

Miguel Ortuno

List of Publications by Year in descending order

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136
papers

2,113
citations

218592

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42
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137
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137
docs citations

137
times ranked

1159
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Simulations of Variable-Range Hopping. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, 2100340.	0.7	2
2	Nanoscale Charge Density and Dynamics in Graphene Oxide. , 2021, 3, 1826-1831.		3
3	Overactivated transport in the localized phase of the superconductor-insulator transition. <i>Nature Communications</i> , 2021, 12, 6733.	5.8	6
4	Displacement Transformations as a Tool to Study Many-Body Localization. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	1
5	Topological phase transition in superconductors with mirror symmetry. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 035603.	0.7	1
6	Disordered hyperuniformity in superconducting vortex lattices. <i>Physical Review Research</i> , 2020, 2, .	1.3	6
7	Construction of many-body eigenstates with displacement transformations in disordered systems. <i>Physical Review B</i> , 2019, 100, .	1.1	3
8	Current-driven production of vortex-antivortex pairs in planar Josephson junction arrays and phase cracks in long-range order. <i>Scientific Reports</i> , 2018, 8, 15460.	1.6	4
9	Many-body localization from the perspective of Integrals of Motion. <i>Annalen Der Physik</i> , 2017, 529, 1600322.	0.9	52
10	Localized charge imaging with scanning Kelvin probe microscopy. <i>Nanotechnology</i> , 2017, 28, 025703.	1.3	10
11	Charging of highly resistive granular metal films. <i>Physical Review B</i> , 2017, 95, .	1.1	3
12	Explicit Local Integrals of Motion for the Many-Body Localized State. <i>Physical Review Letters</i> , 2016, 116, 010404.	2.9	125
13	Conducting polymers as electron glasses: surface charge domains and slow relaxation. <i>Scientific Reports</i> , 2016, 6, 21647.	1.6	10
14	Unbinding transition in semi-infinite two-dimensional localized systems. <i>Physical Review B</i> , 2015, 91, .	1.1	17
15	Density of states of two-dimensional systems with long-range logarithmic interactions. <i>Physical Review B</i> , 2015, 92, .	1.1	4
16	Emergent SO(5) Symmetry at the Néel to Valence-Bond-Solid Transition. <i>Physical Review Letters</i> , 2015, 115, 267203.	2.9	117
17	Deconfined Quantum Criticality, Scaling Violations, and Classical Loop Models. <i>Physical Review X</i> , 2015, 5, .	2.8	129
18	Electronic transport in two-dimensional high dielectric constant nanosystems. <i>Scientific Reports</i> , 2015, 5, 9667.	1.6	9

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19	Green functions of interacting systems in the strongly localized regime. Journal of Physics Condensed Matter, 2015, 27, 335503.	0.7	2
20	Locating the Many-Body transition via the von Neumann entropy. , 2014, , .		0
21	Length Distributions in Loop Soups. Physical Review Letters, 2013, 111, 100601.	2.9	21
22	Loop models with crossings. Physical Review B, 2013, 87, .	1.1	41
23	Phase transitions in three-dimensional loop models and the $C^P n^{\infty}$ model. Physical Review B, 2013, 88, .	1.1	42
24	Quantum Coulomb gap in low dimensions. Physical Review B, 2012, 86, .	1.1	6
25	Numerical studies of relaxation in Electron Glasses. Journal of Physics: Conference Series, 2012, 376, 012007.	0.3	2
26	Quantum Coulomb gap. Journal of Physics: Conference Series, 2012, 376, 012006.	0.3	0
27	Localization length of nearly periodic layered metamaterials. Physical Review A, 2012, 86, .	1.0	9
28	Spin quantum Hall effect and plateau transitions in multilayer network models. Physical Review B, 2011, 83, .	1.1	6
29	3D Loop Models and the CP^1 Model. Physical Review Letters, 2011, 107, 110601.	1.1	59
30	Effects of many-electron jumps in the relaxation and conductivity of Coulomb glasses. Physical Review B, 2011, 84, .	1.1	12
31	Phase diagram of the weak-magnetic-field quantum Hall transition quantified from classical percolation. Physical Review B, 2011, 84, .	1.1	5
32	Slow-light transmission in one-dimensional periodic structures. Physical Review A, 2010, 81, .	1.0	4
33	Many-body Effects in Conductivity of Disordered Semiconductors. AIP Conference Proceedings, 2010, , .	0.3	1
34	Nonlinear conductivity of two-dimensional Coulomb glasses. Physical Review B, 2010, 82, .	1.1	10
35	Effective temperature in Coulomb glasses. , 2009, , .		0
36	Crossover from diffusive to strongly localized regime in two-dimensional systems. Physical Review B, 2009, 80, .	1.1	7

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37	Random Walks and Anderson Localization in a Three-Dimensional Class C Network Model. <i>Physical Review Letters</i> , 2009, 102, 070603.	2.9	22
38	Delocalization by Disorder in Layered Systems. <i>Physical Review Letters</i> , 2009, 102, 216601.	2.9	9
39	Study of two-electron jumps in relaxation of Coulomb glasses. <i>Annalen Der Physik</i> , 2009, 18, 877-881.	0.9	1
40	Non-linear conductivity in Coulomb glasses. <i>Annalen Der Physik</i> , 2009, 18, 873-876.	0.9	3
41	Conductance distribution in two-dimensional localized systems with and without magnetic fields. <i>European Physical Journal B</i> , 2009, 70, 513-521.	0.6	15
42	Numerical study of relaxation in Coulomb glasses. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 674-679.	0.8	3
43	Negative magnetoresistance in ultrananocrystalline diamond: Strong or weak localization?. <i>Applied Physics Letters</i> , 2008, 92, 012120.	1.5	14
44	Effective Temperature in Relaxation of Coulomb Glasses. <i>Physical Review Letters</i> , 2008, 101, 056601.	2.9	21
45	Universal Distribution Functions in Two-Dimensional Localized Systems. <i>Physical Review Letters</i> , 2007, 99, 116602.	2.9	53
46	Collective variable-range hopping in the Coulomb gap: Computer simulations. <i>Physical Review B</i> , 2006, 73, .	1.1	20
47	Conductance fluctuations and corrections to the localization length in two-dimensional localized systems. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 395-398.	0.7	4
48	Conductance fluctuations in the localized regime: Numerical study in disordered noninteracting systems. <i>Physical Review B</i> , 2006, 73, .	1.1	19
49	Tunneling-time calculations for general finite wave packets based on the presence-time formalism. <i>Physical Review A</i> , 2006, 74, .	1.0	13
50	Quantum fluctuations effects in hopping. <i>Europhysics Letters</i> , 2005, 70, 649-655.	0.7	3
51	Conductance fluctuations and single-parameter scaling in two-dimensional disordered systems. <i>Physical Review B</i> , 2005, 72, .	1.1	35
52	Charge pumping in one-dimensional Kronig-Penney models. <i>Physical Review B</i> , 2005, 72, .	1.1	9
53	Monte Carlo method for relaxation in electron glasses. <i>Physical Review B</i> , 2005, 72, .	1.1	13
54	Conductance fluctuations in one- and two-dimensional localized systems. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 2148-2156.	0.7	3

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55	Variable range hopping in the Coulomb gap. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 42-45.	0.8	3
56	Quantum effects in Mott's variable-range hopping. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 136-139.	0.8	0
57	Keyword detection in natural languages and DNA. <i>Europhysics Letters</i> , 2002, 57, 759-764.	0.7	94
58	Green's function formulation of the traversal time and nature of the complex time. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001, 81, 1191-1200.	0.6	0
59	Configuration space in electron glasses. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001, 81, 151-162.	0.6	2
60	Coulomb interactions in Anderson insulators. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001, 81, 1049-1064.	0.6	8
61	Anomalous Large Critical Regions in Power-Law Random Matrix Ensembles. <i>Physical Review Letters</i> , 2001, 87, 056601.	2.9	29
62	Fluctuations of the Correlation Dimension at Metal-Insulator Transitions. <i>Physical Review Letters</i> , 2001, 88, 016401.	2.9	67
63	Phase Transition in Coulomb Glasses. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 218, 11-15.	0.7	11
64	Dynamic Model with Quenched Rotational Disorder in the Hexagonal Lattice. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 218, 247-250.	0.7	0
65	Valleys in Configuration Space of Coulomb Glasses. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 218, 25-29.	0.7	2
66	Nonergodic effects in the Coulomb glass: Specific heat. <i>Physical Review B</i> , 2000, 62, 8030-8037.	1.1	14
67	Localized to extended states transition for two interacting particles in a two-dimensional random potential. <i>Europhysics Letters</i> , 1999, 46, 224-230.	0.7	30
68	Numerical study of relaxation in electron glasses. <i>Physical Review B</i> , 1999, 59, 5328-5332.	1.1	22
69	Dielectric susceptibility of the Coulomb glass. <i>Physical Review B</i> , 1999, 59, 910-914.	1.1	14
70	Kramers-Kronig relations and the barrier interaction time problem. <i>European Physical Journal B</i> , 1999, 9, 283-287.	0.6	6
71	Number of bound states of a Kronig-Penney finite-periodic superlattice. <i>European Physical Journal B</i> , 1999, 8, 635-641.	0.6	7
72	Two Interacting particles in a Two-Dimensional Random Potential. , 1999, , 263-270.		0

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73	On the application of the Kramers-Kronig relations to the interaction time problem. Annalen Der Physik, 1998, 7, 756-763.	0.9	2
74	Coulomb Glass Simulations: Creation of a Set of Low-Energy Many-Particle States, Non-Ergodic Effects in the Specific Heat. Physica Status Solidi (B): Basic Research, 1998, 205, 17-19.	0.7	7
75	Relaxation in Coulomb Glasses at Finite Temperature. Physica Status Solidi (B): Basic Research, 1998, 205, 31-34.	0.7	7
76	Transport regimes and critical energies in the two-dimensional Anderson model. Journal of Physics Condensed Matter, 1998, 10, 295-303.	0.7	7
77	Chaotic behavior induced by point contacts in quantum dots. Physical Review B, 1998, 58, R10143-R10146.	1.1	10
78	On the application of the Kramers-Kronig relations to the interaction time problem. Annalen Der Physik, 1998, 510, 756-763.	0.9	0
79	Electronic spectrum of quantum-wells superlattices in an electric field. Physical Review B, 1997, 56, 14929-14932.	1.1	6
80	Comment on "Possible Global Minimum Lattice Configurations for Thomson's Problem of Charges on a Sphere". Physical Review Letters, 1997, 79, 1417-1417.	2.9	16
81	Global quantum fluctuations in metallic particles. Physical Review B, 1997, 56, R7045-R7048.	1.1	2
82	Conductivity of the two-dimensional Coulomb glass. Physical Review B, 1997, 55, R8630-R8633.	1.1	69
83	Finite periodic and quasiperiodic systems in an electric field. Zeitschrift für Physik B-Condensed Matter, 1997, 102, 425-431.	1.1	15
84	Quantum fluctuations in granular metals. Physica B: Condensed Matter, 1997, 230-232, 803-805.	1.3	0
85	Tunneling and dwell time for one-dimensional generalized Kronig-Penney model. Physica B: Condensed Matter, 1997, 233, 72-77.	1.3	7
86	Traversal Time as a Function of the Size of the Wavepacket. Journal De Physique, I, 1997, 7, 653-661.	1.2	3
87	Traversal time in periodically loaded waveguides. Zeitschrift für Physik B-Condensed Matter, 1996, 100, 595-599.	1.1	5
88	A new model of quantum chaotic billiards: application to granular metals. Zeitschrift für Physik B-Condensed Matter, 1996, 103, 297-304.	1.1	1
89	Dwell time for an asymmetric one-dimensional barrier. Solid State Communications, 1996, 97, 791-793.	0.9	4
90	On the statistics of binary alloys in one-dimensional quasiperiodic lattices. Physica B: Condensed Matter, 1996, 217, 127-132.	1.3	2

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91	Many-particle jumps algorithm and Thomson's problem. <i>Journal of Physics A</i> , 1996, 29, 1973-1978.	1.6	17
92	Ferromagnetic interactions in nanostructured systems with two different Curie temperatures. <i>Physical Review B</i> , 1996, 53, 11656-11660.	1.1	47
93	Brewster Anomaly in Fibonacci and Thue-Morse Dielectric Multilayers. <i>Electromagnetics</i> , 1996, 16, 313-322.	0.3	2
94	Tunneling times for one-dimensional systems. <i>Physical Review B</i> , 1995, 51, 6743-6746.	1.1	24
95	Faraday Rotation and Complex-Valued Traversal Time for Classical Light Waves. <i>Physical Review Letters</i> , 1995, 75, 2312-2315.	2.9	57
96	Energy spectra and level statistics of Fibonacci and Thue-Morse chains. <i>Physical Review B</i> , 1995, 51, 12813-12816.	1.1	32
97	Monte Carlo simulation of hopping conduction in two-dimensional Coulomb glasses. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 639-644.	0.7	3
98	LOW ENERGY EXCITATIONS AND NON-ERGODICITY IN THE COULOMB GLASS. <i>International Journal of Modern Physics B</i> , 1994, 08, 923-933.	1.0	2
99	Spatial disorder dependence of the conductance of a random resistor network. <i>Physical Review B</i> , 1994, 50, 12520-12523.	1.1	3
100	Electrode screening of the Coulomb gap. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1994, 70, 1231-1235.	0.6	9
101	Relaxation effects in the Coulomb glass. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 445-448.	1.5	3
102	Energy and dielectric relaxation in the Coulomb gap. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993, 201, 178-182.	1.2	4
103	Ground state of granular metals. <i>Physical Review Letters</i> , 1993, 71, 1871-1874.	2.9	39
104	Coulomb gap in granular metal wires. <i>Physical Review B</i> , 1992, 45, 11542-11545.	1.1	2
105	Reflection of electromagnetic waves from rough waveguides. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1990, 38, 445-448.	2.9	1
106	Percolative Treatment of the Verwey Transition in Cobalt- ²⁺ Iron and Nickel- ²⁺ Iron Ferrites. <i>Physica Status Solidi (B): Basic Research</i> , 1990, 157, 275-280.	0.7	3
107	Density of states for a disordered system of interacting dipoles. <i>Physica B: Condensed Matter</i> , 1989, 160, 293-296.	1.3	3
108	Clausius-Mossotti effects: Classical and quantum mechanical approaches. <i>American Journal of Physics</i> , 1989, 57, 818-821.	0.3	1

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109	Critical behaviour in deterministic motion in a random environment. European Physical Journal B, 1988, 70, 269-274.	0.6	3
110	Hardening of the Coulomb gap by electronic polarons. Physical Review B, 1988, 37, 10520-10525.	1.1	28
111	Computer studies of system densities of states and of correlations in the excitation spectra of interacting electrons in disordered insulators. Physical Review B, 1988, 37, 9006-9016.	1.1	8
112	Single-particle density of excitations and hard gaps in localized interacting systems. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1988, 58, 69-77.	0.6	12
113	Motion in a random gyrotropic environment in D dimensions. Journal of Physics A, 1987, 20, 4047-4051.	1.6	2
114	Low energy excitations of interacting Anderson localized electrons. Journal of Non-Crystalline Solids, 1987, 97-98, 233-236.	1.5	4
115	Hard gaps in localized interacting systems. Journal of Non-Crystalline Solids, 1987, 97-98, 237-240.	1.5	0
116	An algorithm for surface reconstruction in scanning tunneling microscopy. Surface Science, 1987, 181, 107-111.	0.8	47
117	The interpretation and reconstruction of images in scanning tunneling microscopy. Physica Status Solidi A, 1987, 101, 463-468.	1.7	4
118	The multistage character of the Verwey transition in cobalt-iron ferrites. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 120, 148-150.	0.9	1
119	The Verwey Transition in Polycrystalline Cobalt-Iron Ferrites. Physica Status Solidi A, 1986, 96, 581-586.	1.7	8
120	Calculations of the mean width of the Coulomb gap in disordered systems by two simple methods. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1985, 51, 533-541.	0.6	5
121	Clausius-Mosotti relation and excitonic effects for systems with extended wavefunctions. Solid State Communications, 1985, 55, 367-371.	0.9	3
122	Percolation and motion in a simple random environment. Journal of Physics A, 1985, 18, L1095-L1101.	1.6	47
123	The effect of Coulomb interactions on Anderson localization. Journal of Non-Crystalline Solids, 1985, 77-78, 33-36.	1.5	2
124	The Effect Of Coulomb Interactions On Electronic States And Transport In Disordered Insulators. Modern Problems in Condensed Matter Sciences, 1985, , 287-408.	0.1	28
125	Dielectric constant near the Anderson transition. Journal of Physics C: Solid State Physics, 1984, 17, L487-L491.	1.5	8
126	The activation energy of impurity conduction with sequentially correlated hopping. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1983, 117-118, 254-256.	0.9	0

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127	Hopping transport in a-Ge and a-Si. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1983, 47, L93-L98.	0.6	32
128	An extended theory for hopping transport in a-Ge and a-Si. Journal of Non-Crystalline Solids, 1983, 59-60, 53-56.	1.5	27
129	The activation energy of hopping transport with sequential correlations of hops due to Coulomb interactions. Journal of Physics C: Solid State Physics, 1983, 16, 1459-1467.	1.5	15
130	Dielectric response at surfaces for semiconductors and insulators. Surface Science, 1982, 122, 161-174.	0.8	2
131	Coulomb interactions in Anderson localized disordered systems. Solar Energy Materials and Solar Cells, 1982, 8, 81-89.	0.4	65
132	Variable-range hopping including correlation between energies and positions. Journal of Physics C: Solid State Physics, 1981, 14, L421-L425.	1.5	2
133	Induced polarization charge density and microscopic local field for a covalent semiconductor. Solid State Communications, 1980, 33, 821-826.	0.9	5
134	The relevance and limitations of the Clausius-Mosotti relation in quantum systems. Journal of Physics C: Solid State Physics, 1980, 13, 1669-1678.	1.5	9
135	Polarisation catastrophe in P doped Si. Journal of Physics C: Solid State Physics, 1980, 13, 6279-6285.	1.5	6
136	Real-space dielectric response in semiconductors. Journal of Physics C: Solid State Physics, 1979, 12, 1065-1071.	1.5	27