

Evgeny Plekhanov

List of Publications by Year in descending order

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49
papers

606
citations

759233

12
h-index

642732

23
g-index

50
all docs

50
docs citations

50
times ranked

1013
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric control of magnetism at the Fe/BaTiO ₃ interface. Nature Communications, 2014, 5, 3404.	12.8	179
2	Engineering relativistic effects in ferroelectric SnTe. Physical Review B, 2014, 90, .	3.2	64
3	Increasing d-Wave Superconductivity by On-Site Repulsion. Physical Review Letters, 2003, 90, 187004.	7.8	33
4	Emery vs. Hubbard model for cuprate superconductors: a composite operator method study. European Physical Journal B, 2013, 86, 1.	1.5	23
5	Structural phase transitions in yttrium up to 183 GPa. Physical Review B, 2020, 102, .	3.2	22
6	Many-body renormalization of forces in f -electron materials. Physical Review B, 2018, 98, .	3.2	20
7	Structure and magnetism of collapsed lanthanide elements. Physical Review B, 2019, 100, .	3.2	16
8	Nonergodic dynamics of the extended anisotropic Heisenberg chain. Physical Review B, 2006, 74, .	3.2	15
9	Role of spin-orbit coupling in the electronic structure of O_2 . Physical Review Materials, 2018, 2, .	2.4	14
10	d-wave pairing in lightly doped Mott insulators. Physical Review B, 2005, 71, .	3.2	13
11	The phase diagram of the extended anisotropic ferromagnetic-antiferromagnetic Heisenberg chain. European Physical Journal B, 2010, 77, 381-392.	1.5	12
12	Magneto-electric coupling in antiferromagnet/ferroelectric Mn ₂ Au/BaTiO ₃ interface. Journal of Applied Physics, 2016, 120, .	2.5	12
13	Exact solution of the 1D Hubbard model with NN and NNN interactions in the narrow-band limit. European Physical Journal B, 2013, 86, 1.	1.5	11
14	Exact solution of the 1D Hubbard model in the atomic limit with inter-site magnetic coupling. European Physical Journal B, 2013, 86, 1.	1.5	11
15	Robustness of Rashba and Dirac Fermions against Strong Disorder. Scientific Reports, 2015, 5, 11285.	3.3	11
16	Metal-Insulator Transition in Copper Oxides Induced by Apex Displacements. Physical Review X, 2018, 8, .	8.9	11
17	The Mott to Kondo transition in diluted Kondo superlattices. Communications Physics, 2019, 2, .	5.3	11
18	Entanglement in the 1D extended anisotropic Heisenberg model. Physica B: Condensed Matter, 2008, 403, 1282-1283.	2.7	10

#	ARTICLE	IF	CITATIONS
19	Continuous-time quantum Monte Carlo solver for dynamical mean field theory in the compact Legendre representation. <i>Physical Review B</i> , 2019, 99, .	3.2	9
20	XXZ-like phase in the F-AF anisotropic Heisenberg chain. <i>European Physical Journal B</i> , 2008, 66, 295-299.	1.5	8
21	Correlation-induced band suppression in the two-orbital Hubbard model. <i>Journal of Physics: Conference Series</i> , 2011, 273, 012147.	0.4	8
22	High-pressure structural systematics in neodymium up to 302 GPa. <i>Physical Review B</i> , 2021, 103, .	3.2	8
23	Spin and charge orderings in the atomic limit of the $U-V-J$ model. <i>Journal of Physics: Conference Series</i> , 2012, 391, 012148.	0.4	7
24	$T = 0$ phase diagram of the 1D Hubbard model with magnetic interactions in the narrow band limit. <i>Open Physics</i> , 2012, 10, .	1.7	7
25	Single-particle dispersion of the 2D d model. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 384-387.	4.0	6
26	Filling and temperature dependence of the spin susceptibility of the two-dimensional Hubbard model in the superconducting d -wave phase. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 362-365.	4.0	6
27	Calculating dynamical mean-field theory forces in <i>ab initio</i> ultrasoft pseudopotential formalism. <i>Physical Review B</i> , 2021, 104, .	3.2	6
28	COM framework for d -wave superconductivity in the 2D Hubbard model. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, S930-S931.	1.2	5
29	Relationship between band populations and band structure in the three-band Hubbard model. <i>Journal of Physics: Conference Series</i> , 2011, 273, 012091.	0.4	5
30	Tuning topological surface states by cleavage angle in topological crystalline insulators. <i>Physical Review B</i> , 2019, 100, .	3.2	4
31	$\hat{\Gamma}$: Solid state package allowing Bardeen-Cooper-Schrieffer and magnetic superstructure electronic states. <i>Computer Physics Communications</i> , 2020, 251, 107079.	7.5	4
32	High-Temperature Superconductivity in the Lanthanide Hydrides at Extreme Pressures. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 874.	2.5	4
33	d -Symmetry superconductivity as a consequence of valence-bond type correlations. <i>JETP Letters</i> , 1998, 67, 369-375.	1.4	3
34	Pseudogap and symmetry of superconducting order parameter in cuprates. <i>Journal of Experimental and Theoretical Physics</i> , 1999, 88, 356-369.	0.9	3
35	Non-Fermi liquid behavior in the 2D Hubbard model within COM(SCBA). <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 999-1001.	2.3	3
36	$T = 0$ phase diagram of 1D extended anisotropic spin- $\frac{1}{2}$ Heisenberg model. <i>Journal of Physics: Conference Series</i> , 2009, 145, 012063.	0.4	3

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37	Composite operator candidates for a study of the p-d model. Journal of Physics: Conference Series, 2012, 391, 012121.	0.4	3
38	Efficient magnetic superstructure optimization with \hat{T}_1 . Computational Materials Science, 2021, 188, 110140.	3.0	3
39	d-symmetry superconductivity due to valence bond correlations. Journal of Experimental and Theoretical Physics, 1998, 87, 534-545.	0.9	2
40	Ergodicity in strongly correlated systems. Condensed Matter Physics, 2006, 9, 485.	0.7	2
41	Computational materials discovery for lanthanide hydrides at high pressure for high temperature superconductivity. Physical Review Research, 2022, 4, .	3.6	2
42	High-pressure structure of praseodymium revisited: In search of a uniform structural phase sequence for the lanthanide elements. Physical Review B, 2022, 105, .	3.2	2
43	Pressure-induced electronic transitions in samarium monochalcogenides. Physical Review B, 2022, 105, .	3.2	2
44	Ergodicity of the extended anisotropic 1D Heisenberg model: Response at low temperatures. Journal of Magnetism and Magnetic Materials, 2007, 310, e480-e482.	2.3	1
45	Solid-state quantum chemistry with \hat{T}_1 (ThetaPhi): Spin liquids, superconductors, and magnetic superstructures made computationally available. Journal of Computational Chemistry, 2021, 42, 1498-1513.	3.3	1
46	Frustration-Driven Quantum Phase Transition in the 1D Extended Anisotropic Heisenberg Model. Acta Physica Polonica A, 2008, 113, 429-432.	0.5	1
47	Analysis of the magnetic response of the edge-sharing chain cuprate Li_2CuO_2 within TMRG. Journal of Physics: Conference Series, 2010, 200, 022047.	0.4	0
48	Switching magnetic order at an Fe/BaTiO ₃ interface on and off: Impact on hybrid magnetic-ferroelectric tunnel junctions. , 2015, , .		0
49	Exploring the Effect of the Number of Hydrogen Atoms on the Properties of Lanthanide Hydrides by DMFT. Applied Sciences (Switzerland), 2022, 12, 3498.	2.5	0