Vladimir Anisimov

List of Publications by Citations

269 papers	24,221 citations	59 h-index	154 g-index
277 ext. papers	26,466 ext. citations	3.1 avg, IF	6.67 L-index

#	Paper	IF	Citations
269	Band theory and Mott insulators: Hubbard U instead of Stoner I. *Physical Review B*, **1991**, 44, 943-954	3.3	5028
268	Density-functional theory and strong interactions: Orbital ordering in Mott-Hubbard insulators. *Physical Review B*, **1995**, 52, R5467-R5470	3.3	3134
267	First-principles calculations of the electronic structure and spectra of strongly correlated systems: theLDA+Umethod. *Journal of Physics Condensed Matter*, **1997**, 9, 767-808	1.8	2602
266	Density-functional theory and NiO photoemission spectra. *Physical Review B*, **1993**, 48, 16929-16934	3.3	1726
265	Intermediate-spin state and properties of LaCoO3. *Physical Review B*, **1996**, 54, 5309-5316	3.3	711
264	Density-functional calculation of effective Coulomb interactions in metals. *Physical Review B*, **1991**, 43, 7570-7574	3.3	667
263	Corrected atomic limit in the local-density approximation and the electronic structure of d impurities in Rb. *Physical Review B*, **1994**, 50, 16861-16871	3.3	554
262	First-principles calculations of the electronic structure and spectra of strongly correlated systems: dynamical mean-field theory. *Journal of Physics Condensed Matter*, **1997**, 9, 7359-7367	1.8	468
261	CrO2: A Self-Doped Double Exchange Ferromagnet. *Physical Review Letters*, **1998**, 80, 4305-4308	7.4	378
260	Orbital-assisted metal-insulator transition in VO2. *Physical Review Letters*, **2005**, 95, 196404	7.4	278
259	Spin bags, polarons, and impurity potentials in La2-xSrxCuO4 from first principles. *Physical Review Letters*, **1992**, 68, 345-348	7.4	236
258	Full orbital calculation scheme for materials with strongly correlated electrons. *Physical Review B*, **2005**, 71,	3.3	233
257	Orbital Ordering, Jahn-Teller Distortion, and Anomalous X-Ray Scattering in Manganates. *Physical Review Letters*, **1999**, 82, 4264-4267	7.4	218
256	Mott-hubbard metal-insulator transition in paramagnetic V2O3: an LDA+DMFT(QMC) study. *Physical Review Letters*, **2001**, 86, 5345-8	7.4	211
255	Charge and orbital order in Fe3O4. *Physical Review Letters*, **2004**, 93, 146404	7.4	199
254	Charge-ordered insulating state of Fe3O4 from first-principles electronic structure calculations. *Physical Review B*, **1996**, 54, 4387-4390	3.3	191
253	Mutual experimental and theoretical validation of bulk photoemission spectra of Sr1-xCaxVO3. *Physical Review Letters*, **2004**, 93, 156402	7.4	177

252	Electronic structure of possible nickelate analogs to the cuprates. *Physical Review B*, **1999**, 59, 7901-7906	3.3	172
251	Realistic investigations of correlated electron systems with LDA + DMFT. *Physica Status Solidi (B): Basic Research*, **2006**, 243, 2599-2631	1.3	148
250	Collapse of magnetic moment drives the Mott transition in MnO. *Nature Materials*, **2008**, 7, 198-202	27	145
249	Magnetic state and electronic structure of the □and □phases of metallic Pu and its compounds. *Physical Review B*, **2005**, 72,	3.3	135
248	Orbital-selective Mott-insulator transition in Ca 2 - x Sr x RuO 4. *European Physical Journal B*, **2002**, 25, 191-201	1.2	134
247	Calculation of magneto-optical properties for 4f systems: LSDA + Hubbard U results. *Journal of Physics and Chemistry of Solids*, **1995**, 56, 1521-1524	3.9	133
246	Prominent quasiparticle peak in the photoemission spectrum of the metallic phase of V2O3. *Physical Review Letters*, **2003**, 90, 186403	7.4	130
245	NiO: correlated band structure of a charge-transfer insulator. *Physical Review Letters*, **2007**, 99, 156404	7.4	122
244	Pseudogaps in strongly correlated metals: A generalized dynamical mean-field theory approach. *Physical Review B*, **2005**, 72,	3.3	112
243	Orbital Occupation, Local Spin, and Exchange Interactions in V2O3. *Physical Review Letters*, **1999**, 83, 4136-4139	7.4	111
242	Influence of rare-earth ion radii on the low-spin to intermediate-spin state transition in lanthanide cobaltite perovskites: LaCoO3 versus HoCoO3. *Physical Review B*, **2003**, 68,	3.3	102
241	Electronic Structure of the Heavy Fermion Metal LiV2O4. *Physical Review Letters*, **1999**, 83, 364-367	7.4	99
240	Spin gap in Tl2Ru2O7 and the possible formation of Haldane chains in three-dimensional crystals. *Nature Materials*, **2006**, 5, 471-6	27	98
239	Electronic structure of paramagnetic V2O3: Strongly correlated metallic and Mott insulating phase. *Physical Review B*, **2004**, 70,	3.3	98
238	Valence-band spectra and electronic structure of CuFeO2. *Physical Review B*, **1997**, 56, 4584-4591	3.3	96
237	Momentum-resolved spectral functions of SrVO3 calculated by LDA+DMFT. *Physical Review B*, **2006**, 73,	3.3	95
236	Electronic correlations at the □structural phase transition in paramagnetic iron. *Physical Review Letters*, **2011**, 106, 106405	7.4	91
235	Comparative study of correlation effects in CaVO3 and SrVO3. *Physical Review B*, **2005**, 72,	3.3	88

234	Coulomb repulsion and correlation strength in LaFeAsO from density functional and dynamical mean-field theories. *Journal of Physics Condensed Matter*, **2009**, 21, 075602	1.8	87
233	Calculated phonon spectra of paramagnetic iron at the □phase transition. *Physical Review B*, **2012**, 85,	3.3	86
232	Local correlations and hole doping in NiO: A dynamical mean-field study. *Physical Review B*, **2007**, 75,	3.3	86
231	Spectral and magnetic properties of alpha- and gamma-Ce from dynamical mean-field theory and local density approximation. *Physical Review Letters*, **2001**, 87, 276403	7.4	84
230	Exchange Interactions and Magnetic Properties of the Layered Vanadates CaV2O5, MgV2O5, CaV3O7, and CaV4O9. *Physical Review Letters*, **1999**, 83, 1387-1390	7.4	84
229	Singlet semiconductor to ferromagnetic metal transition in FeSi. *Physical Review Letters*, **1996**, 76, 1735-1738	7.4	84
228	Electronic Structure of Lanthanum Hydrides with Switchable Optical Properties. *Physical Review Letters*, **1997**, 78, 1311-1314	7.4	81
227	Insulating gap in FeO: Correlations and covalency. *Physical Review B*, **1997**, 55, 12822-12825	3.3	81
226	Orbitally degenerate spin-1 model for insulating V2O3. *Physical Review Letters*, **2000**, 85, 1714-7	7.4	80
225	Spin state transition and covalent bonding in LaCoO3. *Physical Review B*, **2012**, 86,	3.3	78
224	Classification of the electronic correlation strength in the iron pnictides: The case of the parent compound BaFe2As2. *Physical Review B*, **2009**, 80,	3.3	78
223	Construction and solution of a Wannier-functions based Hamiltonian in the pseudopotential plane-wave framework for strongly correlated materials. *European Physical Journal B*, **2008**, 65, 91-98	1.2	78
222	Theory for metal hydrides with switchable optical properties. *Physical Review B*, **1999**, 59, 5398-5413	3.3	78
221	REALISTIC MODELING OF STRONGLY CORRELATED ELECTRON SYSTEMS: AN INTRODUCTION TO THE LDA+DMFT APPROACH. *International Journal of Modern Physics B*, **2001**, 15, 2611-2625	1.1	76
220	Electronic Structure of Strongly Correlated Materials. *Springer Series in Solid-state Sciences*, **2010**,	0.4	74
219	One-particle irreducible functional approach: A route to diagrammatic extensions of the dynamical mean-field theory. *Physical Review B*, **2013**, 88,	3.3	73
218	Hybrid LDA and generalized tight-binding method for electronic structure calculations of strongly correlated electron systems. *Physical Review B*, **2005**, 72,	3.3	72
217	CaCrO3: an anomalous antiferromagnetic metallic oxide. *Physical Review Letters*, **2008**, 101, 167204	7.4	71

216	Band-structure description of Mott insulators (NiO, MnO, FeO, CoO). *Journal of Physics Condensed Matter*, **1990**, 2, 3973-3987	1.8	71
215	Electronic structure and magnetic properties of 3d impurities in ferromagnetic metals. *Physical Review B*, **1988**, 37, 5598-5602	3.3	69
214	Effect of local Coulomb interactions on the electronic structure and exchange interactions in Mn12 magnetic molecules. *Physical Review B*, **2002**, 65,	3.3	68
213	. *Journal of Physics Condensed Matter*, **2000**, 12, 4947-4958	1.8	67
212	Calculation of photoemission spectra of the doped Mott insulator using LDA+DMFT(QMC). *European Physical Journal B*, **2000**, 18, 55-61	1.2	60
211	Orbital-selective formation of local moments in □ron: First-principles route to an effective model. *Physical Review B*, **2010**, 81,	3.3	59
210	Computation of correlation-induced atomic displacements and structural transformations in paramagnetic KCuF3 and LaMnO3. *Physical Review B*, **2010**, 81,	3.3	58
209	Pressure-driven metal-insulator transition in hematite from dynamical mean-field theory. *Physical Review Letters*, **2009**, 102, 146402	7.4	58
208	Structural relaxation due to electronic correlations in the paramagnetic insulator KCuF3. *Physical Review Letters*, **2008**, 101, 096405	7.4	58
207	Monoclinic M1 phase of VO2: Mott-Hubbard versus band insulator. *Physical Review B*, **2012**, 85,	3.3	57
206	Weak ferromagnetism in antiferromagnets: □e2O3 and La2CuO4. *Physical Review B*, **2005**, 71,	3.3	56
205	Electronic structure of charge-ordered Fe3O4 from calculated optical, magneto-optical Kerr effect, and O K-edge x-ray absorption spectra. *Physical Review B*, **2006**, 74,	3.3	55
204	Determination of the orbital moment and crystal-field splitting in LaTiO3. *Physical Review Letters*, **2005**, 94, 056401	7.4	55
203	First-principles calculation of NiO valence spectra in the impurity-Anderson-model approximation. *Physical Review B*, **1994**, 50, 8257-8265	3.3	53
202	Orbital and charge ordering in Pr1□CaxMnO3 (x=0 and 0.5) from the ab initio calculations. *Physical Review B*, **1997**, 55, 15494-15499	3.3	52
201	Wannier functions and exchange integrals: The example of LiCu2O2. *Physical Review B*, **2007**, 75,	3.3	52
200	Doped Mott insulator as the origin of heavy-fermion behavior in LiV2O4. *Physical Review Letters*, **2007**, 98, 166402	7.4	50
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198	Crystal-field splitting for low symmetry systems in ab initio calculations. *Physical Review B*, **2005**, 71,	3.3	49
197	Temperature-dependent correlations in covalent insulators: Dynamical mean-field approximation. *Physical Review B*, **2008**, 78,	3.3	46
196	Optical evidence for symmetry changes above the Néel temperature of KCuF3. *Physical Review Letters*, **2008**, 101, 157406	7.4	46
195	The role of transition metal impurities and oxygen vacancies in the formation of ferromagnetism in Co-doped TiO2. *Journal of Physics Condensed Matter*, **2006**, 18, 1695-1704	1.8	46
194	Orbital ordering in paramagnetic LaMnO3 and KCuF3. *Physical Review B*, **2002**, 65,	3.3	46
193	First-order transition between a small gap semiconductor and a ferromagnetic metal in the isoelectronic alloy FeSi1-xGex. *Physical Review Letters*, **2002**, 89, 257203	7.4	46
192	Metal-insulator transition in NiS2−xSex. *Physical Review B*, **2010**, 81,	3.3	44
191	Orbital-selective pressure-driven metal to insulator transition in FeO from dynamical mean-field theory. *Physical Review B*, **2010**, 82,	3.3	44
190	Electronic correlations determine the phase stability of iron up to the melting temperature. *Scientific Reports*, **2014**, 4, 5585	4.9	43
189	Metal-insulator transitions and magnetism in correlated band insulators: FeSi and Fe1−xCoxSi. *Physical Review B*, **2010**, 81,	3.3	43
188	Calculation of exchange constants of the Heisenberg model in plane-wave-based methods using the Green's function approach. *Physical Review B*, **2015**, 91,	3.3	42
187	Weak ferromagnetism in Mn nanochains on the CuN surface. *Physical Review B*, **2009**, 79,	3.3	42
186	Origin of large thermopower in LiRh2O4: Calculation of the Seebeck coefficient by the combination of local density approximation and dynamical mean-field theory. *Physical Review B*, **2008**, 78,	3.3	42
185	The semiconductor-to-ferromagnetic-metal transition in FeSb2. *European Physical Journal B*, **2006**, 53, 205-207	1.2	42
184	Metal-insulator transition and lattice instability of paramagnetic V2O3. *Physical Review B*, **2015**, 91,	3.3	41
183	The influence of structural defects on the electronic properties of interstitial alloys□ Lattice vacancies. *Journal of Physics and Chemistry of Solids*, **1988**, 49, 465-477	3.9	40
182	First-principles calculation of atomic forces and structural distortions in strongly correlated materials. *Physical Review Letters*, **2014**, 112, 146401	7.4	38
181	Linear-temperature dependence of static magnetic susceptibility in LaFeAsO from dynamical mean-field theory. *Physical Review Letters*, **2011**, 106, 047007	7.4	38

180	Charge order and spin-singlet pair formation in Ti4O7. *Journal of Physics Condensed Matter*, **2006**, 18, 10955-10964	1.8	37
179	Computation of stripes in cuprates within the LDA+U method. *Physical Review B*, **2004**, 70,	3.3	37
178	Combining density-functional and dynamical-mean-field theory for La1−xSrxTiO3. *Physical Review B*, **2000**, 61, 12810-12815	3.3	36
177	Orbital state and magnetic properties of LiV2O4. *Physical Review B*, **2003**, 67,	3.3	35
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175	Band versus localized electron magnetism in CaCrO3. *Physical Review B*, **2008**, 78,	3.3	34
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171	Electronic structure and exchange interactions of the ladder vanadates CaV2O5and MgV2O5. *Journal of Physics Condensed Matter*, **2000**, 12, 113-124	1.8	33
170	Dynamical mean-field approach to materials with strong electronic correlations. *European Physical Journal: Special Topics*, **2009**, 180, 5-28	2.3	32
169	LDA+DMFT implemented with the pseudopotential plane-wave approach. *Journal of Physics Condensed Matter*, **2008**, 20, 135227	1.8	31
168	Coulomb correlation effects in LaFeAsO: An LDA + DMFT(QMC) study. *Journal of Experimental and Theoretical Physics*, **2009**, 108, 121-125	1	30
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165	Electronic structure of nonstoichiometric compounds in the coherent potential approximation. *JETP Letters*, **2012**, 94, 806-810	1.2	29
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162	Density-functional calculation of the Coulomb repulsion and correlation strength in superconducting LaFeAsO. *JETP Letters*, **2008**, 88, 729-733	1.2	27
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154	Rotationally invariant exchange interaction: The case of paramagnetic iron. *Physical Review B*, **2012**, 86,	3.3	22
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151	Atomistic simulations of helium dynamics in a plutonium lattice. *Physical Review B*, **2008**, 77,	3.3	21
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146	Coulomb interaction parameters in bcc iron: an LDA+DMFT study. *Journal of Physics Condensed Matter*, **2014**, 26, 375601	1.8	19
145	Pressure-driven metal-insulator transition in BiFeO3 from dynamical mean-field theory. *Physical Review B*, **2015**, 92,	3.3	19

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130	Cluster approach to magnetic impurities in metals: Application to Mn, Mn, Mn, Fe and Fe. *Journal of Magnetism and Magnetic Materials*, **1983**, 39, 295-308	2.8	15
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126	Electronic structure of Cr impurity in Al2O3 from first-principle calculation. *Physica B: Condensed Matter*, **2004**, 344, 385-390	2.8	13
125	Nonlocal correlations in the vicinity of the □phase transition in iron within a DMFT plus spin-fermion model approach. *Physical Review B*, **2016**, 94,	3.3	12
124	Magnetic susceptibility of cerium: An LDA+DMFT study. *Physical Review B*, **2012**, 85,	3.3	12
123	The role of Coulomb correlation in magnetic and transport properties of doped manganites: La0.5Sr0.5MnO3 and LaSr2Mn2O7. *Journal of Physics Condensed Matter*, **2002**, 14, 4533-4542	1.8	12
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113	Magnetic transition state approach to ferromagnetism of metals: Ni. *Journal of Magnetism and Magnetic Materials*, **1983**, 36, 125-130	2.8	10
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111	Suppression of magnetism under pressure in FeS: A DFT+DMFT study. *Physical Review B*, **2017**, 95,	3.3	9
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105	The 2021 Room-Temperature Superconductivity Roadmap. *Journal of Physics Condensed Matter*, **2021**,	1.8	9
104	Effect of density of states peculiarities on Hund's metal behavior. *Physical Review B*, **2018**, 97,	3.3	8
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98	Electronic structure and magnetic state of transuranium metals under pressure. *Journal of Physics Condensed Matter*, **2010**, 22, 495501	1.8	7
97	Transition of iron ions from high-spin to low-spin state and pressure-induced insulator-metal transition in hematite Fe2O3. *Journal of Experimental and Theoretical Physics*, **2007**, 105, 1035-1042	1	7
96	A band structure analysis of the coexistence of superconductivity and magnetism in (Ho,Dy)Ni(2)B(2)C. *Journal of Physics Condensed Matter*, **2006**, 18, 5973-83	1.8	7
95	X-ray spectra and electronic structure of Li x NbO2 superconductor and other niobium oxide compounds. *European Physical Journal B*, **1994**, 93, 417-424	1.2	7
94	Spin state transition in the active center of the hemoglobin molecule: DFT + DMFT study. *JETP Letters*, **2016**, 103, 658-662	1.2	7
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