

# Ross McKenzie

## List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Nuclear Quantum Effects in Water and Aqueous Systems: Experiment, Theory, and Current Challenges. <i>Chemical Reviews</i> , 2016, 116, 7529-7550.	23.0	439
2	CONDENSED MATTER PHYSICS: Similarities Between Organic and Cuprate Superconductors. <i>Science</i> , 1997, 278, 820-821.	6.0	302
3	Quantum frustration in organic Mott insulators: from spin liquids to unconventional superconductors. <i>Reports on Progress in Physics</i> , 2011, 74, 056501.	8.1	267
4	Transport properties of strongly correlated metals: A dynamical mean-field approach. <i>Physical Review B</i> , 2000, 61, 7996-8008.	1.1	198
5	Superconductivity Mediated by Charge Fluctuations in Layered Molecular Crystals. <i>Physical Review Letters</i> , 2001, 87, 237002.	2.9	196
6	Phase diagram for a class of spin-1/2 Heisenberg models interpolating between the square-lattice, the triangular-lattice, and the linear-chain limits. <i>Physical Review B</i> , 1999, 59, 14367-14375.	1.1	158
7	Entanglement of two-mode Bose-Einstein condensates. <i>Physical Review A</i> , 2003, 67, .	1.0	151
8	Anisotropic scattering and anomalous normal-state transport in a high-temperature superconductor. <i>Nature Physics</i> , 2006, 2, 821-825.	6.5	148
9	A first-principles density-functional calculation of the electronic and vibrational structure of the key melanin monomers. <i>Journal of Chemical Physics</i> , 2004, 120, 8608-8615.	1.2	147
10	Strong electronic correlations in superconducting organic charge transfer salts. <i>Journal of Physics Condensed Matter</i> , 2006, 18, R827-R866.	0.7	146
11	Incoherent Interlayer Transport and Angular-Dependent Magnetoresistance Oscillations in Layered Metals. <i>Physical Review Letters</i> , 1998, 81, 4492-4495.	2.9	131
12	Algebraic Bethe ansatz method for the exact calculation of energy spectra and form factors: applications to models of Bose-Einstein condensates and metallic nanograins. <i>Journal of Physics A</i> , 2003, 36, R63-R104.	1.6	126
13	Excitation spectra of the spin-1/2 triangular-lattice Heisenberg antiferromagnet. <i>Physical Review B</i> , 2006, 74, .	1.1	125
14	Comparison of coherent and weakly incoherent transport models for the interlayer magnetoresistance of layered Fermi liquids. <i>Physical Review B</i> , 1999, 60, 7998-8011.	1.1	122
15	Effect of Lattice Zero-Point Motion on Electronic Properties of the Peierls-Fröhlich State. <i>Physical Review Letters</i> , 1992, 69, 1085-1088.	2.9	121
16	Temperature dependence of polaronic transport through single molecules and quantum dots. <i>Physical Review B</i> , 2002, 66, .	1.1	115
17	Anomalous Excitation Spectra of Frustrated Quantum Antiferromagnets. <i>Physical Review Letters</i> , 2006, 96, 057201.	2.9	98
18	Temperature dependence of the magnetic susceptibility for triangular-lattice antiferromagnets with spatially anisotropic exchange constants. <i>Physical Review B</i> , 2005, 71, .	1.1	95

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19	Weak, strong, and coherent regimes of Fröhlich condensation and their applications to terahertz medicine and quantum consciousness. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4219-4224.	3.3	94
20	Half-Filled Layered Organic Superconductors and the Resonating-Valence-Bond Theory of the Hubbard-Heisenberg Model. Physical Review Letters, 2005, 94, 047004.	2.9	92
21	Phase Diagram of the One-Dimensional Holstein Model of Spinless Fermions. Physical Review Letters, 1998, 80, 5607-5610.	2.9	91
22	Entanglement between a qubit and the environment in the spin-boson model. Physical Review A, 2003, 68, .	1.0	90
23	Effect of disorder on quantum phase transitions in anisotropic XY spin chains in a transverse field. Physical Review B, 1999, 60, 344-358.	1.1	88
24	Effect of quantum nuclear motion on hydrogen bonding. Journal of Chemical Physics, 2014, 140, 174508.	1.2	84
25	Quantum oscillations and Berry's phase in topological insulator surface states with broken particle-hole symmetry. Physical Review B, 2013, 87, .	1.1	81
26	Superconducting correlations in metallic nanoparticles: Exact solution of the BCS model by the algebraic Bethe ansatz. Physical Review B, 2002, 65, .	1.1	80
27	Charge ordering and antiferromagnetic exchange in layered molecular crystals of the $\beta$ type. Physical Review B, 2001, 64, .	1.1	78
28	Phase Diagram of a Heisenberg Spin-Peierls Model with Quantum Phonons. Physical Review Letters, 1999, 83, 408-411.	2.9	76
29	Exact Results for Quantum Phase Transitions in Random XY Spin Chains. Physical Review Letters, 1996, 77, 4804-4807.	2.9	71
30	The Heisenberg antiferromagnet on an anisotropic triangular lattice: linear spin-wave theory. Journal of Physics Condensed Matter, 1999, 11, 2965-2975.	0.7	70
31	Paramagnetic limiting of the upper critical field of the layered organic superconductor $(\text{BEDT-TTF})_2\text{Cu}(\text{SCN})_2$ . Physical Review B, 2000, 61, 750-755.	1.1	70
32	Dependence of the superconducting transition temperature of organic molecular crystals on intrinsically nonmagnetic disorder: A signature of either unconventional superconductivity or the atypical formation of magnetic moments. Physical Review B, 2004, 69, .	1.1	70
33	Entanglement and bifurcations in Jahn-Teller models. Physical Review A, 2004, 70, .	1.0	70
34	Ferromagnetism, paramagnetism, and a Curie-Weiss metal in an electron-doped Hubbard model on a triangular lattice. Physical Review B, 2006, 73, .	1.1	70
35	Quasiparticles at the Verge of Localization near the Mott Metal-Insulator Transition in a Two-Dimensional Material. Physical Review Letters, 2008, 100, 086404.	2.9	69
36	Universal subgap optical conductivity in quasi-one-dimensional Peierls systems. Physical Review Letters, 1993, 71, 4015-4018.	2.9	68

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37	Violation of Kohler's rule by the magnetoresistance of a quasi-two-dimensional organic metal. <i>Physical Review B</i> , 1998, 57, 11854-11857.	1.1	67
38	Large-N solutions of the Heisenberg and Hubbard-Heisenberg models on the anisotropic triangular lattice: application to Cs <sub>2</sub> CuCl <sub>4</sub> and to the layered organic superconductors $\kappa$ -(BEDT-TTF) <sub>2</sub> X <sub>13</sub> . <i>Physical Review B</i> , 2008, 78, 5159-5181.	0.7	67
39	Quantum Dynamics of Electronic Excitations in Biomolecular Chromophores: Role of the Protein Environment and Solvent. <i>Journal of Physical Chemistry A</i> , 2008, 112, 2162-2176.	1.1	66
40	Spin boson models for quantum decoherence of electronic excitations of biomolecules and quantum dots in a solvent. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 1735-1746.	0.7	62
41	Quantum entanglement and fixed-point bifurcations. <i>Physical Review A</i> , 2005, 71, .	1.0	61
42	Effect of hydrogen bonding on the infrared absorption intensity of OH stretch vibrations. <i>Chemical Physics</i> , 2017, 488-489, 43-54.	0.9	61
43	Acoustic Order Parameter Three-Wave Resonance in Superfluid <sup>3</sup> He-B. <i>Europhysics Letters</i> , 1989, 9, 459-464.	0.7	58
44	Penrose-Hameroff orchestrated objective-reduction proposal for human consciousness is not biologically feasible. <i>Physical Review E</i> , 2009, 80, 021912.	0.8	57
45	Charge distribution near bulk oxygen vacancies in cerium oxides. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 223201.	0.7	57
46	Quantum entanglement between electronic and vibrational degrees of freedom in molecules. <i>Journal of Chemical Physics</i> , 2011, 135, 244110.	1.2	56
47	Two-phonon absorption by the real squashing mode in superfluid <sup>3</sup> He. <i>Physical Review Letters</i> , 1991, 66, 3152-3155.	2.9	54
48	Entanglement sharing and decoherence in the spin-bath. <i>Physical Review A</i> , 2005, 71, .	1.0	53
49	Quantum entanglement in the two-impurity Kondo model. <i>Physical Review A</i> , 2006, 73, .	1.0	53
50	Symmetry of the Superconducting Order Parameter in Frustrated Systems Determined by the Spatial Anisotropy of Spin Correlations. <i>Physical Review Letters</i> , 2007, 98, 027005.	2.9	53
51	A diabatic three-state representation of photoisomerization in the green fluorescent protein chromophore. <i>Journal of Chemical Physics</i> , 2009, 130, 184302.	1.2	52
52	Quantum Monte Carlo study of the one-dimensional Holstein model of spinless fermions. <i>Physical Review B</i> , 1996, 53, 9676-9687.	1.1	51
53	Convergent Proton-Transfer Photocycles Violate Mirror-Image Symmetry in a Key Melanin Monomer. <i>Journal of the American Chemical Society</i> , 2007, 129, 6672-6673.	6.6	51
54	Comment on the coupling of zero sound to the $J=1$ modes of <sup>3</sup> He-B. <i>Journal of Low Temperature Physics</i> , 1993, 90-90, 337-341.	0.6	48

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55	Dynamical properties of a strongly correlated model for quarter-filled layered organic molecular crystals. <i>Physical Review B</i> , 2003, 68, .	1.1	46
56	The role of quantum effects in proton transfer reactions in enzymes: quantum tunneling in a noisy environment?. <i>New Journal of Physics</i> , 2010, 12, 055002.	1.2	46
57	Gauge Fields, Geometric Phases, and Quantum Adiabatic Pumps. <i>Physical Review Letters</i> , 2003, 91, 186803.	2.9	45
58	Observation of dispersion in the $J=2$ collective modes of $B_3$ by nonlinear acoustic spectroscopy. <i>Physical Review Letters</i> , 1992, 68, 3725-3728.	2.9	44
59	Non-adiabatic effects in thermochemistry, spectroscopy and kinetics: the general importance of all three Born-Oppenheimer breakdown corrections. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24641-24665.	1.3	43
60	Thermodynamics of a Bad Metal-Mott Insulator Transition in the Presence of Frustration. <i>Physical Review Letters</i> , 2013, 110, 206402.	2.9	42
61	Microscopic theory of the pseudogap and Peierls transition in quasi-one-dimensional materials. <i>Physical Review B</i> , 1995, 52, 16428-16442.	1.1	41
62	Cyclotron effective masses in layered metals. <i>Physical Review B</i> , 2000, 62, 2416-2423.	1.1	41
63	Criteria for quantum coherent transfer of excitations between chromophores in a polar solvent. <i>Chemical Physics Letters</i> , 2006, 421, 266-271.	1.2	41
64	Evidence for modification of the electronic density of states by zero-point lattice motion in one dimension: Luminescence and resonance Raman studies of an MX solid. <i>Physical Review Letters</i> , 1993, 71, 762-765.	2.9	40
65	Metal-insulator transition and charge ordering in the extended Hubbard model at one-quarter filling. <i>Physical Review B</i> , 2002, 66, .	1.1	40
66	Exact results for a tunnel-coupled pair of trapped Bose-Einstein condensates. <i>Journal of Physics A</i> , 2003, 36, L113-L119.	1.6	39
67	Integrability and exact spectrum of a pairing model for nucleons. <i>Journal of Physics A</i> , 2002, 35, 6459-6469.	1.6	33
68	Sensitivity of the interlayer magnetoresistance of layered metals to intralayer anisotropies. <i>Physical Review B</i> , 2007, 76, .	1.1	32
69	Excitation spectra and ground state properties of the layered spin-1/2 frustrated antiferromagnets $Cs_2CuCl_4$ and $Cs_2CuBr_4$ . <i>Physical Review B</i> , 2007, 75, .	1.1	31
70	Periodic orbit resonances in layered metals in tilted magnetic fields. <i>Physical Review B</i> , 1999, 60, R11241-R11244.	1.1	30
71	Models of organometallic complexes for optoelectronic applications. <i>Journal of Materials Chemistry</i> , 2010, 20, 10301.	6.7	29
72	Electron-vibration entanglement in the Born-Oppenheimer description of chemical reactions and spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24666-24682.	1.3	29



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91	Magnetic polarization currents in double quantum dot devices. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 1147-1154.	0.7	19
92	Thermal and electrical currents in nanoscale electronic interferometers. <i>Physical Review B</i> , 2005, 71, .	1.1	19
93	Ladder Operator for the One-Dimensional Hubbard Model. <i>Physical Review Letters</i> , 2001, 86, 5096-5099.	2.9	18
94	Spin fluctuations and the pseudogap in organic superconductors. <i>Physical Review B</i> , 2009, 80, .	1.1	18
95	Ginzburg-Landau theory of phase transitions in quasi-one-dimensional systems. <i>Physical Review B</i> , 1995, 51, 6249-6260.	1.1	17
96	Quantum oscillations in quasi-one-dimensional metals with spin-density-wave ground states. <i>Physical Review B</i> , 1999, 59, 2604-2608.	1.1	17
97	On the relationship between the critical temperature and the London penetration depth in layered organic superconductors. <i>Journal of Physics Condensed Matter</i> , 2004, 16, L367-L373.	0.7	17
98	Antiferromagnetic spin fluctuations in the metallic phase of quasi-two-dimensional organic superconductors. <i>Physical Review B</i> , 2007, 75, .	1.1	17
99	A dark excited state of fluorescent protein chromophores, considered as Brooker dyes. <i>Chemical Physics Letters</i> , 2010, 492, 150-156.	1.2	17
100	A two-state model of twisted intramolecular charge-transfer in monomethine dyes. <i>Journal of Chemical Physics</i> , 2012, 137, 164319.	1.2	17
101	A low-temperature insulating phase at for 2D holes in high-mobility heterostructures with Landau level degeneracy. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 1565-1574.	0.7	16
102	Quantum transport and integrability of the Anderson model for a quantum dot with multiple leads. <i>Physical Review B</i> , 2003, 68, .	1.1	16
103	Fast simulation of a quantum phase transition in an ion-trap realizable unitary map. <i>Physical Review A</i> , 2005, 71, .	1.0	15
104	Consistent Description of the Metallic Phase of Overdoped Cuprate Superconductors as an Anisotropic Marginal Fermi Liquid. <i>Physical Review Letters</i> , 2011, 107, 147001.	2.9	14
105	EXACT SOLUTION, SCALING BEHAVIOUR AND QUANTUM DYNAMICS OF A MODEL OF AN ATOM-MOLECULE BOSE-EINSTEIN CONDENSATE. <i>International Journal of Modern Physics B</i> , 2003, 17, 5819-5828.	1.0	13
106	Quantum entanglement between a nonlinear nanomechanical resonator and a microwave field. <i>Physical Review E</i> , 2011, 83, 056202.	0.8	13
107	A three-state effective Hamiltonian for symmetric cationic diarylmethanes. <i>Journal of Chemical Physics</i> , 2012, 136, 234313.	1.2	13
108	A diabatic state model for double proton transfer in hydrogen bonded complexes. <i>Journal of Chemical Physics</i> , 2014, 141, 104314.	1.2	13

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109	Critical behavior of one-particle spectral weights in the transverse Ising model. <i>Physical Review B</i> , 2006, 74, .	1.1	12
110	Anisotropic scattering in angular-dependent magnetoresistance oscillations of quasi-two-dimensional and quasi-one-dimensional metals: Beyond the relaxation-time approximation. <i>Physical Review B</i> , 2008, 77, .	1.1	12
111	Sensitivity of the photophysical properties of organometallic complexes to small chemical changes. <i>Journal of Chemical Physics</i> , 2010, 133, 124314.	1.2	12
112	Spin-triplet superconductivity in a weak-coupling Hubbard model for the quasi-one-dimensional compound $\text{LiO}_{17}$ . <i>Physical Review B</i> , 2015, 92, .	1.1	12
113	Photoluminescence spectra of conjugated polymers with nondegenerate ground state. <i>Synthetic Metals</i> , 1991, 43, 3615-3618.	2.1	11
114	Measuring geometric phases of scattering states in nanoscale electronic devices. <i>Physical Review B</i> , 2004, 69, .	1.1	11
115	Quantum interference and weak localization effects in the interlayer magnetoresistance of layered metals. <i>Physical Review B</i> , 2008, 78, .	1.1	11
116	Apparent Violation of the Wiedemann-Franz Law near a Magnetic Field Tuned Metal-Antiferromagnetic Quantum Critical Point. <i>Physical Review Letters</i> , 2008, 101, 266403.	2.9	11
117	Interplay of frustration, magnetism, charge ordering, and covalency in the ionic Hubbard model for $\text{Na}_{0.5}\text{CoO}_2$ . <i>Physical Review B</i> , 2009, 79, .	1.1	11
118	Holon-doublon binding as the mechanism for the Mott transition. <i>Physical Review B</i> , 2015, 92, .	1.1	11
119	Solvable models of Bose-Einstein condensates: A new algebraic Bethe ansatz scheme. <i>Journal of Mathematical Physics</i> , 2003, 44, 4690.	0.5	10
120	Spin exchange and superconductivity in a $\text{t}\hat{t}^2\hat{t}^2\hat{V}$ model for two-dimensional quarter-filled systems. <i>Physical Review B</i> , 2005, 71, .	1.1	10
121	Low temperature magnetotransport of 2D electron and hole systems in high-mobility $\text{SiSi}_{1-x}\text{Ge}_x$ heterostructures. <i>Surface Science</i> , 1996, 361-362, 550-555.	0.8	9
122	Ionic Hubbard model on a triangular lattice for $\text{Na}_{0.5}\text{CoO}_2$ , $\text{Rb}_{0.5}\text{CoO}_2$ , and $\text{K}_{0.5}\text{CoO}_2$ : Mean-field slave boson theory. <i>Physical Review B</i> , 2009, 80, .	1.1	8
123	Enhancement of the thermoelectric power by electronic correlations in bad metals: A study of the Kelvin formula. <i>Physical Review B</i> , 2015, 91, .	1.1	8
124	Magic-angle effects in the interlayer magnetoresistance of quasi-one-dimensional metals due to interchain incoherence. <i>Physical Review B</i> , 2004, 70, .	1.1	7
125	Electronic and magnetic properties of the ionic Hubbard model on the striped triangular lattice at $3/4$ filling. <i>Physical Review B</i> , 2009, 80, .	1.1	7
126	Thermal and electrical intralayer conductivities of underdoped cuprate superconductors from Fermi-pocket models. <i>Physical Review B</i> , 2010, 82, .	1.1	7



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127	Connecting Resources for Tertiary Chemical Education with Scientists and Students in Developing Countries. <i>Journal of Chemical Education</i> , 2013, 90, 1325-1332.	1.1	7
128	Shear viscosity of strongly interacting fermionic quantum fluids. <i>Physical Review B</i> , 2015, 92, .	1.1	7
129	Destruction of Density-Wave States by a Pseudogap in High Magnetic Fields: Application to (TMTSF) <sub>2</sub> ClO <sub>4</sub> . <i>Physical Review Letters</i> , 1995, 74, 5140-5143.	2.9	6
130	Derivation of the probability distribution function for the local density of states of a disordered quantum wire via the replica trick and supersymmetry. <i>Nuclear Physics B</i> , 2001, 592, 445-478.	0.9	6
131	Vertex corrections and the Korringa ratio in strongly correlated electron materials. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 195601.	0.7	6
132	Spin-orbit coupling and odd-parity superconductivity in the quasi-one-dimensional compound $\text{LiO}_7$ . <i>Physical Review B</i> , 2016, 93, .	0.9	6
133	Multiple insulating states due to the interplay of strong correlations and lattice geometry in a single-orbital Hubbard model. <i>Physical Review B</i> , 2021, 103, .	1.1	6
134	Spin-0 Mott insulator to metal to spin-1 Mott insulator transition in the single-orbital Hubbard model on the decorated honeycomb lattice. <i>Physical Review B</i> , 2021, 104, .	1.1	6
135	Parametric excitation of the $J = 2+$ modes by zero sound in superfluid <sup>3</sup> He-B. <i>Physica B: Condensed Matter</i> , 1991, 169, 170-176.	1.3	5
136	Applications of pulsed magnetic fields and low temperatures to low-dimensional (organic) conductor physics. <i>Physica B: Condensed Matter</i> , 1996, 216, 380-383.	1.3	5
137	Spin-glass dynamics. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 177-181, 63-66.	1.0	5
138	2D or not 2D?. <i>Nature Physics</i> , 2007, 3, 756-758.	6.5	5
139	Isotopic fractionation in proteins as a measure of hydrogen bond length. <i>Journal of Chemical Physics</i> , 2015, 143, 044309.	1.2	5
140	Nonlinear acoustic effects in superfluid <sup>3</sup> He-B. <i>Physica B: Condensed Matter</i> , 1992, 178, 219-237.	1.3	4
141	Lattice fluctuations and disorder in quasi-one dimensional materials. <i>Synthetic Metals</i> , 1993, 57, 4296-4301.	2.1	4
142	EXACT SOLUTION AT INTEGRABLE COUPLING OF A MODEL FOR THE JOSEPHSON EFFECT BETWEEN SMALL METALLIC GRAINS. <i>International Journal of Modern Physics B</i> , 2002, 16, 3429-3438.	1.0	4
143	Enhancement of thermal expansion of organic charge-transfer salts by strong electronic correlations. <i>Physical Review B</i> , 2015, 91, .	1.1	4
144	Temperature dependence of the interlayer magnetoresistance of quasi-one-dimensional Fermi liquids at the magic angles. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 7945-7956.	0.7	3

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145	Energy level statistics for models of coupled single-mode Bose-Einstein condensates. Journal of Statistical Mechanics: Theory and Experiment, 2004, 2004, P10019.	0.9	3
146	Normal state anisotropic scattering in overdoped Tl <sub>2</sub> Ba <sub>2</sub> CuO <sub>6</sub> +δ. Physica B: Condensed Matter, 2008, 403, 982-985.	1.3	3
147	Probing Fermi surface anisotropies in layered metals with AMRO. Physica B: Condensed Matter, 2008, 403, 1552-1554.	1.3	3
148	Interlayer transverse magnetoresistance in the presence of an anisotropic pseudogap. Physical Review B, 2009, 80, .	1.1	3
149	Valence-bond non-equilibrium solvation model for a twisting monomethine cyanine. Journal of Chemical Physics, 2015, 142, 084502.	1.2	3
150	Emergence, reductionism and the stratification of reality in science and theology. Scottish Journal of Theology, 2011, 64, 211-235.	0.0	2
151	Signatures of the Berry curvature in the frequency dependent interlayer magnetoresistance in tilted magnetic fields. Journal of Physics Condensed Matter, 2014, 26, 085801.	0.7	2
152	Magneto-oscillations and field-induced phase transitions in organic conductors. Surface Science, 1996, 361-362, 901-904.	0.8	1
153	Electric-field-induced Mott insulating states in organic field-effect transistors. Physical Review B, 2002, 66, .	1.1	1
154	First-principle density-functional calculation of the Raman spectra of BEDT-TTF. European Physical Journal Special Topics, 2004, 114, 293-295.	0.2	1
155	Coherence of polaronic transport in layered metals. Journal of Physics Condensed Matter, 2004, 16, 6695-6712.	0.7	1
156	Reply to "Comment on "Anisotropic scattering in angular-dependent magnetoresistance oscillations of quasi-two-dimensional and quasi-one-dimensional metals: Beyond the relaxation-time approximation". Physical Review B, 2010, 82, .	1.1	1
157	Fermi surface of underdoped cuprate superconductors from interlayer magnetoresistance: Closed pockets versus open arcs. Physical Review B, 2010, 82, .	1.1	1
158	MAGNETIC-FIELD-INDUCED SUPERCONDUCTIVITY IN LAYERED ORGANIC MOLECULAR CRYSTALS WITH LOCALIZED MAGNETIC MOMENTS. International Journal of Modern Physics B, 2002, 16, 3071-3071.	1.0	0