

Jan K ZarÄba

List of Publications by Year in descending order

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304743

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docs citations

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2341
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#	ARTICLE	IF	CITATIONS
1	Nonlinear optical properties, upconversion and lasing in metal-organic frameworks. <i>Chemical Society Reviews</i> , 2017, 46, 4976-5004.	38.1	493
2	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
3	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
4	[Methylhydrazinium] ₂ PbBr ₄ , a Ferroelectric Hybrid Organic-Inorganic Perovskite with Multiple Nonlinear Optical Outputs. <i>Chemistry of Materials</i> , 2021, 33, 2331-2342.	6.7	97
5	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
6	Ferroelectricity and Ferroelasticity in Organic Inorganic Hybrid (Pyrrolidinium) ₃ [Sb ₂ Cl ₉]. <i>Chemistry of Materials</i> , 2018, 30, 4597-4608.	6.7	65
7	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
8	Benzyl Dihydrazone versus Thiosemicarbazone Schiff Base: Effects on the Supramolecular Arrangement of Cobalt Thiocyanate Complexes and the Generation of CoN ₆ and CoN ₄ S ₂ Coordination Spheres. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4763-4772.	2.0	54
9	Three-Photon Absorption of Coordination Polymer Transforms UV-to-VIS Thermometry into NIR-to-VIS Thermometry. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10435-10441.	8.0	48
10	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
11	Near-Infrared Phosphorescent Hybrid Organic-Inorganic Perovskite with High-Contrast Dielectric and Third-Order Nonlinear Optical Switching Functionalities. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 1460-1471.	8.0	42
12	2,5-Furandicarboxylic acid as a linker for lanthanide coordination polymers: the role of heteroaromatic π - π stacking and hydrogen bonding. <i>New Journal of Chemistry</i> , 2019, 43, 2179-2195.	2.8	41
13	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
14	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
15	Nonlinear Optical Properties of Emerging Nano- and Microcrystalline Materials. <i>Advanced Optical Materials</i> , 2021, 9, 2100216.	7.3	37
16	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
17	Three-Dimensional Methylhydrazinium Lead Halide Perovskites: Structural Changes and Effects on Dielectric, Linear, and Nonlinear Optical Properties Entailed by the Halide Tuning. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1600-1610.	3.1	34
18	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

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19	Recurrent Supramolecular Motifs in a Series of Acid-Base Adducts Based on Pyridine-2,5-Dicarboxylic Acid <i>N</i> -Oxide and Organic Bases: Inter- and Intramolecular Hydrogen Bonding. <i>Crystal Growth and Design</i> , 2020, 20, 1738-1751.	3.0	27
20	Beyond Single-Wavelength SHG Measurements: Spectrally-Resolved SHG Studies of Tetraphosphonate Ester Coordination Polymers. <i>Inorganic Chemistry</i> , 2015, 54, 10568-10575.	4.0	26
21	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
22	Cyano-bridged perovskite [(CH ₃) ₃ NOH] ₂ [KM(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
23	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
24	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
25	Advances and Property Investigations of an Organic-Inorganic Ferroelectric: (diisopropylammonium) ₂ [CdBr ₄]. <i>Inorganic Chemistry</i> , 2020, 59, 11986-11994.	4.0	23
26	OD Bismuth(III)-Based Hybrid Ferroelectric: Tris(acetamidinium) Hexabromobismuthate(III). <i>Chemistry of Materials</i> , 2021, 33, 8591-8601.	6.7	22
27	Multicomponent Supramolecular Assemblies of Melamine and α -Hydroxycarboxylic Acids: Understanding the Hydrogen Bonding Patterns and Their Physicochemical Consequences. <i>Crystal Growth and Design</i> , 2018, 18, 6786-6800.	3.0	21
28	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
29	Temperature-dependent luminescence and second-harmonic generation of perovskite-type manganese and cadmium dicyanamide frameworks templated by tetrapropylammonium cations. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153464.	5.5	19
30	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
31	Indirect influence of alkyl substituent on sigma-hole interactions: The case study of antimony(III) diphenyldithiophosphates with covalent Sb-S and non-covalent Sb \cdots S pnictogen bonds. <i>Polyhedron</i> , 2019, 173, 114126.	2.2	18
32	On the interaction between up-converting NaYF ₄ :Er ³⁺ , Yb ³⁺ 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
33	Revisiting a Perovskite-like Copper-Formate Framework NH ₄ [Cu(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
34	A one-dimensional perovskite with ferroelectric and switchable nonlinear optical properties: [azetidinium]CdCl ₃ . <i>Journal of Materials Chemistry C</i> , 2022, 10, 3036-3047.	5.5	17
35	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
36	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

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37	Two-dimensional metal dicyanamide frameworks of BeTriMe[M(dca) ₃ (H ₂ 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
38	Utilizing formation of dye aggregates with aggregation-induced emission characteristics for enhancement of two-photon absorption. Journal of Materials Chemistry C, 2018, 6, 4384-4388.	5.5	13
39	Spectrally-resolved third-harmonic generation and the fundamental role of Oâ€“Hâ€“Cl hydrogen bonding in Oh, Td-cobalt(ii) tetraphenylmethane-based coordination polymers. Dalton Transactions, 2017, 46, 9349-9357.	3.3	11
40	Spectrally resolved two-photon absorption properties and switching of the multi-modal luminescence of NaYF ₄ :Yb,Er/CdSe hybrid nanostructures. Journal of Materials Chemistry C, 2018, 6, 5949-5956.	5.5	11
41	Ferroelectricity in a lead free organicâ€“inorganic OD hybrid: formamidinium bromoantimonate (<sc>iii</sc>). Journal of Materials Chemistry C, 2020, 8, 5025-5028.	5.5	11
42	Platonic Relationships in Metal Phosphonate Chemistry: Ionic Metal Phosphonates. Crystals, 2019, 9, 301.	2.2	10
43	Nonlinear Optical Pigments. Two-Photon Absorption in Crosslinked Conjugated Polymers and Prospects for Remote Nonlinear Optical Thermometry. Polymers, 2020, 12, 1670.	4.5	10
44	On the supramolecular properties of neutral, anionic and cationic cadmium complexes harvested from dithiolateâ€“polyamine binary ligand systems. CrystEngComm, 2020, 22, 8023-8035.	2.6	10
45	Combining Three Different Functional Groups in One Linker: A Variety of Features of Copper(II) Aminocarboxyphosphonate. Crystal Growth and Design, 2017, 17, 1373-1383.	3.0	8
46	Ferroelectricity and Piezoelectric Energy Harvesting of Hybrid A ₂ BX ₄ -Type Halogenocuprates Stabilized by Phosphonium Cations. ACS Materials Au, 2022, 2, 124-131.	6.0	8
47	First Experimental Evidences of the Ferroelectric Nature of Struvite. Crystal Growth and Design, 2020, 20, 4454-4460.	3.0	7
48	Efficient Piezoelectric Energy Harvesting from a Discrete Hybrid Bismuth Bromide Ferroelectric Templated by Phosphonium Cation. Chemistry - A European Journal, 2022, , .	3.3	6
49	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
50	Structural diversity of hydrogen-bonded complexes comprising phenol-based and pyridine-based components: NLO properties and crystallographic and spectroscopic studies. CrystEngComm, 2020, 22, 4552-4565.	2.6	5
51	Revisiting 2-chloro-4-nitroaniline: analysis of intricate supramolecular ordering of a triclinic polymorph featuring a high <i>Z</i> value and strong second harmonic generation. CrystEngComm, 2020, 22, 5073-5085.	2.6	5
52	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
53	A new polar perovskite coordination network with azaspiroundecane as A-site cation. Dalton Transactions, 2020, 49, 10740-10744.	3.3	4
54	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

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55	A Flexible Energy Harvester from an organic Ferroelectric Ammonium Salt. Chemistry - an Asian Journal, 2021, , .	3.3	4
56	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
57	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
58	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
59	Nonlinear absorption in nanosystems of biological significance.. Materials Research Society Symposia Proceedings, 2014, 1698, 7.	0.1	2