

# Per Hedegård

## List of Publications by Year in descending order

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98  
papers

4,137  
citations

159585

30  
h-index

114465

63  
g-index

101  
all docs

101  
docs citations

101  
times ranked

4360  
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory of Chirality Induced Spin Selectivity: Progress and Challenges. <i>Advanced Materials</i> , 2022, 34, e2106629.	21.0	119
2	Single-particle combinatorial multiplexed liposome fusion mediated by DNA. <i>Nature Chemistry</i> , 2022, 14, 558-565.	13.6	24
3	Chiral-Induced Spin Selectivity in Capacitively Coupled Molecules. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3157-3166.	2.5	3
4	Theory of Chiral Induced Spin Selectivity. <i>Nano Letters</i> , 2019, 19, 5253-5259.	9.1	123
5	Thermoelectric Driven Ring Currents in Single Molecules and Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3817-3822.	3.1	4
6	Semi-classical generalized Langevin equation for equilibrium and nonequilibrium molecular dynamics simulation. <i>Progress in Surface Science</i> , 2019, 94, 21-40.	8.3	36
7	Kondo blockade due to quantum interference in single-molecule junctions. <i>Nature Communications</i> , 2017, 8, 15210.	12.8	33
8	Current-induced runaway vibrations in dehydrogenated graphene nanoribbons. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 68-74.	2.8	4
9	Quantification of Functional Dynamics of Membrane Proteins Reconstituted in Nanodiscs Membranes by Single Turnover Functional Readout. <i>Methods in Enzymology</i> , 2016, 581, 227-256.	1.0	4
10	Electron and phonon drag in thermoelectric transport through coherent molecular conductors. <i>Physical Review B</i> , 2016, 93, .	3.2	24
11	Current-Induced Forces and Hot Spots in Biased Nanojunctions. <i>Physical Review Letters</i> , 2015, 114, 096801.	7.8	39
12	Dynamic rotor mode in antiferromagnetic nanoparticles. <i>Physical Review B</i> , 2015, 91, .	3.2	3
13	Triplet excitations in graphene-based systems. <i>Europhysics Letters</i> , 2015, 109, 47005.	2.0	1
14	Illusory Connection between Cross-Conjugation and Quantum Interference. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26919-26924.	3.1	62
15	Quantum interference in off-resonant transport through single molecules. <i>Physical Review B</i> , 2014, 90, .	3.2	53
16	Single Molecule Activity Measurements of Cytochrome P450 Oxidoreductase Reveal the Existence of Two Discrete Functional States. <i>ACS Chemical Biology</i> , 2014, 9, 630-634.	3.4	55
17	Current-induced forces: a simple derivation. <i>European Journal of Physics</i> , 2014, 35, 065004.	0.6	43
18	Single Enzyme Studies Reveal the Existence of Discrete Functional States for Monomeric Enzymes and How they are "Selected" upon Allosteric Regulation. <i>Biophysical Journal</i> , 2013, 104, 231a.	0.5	0

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19	Phonon excitation and instabilities in biased graphene nanoconstrictions. Physical Review B, 2013, 88, .	3.2	18
20	Charge Transfer and Current Fluctuations in Single Layer Graphene Transistors Modified by Self-Assembled C <sub>60</sub> Adlayers. Small, 2013, 9, 2420-2426.	10.0	20
21	Current-induced atomic dynamics, instabilities, and Raman signals: Quasiclassical Langevin equation approach. Physical Review B, 2012, 85, .	3.2	94
22	Manipulation of organic polyradicals in a single-molecule transistor. Physical Review B, 2012, 86, .	3.2	21
23	Electrical annealing and temperature dependent transversal conduction in multilayer reduced graphene oxide films for solid-state molecular devices. Physical Chemistry Chemical Physics, 2012, 14, 14277.	2.8	15
24	Single Enzyme Studies Reveal the Existence of Discrete Functional States for Monomeric Enzymes and How They Are "Selected" upon Allosteric Regulation. Journal of the American Chemical Society, 2012, 134, 9296-9302.	13.7	38
25	Regulation of Enzymatic Activity Occurs by Selection of Discrete Activity States. Biophysical Journal, 2011, 100, 194a.	0.5	0
26	Current-induced dynamics in carbon atomic contacts. Beilstein Journal of Nanotechnology, 2011, 2, 814-823.	2.8	15
27	Interaction-induced negative differential resistance in asymmetric molecular junctions. Journal of Chemical Physics, 2011, 134, 104107.	3.0	26
28	Laserlike Vibrational Instability in Rectifying Molecular Conductors. Physical Review Letters, 2011, 107, 046801.	7.8	51
29	Electrical Manipulation of Spin States in a Single Electrostatically Gated Transition-Metal Complex. Nano Letters, 2010, 10, 105-110.	9.1	157
30	Blowing the Fuse: Berry's Phase and Runaway Vibrations in Molecular Conductors. Nano Letters, 2010, 10, 1657-1663.	9.1	103
31	Magnetic-field-induced soft mode in spin-gapped high- $T_c$ superconductors. Physical Review B, 2009, 80, .	3.2	7
32	Amphipathic motifs in BAR domains are essential for membrane curvature sensing. EMBO Journal, 2009, 28, 3303-3314.	7.8	230
33	How curved membranes recruit amphipathic helices and protein anchoring motifs. Nature Chemical Biology, 2009, 5, 835-841.	8.0	352
34	Electronic Transport in Single Molecule Junctions: Control of the Molecule-Electrode Coupling through Intramolecular Tunneling Barriers. Nano Letters, 2008, 8, 1-5.	9.1	163
35	Nanoelectromechanical Switch Operating by Tunneling of an Entire C <sub>60</sub> Molecule. Nano Letters, 2008, 8, 2393-2398.	9.1	31
36	Competing magnetic and superconducting order in the rare-earth borocarbides $RNi_2B_2C$ . Physical Review B, 2009, 80, .	3.2	12

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37	Magnetic and quadrupolar ordering in TmNi <sub>2</sub> B <sub>2</sub> C. Physica B: Condensed Matter, 2006, 385-386, 63-65.	2.7	0
38	Phonon-induced quadrupolar ordering of the magnetic superconductor TmNi <sub>2</sub> B <sub>2</sub> C. Physical Review B, 2006, 73, .	3.2	11
39	Recursion method for the quasiparticle structure of a single vortex with induced magnetic order. Physical Review B, 2006, 73, .	3.2	10
40	Charge transport through image charged stabilized states in a single molecule single electron transistor device. Chemical Physics, 2005, 319, 350-359.	1.9	18
41	Spin Dynamics in the Stripe Phase of the Cuprate Superconductors. Physical Review Letters, 2005, 95, 037002.	7.8	41
42	Field-induced magnetic phases in the normal and superconducting states of ErNi <sub>2</sub> B <sub>2</sub> C. Physical Review B, 2004, 69, .	3.2	17
43	Electronic structure around antiferromagnetic regions in a d-wave superconductor. Physica C: Superconductivity and Its Applications, 2004, 408-410, 266-267.	1.2	0
44	Free energy analysis of the magnetic and superconducting phases in thulium borocarbide. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E177-E178.	2.3	1
45	Magnetic phase diagram of ErNi <sub>2</sub> B <sub>2</sub> C. Physica C: Superconductivity and Its Applications, 2004, 408-410, 97-99.	1.2	2
46	Single electron transistor with a single conjugated molecule. Current Applied Physics, 2004, 4, 554-558.	2.4	22
47	Title is missing!. Journal of Low Temperature Physics, 2003, 131, 281-285.	1.4	2
48	Single-electron transistor of a single organic molecule with access to several redox states. Nature, 2003, 425, 698-701.	27.8	798
49	Checkerboard local density of states in striped domains pinned by vortices. Physical Review B, 2003, 67, .	3.2	23
50	Quantum interference between multiple impurities in anisotropic superconductors. Physical Review B, 2003, 67, .	3.2	24
51	Andreev bound states at the interface of antiferromagnets and d-wave superconductors. Physical Review B, 2002, 66, .	3.2	6
52	Interpretation of the dip feature in the photoemission spectra from high-T <sub>c</sub> superconductors within the SO(5) theory. Solid State Communications, 2002, 121, 395-399.	1.9	0
53	Single-particle path integral for composite fermions and the renormalization of the effective mass. Physical Review B, 2001, 64, .	3.2	3
54	SO(5) theory of insulating vortex cores in the high T <sub>c</sub> materials. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1259-1260.	1.2	1

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55	SO(5) theory of insulating vortex cores in high-T <sub>c</sub> materials. <i>Physical Review B</i> , 2000, 61, 6298-6302.	3.2	40
56	Magnetic neutron scattering resonance of high-T <sub>c</sub> superconductors in external magnetic fields: An SO(5) study. <i>Physical Review B</i> , 2000, 62, 8703-8706.	3.2	3
57	Interdependence of Magnetism and Superconductivity in the Borocarbide TmNi <sub>2</sub> B <sub>2</sub> C. <i>Physical Review Letters</i> , 2000, 84, 4982-4985.	7.8	42
58	A simple tight-binding model of spin-orbit splitting of sp-derived surface states. <i>Surface Science</i> , 2000, 459, 49-56.	1.9	341
59	Excitations in antiferromagnetic cores of superconducting vortices. <i>Physical Review B</i> , 1999, 59, 4349-4357.	3.2	10
60	Magnetoconductance of a two-dimensional electron gas in random magnetic fields. <i>Surface Science</i> , 1996, 361-362, 349-352.	1.9	1
61	Composite quasiparticle formation and the low-energy effective Hamiltonians for the one- and two-dimensional Hubbard model. <i>Physical Review B</i> , 1996, 54, 7737-7757.	3.2	0
62	Quasiparticle structure and coherent propagation in the J <sub>z</sub> -J <sub>x</sub> model. <i>Physical Review B</i> , 1996, 53, 911-919.	3.2	4
63	Solution of the Boltzmann equation in a random magnetic field. <i>Physical Review B</i> , 1995, 51, 10869-10874.	3.2	22
64	Electronically driven adsorbate excitation mechanism in femtosecond-pulse laser desorption. <i>Physical Review B</i> , 1995, 52, 6042-6056.	3.2	199
65	Two-dimensional electron transport in the presence of magnetic flux vortices. <i>Physical Review B</i> , 1995, 51, 7679-7699.	3.2	35
66	Neutron-scattering cross section of the S=1/2 Heisenberg triangular antiferromagnet. <i>Physical Review B</i> , 1994, 50, 1074-1083.	3.2	10
67	Theory of the Egler switch. <i>Physical Review Letters</i> , 1994, 72, 2919-2922.	7.8	35
68	Magnetoconductance of a two-dimensional electron gas in a random magnetic field. <i>Physical Review B</i> , 1994, 50, 14726-14729.	3.2	30
69	Quantum particles in periodic magnetic fields. <i>Physica B: Condensed Matter</i> , 1994, 194-196, 1075-1076.	2.7	3
70	Quantum motional narrowing. <i>Physica Scripta</i> , 1993, 47, 302-310.	2.5	1
71	Structural instabilities in the J model. <i>Physical Review B</i> , 1993, 47, 8039-8049.	3.2	2
72	Muon Diffusion and Quantum-Motional Narrowing. <i>Europhysics Letters</i> , 1992, 18, 367-372.	2.0	3

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73	Theory of angle-resolved photoemission from the cuprate superconductors. Physical Review B, 1991, 43, 11504-11507.	3.2	14
74	Neutron scattering and the $t - J$ model with Bosonic spins. Physica B: Condensed Matter, 1990, 165-166, 997-998.	2.7	0
75	Theory of the magnetic excitations in the Cu-O superconductors. Physical Review B, 1990, 42, 10035-10040.	3.2	11
76	Resonating-valence-bond state with fermionic charges and bosonic spins: Mean-field theory. Physical Review B, 1989, 40, 850-853.	3.2	30
77	RVB superconductors and tunnel junctions. Physica C: Superconductivity and Its Applications, 1989, 160, 89-101.	1.2	4
78	Model calculations of $\pi$ electron spectra of conjugated polymers. Synthetic Metals, 1989, 31, 281-310.	3.9	9
79	Asymmetry in the normal-metal to high- $T_c$ superconductor tunnel junction. Physical Review B, 1988, 38, 841-843.	3.2	23
80	Tunnelling and phonons. Journal of Physics C: Solid State Physics, 1988, 21, 3437-3446.	1.5	13
81	Quantum Dynamics of a Particle in a Fermionic Environment. Physica Scripta, 1987, 35, 609-622.	2.5	40
82	Light quantum particles in a metallic environment. Physical Review B, 1987, 35, 533-544.	3.2	38
83	Static properties of a particle coupled to a fermionic environment. Physical Review B, 1987, 35, 106-114.	3.2	19
84	Muon Diffusion in Superconductors. Japanese Journal of Applied Physics, 1987, 26, 1477.	1.5	2
85	Soliton contribution to the thermodynamics of the easy-plane antiferromagnetic chain: A model of TMMC [(CH <sub>3</sub> ) <sub>4</sub> NMnCl <sub>3</sub> ]. Journal of Magnetism and Magnetic Materials, 1986, 54-57, 829-830.	2.3	3
86	Path integral approach to quantum diffusion in metals. Hyperfine Interactions, 1986, 31, 135-140.	0.5	0
87	Edge effects in Auger spectroscopy for the early transition metals. Physical Review B, 1986, 34, 3045-3048.	3.2	18
88	Low temperature spin wave and domain wall thermodynamics and form factors for the classical easy-plane ferromagnetic chain. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1985, 132, 17-55.	0.9	12
89	Model calculations for the anomalous $M_{4,5VV}$ Auger spectrum for dilute palladium in silver. Physical Review B, 1985, 31, 7749-7766.	3.2	16
90	Hedegård and Johansson Respond. Physical Review Letters, 1985, 54, 1335-1335.	7.8	8

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91	Analytical and numerical studies of the easy-plane antiferromagnetic chain: Application to $(\text{CH}_3)_4\text{NMnCl}_3$ . <i>Physical Review B</i> , 1985, 32, 3240-3250.	3.2	12
92	On the anomalous Pd M4.5V Auger spectrum for PdAg alloys. <i>Surface Science</i> , 1985, 152-153, 872-876.	1.9	0
93	Low-temperature thermodynamics and correlation functions for a classical Heisenberg chain with two anisotropies. <i>Journal of Physics C: Solid State Physics</i> , 1984, 17, 3475-3488.	1.5	9
94	Static form factors for the classical easy-plane ferromagnetic chain with an in-plane magnetic field: Application to $\text{CsNiF}_3$ . <i>Physical Review B</i> , 1984, 29, 2861-2863.	3.2	11
95	Theory for the Anomalous M4,5V Auger Spectrum for Dilute Palladium in Silver. <i>Physical Review Letters</i> , 1984, 52, 2168-2171.	7.8	26
96	Auger Energy Shifts for Metallic Elements. <i>Physica Scripta</i> , 1984, 29, 154-180.	2.5	46
97	Double-hole binding energy shifts for the 5d transition metals. <i>Solid State Communications</i> , 1983, 48, 287-291.	1.9	1
98	Steepest descent approach to the domain-wall thermodynamics of a classical easy-plane ferromagnetic chain: Application to $\text{CsNiF}_3$ . <i>Physical Review B</i> , 1983, 28, 2893-2896.	3.2	27