

# Jan K ZarÄba

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/534834/publications.pdf>

Version: 2024-02-01

59  
papers

2,029  
citations

304743

22  
h-index

254184

43  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2341  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferroelectricity and Piezoelectric Energy Harvesting of Hybrid A <sub>2</sub> BX <sub>4</sub> -Type Halogenocuprates Stabilized by Phosphonium Cations. ACS Materials Au, 2022, 2, 124-131.	6.0	8
2	Three-Dimensional Methylhydrazinium Lead Halide Perovskites: Structural Changes and Effects on Dielectric, Linear, and Nonlinear Optical Properties Entailed by the Halide Tuning. Journal of Physical Chemistry C, 2022, 126, 1600-1610.	3.1	34
3	A one-dimensional perovskite with ferroelectric and switchable nonlinear optical properties: [azetidinium]CdCl <sub>3</sub> . Journal of Materials Chemistry C, 2022, 10, 3036-3047.	5.5	17
4	More complex than originally thought: revisiting the origins of the relaxation processes in dimethylammonium zinc formate. Journal of Materials Chemistry C, 2022, 10, 6866-6877.	5.5	5
5	Efficient Piezoelectric Energy Harvesting from a Discrete Hybrid Bismuth Bromide Ferroelectric Templated by Phosphonium Cation. Chemistry - A European Journal, 2022, , .	3.3	6
6	Near-Infrared Phosphorescent Hybrid Organic-Inorganic Perovskite with High-Contrast Dielectric and Third-Order Nonlinear Optical Switching Functionalities. ACS Applied Materials & Interfaces, 2022, 14, 1460-1471.	8.0	42
7	Structural, magnetic and photoluminescence properties of new hybrid hypophosphites: discovery of the first noncentrosymmetric and two cobalt-based members. Dalton Transactions, 2022, 51, 9094-9102.	3.3	3
8	Benzyltrimethylammonium cadmium dicyanamide with polar order in multiple phases and prospects for linear and nonlinear optical temperature sensing. Dalton Transactions, 2021, 50, 10580-10592.	3.3	3
9	[Methylhydrazinium] <sub>2</sub> PbBr <sub>4</sub> , a Ferroelectric Hybrid Organic-Inorganic Perovskite with Multiple Nonlinear Optical Outputs. Chemistry of Materials, 2021, 33, 2331-2342.	6.7	97
10	Polymeric Nanocarriers with Luminescent Colloidal Nanoplatelets as Hydrophilic and Non-Toxic Two-Photon Bioimaging Agents. International Journal of Nanomedicine, 2021, Volume 16, 3649-3660.	6.7	3
11	Nonlinear Optical Properties of Emerging Nano- and Microcrystalline Materials. Advanced Optical Materials, 2021, 9, 2100216.	7.3	37
12	A Flexible Energy Harvester from an organic Ferroelectric Ammonium Salt. Chemistry - an Asian Journal, 2021, , .	3.3	4
13	OD Bismuth(III)-Based Hybrid Ferroelectric: Tris(acetamidinium) Hexabromobismuthate(III). Chemistry of Materials, 2021, 33, 8591-8601.	6.7	22
14	Phase transition in non-centrosymmetric 2-methyl-5-nitroanilinium dihydrogen phosphate: structural, spectroscopic and optical studies. Structural Chemistry, 2020, 31, 955-964.	2.0	5
15	Temperature-dependent luminescence and second-harmonic generation of perovskite-type manganese and cadmium dicyanamide frameworks templated by tetrapropylammonium cations. Journal of Alloys and Compounds, 2020, 821, 153464.	5.5	19
16	A new polar perovskite coordination network with azaspiroundecane as A-site cation. Dalton Transactions, 2020, 49, 10740-10744.	3.3	4
17	Two-dimensional metal dicyanamide frameworks of BeTriMe[M(dca) <sub>3</sub> (H <sub>2</sub> O)] (BeTriMe =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 magnetic orders and nonlinear optical threshold temperature sensing. Journal of Materials Chemistry C, 2020, 8, 11735-11747.	5.5	14
18	Hybrids of gold nanoparticles and oligo(p-phenyleneethynylene)s end-functionalized with alkynylruthenium groups: Outstanding two-photon absorption in the second biological window. Nano Research, 2020, 13, 2755-2762.	10.4	4

#	ARTICLE	IF	CITATIONS
19	Nonlinear Optical Pigments. Two-Photon Absorption in Crosslinked Conjugated Polymers and Prospects for Remote Nonlinear Optical Thermometry. <i>Polymers</i> , 2020, 12, 1670.	4.5	10
20	Revisiting a Perovskite-like Copper-Formate Framework $\text{NH}_4[\text{Cu}(\text{HCOO})_3]$ : Order-Disorder Transition Influenced by Jahn-Teller Distortion and above Room-Temperature Switching of the Nonlinear Optical Response between Two SHG-Active States. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18714-18723.	3.1	17
21	Advances and Property Investigations of an Organic-Inorganic Ferroelectric: (diisopropylammonium) $_2$ [CdBr $_4$ ]. <i>Inorganic Chemistry</i> , 2020, 59, 11986-11994.	4.0	23
22	On the supramolecular properties of neutral, anionic and cationic cadmium complexes harvested from dithiolate-polyamine binary ligand systems. <i>CrystEngComm</i> , 2020, 22, 8023-8035.	2.6	10
23	Lanthanide Contraction in Action: Structural Variations in 13 Lanthanide(III) Thiophene-2,5-dicarboxylate Coordination Polymers (Ln = La-Lu, Except Pm and Tm) Featuring Magnetocaloric Effect, Slow Magnetic Relaxation, and Luminescence-Lifetime-based Thermometry. <i>Crystal Growth and Design</i> , 2020, 20, 6430-6452.	3.0	41
24	One- and two-photon solvatochromism of the fluorescent dye Nile Red and its CF $_3$ , F and Br-substituted analogues. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 1382-1391.	2.9	15
25	Recurrent motifs in pharmaceutical cocrystals involving glycolic acid: X-ray characterization, Hirshfeld surface analysis and DFT calculations. <i>CrystEngComm</i> , 2020, 22, 6674-6689.	2.6	19
26	Cyano-bridged perovskite $[(\text{CH}_3)_3\text{NOH}]_2[\text{KM}(\text{CN})_6]$ , [M: Fe(III), and Co(III)] for high-temperature multi-axial ferroelectric applications with enhanced thermal and nonlinear optical performance. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17491-17501.	5.5	26
27	Structural diversity of hydrogen-bonded complexes comprising phenol-based and pyridine-based components: NLO properties and crystallographic and spectroscopic studies. <i>CrystEngComm</i> , 2020, 22, 4552-4565.	2.6	5
28	Postsynthetic Framework Contraction Enhances the Two-Photon Absorption Properties of Pillar-Layered Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2020, 32, 5682-5690.	6.7	15
29	Ferroelectricity in a lead free organic-inorganic OD hybrid: formamidinium bromoantimonate( $\text{FAPbBr}_3$ ). <i>Journal of Materials Chemistry C</i> , 2020, 8, 5025-5028.	5.5	11
30	Revisiting 2-chloro-4-nitroaniline: analysis of intricate supramolecular ordering of a triclinic polymorph featuring a high $\chi^2$ value and strong second harmonic generation. <i>CrystEngComm</i> , 2020, 22, 5073-5085.	2.6	5
31	Methylhydrazinium Lead Bromide: Noncentrosymmetric Three-Dimensional Perovskite with Exceptionally Large Framework Distortion and Green Photoluminescence. <i>Chemistry of Materials</i> , 2020, 32, 1667-1673.	6.7	142
32	Recurrent Supramolecular Motifs in a Series of Acid-Base Adducts Based on Pyridine-2,5-Dicarboxylic Acid $\text{N}_2\text{O}$ -Oxide and Organic Bases: Inter- and Intramolecular Hydrogen Bonding. <i>Crystal Growth and Design</i> , 2020, 20, 1738-1751.	3.0	27
33	First Experimental Evidences of the Ferroelectric Nature of Struvite. <i>Crystal Growth and Design</i> , 2020, 20, 4454-4460.	3.0	7
34	Three-Dimensional Perovskite Methylhydrazinium Lead Chloride with Two Polar Phases and Unusual Second-Harmonic Generation Bistability above Room Temperature. <i>Chemistry of Materials</i> , 2020, 32, 4072-4082.	6.7	104
35	Indirect influence of alkyl substituent on sigma-hole interactions: The case study of antimony(III) diphenyldithiophosphates with covalent Sb-S and non-covalent Sb-S pnictogen bonds. <i>Polyhedron</i> , 2019, 173, 114126.	2.2	18
36	Magnetic, luminescence, topological and theoretical studies of structurally diverse supramolecular lanthanide coordination polymers with flexible glutaric acid as a linker. <i>New Journal of Chemistry</i> , 2019, 43, 14546-14564.	2.8	29

#	ARTICLE	IF	CITATIONS
37	Platonic Relationships in Metal Phosphonate Chemistry: Ionic Metal Phosphonates. <i>Crystals</i> , 2019, 9, 301.	2.2	10
38	Three-Photon Absorption of Coordination Polymer Transforms UV-to-VIS Thermometry into NIR-to-VIS Thermometry. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 10435-10441.	8.0	48
39	On the interaction between up-converting NaYF <sub>4</sub> :Er <sup>3+</sup> , Yb <sup>3+</sup> nanoparticles and Rose Bengal molecules constrained within the double core of multifunctional nanocarriers. <i>Journal of Materials Chemistry C</i> , 2019, 7, 15021-15034.	5.5	17
40	2,5-Furandicarboxylic acid as a linker for lanthanide coordination polymers: the role of heteroaromatic $\pi$ - $\pi$ stacking and hydrogen bonding. <i>New Journal of Chemistry</i> , 2019, 43, 2179-2195.	2.8	41
41	Utilizing formation of dye aggregates with aggregation-induced emission characteristics for enhancement of two-photon absorption. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4384-4388.	5.5	13
42	Recurrent supramolecular motifs in discrete complexes and coordination polymers based on mercury halides: prevalence of chelate ring stacking and substituent effects. <i>CrystEngComm</i> , 2018, 20, 1065-1076.	2.6	39
43	Spectrally resolved two-photon absorption properties and switching of the multi-modal luminescence of NaYF <sub>4</sub> :Yb,Er/CdSe hybrid nanostructures. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5949-5956.	5.5	11
44	Multicomponent Supramolecular Assemblies of Melamine and $\alpha$ -Hydroxycarboxylic Acids: Understanding the Hydrogen Bonding Patterns and Their Physicochemical Consequences. <i>Crystal Growth and Design</i> , 2018, 18, 6786-6800.	3.0	21
45	Ferroelectricity and Ferroelasticity in Organic Inorganic Hybrid (Pyrrolidinium) <sub>3</sub> [Sb <sub>2</sub> Cl <sub>9</sub> ]. <i>Chemistry of Materials</i> , 2018, 30, 4597-4608.	6.7	65
46	On the origin of ferroelectric structural phases in perovskite-like metal-organic formate. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9420-9429.	5.5	34
47	Combining Three Different Functional Groups in One Linker: A Variety of Features of Copper(II) Aminocarboxyphosphonate. <i>Crystal Growth and Design</i> , 2017, 17, 1373-1383.	3.0	8
48	Nonlinear optical properties, upconversion and lasing in metal-organic frameworks. <i>Chemical Society Reviews</i> , 2017, 46, 4976-5004.	38.1	493
49	Spectrally-resolved third-harmonic generation and the fundamental role of O-H $\cdots$ Cl hydrogen bonding in Oh, Td-cobalt(ii) tetraphenylmethane-based coordination polymers. <i>Dalton Transactions</i> , 2017, 46, 9349-9357.	3.3	11
50	Tetraphenylmethane and tetraphenylsilane as building units of coordination polymers and supramolecular networks – A focus on tetraphosphonates. <i>Inorganic Chemistry Communication</i> , 2017, 86, 172-186.	3.9	25
51	Benzyl Dihydrazone versus Thiosemicarbazone Schiff Base: Effects on the Supramolecular Arrangement of Cobalt Thiocyanate Complexes and the Generation of CoN <sub>6</sub> and CoN <sub>4</sub> S <sub>2</sub> Coordination Spheres. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4763-4772.	2.0	54
52	Co/ZIF-8 Heterometallic Nanoparticles: Control of Nanocrystal Size and Properties by a Mixed-Metal Approach. <i>Crystal Growth and Design</i> , 2016, 16, 6419-6425.	3.0	90
53	Nonlinear-Optical Response of Prussian Blue: Strong Three-Photon Absorption in the IR Region. <i>Inorganic Chemistry</i> , 2016, 55, 9501-9504.	4.0	23
54	Tetranuclear manganese(II) complexes of hydrazone and carbohydrazone ligands: Synthesis, crystal structures, magnetic properties, Hirshfeld surface analysis and DFT calculations. <i>Inorganica Chimica Acta</i> , 2016, 443, 101-109.	2.4	26

#	ARTICLE	IF	CITATIONS
55	The role of hydrogen bonding on supramolecular assembly of the mercury coordination compounds and final structure influenced by solvent effect. <i>Inorganica Chimica Acta</i> , 2015, 429, 1-14.	2.4	19
56	Beyond Single-Wavelength SHG Measurements: Spectrally-Resolved SHG Studies of Tetrakisphosphate Ester Coordination Polymers. <i>Inorganic Chemistry</i> , 2015, 54, 10568-10575.	4.0	26
57	Nonlinear absorption in nanosystems of biological significance.. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1698, 7.	0.1	2
58	Extending the Family of Tetrahedral Tectons: Phenyl Embraces in Supramolecular Polymers of Tetraphenylmethane-based Tetrakisphosphonic Acid Templated by Organic Bases. <i>Crystal Growth and Design</i> , 2014, 14, 6143-6153.	3.0	57
59	Chains, Layers, Channels, and More: Supramolecular Chemistry of Potent Diphosphonic Tectons with Tuned Flexibility. The Generation of Pseudopolymorphs, Polymorphs, and Adducts. <i>Crystal Growth and Design</i> , 2013, 13, 4039-4050.	3.0	45