</i> , 2019, 28, 77-90.	1.3	9
8	Crystal structure, conformation and vibrational characteristics of diethyl 4,4“-disulfanediylbis(6-methyl-2-phenylpyrimidine-5-carboxylate) “ A new pharmaceutical cure. <i>Arabian Journal of Chemistry</i> , 2019, 12, 881-896.	2.3	4
9	Crystal structure, phonon and luminescence properties of $AgRE(WO_4)_2$ tungstates, where $RE^{3+} = Y, Pr, Nd, Sm - Lu$ . <i>Journal of Alloys and Compounds</i> , 2018, 745, 779-788.	2.8	8
10	Spectral and energetic transformation of femtosecond light impulses in the $Eu^{3+}$ complex with dehydroacetic acid. <i>Journal of Luminescence</i> , 2018, 198, 471-481.	1.5	4
11	Depth profiling of horse fat tissue using mid-infrared and confocal Raman microscope. <i>Spectroscopy Letters</i> , 2018, 51, 81-88.	0.5	2
12	Spectroscopic investigation and DFT modelling studies of $Eu^{3+}$ complex with 1-(2,6-dihydroxyphenyl)ethanone. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 200, 322-329.	2.0	0
13	Magnetic, optical and phonon properties of novel heterometallic“formates $[NH_3CH_2CH_2OH][MIIIMII(HCOO)_6]$ (MIII = Fe, Cr; MII = Mn, Ni, Co). <i>Journal of Solid State Chemistry</i> , 2018, 260, 7-15.	1.4	6
14	Syntheses, spectroscopic properties and molecular structure of silver phytate complexes - IR, UV-VIS studies and DFT calculations. <i>Journal of Molecular Structure</i> , 2018, 1156, 483-491.	1.8	19
15	Synthesis, magnetic and vibrational properties of two novel mixed-valence iron(II)-iron(III) formate frameworks. <i>Journal of Solid State Chemistry</i> , 2018, 258, 163-169.	1.4	8
16	Spectroscopic properties of $Eu^{3+}$ complex with 2-hydroxy-4-metoxy-benzophenone “ IR, Raman, DFT calculations and femtosecond laser excited luminescence. <i>Journal of Luminescence</i> , 2017, 190, 371-378.	1.5	0
17	Quantitative determination of the iodine values of unsaturated plant oils using infrared and Raman spectroscopy methods. <i>International Journal of Food Properties</i> , 2017, 20, 2003-2015.	1.3	30
18	Crystal and molecular structures, IR and Raman spectra, vibrational dynamics of aquo 7-methyl-1H-[1,2,3]triazolo[4,5-c]pyridinium nitrate “ a new composite material. <i>Journal of Molecular Structure</i> , 2017, 1133, 9-17.	1.8	4

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19	Structural and optical studies of Eu <sup>3+</sup> doped Na <sub>3</sub> Mg <sub>2</sub> P <sub>5</sub> O <sub>16</sub> pentaphosphate. Journal of Alloys and Compounds, 2017, 695, 21-26.	2.8	6
20	Molecular structure and vibrational properties of pyramidal MPC <sup>+</sup> phthalocyanine cation in InPcl and LuPc(OAc) complexes. Journal of Molecular Structure, 2017, 1130, 699-710.	1.8	2
21	Synthesis and characterization of two novel chiral-type formate frameworks templated by protonated diethylamine and ammonium cations. Journal of Solid State Chemistry, 2017, 245, 23-29.	1.4	7
22	Molecular structure and vibrational spectra of quercetin and quercetin-5-sulfonic acid. Vibrational Spectroscopy, 2017, 88, 94-105.	1.2	23
23	Crystal and molecular structures, temperature dependence of the IR and Raman spectra and vibrational dynamics of aquo 4,6-dimethyl-5H-[1,2,3]triazolo[4,5-c]pyridine in a new zwitterionic form. Journal of Molecular Structure, 2017, 1144, 482-495.	1.8	4
24	Chalcone Synthase (CHS) Gene Suppression in Flax Leads to Changes in Wall Synthesis and Sensing Genes, Cell Wall Chemistry and Stem Morphology Parameters. Frontiers in Plant Science, 2016, 7, 894.	1.7	32
25	Structural, thermal, dielectric and phonon properties of perovskite-like imidazolium magnesium formate. Physical Chemistry Chemical Physics, 2016, 18, 13993-14000.	1.3	43
26	Evaluation of the significance of cell wall polymers in flax infected with a pathogenic strain of Fusarium oxysporum. BMC Plant Biology, 2016, 16, 75.	1.6	25
27	Structural, Raman, FT-IR and optical properties of Rb <sub>3</sub> Y <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> and Rb <sub>3</sub> La(PO <sub>4</sub> ) <sub>2</sub> doped with Eu <sup>3+</sup> ions. New Journal of Chemistry, 2015, 39, 8474-8483.	1.4	9
28	Spectroscopic and structural properties of Na <sub>3</sub> RE(PO <sub>4</sub> ) <sub>2</sub> :Yb orthophosphates synthesised by hydrothermal method (RE=Y, Gd). Journal of Alloys and Compounds, 2015, 628, 199-207.	2.8	22
29	High-resolution Brillouin scattering studies of phase transitions in Ca <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> and Ca <sub>2</sub> ZnSi <sub>2</sub> O <sub>7</sub> silicates. Journal of Alloys and Compounds, 2015, 638, 34-37.	2.8	4
30	Polarized Raman and IR spectra of oriented Cd <sub>0.9577</sub> Gd <sub>0.0282</sub> – <sub>i</sub> 0.0141MoO <sub>4</sub> and Cd <sub>0.9346</sub> Dy <sub>0.0436</sub> – <sub>i</sub> 0.0218MoO <sub>4</sub> single crystals where <sub>i</sub> denotes the cationic vacancies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 148, 255-259.	2.0	12
31	Synthesis of polymer-based hybrid materials via Mn(II) oxidation with N-bromosulphonamide polymer and their characterization. Journal of Materials Science, 2015, 50, 4300-4311.	1.7	4
32	Impact of CAD-deficiency in flax on biogas production. Transgenic Research, 2015, 24, 971-978.	1.3	8
33	Effect of aliovalent doping on the properties of perovskite-like multiferroic formates. Journal of Materials Chemistry C, 2015, 3, 9337-9345.	2.7	70
34	Synthesis, crystal structure, magnetic and vibrational properties of formamidine-templated Co and Fe formates. Polyhedron, 2015, 85, 137-143.	1.0	38
35	NEW CHITOSAN WOUND DRESSING – FIRST STEP - THE CYTOTOXICITY EVALUATION. Progress on Chemistry and Application of Chitin and Its Derivatives, 2015, XX, 97-109.	0.1	1
36	Does biopolymers composition in seeds contribute to the flax resistance against the <i>Fusarium</i> infection?. Biotechnology Progress, 2014, 30, 992-1004.	1.3	8

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37	Structural, optical and EPR studies of NaCe(PO <sub>3</sub> ) <sub>4</sub> metaphosphate doped with Cr <sup>3+</sup> . Journal of Luminescence, 2014, 146, 342-350.	1.5	7
38	Magnetic and low temperature phonon studies of CoCr <sub>2</sub> O <sub>4</sub> powders doped with Fe(III) and Ni(II) ions. Journal of Solid State Chemistry, 2014, 212, 218-226.	1.4	26
39	Structural, optical and EPR studies of Cr <sup>3+</sup> doped Na <sub>3</sub> Ce(PO <sub>4</sub> ) <sub>2</sub> orthophosphate. Journal of Alloys and Compounds, 2014, 606, 124-131.	2.8	6
40	Temperature- and Pressure-Induced Phase Transitions in the Metal Formate Framework of [ND <sub>4</sub> ][Zn(DCOO) <sub>3</sub> ] and [NH <sub>4</sub> ][Zn(HCOO) <sub>3</sub> ]. Inorganic Chemistry, 2014, 53, 9615-9624.	1.9	72
41	Order-Disorder Transition and Weak Ferromagnetism in the Perovskite Metal Formate Frameworks of [(CH <sub>3</sub> ) <sub>2</sub> NH] <sub>2</sub> [M(HCOO) <sub>3</sub> ] and [(CH <sub>3</sub> ) <sub>2</sub> ND] <sub>2</sub> [M(HCOO) <sub>3</sub> ] (M = Ni, Mn). Inorganic Chemistry, 2014, 53, 457-467.	1.9	176
42	Orthorhombic YAlO <sub>3</sub> – a novel many-phonon SRS-active crystal. Laser and Photonics Reviews, 2014, 8, 904-915.	4.4	6
43	Manipulating cinnamyl alcohol dehydrogenase (CAD) expression in flax affects fibre composition and properties. BMC Plant Biology, 2014, 14, 50.	1.6	41
44	Structural and optical properties of crystalline and nanocrystalline NaIn(WO <sub>4</sub> ) <sub>2</sub> :Cr <sup>3+</sup> . Journal of Alloys and Compounds, 2014, 585, 722-728.	2.8	7
45	Improved properties of micronized genetically modified flax fibers. Journal of Biotechnology, 2013, 164, 292-299.	1.9	16
46	Fibres from flax overproducing $\beta$ -1,3-glucanase show increased accumulation of pectin and phenolics and thus higher antioxidant capacity. BMC Biotechnology, 2013, 13, 10.	1.7	29
47	Synthesis, phonon and optical properties of nanosized CoCr <sub>2</sub> O <sub>4</sub> . Materials Chemistry and Physics, 2013, 138, 682-688.	2.0	58
48	Temperature-dependent XRD, IR, magnetic, SEM and TEM studies of Jahn-Teller distorted NiCr <sub>2</sub> O <sub>4</sub> powders. Journal of Solid State Chemistry, 2013, 201, 270-279.	1.4	67
49	Synthesis and spectroscopic properties of LiIn(WO <sub>4</sub> ) <sub>2</sub> nanopowders and single crystals doped with chromium(III) ions. Open Physics, 2013, 11, .	0.8	0
50	Structural and Vibrational Properties of Imidazo[4,5-c]pyridine, a Structural Unit in Natural Products. Journal of Natural Products, 2013, 76, 1637-1646.	1.5	4
51	FT-Raman spectroscopic study of human skin subjected to uniaxial stress. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 18, 240-252.	1.5	41
52	Correlation between the structural and spectroscopic parameters for Cd <sub>1-3x</sub> Gd <sub>2x-ix</sub> MoO <sub>4</sub> solid solutions where $x$ denotes cationic vacancies. Materials Chemistry and Physics, 2013, 139, 890-896.	2.0	22
53	Structure and vibrational properties of scheelite type Cd <sub>0.25</sub> RE <sub>0.5-x</sub> MoO <sub>4</sub> solid solutions where $x$ is the cationic vacancy and RE=Sm-Dy. Journal of Molecular Structure, 2013, 1037, 332-337.	1.8	19
54	Particle size effects on the magnetic and phonon properties of multiferroic CoCr <sub>2</sub> O <sub>4</sub> . Journal of Solid State Chemistry, 2013, 199, 295-304.	1.4	30

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55	SRS in diâ€glycine nitrate (NH <sub>2</sub> CH <sub>2</sub> COOH) <sub>2</sub> ·HNO <sub>3</sub> crystals: Observation of highâ€phonon nonlinear interactions. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 169-179.	0.7	7
56	EPR and optical properties of KY(WO <sub>4</sub> ) <sub>2</sub> :Gd <sup>3+</sup> powders. <i>Journal of Materials Research</i> , 2012, 27, 2973-2981.	1.2	6
57	High-pressure Raman scattering and an anharmonicity study of multiferroic wolframite-type Mn <sub>0.97</sub> Fe <sub>0.03</sub> WO <sub>4</sub> . <i>Journal of Physics Condensed Matter</i> , 2012, 24, 345403.	0.7	13
58	Polarized IR and Raman spectra of Ca <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> , Ca <sub>2</sub> ZnSi <sub>2</sub> O <sub>7</sub> and Sr <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> single crystals: Temperature-dependent studies of commensurate to incommensurate and incommensurate to normal phase transitions. <i>Journal of Solid State Chemistry</i> , 2012, 191, 90-101.	1.4	40
59	New biocomposites based on bioplastic flax fibers and biodegradable polymers. <i>Biotechnology Progress</i> , 2012, 28, 1336-1346.	1.3	32
60	Synthesis and characterization of polymer-based hybrid materials via oxidation of Mn(II) using N-chlorosulphonamide polymers. <i>Materials Chemistry and Physics</i> , 2012, 132, 870-879.	2.0	5
61	Temperature-dependent Raman and IR studies of multiferroic MnWO <sub>4</sub> doped with Ni <sup>2+</sup> ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 86, 85-92.	2.0	19
62	Phonon and magnetic properties of nanocrystalline MnWO <sub>4</sub> prepared by hydrothermal method. <i>Vibrational Spectroscopy</i> , 2012, 58, 163-168.	1.2	13
63	EPR and optical properties of KYb(WO <sub>4</sub> ) <sub>2</sub> and K <sub>10</sub> Yb <sub>8</sub> (WO <sub>4</sub> ) <sub>2</sub> single crystals. <i>Open Physics</i> , 2012, 10, .	0.8	2
64	Phonon properties of nanosized MnWO <sub>4</sub> with different size and morphology. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2446-2457.	1.4	22
65	Pressure-induced phase transitions in multiferroic RbFe(MoO <sub>4</sub> ) <sub>2</sub> â€Raman scattering study. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2812-2817.	1.4	21
66	Flavonoid engineering of flax potentiate its biotechnological application. <i>BMC Biotechnology</i> , 2011, 11, 10.	1.7	64
67	Raman and IR spectra of K <sub>4</sub> Nb <sub>6</sub> O <sub>17</sub> and K <sub>4</sub> Nb <sub>6</sub> O <sub>17</sub> ·3H <sub>2</sub> O single crystals. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 209-213.	1.2	47
68	Polarized IR and Raman spectra, temperature dependence of phonons and lattice dynamic calculations for M <sup>2+</sup> Ge <sub>2</sub> O <sub>7</sub> pyrogermanates (M <sup>2+</sup> = Sr, Ba; M <sup>3+</sup> = Mg, Zn). <i>Journal of Raman Spectroscopy</i> , 2011, 42, 782-789.		18
69	X-ray, SEM, Raman and IR studies of Bi <sub>2</sub> W <sub>2</sub> O <sub>9</sub> prepared by Pechini method. <i>Vibrational Spectroscopy</i> , 2010, 53, 199-203.	1.2	15
70	Biochemical, mechanical, and spectroscopic analyses of genetically engineered flax fibers producing bioplastic (polyâ€hydroxybutyrate). <i>Biotechnology Progress</i> , 2009, 25, 1489-1498.	1.3	39
71	Thermodynamic properties of rubidium niobium tungsten oxide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 98, 843-848.	2.0	12
72	Spectroscopic characterization of genetically modified flax fibres enhanced with poly-3-hydroxybutyric acid. <i>Journal of Molecular Structure</i> , 2009, 920, 214-219.	1.8	7

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73	Poly-3-hydroxy butyric acid interaction with the transgenic flax fibers: FT-IR and Raman spectra of the composite extracted from a GM flax. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 73, 286-294.	2.0	32
74	Chemical composition and molecular structure of fibers from transgenic flax producing polyhydroxybutyrate, and mechanical properties and platelet aggregation of composite materials containing these fibers. <i>Composites Science and Technology</i> , 2009, 69, 2438-2446.	3.8	41
75	Phonons in ferroelectric Bi <sub>2</sub> WO <sub>6</sub> : Raman and infrared spectra and lattice dynamics. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	73
76	Direct evidence of an order-disorder nature of ferroelectric phase transitions in K <sub>2</sub> MgWO <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> . <i>Applied Physics Letters</i> , 2007, 90, 122903.	1.5	5
77	Influence of thermally induced oxygen order on mobile ion dynamics in Gd <sub>2</sub> (Ti <sub>0.65</sub> Zr <sub>0.35</sub> ) <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , 2007, 75, .	1.1	41
78	Biosensor applications of luminescence depolarization effects in protein-modified silica films doped with organic luminophores. <i>Journal of Luminescence</i> , 2007, 122-123, 987-989.	1.5	4
79	Anti-Stokes Yb <sup>3+</sup> emission – Valuable structure information in spectra of rare earth compounds measured with FT-Raman spectrometers. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 1025-1029.	2.0	9
80	Structural manipulation of pyrochlores: Thermal evolution of metastable Gd <sub>2</sub> (Ti <sub>1-x</sub> Zr <sub>x</sub> ) <sub>2</sub> O <sub>7</sub> powders prepared by mechanical milling. <i>Journal of Solid State Chemistry</i> , 2006, 179, 3805-3813.	1.4	36
81	Facile synthesis, characterization and electrical properties of apatite-type lanthanum germanates. <i>Solid State Sciences</i> , 2006, 8, 168-177.	1.5	52
82	Vibrational spectra and chemical quantum calculations for 2-adamantylamino-5-nitropyridine crystals – a novel material for laser Raman converters. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 685-695.	2.0	7
83	Synthesis of disordered pyrochlores, Ti <sub>2</sub> O <sub>7</sub> (, Gd and Dy), by mechanical milling of constituent oxides. <i>Solid State Sciences</i> , 2005, 7, 343-353.	1.5	146
84	Crystal structure and vibrational properties of KMg <sub>4</sub> (PO <sub>4</sub> ) <sub>3</sub> . <i>Solid State Sciences</i> , 2005, 7, 1201-1208.	1.5	33
85	Synthesis of Disordered Pyrochlores, Ln <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> (Ln: Y, Gd and Dy), by Mechanical Milling of Constituent Oxides.. <i>ChemInform</i> , 2005, 36, no.	0.1	1
86	Crystal Structure and Vibrational Properties of KMg <sub>4</sub> (PO <sub>4</sub> ) <sub>3</sub> .. <i>ChemInform</i> , 2005, 36, no.	0.1	0
87	Comparison of the spectroscopic behaviour of single crystals of lanthanide halides (X = Cl, Br). <i>Journal of Alloys and Compounds</i> , 2004, 380, 327-336.	2.8	17
88	NaAl(MoO <sub>4</sub> ) <sub>2</sub> : a rare structure type among layered yavapaiite-related AM(XO <sub>4</sub> ) <sub>2</sub> compounds. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, i10-i13.	0.2	8
89	Brillouin scattering in RbNbWO <sub>6</sub> . <i>Journal of Applied Physics</i> , 2003, 94, 3781-3784.	1.1	5
90	Monocrystalline 2-Adamantylamino-5-Nitropyridine (AANP) – a Novel Organic Material for Laser Raman Converters in the Visible and Near-IR. <i>Japanese Journal of Applied Physics</i> , 2002, 41, L603-L605.	0.8	31

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91	Monoclinic bismuth triborate $\text{BiB}_3\text{O}_6$ – a new efficient $\chi^{(2)}$ - $\chi^{(3)}$ -nonlinear crystal: multiple stimulated Raman scattering and self-sum-frequency lasing effects. <i>Optics Communications</i> , 2002, 206, 179-191.	1.0	79
92	Raman study of phase transitions in potassium scandium double tungstate. <i>Ferroelectrics</i> , 1999, 229, 165-170.	0.3	1
93	Temperature Dependence of Raman Scattering Spectra of $\text{KSc}(\text{WO}_4)_2$ . <i>Journal of the Physical Society of Japan</i> , 1999, 68, 1948-1953.	0.7	7
94	HEAT CAPACITY MEASUREMENTS OF THE NORMAL- $\rightarrow$ -INCOMMENSURATE AND LOCK-IN TRANSITIONS IN $\text{KSc}(\text{WO}_4)_2$ AND $\text{KSc}(\text{MoO}_4)_2$ . <i>Journal of Physics and Chemistry of Solids</i> , 1998, 59, 1429-1432.	1.9	11
95	Synthesis, Spectroscopic, and Magnetic Properties of Rubidium Heptachlorodiuranate(III). <i>Journal of Solid State Chemistry</i> , 1996, 121, 312-318.	1.4	14
96	Synthesis, structural and spectroscopic properties of tetra(tetraethylammonium) heptaisothiocyanato uranate(III) and neodymate(III). <i>Journal of Alloys and Compounds</i> , 1995, 225, 338-343.	2.8	16