

Ferdinand Evers

List of Publications by Citations

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123
papers

6,820
citations

41
h-index

81
g-index

130
ext. papers

7,755
ext. citations

6.9
avg, IF

6.09
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 123 | Anderson transitions. <i>Reviews of Modern Physics</i> , 2008 , 80, 1355-1417 | 40.5 | 1076 |
| 122 | Charge transport in single Au / alkanedithiol / Au junctions: coordination geometries and conformational degrees of freedom. <i>Journal of the American Chemical Society</i> , 2008 , 130, 318-26 | 16.4 | 411 |
| 121 | A single-molecule diode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8815-20 | 11.5 | 402 |
| 120 | Giant magnetoresistance through a single molecule. <i>Nature Nanotechnology</i> , 2011 , 6, 185-9 | 28.7 | 262 |
| 119 | Influence of conformation on conductance of biphenyl-dithiol single-molecule contacts. <i>Nano Letters</i> , 2010 , 10, 156-63 | 11.5 | 252 |
| 118 | GW100: Benchmarking G0W0 for Molecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 5665-87 | 6.4 | 207 |
| 117 | Resonance shifts and spill-out effects in self-consistent hydrodynamic nanoplasmonics. <i>Nature Communications</i> , 2015 , 6, 7132 | 17.4 | 195 |
| 116 | Organometallic benzene-vanadium wire: A one-dimensional half-metallic ferromagnet. <i>Physical Review Letters</i> , 2006 , 97, 097201 | 7.4 | 189 |
| 115 | Conductance of molecular wires and transport calculations based on density-functional theory. <i>Physical Review B</i> , 2004 , 69, | 3.3 | 176 |
| 114 | The GW-Method for Quantum Chemistry Applications: Theory and Implementation. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 232-46 | 6.4 | 174 |
| 113 | Multifractality and critical fluctuations at the Anderson transition. <i>Physical Review B</i> , 2000 , 62, 7920-7933 | 3.3 | 166 |
| 112 | Zero-bias molecular electronics: Exchange-correlation corrections to Landauer's formula. <i>Physical Review B</i> , 2006 , 73, | 3.3 | 160 |
| 111 | Fluctuations of the inverse participation ratio at the anderson transition. <i>Physical Review Letters</i> , 2000 , 84, 3690-3 | 7.4 | 156 |
| 110 | Electrical control over the Fe(II) spin crossover in a single molecule: Theory and experiment. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 152 |
| 109 | Plasmons in Molecules. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1863-1878 | 3.8 | 105 |
| 108 | Exact relations between multifractal exponents at the Anderson transition. <i>Physical Review Letters</i> , 2006 , 97, 046803 | 7.4 | 94 |
| 107 | Perspective: Theory of quantum transport in molecular junctions. <i>Journal of Chemical Physics</i> , 2018 , 148, 030901 | 3.9 | 90 |

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| 106 | Quasi-Particle Self-Consistent GW for Molecules. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 2528-41 | 6.4 | 90 |
| 105 | Quasiclassical negative magnetoresistance of a 2D electron gas: interplay of strong scatterers and smooth disorder. <i>Physical Review Letters</i> , 2001 , 87, 126805 | 7.4 | 83 |
| 104 | Quantum chemistry calculations for molecules coupled to reservoirs: formalism, implementation, and application to benzenedithiol. <i>Journal of Chemical Physics</i> , 2007 , 126, 174101 | 3.9 | 81 |
| 103 | Strong Magnetoresistance Induced by Long-Range Disorder. <i>Physical Review Letters</i> , 1999 , 83, 2801-2804 | 7.4 | 75 |
| 102 | Advances and challenges in single-molecule electron transport. <i>Reviews of Modern Physics</i> , 2020 , 92, | 40.5 | 73 |
| 101 | Ab initio study of surface stress response to charging. <i>Europhysics Letters</i> , 2007 , 78, 13001 | 1.6 | 68 |
| 100 | Spin transition in arrays of gold nanoparticles and spin crossover molecules. <i>ACS Nano</i> , 2015 , 9, 4496-507 | 16.7 | 67 |
| 99 | Multifractality of wave functions at the quantum Hall transition revisited. <i>Physical Review B</i> , 2001 , 64, | 3.3 | 63 |
| 98 | Conductance saturation in a series of highly transmitting molecular junctions. <i>Nature Materials</i> , 2016 , 15, 444-9 | 27 | 61 |
| 97 | Charge transport through a cardan-joint molecule. <i>Small</i> , 2008 , 4, 2229-35 | 11 | 60 |
| 96 | Quasiclassical magnetotransport in a random array of antidots. <i>Physical Review B</i> , 2001 , 64, | 3.3 | 60 |
| 95 | Semiclassical theory of transport in a random magnetic field. <i>Physical Review B</i> , 1999 , 60, 8951-8969 | 3.3 | 58 |
| 94 | Impact of Electrode Density of States on Transport through Pyridine-Linked Single Molecule Junctions. <i>Nano Letters</i> , 2015 , 15, 3716-22 | 11.5 | 56 |
| 93 | Exact ground state density-functional theory for impurity models coupled to external reservoirs and transport calculations. <i>Physical Review Letters</i> , 2008 , 100, 086401 | 7.4 | 56 |
| 92 | Structural relaxation in charged metal surfaces and cluster ions. <i>Small</i> , 2006 , 2, 1497-503 | 11 | 56 |
| 91 | Multifractality at the quantum Hall transition: beyond the parabolic paradigm. <i>Physical Review Letters</i> , 2008 , 101, 116803 | 7.4 | 55 |
| 90 | Dimensionality dependence of the wave-function statistics at the Anderson transition. <i>Physical Review B</i> , 2002 , 66, | 3.3 | 53 |
| 89 | Density Propagator for Many-Body Localization: Finite-Size Effects, Transient Subdiffusion, and Exponential Decay. <i>Physical Review Letters</i> , 2017 , 118, 196801 | 7.4 | 52 |

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| 88 | Transport calculations based on density functional theory, Friedel's sum rule, and the Kondo effect. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 48 |
| 87 | Conduction properties of bipyridinium-functionalized molecular wires. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9013-8 | 16.4 | 48 |
| 86 | Finite-size effects and irrelevant corrections to scaling near the integer quantum Hall transition. <i>Physical Review Letters</i> , 2012 , 109, 206804 | 7.4 | 47 |
| 85 | Single molecule magnetoresistance with combined antiferromagnetic and ferromagnetic electrodes. <i>Nano Letters</i> , 2012 , 12, 5131-6 | 11.5 | 45 |
| 84 | Atomically wired molecular junctions: connecting a single organic molecule by chains of metal atoms. <i>Nano Letters</i> , 2013 , 13, 1956-61 | 11.5 | 43 |
| 83 | Molecular switch controlled by pulsed bias voltages. <i>Small</i> , 2009 , 5, 2218-23 | 11 | 41 |
| 82 | Electron-vibration interaction in the presence of a switchable Kondo resonance realized in a molecular junction. <i>Physical Review Letters</i> , 2014 , 113, 236603 | 7.4 | 37 |
| 81 | Off-Diagonal Self-Energy Terms and Partially Self-Consistency in GW Calculations for Single Molecules: Efficient Implementation and Quantitative Effects on Ionization Potentials. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 5152-60 | 6.4 | 36 |
| 80 | Wave function multifractality and dephasing at metal-insulator and quantum Hall transitions. <i>Annals of Physics</i> , 2011 , 326, 1457-1478 | 2.5 | 33 |
| 79 | Surface criticality and multifractality at localization transitions. <i>Physical Review Letters</i> , 2006 , 96, 126802 | 7.4 | 33 |
| 78 | Electrochemical gate-controlled electron transport of redox-active single perylene bisimide molecular junctions. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 374122 | 1.8 | 32 |
| 77 | Near Length-Independent Conductance in Polymethine Molecular Wires. <i>Nano Letters</i> , 2018 , 18, 6387-6391 | 3.15 | 30 |
| 76 | Ab initio spin-flip conductance of hydrogenated graphene nanoribbons: Spin-orbit interaction and scattering with local impurity spins. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 29 |
| 75 | Density of quasiparticle states for a two-dimensional disordered system: Metallic, insulating, and critical behavior in the class-D thermal quantum Hall effect. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 29 |
| 74 | Signature of the Dirac cone in the properties of linear oligoacenes. <i>Nature Communications</i> , 2014 , 5, 5000 | 7.4 | 27 |
| 73 | Elastic properties of graphene flakes: Boundary effects and lattice vibrations. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 27 |
| 72 | Wave function statistics at the symplectic two-dimensional Anderson transition: Bulk properties. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 27 |
| 71 | Wavefunction statistics and multifractality at the spin quantum Hall transition. <i>Journal of Physics A</i> , 2003 , 36, 3255-3279 | | 27 |

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| 70 | Density of states in graphene with vacancies: midgap power law and frozen multifractality. <i>Physical Review Letters</i> , 2014 , 113, 186802 | 7.4 | 26 |
| 69 | Transport properties of individual C60-molecules. <i>Journal of Chemical Physics</i> , 2013 , 139, 234701 | 3.9 | 26 |
| 68 | Broadening of the derivative discontinuity in density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 14417-20 | 3.6 | 26 |
| 67 | Ab initio quantum transport through armchair graphene nanoribbons: Streamlines in the current density. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 25 |
| 66 | Zero-frequency anomaly in quasiclassical ac transport: Memory effects in a two-dimensional metal with a long-range random potential or random magnetic field. <i>Physical Review B</i> , 2000 , 61, 13774-13784 | 3.3 | 25 |
| 65 | Slow dynamics and strong finite-size effects in many-body localization with random and quasiperiodic potentials. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 24 |
| 64 | Current patterns and orbital magnetism in mesoscopic dc transport. <i>Physical Review Letters</i> , 2014 , 113, 136602 | 7.4 | 24 |
| 63 | Multifractality and Scaling at the Quantum Hall Transitions. <i>Journal of the Physical Society of Japan</i> , 2003 , 72, 189-190 | 1.5 | 24 |
| 62 | Universality of the edge-tunneling exponent of fractional quantum Hall liquids. <i>Physical Review Letters</i> , 2005 , 94, 166804 | 7.4 | 23 |
| 61 | Quantum Hall ferromagnets, cooperative transport anisotropy, and the random field Ising model. <i>Physical Review B</i> , 2002 , 66, | 3.3 | 22 |
| 60 | Multifractality at the spin quantum Hall transition. <i>Physical Review B</i> , 2003 , 67, | 3.3 | 20 |
| 59 | Exchange processes in the contact formation of Pb electrodes. <i>Electrochimica Acta</i> , 2014 , 140, 505-510 | 6.7 | 19 |
| 58 | Tunable non-integer high-harmonic generation in a topological insulator. <i>Nature</i> , 2021 , 593, 385-390 | 50.4 | 19 |
| 57 | Enhanced coupling through π -stacking in imidazole-based molecular junctions. <i>Chemical Science</i> , 2019 , 10, 9998-10002 | 9.4 | 18 |
| 56 | Boundary multifractality in critical one-dimensional systems with long-range hopping. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 17 |
| 55 | Long time tails in the quantum Hall effect. <i>European Physical Journal B</i> , 1994 , 94, 155-159 | 1.2 | 17 |
| 54 | First-principles study of the structure of water layers on flat and stepped Pb electrodes. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 533-43 | 3 | 17 |
| 53 | Local Current Density Calculations for Molecular Films from Ab Initio. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 5161-76 | 6.4 | 16 |

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| 52 | Magnetotransport of electrons in quantum Hall systems. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 239-259 | 1.3 | 16 |
| 51 | Theory of many-fermion systems. II. The case of Coulomb interactions. <i>Physical Review B</i> , 1998 , 58, 9710-9720 | 3.3 | 16 |
| 50 | Mechanically Tunable Quantum Interference in Ferrocene-Based Single-Molecule Junctions. <i>Nano Letters</i> , 2020 , 20, 6381-6386 | 11.5 | 16 |
| 49 | Quantum size effects in the atomistic structure of armchair nanoribbons. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 15 |
| 48 | High-temperature spin dynamics in the Heisenberg chain: Magnon propagation and emerging Kardar-Parisi-Zhang scaling in the zero-magnetization limit. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 14 |
| 47 | Graphene with vacancies: Supernumerary zero modes. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 14 |
| 46 | ANDERSON TRANSITIONS: CRITICALITY, SYMMETRIES AND TOPOLOGIES. <i>International Journal of Modern Physics B</i> , 2010 , 24, 1577-1620 | 1.1 | 14 |
| 45 | Theory of Chirality Induced Spin Selectivity: Progress and Challenges.. <i>Advanced Materials</i> , 2022 , e2106629 | 3.3 | 14 |
| 44 | Incommensurate quantum-size oscillations in acene-based molecular wires Effects of quantum fluctuations. <i>Journal of Chemical Physics</i> , 2017 , 146, 092320 | 3.9 | 13 |
| 43 | Kondo effect in binuclear metal-organic complexes with weakly interacting spins. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 13 |
| 42 | Cyclotron resonance in antidot arrays. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 13 |
| 41 | Semiclassical theory of the quantum Hall effect. <i>Physical Review B</i> , 1998 , 57, 1805-1813 | 3.3 | 13 |
| 40 | Preface: Special Topic on Frontiers in Molecular Scale Electronics. <i>Journal of Chemical Physics</i> , 2017 , 146, 092101 | 3.9 | 12 |
| 39 | C58 on Au(111): a scanning tunneling microscopy study. <i>Journal of Chemical Physics</i> , 2013 , 138, 104703 | 3.9 | 12 |
| 38 | Lowering of surface melting temperature in atomic clusters with a nearly closed shell structure. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 12 |
| 37 | Atomically resolved single-molecule triplet quenching. <i>Science</i> , 2021 , 373, 452-456 | 3.3 | 12 |
| 36 | Ab initio simulations of scanning-tunneling-microscope images with embedding techniques and application to C58-dimers on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6684-90 | 3.6 | 11 |
| 35 | Quantum Hall effects in normal and superconducting systems: localization and multifractality. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 284-302 | 1.3 | 11 |

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| 34 | Coherent transport through a molecular wire: DFT calculation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 18, 255-257 | 3 | 11 |
| 33 | Silver Makes Better Electrical Contacts to Thiol-Terminated Silanes than Gold. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14145-14148 | 16.4 | 10 |
| 32 | Griffiths phase in the thermal quantum Hall effect. <i>Physical Review B</i> , 2006 , 73, | 3.3 | 9 |
| 31 | Solitronics with Polyacetylenes. <i>Nano Letters</i> , 2020 , 20, 2615-2619 | 11.5 | 8 |
| 30 | Nonadiabatic scattering of a classical particle in an inhomogeneous magnetic field. <i>Physical Review B</i> , 1998 , 58, 15321-15324 | 3.3 | 7 |
| 29 | Multiplicity of atomic reconfigurations in an electrochemical Pb single-atom transistor. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 6 |
| 28 | Incommensurate Quantum Size Oscillations of Oligoacene Wires Adsorbed on Au(111). <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8902-8907 | 3.8 | 6 |
| 27 | Density functional theory with exact XC potentials: Lessons from DMRG studies and exactly solvable models. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2330-2341 | 1.3 | 6 |
| 26 | Invariants of the single-impurity Anderson model and implications for conductance functionals. <i>Europhysics Letters</i> , 2013 , 103, 47012 | 1.6 | 5 |
| 25 | Statistics of conductances and subleading corrections to scaling near the integer quantum Hall plateau transition. <i>Europhysics Letters</i> , 2013 , 104, 27014 | 1.6 | 5 |
| 24 | Relaxation on critical percolation clusters, self-avoiding random walks, and the quantum Hall effect. <i>Physical Review E</i> , 1997 , 55, 2321-2327 | 2.4 | 5 |
| 23 | Universal scaling and diagonal conductivity in the integral quantum Hall effect. <i>Physical Review B</i> , 1998 , 57, 14829-14832 | 3.3 | 5 |
| 22 | Ab Initio Transport Calculations for Single-Atom Copper Junctions in the Presence of Hydrogen Chloride. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28252-28257 | 3.8 | 4 |
| 21 | Reorganization energy and polaronic effects of pentacene on NaCl films. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 4 |
| 20 | Self-consistent-field ensembles of disordered Hamiltonians: Efficient solver and application to superconducting films. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 3 |
| 19 | Spin locking at the apex of nano-scale platinum tips. <i>Surface Science</i> , 2013 , 618, 49-52 | 1.8 | 3 |
| 18 | Charge susceptibility in Kondo systems at half filling: DMRG study. <i>Annalen Der Physik</i> , 2012 , 524, L1-L4 | 2.6 | 2 |
| 17 | Classical analysis of a network model of quantum Hall systems. <i>Physical Review B</i> , 1996 , 54, 10720-10725 | 3.3 | 2 |

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| 16 | Molecular Conductance from Ab Initio Calculations: Self Energies and Absorbing Boundary Conditions. <i>Lecture Notes in Physics</i> , 2010 , 27-53 | 0.8 | 2 |
| 15 | Semiconductor Bloch-equations formalism: Derivation and application to high-harmonic generation from Dirac fermions. <i>Physical Review B</i> , 2021 , 103, | 3.3 | 2 |
| 14 | Density Expansion for Transport Coefficients: Long-Wavelength versus Fermi Surface Nonanalyticities. <i>Physical Review Letters</i> , 1997 , 78, 2768-2771 | 7.4 | 1 |
| 13 | Magnetotransport in a random array of antidots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 12, 260-263 | 3 | 1 |
| 12 | Semiclassical transport in a random magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000 , 6, 742-745 | 3 | 1 |
| 11 | An SYK-inspired model with density-density interactions: Spectral & wave function statistics, Green's function and phase diagram. <i>Annals of Physics</i> , 2021 , 435, 168503 | 2.5 | 1 |
| 10 | Quartic multifractality and finite-size corrections at the spin quantum Hall transition. <i>Physical Review B</i> , 2021 , 103, | 3.3 | 1 |
| 9 | Functional renormalization group approach to electronic structure calculations for systems without translational symmetry. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 1 |
| 8 | Silver Makes Better Electrical Contacts to Thiol-Terminated Silanes than Gold. <i>Angewandte Chemie</i> , 2017 , 129, 14333-14336 | 3.6 | 0 |
| 7 | Principles of Density Functional Theory: Equilibrium and Nonequilibrium Applications 2011 , 1-44 | | |
| 6 | Disordered quantum Hall ferromagnets and cooperative transport anisotropy. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 22, 82-85 | 3 | |
| 5 | Finite-frequency transport of composite fermions. <i>Physica B: Condensed Matter</i> , 2001 , 298, 187-190 | 2.8 | |
| 4 | Nonadiabatic scattering of a quantum particle in an inhomogeneous magnetic field. <i>Europhysics Letters</i> , 2001 , 55, 603-609 | 1.6 | |
| 3 | Anderson Transitions and Interactions 2021 , 147-157 | | |
| 2 | Ab Initio Transport Calculations for Functionalized Graphene Flakes on a Supercomputer 2016 , 139-154 | | |
| 1 | Elektronische Bauteile aus Einzelmolekülen. <i>Physik in Unserer Zeit</i> , 2020 , 51, 283-289 | 0.1 | |