Hideo Aoki

List of Publications by Citations

349 papers	13,276 citations	52 h-index	106 g-index
369 ext. papers	14,625 ext. citations	3.8 avg, IF	6.55 L-index

#	Paper	IF	Citations
349	Unconventional pairing originating from the disconnected Fermi surfaces of superconducting LaFeAsO1-xFx. *Physical Review Letters*, **2008**, 101, 087004	7.4	1433
348	Electric-field-induced superconductivity in an insulator. *Nature Materials*, **2008**, 7, 855-8	27	758
347	Photovoltaic Hall effect in graphene. *Physical Review B*, **2009**, 79,	3.3	751
346	Pnictogen height as a possible switch between high-Tc nodeless and low-Tc nodal pairings in the iron-based superconductors. *Physical Review B*, **2009**, 79,	3.3	580
345	First-principles interatomic potential of silica applied to molecular dynamics. *Physical Review Letters*, **1988**, 61, 869-872	7.4	512
344	Nonequilibrium dynamical mean-field theory and its applications. *Reviews of Modern Physics*, **2014**, 86, 779-837	40.5	390
343	Effect of localization on the hall conductivity in the two-dimensional system in strong magnetic fields. *Solid State Communications*, **1981**, 38, 1079-1082	1.6	334
342	Discovery of superconductivity in KTaO□by electrostatic carrier doping. *Nature Nanotechnology*, **2011**, 6, 408-12	28.7	323
341	Light-induced collective pseudospin precession resonating with Higgs mode in a superconductor. *Science*, **2014**, 345, 1145-9	33.3	253
340	Critical localization in two-dimensional Landau quantization. *Physical Review Letters*, **1985**, 54, 831-834	7.4	195
339	Metal-intercalated aromatic hydrocarbons: a new class of carbon-based superconductors. *Physical Chemistry Chemical Physics*, **2011**, 13, 16476-93	3.6	183
338	New pressure-induced structural transformations in silica obtained by computer simulation. *Nature*, **1989**, 339, 209-211	50.4	173
337	Topological analysis of the quantum Hall effect in graphene: Dirac-Fermi transition across van Hove singularities and edge versus bulk quantum numbers. *Physical Review B*, **2006**, 74,	3.3	153
336	Brillouin-Wigner theory for high-frequency expansion in periodically driven systems: Application to Floquet topological insulators. *Physical Review B*, **2016**, 93,	3.3	149
335	Critical behaviour of extended states in disordered systems. *Journal of Physics C: Solid State Physics*, **1983**, 16, L205-L208		135
334	Quantised Hall effect. *Reports on Progress in Physics*, **1987**, 50, 655-730	14.4	127
333	Quantum Faraday and Kerr rotations in graphene. *Nature Communications*, **2013**, 4, 1841	17.4	126

332	Two-orbital model explains the higher transition temperature of the single-layer Hg-cuprate superconductor compared to that of the La-cuprate superconductor. *Physical Review Letters*, **2010**, 105, 057003	7.4	120
331	Breakdown of a Mott insulator: a nonadiabatic tunneling mechanism. *Physical Review Letters*, **2003**, 91, 066406	7.4	119
330	Electronic structure of super-honeycomb systems: A peculiar realization of semimetal/semiconductor classes and ferromagnetism. *Physical Review Letters*, **1993**, 71, 4389-4392	7.4	114
329	Ground-state decay rate for the Zener breakdown in band and Mott insulators. *Physical Review Letters*, **2005**, 95, 137601	7.4	113
328	Correlated electron systems periodically driven out of equilibrium: Floquet+DMFT formalism. *Physical Review B*, **2008**, 78,	3.3	112
327	Finite-Size Scaling Study of Localization in Landau Levels. *Journal of the Physical Society of Japan*, **1985**, 54, 2238-2249	1.5	106
326	Molecular aspects of electron correlation in quantum dots. *Journal of Physics Condensed Matter*, **2000**, 12, R299-R334	1.8	104
325	Optical Hall conductivity in ordinary and graphene quantum Hall systems. *Physical Review Letters*, **2009**, 103, 116803	7.4	96
324	Dynamical band flipping in fermionic lattice systems: an ac-field-driven change of the interaction from repulsive to attractive. *Physical Review Letters*, **2011**, 106, 236401	7.4	96
323	Molecular-dynamics study of the alpha to beta structural phase transition of quartz. *Physical Review Letters*, **1990**, 64, 776-779	7.4	94
322	Nonequilibrium steady state of photoexcited correlated electrons in the presence of dissipation. *Physical Review Letters*, **2009**, 103, 047403	7.4	87
321	Superconductivity and spin correlation in organic conductors: A quantum Monte Carlo study. *Physical Review B*, **1999**, 60, 3060-3063	3.3	85
320	Spin-triplet f-wave-like pairing proposed for an organic superconductor (TMTSF)2PF6. *Physical Review B*, **2001**, 63,	3.3	84
319	Electronic Structure and Electron Correlation in LaFeAsO1-xFx and LaFePO1-xFx. *Journal of the Physical Society of Japan*, **2008**, 77, 093714	1.5	82
318	Breakdown of an electric-field driven system: a mapping to a quantum walk. *Physical Review Letters* , **2005**, 94, 100602	7.4	77
317	Fractal dimensionality of wave functions at the mobility edge: Quantum fractal in the Landau levels. *Physical Review B*, **1986**, 33, 7310-7313	3.3	74
316	Theory of Anderson pseudospin resonance with Higgs mode in superconductors. *Physical Review B*, **2015**, 92,	3.3	72
315	First-Principles Electronic Structure of Solid Picene. *Journal of the Physical Society of Japan*, **2009**, 78, 113704	1.5	72

314	Optical Hall effect in the integer quantum Hall regime. *Physical Review Letters*, **2010**, 104, 256802	7.4	71
313	Spin-fluctuation exchange study of superconductivity in two- and three-dimensional single-band Hubbard models. *Physical Review B*, **1999**, 60, 14585-14588	3.3	69
312	Origin of the material dependence of Tc in the single-layered cuprates. *Physical Review B*, **2012**, 85,	3.3	68
311	Hofstadter butterflies for flat bands. *Physical Review B*, **1996**, 54, R17296-R17299	3.3	68
310	Phase diagram of the two-dimensional extended Hubbard model: Phase transitions between different pairing symmetries when charge and spin fluctuations coexist. *Physical Review B*, **2004**, 70,	3.3	66
309	Model Construction and a Possibility of Cupratelike Pairing in a New d^{9} Nickelate Superconductor (Nd,Sr)NiO_{2}. *Physical Review Letters*, **2020**, 125, 077003	7.4	64
308	Hofstadter butterfly and integer quantum hall effect in three dimensions. *Physical Review Letters*, **2001**, 86, 1062-5	7.4	63
307	Electronic structure of periodic curved surfaces: Topological band structure. *Physical Review B*, **2001**, 65,	3.3	61
306	Anderson localization in a two dimensional electron system under strong magnetic fields. *Solid State Communications*, **1977**, 21, 45-47	1.6	58
305	Gate-induced band ferromagnetism in an organic polymer. *Physical Review Letters*, **2002**, 88, 127202	7.4	55
304	First-principles structural optimization and electronic structure of the superconductor picene for various potassium doping levels. *Physical Review B*, **2011**, 84,	3.3	54
303	Cyclotron radiation and emission in graphene. *Physical Review B*, **2008**, 78,	3.3	53
302	Numerical algorithm for the double-orbital Hubbard model: Hund-coupled pairing symmetry in the doped case. *Physical Review B*, **2004**, 70,	3.3	53
301	Real-space renormalisation-group theory for Anderson localisation: decimation method for electron systems. *Journal of Physics C: Solid State Physics*, **1980**, 13, 3369-3386		53
300	Accessing surface Brillouin zone and band structure of picene single crystals. *Physical Review Letters*, **2012**, 108, 226401	7.4	52
299	Crib-shaped triplet-pairing gap function for an orthogonal pair of quasi-one-dimensional Fermi surfaces in Sr2RuO4. *Physical Review B*, **2001**, 63,	3.3	52
298	Magic numbers and optical-absorption spectrum in vertically coupled quantum dots in the fractional quantum Hall regime. *Physical Review B*, **1996**, 53, 12613-12616	3.3	52
297	Synthesis and physical properties of metal-doped picene solids. *Physical Review B*, **2012**, 86,	3.3	51

296	Phase diagram for the one-dimensional Hubbard-Holstein model: A density-matrix renormalization group study. *Physical Review B*, **2007**, 76,	3.3	51
295	Phase diagram and pair Tomonaga-Luttinger liquid in a Bose-Hubbard model with flat bands. *Physical Review A*, **2013**, 88,	2.6	50
294	d- andp-Wave Superconductivity Mediated by Spin Fluctuations in Two- and Three-Dimensional Single-Band Repulsive Hubbard Model. *Journal of the Physical Society of Japan*, **2000**, 69, 1181-1191	1.5	50
293	Ferromagnetic spin-wave theory in the multiband Hubbard model having a flat band. *Physical Review Letters*, **1994**, 72, 144-147	7.4	50
292	Interaction quench in the Holstein model: Thermalization crossover from electron- to phonon-dominated relaxation. *Physical Review B*, **2015**, 91,	3.3	49
291	Ordered phases in the Holstein-Hubbard model: Interplay of strong Coulomb interaction and electron-phonon coupling. *Physical Review B*, **2013**, 88,	3.3	47
290	Vertically coupled double quantum dots in magnetic fields. *Physical Review B*, **1999**, 59, 5817-5825	3.3	47
289	Higgs Mode in the d-Wave Superconductor Bi_{2}Sr_{2}CaCu_{2}O_{8+x} Driven by an Intense Terahertz Pulse. *Physical Review Letters*, **2018**, 120, 117001	7.4	45
288	Universality of quantum Hall effect: Topological invariant and observable. *Physical Review Letters*, **1986**, 57, 3093-3096	7.4	45
287	First-principles design of a half-filled flat band of the kagome lattice in two-dimensional metal-organic frameworks. *Physical Review B*, **2016**, 94,	3.3	44
286	Determination of pairing symmetry from magnetotunneling spectroscopy: A case study for quasi-one-dimensional organic superconductors. *Physical Review B*, **2002**, 66,	3.3	44
285	Superconductivity in repulsively interacting fermions on a diamond chain: Flat-band-induced pairing. *Physical Review B*, **2016**, 94,	3.3	44
284	Polarization-resolved terahertz third-harmonic generation in a single-crystal superconductor NbN: Dominance of the Higgs mode beyond the BCS approximation. *Physical Review B*, **2017**, 96,	3.3	42
283	Dielectric breakdown in a Mott insulator: Many-body Schwinger-Landau-Zener mechanism studied with a generalized Bethe ansatz. *Physical Review B*, **2010**, 81,	3.3	42
282	The Hubbard Model for the Structurally Random System. *Journal of the Physical Society of Japan*, **1976**, 40, 6-12	1.5	42
281	Density-matrix renormalization group study of pairing when electron-electron and electron-phonon interactions coexist: effect of the electronic band structure. *Physical Review Letters*, **2005**, 95, 226401	7.4	41
280	Spin blockade in single and double quantum dots in magnetic fields: A correlation effect. *Physical Review B*, **1998**, 57, R4257-R4260	3.3	41
279	Repulsion-to-attraction transition in correlated electron systems triggered by a monocycle pulse. *Physical Review B*, **2012**, 85,	3.3	40

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277	Polar surface engineering in ultrathin MgO(111)/Ag(111): Possibility of a metal-insulator transition and magnetism. *Physical Review B*, **2004**, 69,	3.3	39
276	Computer simulation of two-dimensional disordered electron systems in strong magnetic fields. *Journal of Physics C: Solid State Physics*, **1977**, 10, 2583-2593		39
275	Quantum Monte Carlo study of the pairing correlation in the Hubbard ladder. *Physical Review B*, **1996**, 54, R15641-R15644	3.3	38
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273	Quantum Monte Carlo study for multiorbital systems with preserved spin and orbital rotational symmetries. *Physical Review B*, **2006**, 74,	3.3	37
272	Magnetization and phase transition induced by circularly polarized laser in quantum magnets. *Physical Review B*, **2014**, 90,	3.3	36
271	Multiple amplitude modes in strongly coupled phonon-mediated superconductors. *Physical Review B*, **2016**, 93,	3.3	35
270	Landau quantization of electrons on a sphere. *Physical Review A*, **1992**, 46, R1163-R1166	2.6	35
269	FLEX+DMFT approach to the d-wave superconducting phase diagram of the two-dimensional Hubbard model. *Physical Review B*, **2015**, 92,	3.3	34
268	Ab initio electronic structure of solid coronene: Differences from and commonalities to picene. *Physical Review B*, **2011**, 84,	3.3	34
267	Metal-induced gap states at well defined alkali-halide/metal interfaces. *Physical Review Letters*, **2003**, 90, 196803	7.4	34
266	Generation of spin-polarized currents in Zeeman-split Tomonaga-Luttinger models. *Physical Review B*, **1996**, 53, 9572-9575	3.3	34
265	Composite-Fermion Picture for the Spin-Wave Excitation in the Fractional Quantum Hall System. *Physical Review Letters*, **1994**, 73, 3568-3571	7.4	34
264	Critical localization and low-temperature transport in two-dimensional Landau quantization. *Surface Science*, **1986**, 170, 249-255	1.8	34
263	Effect of coexistence of random potential and electron-electron interaction in two-dimensional systems: Wigner glass. *Journal of Physics C: Solid State Physics*, **1979**, 12, 633-645		34
262	Quantum Hall plateau transition in graphene with spatially correlated random hopping. *Physical Review Letters*, **2009**, 103, 156804	7.4	33
261	Intermediate low spin states in a few-electron quantum dot in the 21 regime. *Physical Review B*, **2006**, 74,	3.3	32

260	Off-site repulsion-induced triplet superconductivity: a possibility for chiral p(x+y)-wave pairing in Sr2RuO4. *Physical Review Letters*, **2004**, 92, 247006	7.4	32
259	Three-dimensional porous graphene networks expand graphene-based electronic device applications. *Physical Chemistry Chemical Physics*, **2018**, 20, 6024-6033	3.6	31
258	Probing and controlling spin chirality in Mott insulators by circularly polarized laser. *Physical Review B*, **2017**, 96,	3.3	31
257	Aharonov-Bohm effect for the quantum Hall conductivity on a disordered lattice. *Physical Review Letters*, **1985**, 55, 1136-1139	7.4	31
256	Real-space renormalisation approach to the Anderson localisation. *Solid State Communications*, **1979**, 31, 999-1002	1.6	30
255	Electric Properties of Dirac Fermions Captured into 3D Nanoporous Graphene Networks. *Advanced Materials*, **2016**, 28, 10304-10310	24	30
254	Multiorbital analysis of the effects of uniaxial and hydrostatic pressure on Tc in the single-layered cuprate superconductors. *Physical Review B*, **2012**, 86,	3.3	29
253	Temperature-dependent magnetotransport around □1/2 in ZnO heterostructures. *Physical Review Letters*, **2012**, 108, 186803	7.4	29
252	Enhancement of the dx2□2 pairing correlation in the two-dimensional Hubbard model: A quantum Monte Carlo study. *Physical Review B*, **1997**, 56, R14287-R14290	3.3	29
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250	Density-matrix renormalization-group study of the spin gap in a one-dimensional Hubbard model: Effect of the distant transfer and exchange coupling. *Physical Review B*, **1998**, 57, 10324-10327	3.3	29
249	Why the critical temperature of high-Tc cuprate superconductors is so low: The importance of the dynamical vertex structure. *Physical Review B*, **2019**, 99,	3.3	28
248	Collective modes in multiband superfluids and superconductors: Multiple dynamical classes. *Physical Review B*, **2011**, 83,	3.3	28
247	Electronic structure of an electron on the gyroid surface: A helical labyrinth. *Physical Review B*, **2005**, 71,	3.3	28
246	Correlation functions in the three-chain Hubbard ladder. *Physical Review B*, **1996**, 54, R9608-R9611	3.3	28
245	Tight-binding photonic bands in metallophotonic waveguide networks and flat bands in kagome lattices. *Physical Review B*, **2010**, 81,	3.3	27
244	Crystallization of a classical two-dimensional electron system: Positional and orientational orders. *Physical Review B*, **1999**, 59, 14911-14914	3.3	27
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241	Electronic properties of alkali-metal loaded zeolites: Supercrystal Mott insulators. *Physical Review B* , **2004**, 69,	3.3	26
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237	Novel Landau level laser in the quantum Hall regime. *Applied Physics Letters*, **1986**, 48, 559-560	3.4	25
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232	Edge states in graphene in magnetic fields: A specialty of the edge mode embedded in the n=0 Landau band. *Physical Review B*, **2008**, 78,	3.3	23
231	Quantum Monte Carlo evidence for superconductivity in the three-band hubbard Model in Two Dimensions. *Physical Review Letters*, **1996**, 76, 4400-4403	7.4	23
230	Metallic ferromagnetism in the two-band Hubbard model. *Physica B: Condensed Matter*, **1994**, 194-196, 217-218	2.8	23
229	Transport properties of two-dimensional disordered electron systems in strong magnetic fields. *Journal of Physics C: Solid State Physics*, **1978**, 11, 3823-3834		23
228	Integer quantum Hall effect in isotropic three-dimensional crystals. *Physical Review B*, **2003**, 67,	3.3	22
227	High-Spin States in the Hubbard Model: Generalized Hund's Coupling and a Crossover to StrongURegime. *Journal of the Physical Society of Japan*, **1992**, 61, 1165-1168	1.5	22
226	Faraday rotation in bilayer and trilayer graphene in the quantum Hall regime. *Physical Review B*, **2012**, 86,	3.3	21
225	Flat-band ferromagnetism in organic polymers designed by a computer simulation. *Physical Review B*, **2003**, 68,	3.3	20

224	Electron-correlation-originated negative magnetoresistance in a system having a partly flat band. *Physical Review B*, **2000**, 61, 3207-3210	3.3	20
223	A Consistent Description of the Pairing Symmetry in Hole and Electron Doped Cuprates Within the Two-Dimensional Hubbard Model. *Journal of the Physical Society of Japan*, **1998**, 67, 1533-1536	1.5	20
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221	Decimation method of real-space renormalization for electron systems with application to random systems. *Physica A: Statistical Mechanics and Its Applications*, **1982**, 114, 538-542	3.3	20
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219	Itinerant ferromagnetism in the multiorbital Hubbard model: a dynamical mean-field study. *Physical Review Letters*, **2007**, 99, 216402	7.4	19
218	Large orbital magnetic moments in carbon nanotubes generated by resonant transport. *Physical Review B*, **2007**, 75,	3.3	19
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215	Biexciton on a one-dimensional lattice. *Physical Review B*, **1995**, 52, 8980-8991	3.3	19
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213	Superconductivity assisted by interlayer pair hopping in multilayered cuprates. *Physical Review B*, **2013**, 88,	3.3	18
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211	Robustness of the ferromagnetism in flat bands. *Physica B: Condensed Matter*, **1994**, 194-196, 215-216	2.8	18
210	Realization of negative-U superconductivity in a class of purely repulsive systems: Interacting carrier and insulating bands. *Physical Review Letters*, **1992**, 69, 3820-3823	7.4	18
209	Gauge transformation study of two-dimensional localisation in magnetic fields. *Journal of Physics C: Solid State Physics*, **1983**, 16, 1893-1900		18
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207	Link between the spin fluctuation and Fermi surface in high-Tc cuprates: A consistent description within the single-band Hubbard model. *Physical Review B*, **1999**, 60, 9850-9854	3.3	17

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205	Nonequilibrium dynamical cluster theory. *Physical Review B*, **2014**, 90,	3.3	16
204	Manipulation of the Dirac cones and the anomaly in the graphene related quantum Hall effect. *Journal of Physics: Conference Series*, **2011**, 334, 012044	0.3	16
203	Magnetic Properties of the Hubbard Model on Three-Dimensional Lattices: Fluctuation-Exchange and Two-Particle Self-Consistent Studies. *Journal of the Physical Society of Japan*, **2000**, 69, 785-795	1.5	16
202	Phase diagram of the extended attractive Hubbard model in one dimension. *Physical Review B*, **1994**, 50, 575-578	3.3	16
201	Theoretical Possibilities for Flat Band Superconductivity. *Journal of Superconductivity and Novel Magnetism*, **2020**, 33, 2341-2346	1.5	15
200	Unconventional pairing originating from disconnected Fermi surfaces in the iron-based superconductor. *New Journal of Physics*, **2009**, 11, 025017	2.9	15
199	The quantum Hall effect in anomalous band structures. *Surface Science*, **1992**, 263, 137-140	1.8	15
198	Superconductivity in a two-band Hubbard model. *Physical Review B*, **1990**, 42, 2125-2136	3.3	15
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183	Lattice-Gas Theory of Order-Disorder Transitions in the First-Stage Graphite-Alkali Intercalation Compounds. *Journal of the Physical Society of Japan*, **1980**, 49, 870-877	1.5	13
182	Spin Hall effect in iron-based superconductors: A Dirac-point effect. *Physical Review B*, **2012**, 86,	3.3	12
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175	Unconventional pairing originating from disconnected Fermi surfaces in the iron-based superconductor. *Physica C: Superconductivity and Its Applications*, **2009**, 469, 635-639	1.3	11
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170	Proposal for a magnetic field induced graphene dot. *Journal of Physics: Conference Series*, **2010**, 245, 012030	0.3	10
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167	Magneto-orbital effect without spin-orbit interactions in a noncentrosymmetric zeolite-templated carbon structure. *Physical Review B*, **2012**, 86,	3.3	10
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