

# Adam Sieradzki

## List of Publications by Year in descending order

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82  
papers

2,240  
citations

172386

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82  
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82  
docs citations

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times ranked

1143  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural phase transitions in novel hydrogen-bonded cyanide-based crystal of [C <sub>4</sub> H <sub>8</sub> NH <sub>2</sub> ] <sub>2</sub> [(H <sub>3</sub> O)Co(CN) <sub>6</sub> ]. <i>Journal of Molecular Structure</i> , 2022, 1252, 132143.	1.8	3
2	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.	1.5	34
3	More complex than originally thought: revisiting the origins of the relaxation processes in dimethylammonium zinc formate. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6866-6877.	2.7	5
4	Near-Infrared Phosphorescent Hybrid Organic-Inorganic Perovskite with High-Contrast Dielectric and Third-Order Nonlinear Optical Switching Functionalities. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 1460-1471.	4.0	42
5	Optical characterization of Yb <sup>3+</sup> :CsPbCl <sub>3</sub> perovskite powder. <i>Chemical Engineering Journal</i> , 2021, 408, 127347.	6.6	19
6	Toward the Undiscovered Dielectric Properties of Hybrid Acetamidinium Manganese Formate under High Pressure. <i>Journal of Physical Chemistry C</i> , 2021, 125, 908-914.	1.5	7
7	Benzyltrimethylammonium cadmium dicyanamide with polar order in multiple phases and prospects for linear and nonlinear optical temperature sensing. <i>Dalton Transactions</i> , 2021, 50, 10580-10592.	1.6	3
8	From ambient- to high-pressure dielectric response of perovskite formamidinium manganese formate. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5740-5748.	2.7	0
9	Elucidation of the Mechanism of Phase Transition in a Zinc Formate Framework Templated by a Diammonium Cation-Structural, Phonon and Dielectric Studies. <i>Crystals</i> , 2021, 11, 213.	1.0	0
10	Stable and reversible pressure-controlled dielectric switching in dicyanide hybrid perovskite. <i>Applied Materials Today</i> , 2021, 22, 100957.	2.3	7
11	[Methylhydrazinium] <sub>2</sub> PbBr <sub>4</sub> , a Ferroelectric Hybrid Organic-Inorganic Perovskite with Multiple Nonlinear Optical Outputs. <i>Chemistry of Materials</i> , 2021, 33, 2331-2342.	3.2	97
12	Phase Diagram and Cation Dynamics of Mixed MA <sub>1-x</sub> FA <sub>x</sub> PbBr <sub>3</sub> Hybrid Perovskites. <i>Chemistry of Materials</i> , 2021, 33, 5926-5934.	3.2	16
13	Molecular spectroscopy of hybrid organic-inorganic perovskites and related compounds. <i>Coordination Chemistry Reviews</i> , 2021, 448, 214180.	9.5	37
14	Cadmium and manganese hypophosphite perovskites templated by formamidinium cations: dielectric, optical and magnetic properties. <i>Dalton Transactions</i> , 2021, 50, 2639-2647.	1.6	17
15	Metal-Formate Framework Stiffening and Its Relevance to Phase Transition Mechanism. <i>Materials</i> , 2021, 14, 6150.	1.3	1
16	Multiple rotor modes and how to trigger them: complex cation ordering in the family of relaxing hybrid formates. <i>Dalton Transactions</i> , 2021, 50, 17906-17910.	1.6	1
17	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.	2.8	19
18	Crystal growth, IR specular reflectance and polarized Raman studies of LiNa <sub>5</sub> Mo <sub>9</sub> O <sub>30</sub> polar single crystal. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117850.	2.0	6

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19	Suppression of phase transitions and glass phase signatures in mixed cation halide perovskites. <i>Nature Communications</i> , 2020, 11, 5103.	5.8	46
20	Two-dimensional metal dicyanamide frameworks of BeTriMe[M(dca) <sub>3</sub> (H <sub>2</sub> O)] (BeTriMe =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 712 Td ( magnetic orders and nonlinear optical threshold temperature sensing. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11735-11747.	2.7	14
21	Revisiting a Perovskite-like Copper-Formate Framework NH <sub>4</sub> [Cu(HCOO) <sub>3</sub> ]: 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.	1.5	17
22	On the impact of metal ion proportion on the physical properties of heterometallic metal-organic frameworks. <i>CrystEngComm</i> , 2020, 22, 4716-4722.	1.3	1
23	Relaxing under pressure with a rigid niccolite formate framework. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16736-16741.	2.7	7
24	Pyrrrolidinium-Based Cyanides: Unusual Architecture and Dielectric Switchability Triggered by Order-Disorder Process. <i>Inorganic Chemistry</i> , 2020, 59, 8855-8863.	1.9	33
25	Methylhydrazinium Lead Bromide: Noncentrosymmetric Three-Dimensional Perovskite with Exceptionally Large Framework Distortion and Green Photoluminescence. <i>Chemistry of Materials</i> , 2020, 32, 1667-1673.	3.2	142
26	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.	3.2	104
27	Structural, phonon, magnetic and optical properties of novel perovskite-like frameworks of TriBuMe[M(dca) <sub>3</sub> ] (TriBuMe = tributylmethylammonium; dca = dicyanamide; M =) Tj ETQq1 1 0.784314 rgBT /Overlock 1.6 39 48, 13006-13016.	1.6	39
28	Impact of the Copper-Induced Local Framework Deformation on the Mechanism of Structural Phase Transition in [(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ] <sub>2</sub> [Zn(HCOO) <sub>3</sub> ] Hybrid Metal-Formate Perovskite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23594-23603.	1.5	12
29	Layered Lead Iodide of [Methylhydrazinium] <sub>2</sub> PbI <sub>4</sub> with a Reduced Band Gap: Thermochromic Luminescence and Switchable Dielectric Properties Triggered by Structural Phase Transitions. <i>Chemistry of Materials</i> , 2019, 31, 8563-8575.	3.2	72
30	Pressure-enhanced ferroelectric polarisation in a polar perovskite-like [C <sub>2</sub> H <sub>5</sub> NH <sub>3</sub> ] <sub>0.5</sub> Cr <sub>0.5</sub> (HCOO) <sub>3</sub> metal-organic framework. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8660-8668.	2.7	26
31	Elucidation of dipolar dynamics and the nature of structural phases in the [(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ] <sub>2</sub> [Zn(HCOO) <sub>3</sub> ] hybrid perovskite framework. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6779-6785.	2.7	26
32	Temperature- and pressure-dependent studies of a highly flexible and compressible perovskite-like cadmium dicyanamide framework templated with protonated tetrapropylamine. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2408-2420.	2.7	32
33	Phase transition in the extreme: a cubic-to-triclinic symmetry change in dielectrically switchable cyanide perovskites. <i>Dalton Transactions</i> , 2019, 48, 15830-15840.	1.6	31
34	Confinement-induced polymorphism in acetylsalicylic acid-nanoporous glass composites. <i>Journal of Materials Science</i> , 2019, 54, 404-413.	1.7	1
35	Investigation of the light-soaking effect in organic solar cells using dielectric permittivity and electric modulus approaches. <i>Organic Electronics</i> , 2018, 52, 32-41.	1.4	11
36	Temperature-dependent studies of a new two-dimensional cadmium dicyanamide framework exhibiting an unusual temperature-induced irreversible phase transition into a three-dimensional perovskite-like framework. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29951-29958.	1.3	26

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37	Insight into understanding structural relaxation dynamics of [NH <sub>2</sub> NH <sub>3</sub> ][Mn(HCOO) <sub>3</sub> ] metal-organic formate. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018, 236-237, 24-31.	1.7	7
38	On the origin of ferroelectric structural phases in perovskite-like metal-organic formate. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9420-9429.	2.7	34
39	Dielectric relaxation and anhydrous proton conduction in [C <sub>2</sub> H <sub>5</sub> NH <sub>3</sub> ][Na <sub>0.5</sub> Fe <sub>0.5</sub> (HCOO) <sub>3</sub> ] metal-organic frameworks. <i>Dalton Transactions</i> , 2017, 46, 3681-3687.	1.6	19
40	Phase Transitions and Coexistence of Magnetic and Electric Orders in the Methylhydrazinium Metal Formate Frameworks. <i>Chemistry of Materials</i> , 2017, 29, 2264-2275.	3.2	136
41	The effect of K <sup>+</sup> cations on the phase transitions, and structural, dielectric and luminescence properties of [cat][K <sub>0.5</sub> Cr <sub>0.5</sub> (HCOO) <sub>3</sub> ], where cat is protonated dimethylamine or ethylamine. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12156-12166.	1.3	31
42	Synthesis and temperature-dependent studies of a perovskite-like manganese formate framework templated with protonated acetamidine. <i>Dalton Transactions</i> , 2017, 46, 8476-8485.	1.6	23
43	Structural, thermal, dielectric and phonon properties of perovskite-like imidazolium magnesium formate. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13993-14000.	1.3	43
44	Phase transitions and chromium(III) luminescence in perovskite-type [C <sub>2</sub> H <sub>5</sub> NH <sub>3</sub> ][Na <sub>0.5</sub> Cr <sub>x</sub> Al <sub>0.5-x</sub> (HCOO) <sub>3</sub> ] (x = 0, 0.025, 0.5), correlated with structural, dielectric and phonon properties. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29629-29640.	1.3	38
45	Temperature- and pressure-dependent studies of niccolite-type formate frameworks of [NH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> NH <sub>3</sub> ][M <sub>2</sub> (HCOO) <sub>6</sub> ] (M = Zn, Co, Fe). <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27613-27622.	1.3	19
46	Effect of solvent, temperature and pressure on the stability of chiral and perovskite metal formate frameworks of [NH <sub>2</sub> NH <sub>3</sub> ][M(HCOO) <sub>3</sub> ] (M = Mn, Fe, Zn). <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31653-31663.	1.3	54
47	Experimental and theoretical studies of structural phase transition in a novel polar perovskite-like [C <sub>2</sub> H <sub>5</sub> NH <sub>3</sub> ][Na <sub>0.5</sub> Fe <sub>0.5</sub> (HCOO) <sub>3</sub> ] formate. <i>Dalton Transactions</i> , 2016, 45, 2574-2583.	1.6	103
48	Temperature- and pressure-induced phase transitions in the niccolite-type formate framework of [H <sub>3</sub> N(CH <sub>2</sub> ) <sub>3</sub> NH <sub>3</sub> ][Mn <sub>2</sub> (HCOO) <sub>6</sub> ]. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3185-3194.	2.7	36
49	Dielectric relaxation behavior in antiferroelectric metal organic framework [(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ][Fe <sup>III</sup> Fe <sup>II</sup> (HCOO) <sub>6</sub> ] single crystals. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8462-8467.	1.3	37
50	Structural, magnetic and phonon properties of Cr(III)-doped perovskite metal formate framework [(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ][Mn(HCOO) <sub>3</sub> ]. <i>Journal of Solid State Chemistry</i> , 2016, 237, 150-158.	1.4	30
51	Structural, magnetic and dielectric properties of two novel mixed-valence iron(II)-iron(III) metal formate frameworks. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1186-1193.	2.7	49
52	Unusual electronic behavior in the polycrystalline metal organic framework [(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ][Na <sub>0.5</sub> Fe <sub>0.5</sub> (HCOO) <sub>3</sub> ]. <i>Electronic Materials Letters</i> , 2015, 11, 1033-1039.	1.0	18
53	Synthesis and characterization of [(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ][Na <sub>0.5</sub> Cr <sub>0.5</sub> (HCOO) <sub>3</sub> ]: a rare example of luminescent metal-organic frameworks based on Cr(III) ions. <i>Dalton Transactions</i> , 2015, 44, 6871-6879.	1.6	66
54	Temperature-dependent studies of [(CH <sub>3</sub> ) <sub>3</sub> NH <sub>2</sub> ][Fe <sup>III</sup> M <sup>II</sup> (HCOO) <sub>6</sub> ] frameworks (M <sup>II</sup> = Fe and Mg): structural, magnetic, dielectric and phonon properties. <i>Dalton Transactions</i> , 2015, 44, 8846-8854.	1.6	56

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55	Effect of aliovalent doping on the properties of perovskite-like multiferroic formates. Journal of Materials Chemistry C, 2015, 3, 9337-9345.	2.7	70
56	Synthesis, crystal structure, magnetic and vibrational properties of formamidine-templated Co and Fe formates. Polyhedron, 2015, 85, 137-143.	1.0	38
57	The influence of ferroelastic domain formation on thermal conductivity in Li <sub>2</sub> TiGeO <sub>5</sub> ceramics. Journal of Thermal Analysis and Calorimetry, 2014, 115, 467-470.	2.0	2
58	Ultrafast Optical Properties of Dense Electron Gas in Silicon Nanostructures. Plasmonics, 2014, 9, 545-551.	1.8	3
59	Synthesis and order-disorder transition in a novel metal formate framework of [(CH <sub>3</sub> ) <sub>2</sub> NH] <sub>2</sub> Na <sub>0.5</sub> Fe <sub>0.5</sub> (HCOO) <sub>3</sub> . Dalton Transactions, 2014, 43, 17075-17084.		75
60	Thermal properties of Er:Li <sub>2</sub> TiGeO <sub>5</sub> ferroelastic ceramics. Ceramics International, 2014, 40, 8027-8031.	2.3	0
61	Perovskite Metal Formate Framework of [NH <sub>2</sub> -CH <sub>2</sub> -NH <sub>2</sub> ] <sub>2</sub> Mn(HCOO) <sub>3</sub> : Phase Transition, Magnetic, Dielectric, and Phonon Properties. Inorganic Chemistry, 2014, 53, 5260-5268.	1.9	148
62	Dielectric spectroscopy investigations of nanostructured silicon. Current Applied Physics, 2014, 14, 991-997.	1.1	6
63	Effects of Carrier Confinement and Intervalley Scattering on Photoexcited Electron Plasma in Silicon. Plasmonics, 2013, 8, 1643-1646.	1.8	3
64	Size effects in KDP-porous glass ferroelectric nanocomposites. Phase Transitions, 2013, 86, 910-916.	0.6	19
65	Evidence of the ferroelastic phase transition in Na <sub>2</sub> TiGeO <sub>5</sub> ceramics. Phase Transitions, 2013, 86, 301-305.	0.6	3
66	Synthesis and Optical Properties of Pure and Doped M <sub>2</sub> TiGeO <sub>5</sub> (M = Li and Na) Ceramics. Ferroelectrics, 2012, 429, 56-61.	0.3	4
67	Size effect and dielectric properties of NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> porous glass composites. Materials Science-Poland, 2012, 30, 143-150.	0.4	4
68	ELECTRICAL CONDUCTIVITY AND PHASE TRANSITIONS IN KDP- AND ADP-POROUS GLASS NANOCOMPOSITES. Journal of Advanced Dielectrics, 2011, 01, 337-343.	1.5	9
69	First-principles study of the Li <sub>2</sub> TiGeO <sub>5</sub> ferroelastic phase transition. Phase Transitions, 2010, 83, 235-243.	0.6	1
70	Calorimetric Investigations of Phase Transitions in KNO <sub>3</sub> Embedded Into Porous Glasses. Ferroelectrics, 2010, 402, 60-65.	0.3	24
71	Phase transition in NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> : porous glass composites. Phase Transitions, 2010, 83, 909-916.	0.6	5
72	Pressure dependence of dielectric properties of the LiNaGe <sub>4</sub> O <sub>9</sub> ferroelectric. Phase Transitions, 2008, 81, 999-1004.	0.6	5

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73	Dilatometric Investigations of Phase Transitions in $\text{TEA}_{2}\text{MnCl}_{4}$ Crystals. <i>Ferroelectrics</i> , 2008, 363, 209-214.	0.3	4
74	Temperature evolution of the ferroelastic order parameter of $\text{Li}_{2}\text{TiGeO}_{5}$ . <i>Phase Transitions</i> , 2008, 81, 413-419.	0.6	1
75	Pressure Effect on the Phase Transitions in the Ferroelectric $[(\text{CH}_{3})_{2}\text{NH}_{2}]_{3}\text{CuCl}_{5}$ Crystal. <i>Ferroelectrics</i> , 2008, 363, 245-250.	0.3	0
76	Ferroelectric phase transitions in $\text{KNO}_{3}$ embedded into porous glasses. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 4457-4461.	1.5	41
77	Ferroelectric phase transition in $(\text{CH}_{3}\text{NH}_{3})_{5}\text{Bi}_{2}\text{Cl}_{11}$ and $(\text{CH}_{3}\text{NH}_{3})_{5}\text{Bi}_{2}\text{Br}_{11}$ crystals. <i>Phase Transitions</i> , 2007, 80, 171-176.	0.6	7
78	Calorimetric investigation of $(\text{TEA})_{2}\text{MnCl}_{4}$ crystals. <i>Phase Transitions</i> , 2006, 79, 343-348.	0.6	7
79	Ferroelectric Phase Transition in $(\text{CH}_{3}\text{NH}_{3})_{5}\text{Bi}_{2}\text{Cl}_{11}$ -Excess Entropy and Spontaneous Birefringence. <i>Ferroelectrics</i> , 2006, 336, 101-106.	0.3	0
80	Birefringence imaging of phase transition in ferroelastic $\text{Li}_{2}\text{TiGeO}_{5}$ . <i>Phase Transitions</i> , 2005, 78, 351-356.	0.6	6
81	Crystal Structure and Pressure Effect of Ferroelastic Phase Transition in $\text{Li}_{2}\text{GeTiO}_{5}$ Crystal. <i>Integrated Ferroelectrics</i> , 2004, 62, 79-82.	0.3	3
82	Investigation of the crystal structure and influence of hydrostatic pressure on phase transition in $\text{Li}_{2}\text{TiGeO}_{5}$ ferroelastics. <i>Phase Transitions</i> , 2004, 77, 289-294.	0.6	10