

D V Gryaznov

List of Publications by Year in descending order

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58
papers

1,179
citations

394421

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395702

33
g-index

58
all docs

58
docs citations

58
times ranked

1235
citing authors

#	ARTICLE	IF	CITATIONS
19	Hybrid density-functional calculations of phonons in LaCoO_3 . Physical Review B, 2010, 82, .	3.2	22
20	Use of site symmetry in supercell models of defective crystals: polarons in CeO_2 . Physical Chemistry Chemical Physics, 2017, 19, 8340-8348.	2.8	20
21	First-principles calculations of oxygen interstitials in corundum: a site symmetry approach. Physical Chemistry Chemical Physics, 2017, 19, 25245-25251.	2.8	19
22	Ab initio simulations of oxygen interaction with surfaces and interfaces in uranium mononitride. Journal of Nuclear Materials, 2013, 435, 102-106.	2.7	18
23	Atomic, electronic and magnetic structure of an oxygen interstitial in neutron-irradiated Al_2O_3 single crystals. Scientific Reports, 2020, 10, 15852.	3.3	18
24	Confinement effects for ionic carriers in SrTiO_3 ultrathin films: first-principles calculations of oxygen vacancies. Physical Chemistry Chemical Physics, 2011, 13, 923-926.	2.8	17
25	Numerical study of grain boundary diffusion in nanocrystalline ionic materials including blocking space charges. Solid State Ionics, 2006, 177, 1583-1586.	2.7	16
26	Ab initio study of phase competition in $(\text{La}_{1-x}\text{Sr}_x)\text{CoO}_3$ solid solutions. Solid State Ionics, 2013, 230, 32-36.	2.7	15
27	Hybrid density functional calculations of hyperfine coupling tensor for hole-type defects in MgAl_2O_4 . Nuclear Instruments & Methods in Physics Research B, 2020, 464, 60-64.	1.4	15
28	The X-ray response of InP. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 487, 435-440.	1.6	14
29	Technological limitations and processing-generated defects at the development of pixel and strip arrays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 487, 13-18.	1.6	14
30	First-principles modelling of radiation defects in advanced nuclear fuels. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2671-2675.	1.4	14
31	An improved procedure for determining grain boundary diffusion coefficients from averaged concentration profiles. Journal of Applied Physics, 2008, 103, .	2.5	14
32	Ab initio simulations on charged interstitial oxygen migration in corundum. Nuclear Instruments & Methods in Physics Research B, 2018, 435, 74-78.	1.4	14
33	Theoretical modeling of antiferrodistortive phase transition for SrTiO_3 ultrathin films. Physical Review B, 2013, 88, .	3.2	13
34	The X-ray response of InP: Part B, synchrotron radiation measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 491, 444-451.	1.6	11
35	Interface-induced enhancement of piezoelectricity in the $(\text{SrTiO}_3)_m/(\text{BaTiO}_3)_n$ superlattice for energy harvesting applications. Physical Chemistry Chemical Physics, 2019, 21, 23541-23551.	2.8	9
36	Peculiarities of Phase Formation in Mn-Based Na Superionic Conductor (NaSiCon) Systems: The Case of $\text{Na}_{1+2x}\text{Mn}_x\text{Ti}_{2x}\text{PO}_4$ (0.0 $\leq x \leq$ 1.5). Chemistry of Materials, 2021, 33, 8394-8403.	6.7	9

#	ARTICLE	IF	CITATIONS
37	The development of drift-strip detectors based on CdZnTe. IEEE Transactions on Nuclear Science, 2002, 49, 2530-2534.	2.0	8
38	Small radius electron and hole polarons in PbX_2 ($X = F, Cl, Br$) crystals: a computational study. Journal of Materials Chemistry C, 2021, 9, 16536-16544.	5.5	8
39	First Principles Simulations on Migration Paths of Oxygen Interstitials in $MgAl_2O_4$. Physica Status Solidi (B): Basic Research, 2019, 256, 1800282.	1.5	7
40	The local atomic structure and thermoelectric properties of Ir-doped ZnO: hybrid DFT calculations and XAS experiments. Journal of Materials Chemistry C, 2021, 9, 4948-4960.	5.5	7
41	Confinement effects for the F center in non-stoichiometric $BaZrO_3$ ultrathin films. Physica Status Solidi (B): Basic Research, 2015, 252, 139-143.	1.5	6
42	Hybrid density functional theoretical study of NASICON-type $Na_xTi_2(PO_4)_3$ ($x = 1 \leq x < 4$). Physical Chemistry Chemical Physics, 2020, 22, 11861-11870.	2.8	6
43	Electrochemical Performance of NASICON-structured $Na_{3-x}V_2-xTi_x(PO_4)_3$ ($0.0 \leq x \leq 1.0$) as aqueous Na-ion battery positive electrodes. Electrochimica Acta, 2022, 424, 140580.	5.2	6
44	First Principles Simulations on Surface Properties and Oxidation of Nitride Nuclear Fuels. , 0, , .		5
45	Charged oxygen interstitials in corundum: first principles simulations. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 932-936.	0.8	5
46	First principles calculations of the vibrational properties of single and dimer F-type centers in corundum crystals. Journal of Chemical Physics, 2020, 153, 134107.	3.0	5
47	Ab initio calculations of pure and Co^{2+} -doped MgF_2 crystals. Nuclear Instruments & Methods in Physics Research B, 2020, 470, 10-14.	1.4	5
48	A Comparative Hybrid DFT Study of Phonons in Several $SrTiO_3$ Phases. Integrated Ferroelectrics, 2011, 123, 18-25.	0.7	4
49	$BaCoO_3$ monoclinic structure and chemical bonding analysis: hybrid DFT calculations. Physical Chemistry Chemical Physics, 2021, 23, 17493-17501.	2.8	4
50	First principles calculations on CeO_2 doped with Tb^{3+} ions. Optical Materials, 2019, 90, 76-83.	3.6	3
51	An X-ray Detection Unit Based on GaAs Detector. Instruments and Experimental Techniques, 2000, 43, 815-817.	0.5	1
52	Characteristics of $InP \hat{\Gamma}^3$ -Detectors. Instruments and Experimental Techniques, 2001, 44, 462-465.	0.5	1
53	Dopant solubility in ceria: alloy thermodynamics combined with the DFT+U calculations. Solid State Ionics, 2018, 325, 258-264.	2.7	1
54	Development of drift-strip detectors based on CdZnTe. , 0, , .		0

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55	Density Functional Theory Calculations On Magnetic Properties Of Actinide Compounds. Materials Research Society Symposia Proceedings, 2011, 1298, 103.	0.1	0
56	Ab initio modelling of UN grain boundary interfaces. IOP Conference Series: Materials Science and Engineering, 2012, 38, 012058.	0.6	0
57	Single oxygen vacancy in BaCoO ₃ : Hybrid DFT calculations and local site symmetry approach. Solid State Ionics, 2022, 375, 115835.	2.7	0
58	Oxygen Vacancy Formation and Migration within the Antiphase Boundaries in Lanthanum Scandate-Based Oxides: Computational Study. Materials, 2022, 15, 2695.	2.9	0