

# Konstantin Z Rushchanskii

## List of Publications by Year in descending order

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Version: 2024-02-01

15  
papers

423  
citations

840776

11  
h-index

996975

15  
g-index

15  
all docs

15  
docs citations

15  
times ranked

684  
citing authors

#	ARTICLE	IF	CITATIONS
1	A multiferroic material to search for the permanent electric dipole moment of the electron. Nature Materials, 2010, 9, 649-654.	27.5	88
2	First-principles prediction of oxygen octahedral rotations in perovskite-structure EuTiO $\times$ . Physical Review B, 2012, 85, .	3.2	55
3	Ordering of Oxygen Vacancies and Related Ferroelectric Properties in $\text{PbSn}_2\text{P}_2\text{O}_{14}$ . Physical Review Letters, 2007, 99, 207601.	7.8	54
4	Melting of Pb Charge Glass and Simultaneous Pb $\leftrightarrow$ Cr Charge Transfer in PbCrO $_3$ as the Origin of Volume Collapse. Journal of the American Chemical Society, 2015, 137, 12719-12728.	13.7	45
5	Similarities of the band structure of In $_4$ Se $_3$ and InSe under pressure and peculiarities of the creation of the band gap. Physica Status Solidi (B): Basic Research, 2006, 243, 592-609.	1.5	35
6	Ordering of Oxygen Vacancies and Related Ferroelectric Properties in $\text{HfO}_2$ . Physical Review Letters, 2021, 127, 087602.	7.8	31
7	<i>Ab initio</i> phase diagrams of HfO, ZrO and Y $_2$ O $_3$ : a comparative study. Faraday Discussions, 2019, 213, 321-337.	3.2	27
8	Influence of pressure on the structural, dynamical, and electronic properties of the SnP $_2$ S $_6$ layered crystal. Physical Review B, 2006, 73, .	3.2	23
9	Band structure calculations on the layered compounds FeGa $_2$ S $_4$ and NiGa $_2$ S $_4$ . Journal of Physics and Chemistry of Solids, 2002, 63, 2019-2028.	4.0	13
10	Routes for increasing endurance and retention in $\text{HfO}_2$ -based resistive switching memories. Physical Review Materials, 2018, 2, .	2.4	13
11	Vacancy-mediated diffusion in biaxially strained Si. Applied Physics Letters, 2011, 98, 031908.	3.3	11
12	Unconventional Ferroelectric Switching via Local Domain Wall Motion in Multiferroic $\mu\text{Fe}_2\text{O}_3$ Films. Advanced Electronic Materials, 2020, 6, 1901134.	5.1	11
13	Phase-change memories (PCM) – Experiments and modelling: general discussion. Faraday Discussions, 2019, 213, 393-420.	3.2	7
14	Stress enhanced self-diffusion in Si: Entropy effect in anisotropic elastic environment. Applied Physics Letters, 2008, 92, 152110.	3.3	6
15	<i>Ab Initio</i> Phonon Structure of $\text{h-YMnO}_3$ in Low-Symmetry Ferroelectric Phase. Ferroelectrics, 2012, 426, 90-96.	0.6	4