

# Sergey Lisenkov

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

2,045  
citations

279798

23  
h-index

233421

45  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2205  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unusual Properties of Hydrogen-Bonded Ferroelectrics: The Case of Cobalt Formate. Physical Review Letters, 2022, 128, 077601.	7.8	6
2	Structural, Electrical, and Electromechanical Properties of Inverse Hybrid Perovskites from First-Principles: The Case of $(\text{CH}_3\text{NH}_3)_3\text{OI}$ . Journal of Physical Chemistry C, 2021, 125, 8794-8802.	3.1	5
3	Tunability of Structure, Polarization, and Band Gap of High TC Organic-Inorganic Ferroelectrics by Hydrostatic Pressure: First-Principles Study. Journal of Physical Chemistry C, 2021, 125, 16296-16303.	3.1	11
4	Chemically and electrically tunable spin polarization in ferroelectric Cd-based hybrid organic-inorganic perovskites. Physical Review B, 2021, 104, .	3.2	5
5	Phase Switching as the Origin of Large Piezoelectric Response in Organic-Inorganic Perovskites: A First-Principles Study. Physical Review Letters, 2020, 125, 207601.	7.8	20
6	Prediction of high-strain polar phases in antiferroelectric $\text{PbZrO}_3$ from a multiscale approach. Physical Review B, 2020, 102, .	3.2	2
7	Comparative study of Minnesota functionals performance on ferroelectric relaxors: Dynamic ferroelectrics in the gigahertz frequ. Physical Review B, 2020, 102, .	2.4	6
8	Phase evolution in the ferroelectric relaxor $\text{PbTiO}_3$ from atomistic simulations. Physical Review B, 2019, 99, .	3.2	14
9	Unveiling Electrocaloric Potential of Antiferroelectrics with Phase Competition. Advanced Theory and Simulations, 2018, 1, 1800096.	2.8	9
10	High-frequency intrinsic dynamics of the electrocaloric effect from direct atomistic simulations. Physical Review B, 2018, 97, .	3.2	9
11	Tuning the electrocaloric effect by varying Sr concentration in ferroelectric $\text{Ba}_1\text{Sr}_x\text{Ti}_{1-x}\text{O}_3$ . Physical Review B, 2017, 96, .	2.4	7
12	Electrocaloric effect in $\text{PbZrO}_3$ thin films with antiferroelectric-ferroelectric phase competition. Computational Materials Science, 2017, 129, 44-48.	3.0	20
13	Isentropic magnetoelectric coupling in planar heterostructures. Applied Physics Letters, 2017, 111, .	3.3	2
14	Enhancement of electrocaloric response through quantum effects. Physical Review B, 2017, 96, .	3.2	7
15	Emergence of ferroelectricity in antiferroelectric nanostructures. Nanotechnology, 2016, 27, 195705.	2.6	10
16	Pyro-paraelectric and flexocaloric effects in barium strontium titanate: A first principles approach. Applied Physics Letters, 2016, 108, .	3.3	22
17	Nanoscale properties of $\text{PbZrO}_3$ nanowires: Phase competition for enhanced energy conversion and storage. Computational Materials Science, 2016, 117, 468-471.	3.0	3

#	ARTICLE	IF	CITATIONS
19	Elastocaloric Effect in Carbon Nanotubes and Graphene. Nano Letters, 2016, 16, 7008-7012.	9.1	24
20	Highly tunable piezocaloric effect in antiferroelectric $\text{PbZrO}_3$ . Physical Review B, 2016, 93, .	3.2	11
21	Scaling law for electrocaloric temperature change in antiferroelectrics. Scientific Reports, 2016, 6, 19590.	3.3	20
22	Depolarizing field in ultrathin electrocalorics. Physical Review B, 2015, 92, .	3.2	9
23	Critical Thickness for Antiferroelectricity in $\text{PbZrO}_3$ Films with Constant Tetragonality. Physical Review Letters. 2015. 115. 097601.	7.8	48
24	Finite-temperature properties of antiferroelectric $\text{PbZrO}_3$ from atomistic simulations. Physical Review B, 2015, 91, .	3.2	11
25	Thermally Mediated Mechanism to Enhance Magnetoelectric Coupling in Multiferroics. Physical Review Letters, 2015, 114, 177205.	7.8	20
26	Elastic excitations in $\text{BaTiO}_3$ single crystals and ceramics: Mobile domain boundaries and polar nanoregions observed by resonant ultrasonic spectroscopy. Physical Review B, 2013, 87, .	3.2	63
27	Multicaloric effect in ferroelectric $\text{PbTiO}_3$ from first principles. Physical Review B, 2013, 87, .	3.2	83
28	Emergence of central mode in the paraelectric phase of ferroelectric perovskites. MRS Communications, 2013, 3, 41-45.	1.8	20
29	Calculation of the LSDA+ functional using the hybrid B3LYP and HSE functionals. Physica Status Solidi (B): Basic Research, 2013, 250, 356-363.	1.5	35
30	Bridging the Macroscopic and Atomistic Descriptions of the Electrocaloric Effect. Physical Review Letters, 2012, 108, 167604.	7.8	209
31	Thickness-Dependent Polarization of Strained $\text{BiFeO}_3$ Films with Constant Tetragonality. Physical Review Letters. 2012. 109. 267601.	7.8	58
32	Strain dependence of polarization and piezoelectric response in epitaxial $\text{BiFeO}_3$ thin films. Journal of Physics Condensed Matter, 2012, 24, 162202.	1.8	66
33	Strain dependence of polarization and piezoelectric response in epitaxial $\text{SrTiO}_3$ thin films. Journal of Physics Condensed Matter, 2012, 24, 162202.	3.2	62
34	Magnetic Anisotropy and Engineering of Magnetic Behavior of the Edges in Co Embedded Graphene Nanoribbons. Physical Review Letters, 2012, 108, 187208.	7.8	50
35	Geometric frustration in compositionally modulated ferroelectrics. Nature, 2011, 470, 513-517.	27.8	75
36	Effects of codoping on the ferromagnetic enhancement in ZnO. Physical Review B, 2011, 83, .	3.2	26

