Kliment I Kugel

List of Publications by Year
in descending order

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146 papers	3,885 citations	201674 27 h-index	128289 60 g-index
149 all docs	149 docs citations	149 times ranked	2917 citing authors

#	Article	IF	Citations
1	The Jahn-Teller effect and magnetism: transition metal compounds. Uspekhi Fizicheskikh Nauk, 1982, 25, 231-256.	0.3	1,072
2	Orbital and magnetic structure of two-dimensional ferromagnets with Jahn-Teller ions. Solid State Communications, 1973, 13, 763-766.	1.9	216
3	A Stable â€œFlatâ€³ Form of Two-Dimensional Crystals: Could Graphene, Silicene, Germanene Be Minigap Semiconductors?. Nano Letters, 2012, 12, 1045-1052.	9.1	172
4	Inhomogeneous charge distributions and phase separation in manganites. Physics-Uspekhi, 2001, 44, 553-570.	2.2	152
5	Metalâ€“insulator transition induced by oxygen isotope exchange in the magnetoresistive perovskite manganites. Nature, 1998, 391, 159-161.	27.8	144
6	Low-temperature transition to a metallic state in(La0.5Pr0.5)0.7Ca0.3MnO3films. Physical Review B, 1999, 59, 6994-7000.	3.2	96
7	Elastic interactions and superstructures in manganites and other Jahn-Teller systems. Physical Review B, 2003, 67, .	3.2	89
8	Model for phase separation controlled by doping and the internal chemical pressure in different cuprate superconductors. Physical Review B, 2008, 78, .	3.2	82
9	Why stripes? Spontaneous formation of inhomogeneous structures due to elastic interactions. Europhysics Letters, 2001, 55, 208-213.	2.0	67
10	Phase Separation in Jahn-Teller Systems with Localized and Itinerant Electrons. Physical Review Letters, 2005, 95, 267210.	7.8	60
11	Resistivity and1/fnoise in nonmetallic phase-separated manganites. Physical Review B, 2001, 63, .	3.2	59
12	Spin-orbital interaction for face-sharing octahedra: Realization of a highly symmetric SU(4) model. Physical Review B, 2015, 91, .	3.2	55
13	Metalâ€“insulator transition induced by 16Oâ€“18O oxygen isotope exchange in colossal negative magnetoresistance manganites. Journal of Applied Physics, 1998, 83, 7369-7371.	2.5	51
14	Strongly anisotropic Dirac quasiparticles in irradiated graphene. Physical Review B, 2013, 88, .	3.2	50
15	Elementary excitations in the coupled spin-orbital model. Physical Review B, 1998, 58, 10276-10282.	3.2	45
16	Role of local geometry in the spin and orbital structure of transition metal compounds. Journal of Experimental and Theoretical Physics, 2016, 122, 484-498.	0.9	45
17	Intrinsic arrested nanoscale phase separation near a topological Lifshitz transition in strongly correlated two-band metals. Superconductor Science and Technology, 2015, 28, 024005.	3.5	44
18	A two-band model for the phase separation induced by the chemical mismatch pressure in different cuprate superconductors. Superconductor Science and Technology, 2009, 22, 014007.	3.5	41

#	Article	IF	Citations
19	Phase separation in systems with charge ordering. Journal of Experimental and Theoretical Physics, 2001, 93, 415-423.	0.9	38
20	Modification of the ground state in Sm-Sr manganites by oxygen isotope substitution. Physical Review B, 2003, 67, .	3.2	36
21	Partial16Oâ†'18Oisotope substitution and phase separation in(La0.25Pr0.75)0.7Ca0.3MnO3manganite. Physical Review B, 2000, 62, R6081-R6084.	3.2	34
22	Phase separation in doped systems with spin-state transitions. Physical Review B, 2009, 80, .	3.2	34
23	Nanoscale phase separation in manganites. Journal of Physics A, 2003, 36, 9155-9163.	1.6	33
24	Approximate Ginzburg-Landau solution for the regular flux-line lattice: Circular cell method. Physical Review B, 2001, 64, .	3.2	29
25	Berry phase mechanism of the anomalous Hall effect in a disordered two-dimensional magnetic semiconductor structure. Scientific Reports, 2015, 5, 17158.	3.3	29
26	Phase separation in a two-band model for strongly correlated electrons. Physical Review B, 2007, 76, .	3.2	28
27	Electronic phase separation in iron pnictides. Physical Review B, 2013, 88, .	3.2	27
28	Spin-Valley Half-Metal as a Prospective Material for Spin Valleytronics. Physical Review Letters, 2017, 119, 107601.	7.8	27
29	Phase separation in La-Pr manganites and its evolution in a magnetic field. JETP Letters, 2000, 71, 106-110.	1.4	26
30	Phase separation and isotope effect in the ferromagnetic insulating state of thePr1â^'xCaxMnO3system(0.2<x<0.33). Physical Review B, 2003, 68, .	3.2	25
31	Doped orbitally ordered systems: Another case of phase separation. Physical Review B, 2008, 78, .	3.2	25
32	Observation of subkelvin superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cd</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml: thin films. Physical Review B, 2019, 99, .	3.2	23
33	Characteristics of the phase-separated state in manganites: Relationship with transport and magnetic properties. Journal of Experimental and Theoretical Physics, 2004, 98, 572-581.	0.9	22
34	Charge inhomogeneities and transport in semiconductor heterostructures with a Mn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î´</mml:mi></mml:math>-layer. Physical Review B, 2011, 84, .	3.2	22
35	Tunneling magnetoresistance of phase-separated manganites. Journal of Experimental and Theoretical Physics, 2002, 95, 753-761.	0.9	20
36	Jahn-Teller distortions and phase separation in doped manganites. Physical Review B, 2006, 74, .	3.2	20

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37	Commensurability oscillations and smectic vortex phase transition inYBa2Cu3Oysingle crystals. Physical Review B, 1999, 59, 11213-11216.	3.2	19
38	The effect of oxygen isotope substitution on magnetic properties of (La1-yPry)0.7Ca0.3MnO3manganites. Journal of Physics Condensed Matter, 1999, 11, 5865-5873.	1.8	19
39	Anomalous multi-order Raman scattering in LaMnO₃: a signature of quantum lattice effects in a Jahnâ€“Teller crystal. Journal of Physics Condensed Matter, 2013, 25, 155602.	1.8	16
40	Formation of metallic magnetic clusters in a Kondo-lattice metal: Evidence from an optical study. Scientific Reports, 2012, 2, 890.	3.3	15
41	Floquet spectrum and driven conductance in Dirac materials: Effects of Landau-Zener-StÃ¼ckelberg-Majorana interferometry. Physical Review B, 2016, 94, .	3.2	15
42	Inhomogeneous electron states in the systems with imperfect nesting. JETP Letters, 2017, 105, 806-817.	1.4	15
43	Phase diagram and isotope effect in(Pr1â^'yEuy)0.7Ca0.3CoO3cobaltites exhibiting spin-state transitions. Physical Review B, 2010, 81, .	3.2	14
44	Magnetoresistance and magnetic susceptibility of phase-separated LaÂPrÂCa manganites. Journal of Physics Condensed Matter, 2003, 15, 259-266.	1.8	13
45	Relationship between orbital structure and lattice distortions in Jahn-Teller systems. Physical Review B, 2011, 83, .	3.2	13
46	Spin-valley half-metal in systems with Fermi surface nesting. Physical Review B, 2018, 98, .	3.2	13
47	Magnetization of type-ii superconductors in the range of fields H c 1 â‰ª H â‰ª H c 2Variational Method. Journal of Experimental and Theoretical Physics, 2000, 91, 588-596.	0.9	12
48	Magnetic polarons in a doped one-dimensional antiferromagnetic chain. Physical Review B, 2004, 69, .	3.2	12
49	Small-scale phase separation in doped anisotropic antiferromagnets. Journal of Physics Condensed Matter, 2006, 18, 10905-10914.	1.8	12
50	Out-of-Plane and In-Plane Magnetization Behavior of Dipolar Interacting FeNi Nanoislands around the Percolation Threshold. Journal of Nanomaterials, 2016, 2016, 1-9.	2.7	12
51	Bean-Livingston surface barrier and magnetic properties of granular superconductors. Physica C: Superconductivity and Its Applications, 1992, 196, 17-26.	1.2	11
52	The effect of oxygen isotope substitution on the phase diagram of nearly half-doped R1â^'xSrxMnO3manganites (R = Sm, NdTb, NdEu). Journal of Physics Condensed Matter, 2005, 17, 1975-1984.	1.8	11
53	Effects of anisotropy and disorder on the conductivity of Weyl semimetals. Physical Review B, 2015, 92, .	3.2	11
54	Magnetic field effects in electron systems with imperfect nesting. Physical Review B, 2017, 95, .	3.2	11

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55	Surface barrier and magnetic hysteresis of ac permeability in YBaCuO single crystal. Physica C: Superconductivity and Its Applications, 1998, 300, 270-280.	1.2	10
56	Formation of long-range spin distortions by a bound magnetic polaron. Physical Review B, 2006, 74, .	3.2	10
57	Two-dimensional Ising model with competing interactions and its application to clusters and arrays of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï€</mml:mi></mml:math>-rings and adiabatic quantum computing. Physical Review B, 2007, 76, .	3.2	10
58	Magnetic and magnetotransport properties of Bi2Se3 thin films doped by Eu. Journal of Magnetism and Magnetic Materials, 2018, 459, 331-334.	2.3	10
59	Effect of disorder on the transverse magnetoresistance of Weyl semimetals. Physical Review B, 2020, 102, .	3.2	10
60	Phase separation induced by oxygen isotope substitution in manganites of the Sm1â^'x SrxMnO3 system. Physics of the Solid State, 2004, 46, 1884-1890.	0.6	9
61	Two-dimensional Ising model with competing interactions: Phase diagram and low-temperature remanent disorder. Physical Review B, 2009, 79, .	3.2	9
62	Noise studies of magnetization dynamics in dilute magnetic semiconductor heterostructures. Physical Review B, 2012, 85, .	3.2	9
63	Fishtail or peak effect due to proximity in superconductor with normal inclusions. Physica C: Superconductivity and Its Applications, 1994, 228, 373-378.	1.2	8
64	Pinning by twin boundaries and peak effect in YBaCuO high-T c superconductors. Journal of Experimental and Theoretical Physics, 1997, 84, 1177-1185.	0.9	8
65	(La1â^'Pr)0.7Ca0.3MnO3 colossal magnetoresistive thin films on yttria stabilized zirconia. Solid State Communications, 2000, 114, 407-412.	1.9	8
66	Tunneling magnetoresistance of phase-separated manganites. Journal of Magnetism and Magnetic Materials, 2003, 258-259, 296-299.	2.3	8
67	Small-scale phase separation and electron transport in manganites. Physics-Uspekhi, 2003, 46, 851-856.	2.2	8
68	Optical evidence of quantum rotor orbital excitations in orthorhombic manganites. Journal of Experimental and Theoretical Physics, 2016, 122, 890-901.	0.9	8
69	Interplay of the Jahn-Teller effect and spin-orbit coupling: The case of trigonal vibrations. Physical Review B, 2022, 105, .	3.2	8
70	Degenerate hubbard model in a magnetic field. Application to Jahnâ€Teller systems. Physica Status Solidi (B): Basic Research, 1977, 79, 441-450.	1.5	7
71	Tunnelling magnetoresistance and 1/fnoise in phase-separated manganites. Journal of Physics Condensed Matter, 2003, 15, 1705-1717.	1.8	7
72	Mechanism for phase separation in cuprates and related multiband systems. Physical Review B, 2008, 77, .	3.2	7

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73	Inhomogeneous States in Strongly Correlated Electron Systems with Orbital Degrees of Freedom. Journal of Superconductivity and Novel Magnetism, 2009, 22, 147-153.	1.8	7
74	Resonant indirect exchange via spatially separated two-dimensional channel. Applied Physics Letters, 2015, 106, 252402.	3.3	7
75	Magnetic phase diagram and quantum phase transitions in a two-species boson model. Physical Review B, 2017, 96, .	3.2	7
76	Quantum phase transitions and the degree of nonidentity in the system with two different species of vector bosons. New Journal of Physics, 2018, 20, 063039.	2.9	7
77	Coexistence of Spin Density Wave and Metallic Phases Under Pressure. Journal of Superconductivity and Novel Magnetism, 2020, 33, 2405-2413.	1.8	7
78	Effect of oxygen isotope substitution on charge ordering and magnetic and transport properties inPr0.5Ca0.5MnO3doped by chromium and ruthenium. Physical Review B, 2008, 78, .	3.2	6
79	Collective Volume Plasmons in Manganites with Nanoscale Phase Separation: Simulation of the Measured Infrared Spectra of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mn>0.7</mml:mn></mml:msub><mml:msub><mml:mi>Ca</mml:mi><mml:mn Physical Review Letters, 2011, 107, 267401.	7.8	6
80	Elementary excitations in the symmetric spin-orbital model. JETP Letters, 2014, 100, 187-191.	1.4	6
81	Localization effects in the disordered Ta interlayer of multilayer Taâ€“FeNi films: Evidence from dc transport and spectroscopic ellipsometry study. Applied Physics Letters, 2017, 111, .	3.3	6
82	Collective magnetic response of inhomogeneous nanoisland FeNi films around the percolation transition. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	6
83	Efficient green emission from edge states in graphene perforated by nitrogen plasma treatment. 2D Materials, 2019, 6, 045021.	4.4	6
84	Commensurability effects in superconductors with bulk and intrinsic pinning. Physica C: Superconductivity and Its Applications, 2000, 334, 203-214.	1.2	5
85	The effect partial isotope substitution 16Oâ€“18O on physical properties of Laâ€“Pr manganites. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 640-644.	2.3	5
86	Pr1â^'xCaxMnO3 system in the crossover region between different kinds of magnetic ordering. Journal of Magnetism and Magnetic Materials, 2003, 258-259, 306-308.	2.3	5
87	High-temperature properties of the manganites: Manifestation of a paramagnetic-phase inhomogeneity?. Physics of the Solid State, 2003, 45, 508-512.	0.6	5
88	Evidence of superstructures at low temperatures in frustrated spin systems. Physica C: Superconductivity and Its Applications, 2006, 437-438, 230-233.	1.2	5
89	2D ISING MODEL WITH COMPETING INTERACTIONS AND ITS APPLICATION TO CLUSTERS AND ARRAYS OF Ï€-RINGS, GRAPHENE AND ADIABATIC QUANTUM COMPUTING. International Journal of Modern Physics B, 2009, 23, 3951-3967.	2.0	5
90	Effect of Eu doping and partial oxygen isotope substitution on magnetic phase transitions in (Pr1 â^' y) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.9	5

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91	Thermodynamics of Symmetric Spinâ€"Orbital Model: One- and Two-Dimensional Cases. JETP Letters, 2019, 109, 546-551.	1.4	5
92	Control of Mooij correlations at the nanoscale in the disordered metallic Taâ€"nanoisland FeNi multilayers. Scientific Reports, 2020, 10, 21172.	3.3	5
93	Temperature dependence of exchange integrals in magnetic insulators with Jahn-Teller ions. Solid State Communications, 1980, 35, 409-413.	1.9	4
94	Critical current relaxation in ceramic superconductors effect of the surface barrier. Physica C: Superconductivity and Its Applications, 1995, 251, 307-314.	1.2	4
95	Mixed state stability range in a YBaCuO single crystal. Low Temperature Physics, 1998, 24, 617-623.	0.6	4
96	Evolution with temperature of the magnetic polaron state in an antiferromagnetic chain with impurities. Physical Review B, 2005, 72, .	3.2	4
97	Effect of electronâ€"lattice interaction on the phase separation in strongly correlated electron systems with two types of charge carriers. Journal of Physics Condensed Matter, 2010, 22, 415601.	1.8	4
98	Stable forms of two-dimensional crystals and graphene. Physica B: Condensed Matter, 2012, 407, 1964-1968.	2.7	4
99	Resistivity of the ZrC-C system: An example of percolation behaviour. Physica Status Solidi A, 1978, 48, K131-K133.	1.7	4
100	Some peculiarities of the hall constant in disordered materials: The ZrC-C system as an example. Physica Status Solidi A, 1979, 52, K81-K83.	1.7	3
101	Non-uniform magnetic flux distribution in high Tc ceramics and hysteretic behaviour of critical current. Cryogenics, 1993, 33, 281-286.	1.7	3
102	The twofold effect of twins on critical current in high-Tc superconductors. European Physical Journal D, 1996, 46, 1025-1026.	0.4	3
103	Inhomogeneous charge states and electronic transport in manganites. Low Temperature Physics, 2001, 27, 601-608.	0.6	3
104	Elastic interactions and superstructures in manganites. Journal of Magnetism and Magnetic Materials, 2003, 258-259, 251-255.	2.3	3
105	Manifestation of quantum rotor orbital excitations in Raman spectra of Jahn-Teller crystal LaMnO₃. Journal of Physics: Conference Series, 2017, 833, 012005.	0.4	3
106	Phase Separation in a Spin Density Wave State of Twisted Bilayer Graphene. JETP Letters, 2020, 112, 651-656.	1.4	3
107	Bismuth layer properties in the ultrathin Biâ€"FeNi multilayer films probed by spectroscopic ellipsometry. Applied Physics Letters, 2021, 119, 183101.	3.3	3
108	The melting of neutron stars' crystalline cores and gamma-ray bursts. Astrophysics and Space Science, 1976, 39, 243-249.	1.4	2

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109	Commensurability oscillations and a new phase transition in YBa2Cu3Oy single crystals. JETP Letters, 1999, 69, 881-886.	1.4	2
110	Effects Induced by 16Oâ€“18O Oxygen Isotope Exchange in Manganite Ceramics and Films. Journal of Superconductivity and Novel Magnetism, 1999, 12, 269-272.	0.5	2
111	First integrals of Ginzburgâ€“Landau equations and stability criteria for vortex-free state in unconventional superconductors. Physica C: Superconductivity and Its Applications, 2000, 339, 10-16.	1.2	2
112	Phase separation, charge ordering and electron transport in manganites. Physica C: Superconductivity and Its Applications, 2001, 364-365, 643-646.	1.2	2
113	The structure of magnetic polarons in doped antiferromagnetic insulators. Physica B: Condensed Matter, 2008, 403, 1353-1355.	2.7	2
114	Phase separation in strongly correlated electron systems with two types of charge carriers. Physica B: Condensed Matter, 2008, 403, 1616-1618.	2.7	2
115	Oxygen Isotope Effect in Cr- and Ru-Doped Pr_{0.5}Ca_{0.5}MnO₃ Manganites. Solid State Phenomena, 2009, 152-153, 127-130.	0.3	2
116	Magnetism of Bi₂Se₃ thin films with Eu-rich flat inclusions. Journal of Physics Condensed Matter, 2018, 30, 445801.	1.8	2
117	New Half-Metallic States in Systems with Spin and Charge Density Waves (Brief Review). JETP Letters, 2020, 112, 725-733.	1.4	2
118	Isotope effect for transport and magnetic properties of La 0.35 Pr 0.35 Ca 0.3 MnO 3 thin films. European Physical Journal B, 2001, 19, 409-415.	1.5	1
119	Inhomogeneous states and isotope substitution in manganites. Journal of Magnetism and Magnetic Materials, 2003, 258-259, 265-267.	2.3	1
120	Phase separation and tunnelling magnetoresistance in manganites. Physica B: Condensed Matter, 2003, 329-333, 687-688.	2.7	1
121	Strong isotope effect in Sm1â^'xSrxMnO3 manganites near x=0.5. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 407-409.	2.3	1
122	Isotope effect in nearly half-doped R1â^'xSrxMnO3 manganites (R=Sm, NdTb, NdEu). Journal of Magnetism and Magnetic Materials, 2005, 290-291, 917-920.	2.3	1
123	Two types of magnetic polarons localized at impurities in an antiferromagnetic chain. Physica B: Condensed Matter, 2005, 359-361, 1418-1420.	2.7	1
124	Electronic phase separation in magnetic oxides with Jahnâ€“Teller ions. Journal of Magnetism and Magnetic Materials, 2007, 310, 1024-1026.	2.3	1
125	Bound magnetic polarons with extended spin distortions on frustrated lattices. Journal of Physics Condensed Matter, 2008, 20, 425214.	1.8	1
126	HIGH-FREQUENCY RESPONSE AND VOLTAGE NOISE IN MAGNETIC NANOCOMPOSITES. International Journal of Modern Physics B, 2009, 23, 4216-4233.	2.0	1

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127	Isotope effect and characteristic features of the phase diagram for cobaltites with spin-state transitions. Journal of Experimental and Theoretical Physics, 2010, 111, 189-193.	0.9	1
128	Phase separation in strongly correlated electron systems with spin-state transitions. Journal of Physics: Conference Series, 2010, 200, 012174.	0.4	1
129	Quantum entanglement, local indicators, and the effect of external fields in the Kugel-Khomskii model. Physical Review B, 2020, 102, .	3.2	1
130	Two-Dimensional Ising Model with Competing Interactions as a Model for Interacting Ï€-Rings. Acta Physica Polonica A, 2009, 115, 150-152.	0.5	1
131	Critical current anisotropy of high-Tc ceramics in magnetic field. Physica C: Superconductivity and Its Applications, 1994, 231, 98-102.	1.2	0
132	Isotopically driven transitions in LaPrCaMnO system. Physica B: Condensed Matter, 2000, 280, 323-324.	2.7	0
133	Interplay between bulk and intrinsic pinning and commensurability effects in high-Tc superconductors. Physica B: Condensed Matter, 2000, 284-288, 901-902.	2.7	0
134	Evolution of the magnetic phase diagram of CMR manganites after oxygen isotope substitution. Physica B: Condensed Matter, 2000, 284-288, 1434-1435.	2.7	0
135	Lattice distortion and isotope effect in thin films LaPrCaMnO manganites. AIP Conference Proceedings, 2001, , .	0.4	0
136	In memory of Eduard Leonovich Nagaev. Physics-Uspekhi, 2002, 45, 565-566.	2.2	0
137	Inhomogeneous ferromagnetic insulating state and isotope effect in Pr1â^'x CaxMnO3. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1802-1804.	2.3	0
138	Temperature behavior of bound magnetic polarons in antiferromagnetic chain. Journal of Magnetism and Magnetic Materials, 2006, 300, e151-e154.	2.3	0
139	Publisher's Note: Two-dimensional Ising model with competing interactions and its application to clusters and arrays of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï€</mml:mi></mml:math>-rings and adiabatic quantum computing [Phys. Rev. B76, 064528 (2007)]. Physical Review B, 2007, 76, .	3.2	0
140	A model for phase separation in systems with orbital ordering. Journal of Magnetism and Magnetic Materials, 2009, 321, 706-708.	2.3	0
141	Phase diagram and isotope effect in cobaltites with spin-state transitions. Bulletin of the Russian Academy of Sciences: Physics, 2010, 74, 1345-1347.	0.6	0
142	Phase Diagram of Spin States and Magnetic Interactions in Isotope Substituted (Pr,Eu)_{0.7}Ca_{0.3}CoO₃. Solid State Phenomena, 0, 168-169, 465-468.	0.3	0
143	Paper by M Yu Kagan and K I Kugel' 'Inhomogeneous charge distributions and phase separation in manganites' [Physicsâ€“Uspekhi, June 2001, 44 (6) 553â€“570]. Physics-Uspekhi, 2001, 44, 1206-1206.	2.2	0
144	HIGH-FREQUENCY RESPONSE AND VOLTAGE NOISE IN MAGNETIC NANOCOMPOSITES. , 2009, , .		0

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145	2D ISING MODEL WITH COMPETING INTERACTIONS AND ITS APPLICATION TO CLUSTERS AND ARRAYS OF Ï€-RINGS, GRAPHENE AND ADIABATIC QUANTUM COMPUTING. , 2009, , .		0
146	The Pinning of Flux Lines by Planar and Point Defects. , 1999, , 505-508.		0