

Sergey Artyukhin

List of Publications by Year in descending order

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papers

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567281

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docs citations

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times ranked

1651
citing authors

#	ARTICLE	IF	CITATIONS
1	Landau theory of topological defects in multiferroic hexagonal manganites. Nature Materials, 2014, 13, 42-49.	27.5	168
2	Non-hysteretic colossal magnetoelectricity in a collinear antiferromagnet. Nature Communications, 2014, 5, 3201.	12.8	106
3	Dimerization-Induced Cross-Layer Quasi-Two-Dimensionality in Metallic IrTe_2 . Physical Review Letters, 2014, 112, .	7.8	85
4	Solitonic lattice and Yukawa forces in the rare-earth orthoferrite TbFeO_3 . Nature Materials, 2012, 11, 694-699.	27.5	70
5	Successive Magnetic-Field-Induced Transitions and Colossal Magnetoelectric Effect in $\text{Ni}_3\text{V}_2\text{S}_8$. Physical Review Letters, 2015, 115, 137201.	7.8	58
6	A Semi-Classical View on Epsilon-Near-Zero Resonant Tunneling Modes in Metal/Insulator/Metal Nanocavities. Nano Letters, 2019, 19, 3151-3160.	9.1	56
7	Low-energy structural dynamics of ferroelectric domain walls in hexagonal rare-earth manganites. Science Advances, 2017, 3, e1602371.	10.3	52
8	Effect of graphene nano-platelet morphology on the elastic modulus of soft and hard biopolymers. Carbon, 2016, 109, 331-339.	10.3	44
9	Dzyaloshinskii-Moriya-like interaction in ferroelectrics and antiferroelectrics. Nature Materials, 2021, 20, 341-345.	27.5	37
10	Tracking the continuous spin-flop transition in $\text{Ni}_3\text{V}_2\text{S}_8$ by infrared spectroscopy. Physical Review B, 2015, 92, .	8.2	26
11	Magnetoelectric Coupling through the Spin Flop Transition in $\text{Ni}_3\text{V}_2\text{S}_8$. Physical Review Letters, 2016, 117, 147402.	7.8	26
12	Phase Transitions in Low-Dimensional Layered Double Perovskites: The Role of the Organic Moieties. Journal of Physical Chemistry Letters, 2021, 12, 280-286.	4.6	23
13	Unexpected Giant Microwave Conductivity in a Nominally Silent BiFeO_3 Domain Wall. Advanced Materials, 2020, 32, 1905132.	21.0	22
14	Topologically protected magnetoelectric switching in a multiferroic. Nature, 2022, 607, 81-85.	27.8	20
15	Ultrafast dissolution and creation of bonds in IrTe_2 induced by photodoping. Science Advances, 2018, 4, eaar3867.	10.3	19
16	First-principles theory of giant Rashba-like spin splitting in bulk GeTe . Physical Review B, 2018, 98, .	3.2	15
17	First-Principles Theory of Phase Transitions in IrTe_2 . Journal of Physical Chemistry Letters, 2020, 11, 2127-2132.	4.6	14
18	Methylammonium Governs Structural and Optical Properties of Hybrid Lead Halide Perovskites through Dynamic Hydrogen Bonding. Chemistry of Materials, 2021, 33, 8524-8533.	6.7	14

#	ARTICLE	IF	CITATIONS
19	Triggering Cation Exchange Reactions by Doping. Journal of Physical Chemistry Letters, 2018, 9, 4895-4900.	4.6	12
20	Low-Frequency Phonon Modes in Layered Silver-Bismuth Double Perovskites: Symmetry, Polarity, and Relation to Phase Transitions. Advanced Optical Materials, 2022, 10, .	7.3	6
21	Femtosecond control of phonon dynamics near a magnetic order critical point. Nature Communications, 2021, 12, 2865.	12.8	5
22	Visualization of large-scale charged domain Walls in hexagonal manganites. Applied Physics Letters, 2021, 118, .	3.3	4
23	Slowdown of photoexcited spin dynamics in the non-collinear spin-ordered phases in skyrmion host GaV4S8. Nature Communications, 2022, 13, .	12.8	3
24	Domain wall-localized phonons in BiFeO3: spectrum and selection rules. Npj Computational Materials, 2020, 6, .	8.7	2