

Alexei Sherman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9270181/publications.pdf>

Version: 2024-02-01

94
papers

554
citations

687220

13
h-index

839398

18
g-index

94
all docs

94
docs citations

94
times ranked

138
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic excitations of a doped two-dimensional antiferromagnet. Physical Review B, 1993, 48, 7492-7498.	1.1	30
2	Evolution of hole and magnon spectra of the two-dimensional t - J model with doping. Physical Review B, 1994, 50, 12887-12895.	1.1	23
3	Energy spectrum of a hole in a two-dimensional antiferromagnet. Physica C: Superconductivity and Its Applications, 1990, 171, 395-400.	0.6	21
4	Mechanism of hole attraction in the extended Hubbard model. Physical Review B, 1993, 47, 11521-11524.	1.1	21
5	Formation of ferromagnetic clusters around holes in the two-dimensional t - J model. Physical Review B, 1993, 48, 543-549.	1.1	19
6	Normal-state pseudogap in the spectrum of strongly correlated fermions. Physical Review B, 1997, 55, R712-R715.	1.1	19
7	Theoretical simulation of physical processes in a discharge XeCl laser. Journal of Physics B: Atomic, Molecular and Optical Physics, 1989, 22, 1489-1504.	0.6	16
8	Magnetic transitions and superconductivity in the t - J model. Physical Review B, 1997, 55, 582-590.	1.1	16
9	Dependence of the polaron binding energy and effective mass in a crystal layer on its thickness. Solid State Communications, 1981, 39, 273-277.	0.9	15
10	Spectral and magnetic properties of the two-dimensional t - J model in the quantum disordered regime. Physica C: Superconductivity and Its Applications, 1998, 303, 257-272.	0.6	15
11	On the theory of resonant secondary radiation of excitons weakly interacting with phonons. Physica Status Solidi (B): Basic Research, 1978, 85, 51-61.	0.7	14
12	Fluctuating charge-density waves in the Hubbard model. Physical Review B, 2008, 77, .	1.1	14
13	Temperature Dependence of Exciton Absorption Spectra. A Calculation Based on the Recursion Method. Physica Status Solidi (B): Basic Research, 1988, 145, 319-332.	0.7	13
14	Quantum interference of electrons in $\text{Ta}_4\text{Te}_4\text{Si}$. Physical Review B, 2000, 62, 10565-10568.	1.1	13
15	Coupling of holes in the t - J model on an infinite plane. Physica C: Superconductivity and Its Applications, 1993, 211, 329-337.	0.6	12
16	Magnetic susceptibility of the two-dimensional Hubbard model using a power series for the hopping constant. Physical Review B, 2007, 76, .	1.1	12
17	Exciton absorption spectrum (II). Physica Status Solidi (B): Basic Research, 1986, 135, 697-705.	0.7	11
18	A hole in a two-dimensional antiferromagnet. Solid State Communications, 1990, 76, 321-323.	0.9	11

#	ARTICLE	IF	CITATIONS
19	Magnetic phase diagram of the spin-1 two-dimensional Heisenberg model on a triangular lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1062-1066.	0.9	11
20	Influence of spin and charge fluctuations on spectra of the two-dimensional Hubbard model. Journal of Physics Condensed Matter, 2018, 30, 195601.	0.7	11
21	Magnetoresistance study of a thin tungsten film. Physical Review B, 1998, 58, 11111-11114.	1.1	10
22	The Mott transition in the strong coupling perturbation theory. Physica B: Condensed Matter, 2015, 456, 35-40.	1.3	10
23	Magnetic properties and temperature variation of spectra in the Hubbard model. European Physical Journal B, 2019, 92, 1.	0.6	9
24	On the theory of resonant secondary radiation of excitons strongly interacting with phonons. Physica Status Solidi (B): Basic Research, 1979, 92, 177-183.	0.7	8
25	Energy spectrum and transport properties of the two-dimensional t - J model. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1992, 65, 881-885.	0.6	8
26	INCOMMENSURATE SPIN DYNAMICS IN UNDERDOPED CUPRATE PEROVSKITES. International Journal of Modern Physics B, 2005, 19, 2145-2159.	1.0	8
27	EXCITATIONS NEAR THE BOUNDARY BETWEEN A METAL AND A MOTT INSULATOR. International Journal of Modern Physics B, 2010, 24, 979-995.	1.0	8
28	Pseudogaps in the three-band Hubbard model. European Physical Journal B, 2016, 89, 1.	0.6	8
29	The t - t' - U Hubbard model and Fermi-level peak. Physica Scripta, 2019, 94, 055802.	1.2	8
30	Exciton Absorption Spectrum. Physica Status Solidi (B): Basic Research, 1985, 131, 225-233.	0.7	7
31	Energy and Absorption Spectra of One-Dimensional Exciton-Phonon System. Physica Status Solidi (B): Basic Research, 1987, 141, 151-161.	0.7	7
32	MAGNETIC INCOMMENSURABILITY IN p-TYPE CUPRATE PEROVSKITES. International Journal of Modern Physics B, 2012, 26, 1250061.	1.0	7
33	Properties of the half-filled Hubbard model investigated by the strong coupling diagram technique. International Journal of Modern Physics B, 2015, 29, 1550088.	1.0	7
34	Hubbard-Kanamori model: spectral functions, negative electron compressibility, and susceptibilities. Physica Scripta, 2020, 95, 095804.	1.2	7
35	Localized Hole States in a Two-Dimensional Antiferromagnet. Physica Status Solidi (B): Basic Research, 1991, 166, 161-166.	0.7	6
36	Anomalous Fermi liquid and strong-coupling superconductivity in cuprate perovskites. Physica C: Superconductivity and Its Applications, 1995, 253, 23-32.	0.6	6

#	ARTICLE	IF	CITATIONS
37	Strong-coupling superconductivity in the two-dimensional t - J model supplemented by a hole-phonon interaction. <i>Physical Review B</i> , 1995, 52, 10621-10625.	1.1	6
38	Incommensurate magnetic response in cuprate perovskites. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 337, 435-440.	0.9	6
39	The Hubbard model in the strong coupling theory at arbitrary filling. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2006-2012.	0.7	6
40	Continuum of many-particle states near the metal-insulator transition in the Hubbard model. <i>European Physical Journal B</i> , 2017, 90, 1.	0.6	6
41	Negative electron compressibility in the Hubbard model. <i>Physica Scripta</i> , 2020, 95, 015806.	1.2	6
42	Dynamics of holes in the extended Hubbard model. <i>Physical Review B</i> , 1992, 46, 6400-6408.	1.1	5
43	Temperature behavior of the magnon modes of the square-lattice antiferromagnet. <i>Physical Review B</i> , 1999, 60, 10180-10185.	1.1	5
44	Self-trapping transition in the ground state of the Holstein t - J model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994, 195, 231-235.	0.9	4
45	Magnetic properties of the two-dimensional Heisenberg model on a triangular lattice. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 334, 312-316.	0.9	4
46	Low-frequency quantum oscillations due to strong electron correlations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 1912-1916.	0.9	4
47	Spin and charge fluctuations in the two-band Hubbard model. <i>European Physical Journal B</i> , 2020, 93, 1.	0.6	4
48	Absence of superconductivity in the repulsive Hubbard model on a square lattice in the regime of strong coupling. <i>Physica Scripta</i> , 2021, 96, 095804.	1.2	4
49	Localized hole states in the extended Hubbard model. <i>Solid State Communications</i> , 1993, 86, 23-26.	0.9	3
50	Bound-hole states induced by excess oxygen in $\text{La}_2\text{CuO}_{4+\delta}$. <i>Physical Review B</i> , 1996, 53, 2221-2224.	1.1	3
51	Bound hole states and ferrons in $\text{La}_2\text{CuO}_{4+\delta}$. <i>Physical Review B</i> , 1998, 57, 10299-10302.	1.1	3
52	Magnetic properties of the t - J model in the normal state. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 309, 482-487.	0.9	3
53	SPIN DYNAMICS IN STRONGLY CORRELATED ELECTRON SYSTEMS. <i>International Journal of Modern Physics B</i> , 2007, 21, 669-690.	1.0	3
54	The spin-1 two-dimensional $\hat{S}=1$ Heisenberg antiferromagnet on a triangular lattice. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 3567-3571.	0.9	3

#	ARTICLE	IF	CITATIONS
55	Low-Frequency Magnetic Response in the Pseudogap Phase of Cuprate Perovskites. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1833-1841.	0.8	3
56	Strongly correlated electron system in the magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2979-2985.	0.9	3
57	Magnetic Response of Optimally Doped $\text{Pr}_{1-x}\text{La}_x\text{Ce}_x\text{CuO}_4$. Journal of Superconductivity and Novel Magnetism, 2013, 26, 343-349.	0.8	3
58	Spin and charge fluctuations in the Hubbard model. Journal of Magnetism and Magnetic Materials, 2017, 440, 97-100.	1.0	3
59	Spectroscopic manifestations of the exciton self-trapping barrier. Solid State Communications, 1981, 37, 165-169.	0.9	2
60	Self-Trapping of Polaritons. Physica Status Solidi (B): Basic Research, 1982, 113, 471-479.	0.7	2
61	Renormalization of elementary excitations of the 2D t-J model at moderate doping. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 197, 247-252.	0.9	2
62	Spin correlations near the surface of a three-dimensional Heisenberg antiferromagnet. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3473-3476.	0.9	2
63	Magnetic Properties and Superconductivity in the Two-Dimensional Repulsive Hubbard Model. Journal of the Physical Society of Japan, 2021, 90, 104707.	0.7	2
64	Enhancement of Polaron Effect in Thin Dielectric Films. Physica Status Solidi (B): Basic Research, 1981, 108, 71-78.	0.7	1
65	A Recursion Method for Calculating Many-Particle Green's Functions. Resonant Secondary Radiation and Excitation Spectra in the Exciton Region. Physica Status Solidi (B): Basic Research, 1988, 149, 725-737.	0.7	1
66	The t-J model in the quantum disordered regime. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 238, 303-308.	0.9	1
67	Superconductivity and Magnetic Properties of the t-J Model of Cuprate Perovskites. International Journal of Modern Physics B, 1998, 12, 3039-3041.	1.0	1
68	Ferron-like states in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$. Physica C: Superconductivity and Its Applications, 1999, 316, 205-209.	0.6	1
69	Magnetic Properties of the Doped Two-Dimensional Antiferromagnet. Modern Physics Letters B, 2003, 17, 433-440.	1.0	1
70	Spectral and magnetic properties of the t-J model of cuprate perovskites. Physica Status Solidi (B): Basic Research, 2004, 241, 2097-2108.	0.7	1
71	Spin dynamics in cuprate perovskites. Low Temperature Physics, 2006, 32, 375-379.	0.2	1
72	NEAR-BOUNDARY AND BULK REGIONS OF A SEMI-INFINITE TWO-DIMENSIONAL HEISENBERG ANTIFERROMAGNET. Modern Physics Letters B, 2010, 24, 2327-2334.	1.0	1

#	ARTICLE	IF	CITATIONS
73	Magnetic Properties of the Spin-1 Two-Dimensional J_1 - J_3 Heisenberg Model on a Triangular Lattice. Acta Physica Polonica A, 2014, 126, 242-243. Exact diagonalization study of the spin-1 two-dimensional 	0.2	1
74	overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sh="http://www.elsevier.com/xml/common/sh" Manifestations of spin and charge fluctuations in spectra of the Hubbard model. International Journal of Modern Physics B, 2018, 32, 1840032.	0.9	1
75	Manifestations of spin and charge fluctuations in spectra of the Hubbard model. International Journal of Modern Physics B, 2018, 32, 1840032.	1.0	1
76	Phase Separation and Pairing Fluctuations in Oxide Materials. Condensed Matter, 2020, 5, 65.	0.8	1
77	Jahn-Teller effect at exciton self-trapping. Solid State Communications, 1982, 44, 1253-1256.	0.9	0
78	Molecule in a strong quasi-monochromatic light. Optics Communications, 1983, 48, 185-189.	1.0	0
79	Overdamped Magnons in a Doped Two-Dimensional Antiferromagnet. Physica Status Solidi (B): Basic Research, 1994, 186, 493-503.	0.7	0
80	Anomalous Fermi liquid and strong-coupling superconductivity in cuprates. European Physical Journal D, 1996, 46, 939-940.	0.4	0
81	Localized hole states induced by excess oxygen in $\text{La}_2\text{CuO}_{4+\delta}$. European Physical Journal D, 1996, 46, 969-970.	0.4	0
82	Magnetic transitions and superconductivity in the t-J model. Journal of Low Temperature Physics, 1996, 105, 615-620.	0.6	0
83	Underdoped Region of the t-J Model. Journal of Low Temperature Physics, 1999, 117, 241-245.	0.6	0
84	Carrier dispersion in the two-dimensional model on a triangular lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5229-5232.	0.9	0
85	The t-J model on a semi-infinite lattice. Journal of Physics Condensed Matter, 2010, 22, 375603.	0.7	0
86	Excitations and spin correlations near the interface of two three-dimensional Heisenberg antiferromagnets. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2725-2729.	0.9	0
87	Mechanisms of the Magnetic Incommensurability in p-Type Cuprate Perovskites. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1733-1736.	0.8	0
88	MAGNETIC RESPONSE OF $\text{Pr}_{1-x}\text{La}_x\text{Ce}_x\text{CuO}_4$ IN COMPARISON WITH HOLE-DOPED CUPRATES. Spin, 2014, 04, 1440006.	0.6	0
89	Magnetic Response of $\text{Pr}_{1-x}\text{La}_x\text{Ce}_x\text{CuO}_4$ in Comparison with Hole-Doped Cuprates. Solid State Phenomena, 0, 215, 11-16.		0
90	The t-J Model in a Strong Magnetic Field. Acta Physica Polonica A, 2015, 127, 213-215.	0.2	0

#	ARTICLE	IF	CITATIONS
91	Strong coupling diagram technique for the three-band Hubbard model. International Journal of Modern Physics B, 2016, 30, 1642004.	1.0	0
92	The spin-1 J_1 - J_3 Heisenberg model on a triangular lattice. Journal of Physics: Conference Series, 2017, 833, 012019.	0.3	0
93	Magnetic Susceptibility of Optimally Doped $\text{Pr}_{1-x}\text{LaCe}_x\text{CuO}_4$. Quantum Matter, 2015, 4, 339-341. ^{0.2}		0
94	Phonon-assisted phase separation in strongly correlated systems. International Journal of Modern Physics B, 0, , .	1.0	0