Alexander I Poteryaev

List of Publications by Year
in descending order

17	817	840728 11	888047 17
papers	citations	h-index	g-index

17	17	17	1026
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamical mean-field theory using Wannier functions: A flexible route to electronic structure calculations of strongly correlated materials. Physical Review B, 2006, 74, .	3.2	177
2	Enhanced crystal-field splitting and orbital-selective coherence induced by strong correlations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">V</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2007, 76, .	3.2	129
3	Calculated phonon spectra of paramagnetic iron at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	3.2	97
4	Orbital-selective formation of local moments in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>-iron: First-principles route to an effective model. Physical Review B, 2010, 81, .	3.2	73
5	Monoclinic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>M</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:math>phase of VO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>: Mott-Hubbard versus band insulator. Physical Review B, 2012, 85, .	3.2	69
6	Calculation of photoemission spectra of the doped Mott insulator using LDA+DMFT(QMC). European Physical Journal B, 2000, 18, 55-61.	1.5	63
7	Effect of crystal-field splitting and interband hybridization on the metal-insulator transitions of strongly correlated systems. Physical Review B, 2008, 78, .	3.2	52
8	Unexpected 3+ valence of iron in FeO2, a geologically important material lying â€œin betweenâ€•oxides and peroxides. Scientific Reports, 2017, 7, 13005.	3.3	47
9	Valence-band satellite in ferromagnetic nickel: LDA+DMFT study with exact diagonalization. Physical Review B, 2012, 85, .	3.2	28
10	Rotationally invariant exchange interaction: The case of paramagnetic iron. Physical Review B, 2012, 86, .	3.2	25
11	Magnetostriction and ferroelectric state in AgCrS₂. Journal of Physics Condensed Matter, 2015, 27, 165601.	1.8	11
12	Magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>from CPA+DMFT perspectives. Physical Review B, 2016, 93, .	3.2	11
13	Hydrogenation-driven formation of local magnetic moments in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeO</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 98, .	3.2	11
14	Electronic correlations and competing orders in multiorbital dimers: A cluster DMFT study. Physical Review B, 2019, 99, .	3.2	8
15	Specific heat of a binary alloy within the CPA+DMFT method. Physical Review B, 2015, 91, .	3.2	7
16	Momentum-resolved spectroscopy of correlated metals: A view from dynamical mean field theory. Comptes Rendus Physique, 2009, 10, 537-547.	0.9	5
17	Influence of Molecular Orbitals on Magnetic Properties of FeO2Hx. Molecules, 2020, 25, 2211.	3.8	4