

# Mantas Simenas

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3704212/publications.pdf>

Version: 2024-02-01

69  
papers

1,212  
citations

331670

21  
h-index

454955

30  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1295  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Suppression of phase transitions and glass phase signatures in mixed cation halide perovskites. <i>Nature Communications</i> , 2020, 11, 5103.	12.8	46
3	Synthesis, Structure, and Electron Paramagnetic Resonance Study of a Mixed Valent Metal-Organic Framework Containing Cu <sub>2</sub> Paddle-Wheel Units. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4898-4907.	3.1	43
4	EPR Study of Structural Phase Transition in Manganese-Doped [(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ][Zn(HCOO) <sub>3</sub> ] Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24522-24528.	3.1	42
5	Structural phase transition in perovskite metal-organic formate frameworks: a Potts-type model with dipolar interactions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18528-18535.	2.8	40
6	Phase transitions, screening and dielectric response of CsPbBr <sub>3</sub> . <i>Journal of Materials Chemistry A</i> , 2020, 8, 14015-14022.	10.3	37
7	Molecular spectroscopy of hybrid organic-inorganic perovskites and related compounds. <i>Coordination Chemistry Reviews</i> , 2021, 448, 214180.	18.8	37
8	Electron paramagnetic resonance and electric characterization of a [CH <sub>3</sub> NH <sub>2</sub> ][Zn(HCOO) <sub>3</sub> ] perovskite metal formate framework. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4526-4536.	5.5	36
9	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
10	Isostructural phase transition, quasielastic neutron scattering and magnetic resonance studies of a bistable dielectric ion-pair crystal [(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ] <sub>2</sub> KCr(CN) <sub>6</sub> . <i>Dalton Transactions</i> , 2019, 48, 4190-4202.	3.3	34
11	Spectroscopic Study of Structural Phase Transition and Dynamic Effects in a [(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ][Cd(NH <sub>3</sub> ) <sub>3</sub> ] Hybrid Perovskite Framework. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11840-11849.	3.1	32
12	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.	5.5	32
13	NMR and Raman Scattering Studies of Temperature- and Pressure-Driven Phase Transitions in CH <sub>3</sub> NH <sub>2</sub> PbCl <sub>3</sub> Perovskite. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26999-27008.	3.1	30
14	Numerical Engineering of Molecular Self-Assemblies in a Binary System of Trimesic and Benzenetribenzoic Acids. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6669-6680.	3.1	26
15	Elucidation of dipolar dynamics and the nature of structural phases in the [(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ][Zn(HCOO) <sub>3</sub> ] hybrid perovskite framework. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6779-6785.	5.5	26
16	Spectroscopic Study of [(CH <sub>3</sub> ) <sub>2</sub> NH <sub>2</sub> ][Zn(HCOO) <sub>3</sub> ] Hybrid Perovskite Containing Different Nitrogen Isotopes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10284-10292.	3.1	25
17	Exploring the Antipolar Nature of Methylammonium Lead Halides: A Monte Carlo and Pyrocurrent Study. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4906-4911.	4.6	24
18	Single Crystal Electron Paramagnetic Resonance of Dimethylammonium and Ammonium Hybrid Formate Frameworks: Influence of External Electric Field. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16533-16540.	3.1	24

#	ARTICLE	IF	CITATIONS
19	Reorientational dynamics of organic cations in perovskite-like coordination polymers. Dalton Transactions, 2018, 47, 17329-17341.	3.3	24
20	Room-temperature surface-assisted reactivity of a melanin precursor: silver metal-organic coordination versus covalent dimerization on gold. Nanoscale, 2018, 10, 16721-16729.	5.6	23
21	Coronene Molecules in Hexagonal Pores of Tricarboxylic Acids: A Monte Carlo Study. Journal of Physical Chemistry C, 2015, 119, 20524-20534.	3.1	22
22	Single Crystal Electron Paramagnetic Resonance with Dielectric Resonators of Mononuclear Cu <sup>2+</sup> Ions in a Metal-Organic Framework Containing Cu <sub>2</sub> Paddle Wheel Units. Journal of Physical Chemistry C, 2015, 119, 19171-19179.	3.1	21
23	Pulse EPR and ENDOR Study of Manganese Doped [(CH <sub>3</sub> ) <sub>2</sub> NH] <sub>2</sub> [Zn(HCOO) <sub>3</sub> ] Hybrid Perovskite Framework. Journal of Physical Chemistry C, 2017, 121, 27225-27232.	3.1	20
24	Phase transition properties of the Bell-Lavis model. Physical Review E, 2014, 90, 042124.	2.1	19
25	EPR of Structural Phase Transition in Manganese- and Copper-Doped Formate Framework of [NH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> NH <sub>3</sub> ][Zn(HCOO) <sub>3</sub> ] <sub>2</sub> . Journal of Physical Chemistry C, 2016, 120, 19751-19758.	3.1	19
26	Temperature- and pressure-dependent studies of niccolite-type formate frameworks of [NH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> NH <sub>3</sub> ][M <sub>2</sub> (HCOO) <sub>6</sub> ] (M = Zn, Co, Fe). Physical Chemistry Chemical Physics, 2016, 18, 27613-27622.	2.8	19
27	Multiorientation Model for Planar Ordering of Trimesic Acid Molecules. Journal of Physical Chemistry C, 2018, 122, 7344-7352.	3.1	19
28	A sensitivity leap for X-band EPR using a probehead with a cryogenic preamplifier. Journal of Magnetic Resonance, 2021, 322, 106876.	2.1	19
29	Emergence of Coupled Rotor Dynamics in Metal-Organic Frameworks via Tuned Steric Interactions. Journal of the American Chemical Society, 2021, 143, 12053-12062.	13.7	18
30	Pin-wheel hexagons: A model for anthraquinone ordering on Cu(111). Journal of Chemical Physics, 2013, 139, 154711.	3.0	17
31	A model of melamine molecules ordering on metal surfaces. Journal of Chemical Physics, 2014, 141, 054701.	3.0	17
32	Magnetic excitation and readout of methyl group tunnel coherence. Science Advances, 2020, 6, eaba1517.	10.3	16
33	Phase Diagram and Cation Dynamics of Mixed MA <sub>1-x</sub> FA <sub>x</sub> PbBr <sub>3</sub> Hybrid Perovskites. Chemistry of Materials, 2021, 33, 5926-5934.	6.7	16
34	Adsorption and Desorption of HD on the Metal-Organic Framework Cu <sub>2.97</sub> Zn <sub>0.03</sub> (Btc) <sub>2</sub> Studied by Three-Pulse ESEEM Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 28530-28535.	3.1	15
35	Electron paramagnetic resonance of a copper doped [(CH <sub>3</sub> ) <sub>2</sub> NH] <sub>2</sub> [Zn(HCOO) <sub>3</sub> ] hybrid perovskite framework. Physical Chemistry Chemical Physics, 2018, 20, 12097-12105.	2.8	14
36	Preparation and structural characterization of Fe-doped BaTiO <sub>3</sub> diluted magnetic ceramics. Ceramics International, 2017, 43, 9998-10005.	4.8	13

#	ARTICLE	IF	CITATIONS
37	Trimesic Acid Molecule in a Hexagonal Pore: Central versus Noncentral Position. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3552-3559.	3.1	13
38	Low-Frequency Dipolar Dynamics and Atmospheric Effects in ZIF-90 Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2019, 123, 631-636.	3.1	13
39	Functional basis of electron transport within photosynthetic complex I. <i>Nature Communications</i> , 2021, 12, 5387.	12.8	13
40	Spin-Resonance Linewidths of Bismuth Donors in Silicon Coupled to Planar Microresonators. <i>Physical Review Applied</i> , 2020, 14, .	3.8	13
41	Impact of the Copper-Induced Local Framework Deformation on the Mechanism of Structural Phase Transition in $[(\text{CH}_3)_2\text{NH}]_2[\text{Zn}(\text{HCOO})_3]$ Hybrid Metal-Formate Perovskite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23594-23603.	3.1	12
42	Preparation and functional characterization of magnetoelectric $\text{Ba}(\text{Ti}_{1-x}\text{Fe}_x)\text{O}_{3-x/2}$ ceramics. Application for a miniaturized resonator antenna. <i>Ceramics International</i> , 2018, 44, 20862-20870.	4.8	11
43	Dielectric relaxation and ferromagnetic resonance in magnetoelectric (Polyvinylidene-fluoride)/ferrite composites. <i>Journal of Polymer Research</i> , 2015, 22, 1.	2.4	10
44	Electron Paramagnetic Resonance Study of Guest Molecule-Influenced Magnetism in Kagome Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27462-27467.	3.1	9
45	Temperature-induced molecular reorganization on Au(111) driven by oligomeric defects. <i>Nanoscale</i> , 2019, 11, 19468-19476.	5.6	9
46	Self-assembly of 5,6-dihydroxyindole-2-carboxylic acid: polymorphism of a eumelanin building block on Au(111). <i>Nanoscale</i> , 2019, 11, 5422-5428.	5.6	9
47	Antiferromagnetic triangular Blume-Capel model with hard-core exclusions. <i>Physical Review E</i> , 2014, 89, 052144.	2.1	8
48	Pinwheel Structures of Deprotonated Trimesic Acid on Ag(111): Model and Simulations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11212-11220.	3.1	8
49	Dielectric Spectroscopy of Water Dynamics in Functionalized UiO-66 Metal-Organic Frameworks. <i>Molecules</i> , 2020, 25, 1962.	3.8	8
50	Reduced $\text{Na}_2\text{Ti}_4\text{O}_9/\text{C}$ Composite: A Durable Anode for Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2018, 30, 8521-8527.	6.7	7
51	Relaxing under pressure with a rigid niccolite formate framework. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16736-16741.	5.5	7
52	Implications of acceptor doping in the polarization and electrocaloric response of $0.9\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3 \sim 0.1\text{PbTiO}_3$ relaxor ferroelectric ceramics. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3204-3214.	5.5	7
53	Electron Paramagnetic Resonance. , 0, , 629-656.		6
54	Screening of point defects in methylammonium lead halides: a Monte Carlo study. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1487-1494.	5.5	6

#	ARTICLE	IF	CITATIONS
55	Percolation and Transport Properties in The Mechanically Deformed Composites Filled with Carbon Nanotubes. Applied Sciences (Switzerland), 2020, 10, 1315.	2.5	6
56	Three-Dimensional Model for Planar Assembly of Triangular Molecules: Effect of Substrate-Molecule Interaction. Journal of Physical Chemistry C, 2017, 121, 3469-3478.	3.1	5
57	Simulation of Structural Phase Transitions in Perovskite Methylhydrazinium Metal-Formate Frameworks: Coupled Ising and Potts Models. Journal of Physical Chemistry C, 2019, 123, 19912-19919.	3.1	5
58	Hydrothermal synthesis and characterization of nanostructured titanium monoxide films. RSC Advances, 2019, 9, 40727-40735.	3.6	5
59	Preparation and Dielectric Characterization of P(VDF-TrFE) Copolymer-Based Composites Containing Metal-Formate Frameworks. Journal of Physical Chemistry C, 2019, 123, 16380-16387.	3.1	4
60	Modeling the Dimeric Structure of Partly Deprotonated Trimesic Acid Molecules. Journal of Physical Chemistry C, 2021, 125, 7466-7475.	3.1	4
61	Electron paramagnetic resonance study of ferroelectric phase transition and dynamic effects in a Mn <sup>2+</sup> -doped [NH <sub>4</sub> ][Zn(HCOO) <sub>3</sub> ] hybrid formate framework. Physical Chemistry Chemical Physics, 2020, 22, 8513-8521.	2.8	3
62	Phase transition model of FA cation ordering in FAPbX <sub>3</sub> (X = Br, I) hybrid perovskites. Journal of Materials Chemistry C, 2022, 10, 5210-5217.	5.5	3
63	Effect of lattice coarsening and exclusion on phase-transition properties of the Bell-Lavis model. Phase Transitions, 2015, 88, 833-842.	1.3	2
64	Effect of sintering under CO+N <sub>2</sub> /H <sub>2</sub> and CO <sub>2</sub> +air atmospheres on the physicochemical features of a commercial nano-YSZ. Journal of Alloys and Compounds, 2022, 904, 163976.	5.5	2
65	Reply to the Comment on "Phase transitions, screening and dielectric response of CsPbBr <sub>3</sub> by Å. Svirskas, S. Balčiūnas, M. Ąimėnas, G. Usevičius, M. Kinka, M. Velička, D. Kubicki, M. E. Castillo, A. Karabanov, V. Shvartsman, M. R. Soares, V. Ąablinskas, A. N. Salak, D. C. Lupascu and J. Banyš, J. Mater. Chem. A, 2020, 8, 14015. Journal of Materials Chemistry A, 2021, 9, 11453-11455.	10.3	1
66	Dielectric relaxation and conductivity in the PbCo <sub>0.5</sub> Ta <sub>0.5</sub> O <sub>3</sub> ceramics. Solid State Ionics, 2013, 247-248, 98-101.	2.7	0
67	From ambient- to high-pressure dielectric response of perovskite formamidinium manganese formate. Journal of Materials Chemistry C, 2021, 9, 5740-5748.	5.5	0
68	Tunable polar linker dynamics in metal-organic frameworks. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e516-e516.	0.1	0
69	Peculiarities of Dipolar Ordering in Mixed Cation Halide Perovskites. , 2020, , .		0