

# Christian Joachim

## List of Publications by Year in descending order

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76  
papers

6,102  
citations

136740

32  
h-index

85405

71  
g-index

77  
all docs

77  
docs citations

77  
times ranked

5478  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecules on Insulating Films: Scanning-Tunneling Microscopy Imaging of Individual Molecular Orbitals. <i>Physical Review Letters</i> , 2005, 94, 026803.	2.9	749
2	Nanoscale Science of Single Molecules Using Local Probes. <i>Science</i> , 1999, 283, 1683-1688.	6.0	596
3	Molecular electronics: Some views on transport junctions and beyond. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8801-8808.	3.3	491
4	Conductance of a Single Conjugated Polymer as a Continuous Function of Its Length. <i>Science</i> , 2009, 323, 1193-1197.	6.0	478
5	Electronic Transparency of a Single C <sub>60</sub> Molecule. <i>Physical Review Letters</i> , 1995, 74, 2102-2105.	2.9	466
6	Conformational Changes of Single Molecules Induced by Scanning Tunneling Microscopy Manipulation: A Route to Molecular Switching. <i>Physical Review Letters</i> , 2001, 86, 672-675.	2.9	439
7	Properties of large organic molecules on metal surfaces. <i>Progress in Surface Science</i> , 2003, 71, 95-146.	3.8	419
8	Voltage-dependent conductance of a single graphene nanoribbon. <i>Nature Nanotechnology</i> , 2012, 7, 713-717.	15.6	298
9	Topological Effects on Intramolecular Electron Transfer via Quantum Interference. <i>Inorganic Chemistry</i> , 1997, 36, 5037-5049.	1.9	238
10	The physics of the near-field. <i>Reports on Progress in Physics</i> , 2000, 63, 893-938.	8.1	132
11	Adsorption and Switching Properties of Azobenzene Derivatives on Different Noble Metal Surfaces: Au(111), Cu(111), and Au(100). <i>Journal of Physical Chemistry C</i> , 2008, 112, 10509-10514.	1.5	116
12	Probing the Different Stages in Contacting a Single Molecular Wire. <i>Physical Review Letters</i> , 2003, 91, 036601.	2.9	94
13	Recording Intramolecular Mechanics during the Manipulation of a Large Molecule. <i>Physical Review Letters</i> , 2001, 87, 088302.	2.9	93
14	Conductance of a single flexible molecular wire composed of alternating donor and acceptor units. <i>Nature Communications</i> , 2015, 6, 7397.	5.8	83
15	Low temperature manipulation of big molecules in constant height mode. <i>Applied Physics Letters</i> , 2001, 78, 306-308.	1.5	78
16	Single Molecular Wires Connecting Metallic and Insulating Surface Areas. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9966-9970.	7.2	78
17	TBPP molecules on copper surfaces: a low temperature scanning tunneling microscope investigation. <i>Surface Science</i> , 2002, 499, 94-102.	0.8	74
18	Imaging of a molecular wheelbarrow by scanning tunneling microscopy. <i>Surface Science</i> , 2005, 584, L153-L158.	0.8	74

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19	Manipulating Molecular Quantum States with Classical Metal Atom Inputs: Demonstration of a Single Molecule NOR Logic Gate. ACS Nano, 2011, 5, 1436-1440.	7.3	72
20	Single-atom motion during a lateral STM manipulation. Physical Review B, 1999, 59, R7845-R7848.	1.1	60
21	Exploring the Interatomic Forces between Tip and Single Molecules during STM Manipulation. Nano Letters, 2006, 6, 2685-2689.	4.5	60
22	Current-Driven Supramolecular Motor with In Situ Surface Chiral Directionality Switching. Nano Letters, 2015, 15, 4793-4798.	4.5	54
23	Controlled manipulation of a single molecular wire along a copper atomic nanostructure. Physical Review B, 2004, 69, .	1.1	49
24	Supramolecular Architectures on Surfaces Formed through Hydrogen Bonding Optimized in Three Dimensions. ACS Nano, 2010, 4, 4097-4109.	7.3	48
25	Lander on Cu(2 1 1) "selective adsorption and surface restructuring by a molecular wire. Chemical Physics Letters, 2003, 371, 750-756.	1.2	44
26	Recording the intramolecular deformation of a 4-legs molecule during its STM manipulation on a Cu(211) surface. Chemical Physics Letters, 2005, 402, 180-185.	1.2	42
27	Electronic Resonances and Gap Stabilization of Higher Acenes on a Gold Surface. ACS Nano, 2018, 12, 8506-8511.	7.3	42
28	Driving nanocars and nanomachines at interfaces: From concept of nanoarchitectonics to actual use in world wide race and hand operation. Japanese Journal of Applied Physics, 2016, 55, 1102A2.	0.8	40
29	Imaging, single atom contact and single atom manipulations at low temperature using the new ScientaOmicron LT-UHV-4 STM. EPJ Applied Physics, 2016, 73, 10702.	0.3	34
30	Computation of electrostatic fields in low-symmetry systems: Application to STM configurations. Physical Review B, 1996, 53, 13159-13168.	1.1	33
31	Single-Molecule Rotational Switch on a Dangling Bond Dimer Bearing. ACS Nano, 2016, 10, 8499-8507.	7.3	33
32	Electron transfer through 2,7,9,10-tetraazaphenanthrene: a quantum "interference" effect?. Chemical Physics, 1993, 177, 23-30.	0.9	32
33	Dangling-bond logic gates on a Si(100)-(2 Å <sup>-1</sup> ) "H surface. Journal of Physics Condensed Matter, 2012, 24, 095011.	0.7	32
34	Surface-State Engineering for Interconnects on H-Passivated Si(100). Nano Letters, 2013, 13, 1192-1195.	4.5	31
35	Supramolecular Rotor and Translator at Work: On-Surface Movement of Single Atoms. ACS Nano, 2015, 9, 8394-8400.	7.3	31
36	STM manipulation of molecular moulds on metal surfaces. Nano Research, 2009, 2, 254-259.	5.8	29

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37	Electronic transport in planar atomic-scale structures measured by two-probe scanning tunneling spectroscopy. <i>Nature Communications</i> , 2019, 10, 1573.	5.8	29
38	Contacting a Conjugated Molecule with a Surface Dangling Bond Dimer on a Hydrogenated Ge(001) Surface Allows Imaging of the Hidden Ground Electronic State. <i>ACS Nano</i> , 2013, 7, 10105-10111.	7.3	28
39	Two-probe STM experiments at the atomic level. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 444004.	0.7	26
40	The Different Designs of Molecule Logic Gates. <i>Advanced Materials</i> , 2012, 24, 312-317.	11.1	24
41	Unimolecular Logic Gate with Classical Input by Single Gold Atoms. <i>ACS Nano</i> , 2018, 12, 1139-1145.	7.3	24
42	One-way rotation of a molecule-rotor driven by a shot noise. <i>Nanoscale</i> , 2014, 6, 2793.	2.8	23
43	On-Surface Annulation Reaction Cascade for the Selective Synthesis of Diindenopyrene. <i>ACS Nano</i> , 2017, 11, 12419-12425.	7.3	18
44	Direct transfer of gold nanoislands from a MoS <sub>2</sub> stamp to a Si-H surface. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, 484-489.	0.6	14
45	Parallel Quantum Circuit in a Tunnel Junction. <i>Scientific Reports</i> , 2016, 6, 30198.	1.6	12
46	Contact conductance of a graphene nanoribbon with its graphene nano-electrodes. <i>Nanoscale</i> , 2016, 8, 9265-9271.	2.8	11
47	Investigation of mechanical and electronic properties of large molecules by low temperature STM. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2003, 129, 149-155.	0.8	10
48	Mechanics of Molecule-Gears with Six Long Teeth. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22625-22630.	1.5	10
49	Interaction of a long molecular wire with a nanostructured surface: Violet Landers on Cu(211). <i>Chemical Physics Letters</i> , 2006, 428, 331-337.	1.2	9
50	Self-assembling diacetylene molecules on atomically flat insulators. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31600-31605.	1.3	8
51	Quantum half-adder Boolean logic gate with a nano-graphene molecule and graphene nano-electrodes. <i>Chemical Physics Letters</i> , 2017, 667, 301-306.	1.2	8
52	Conformations and controlled manipulation of a long molecular wire on Cu(111). <i>Surface Science</i> , 2005, 585, 38-46.	0.8	7
53	Diels-Alder attachment of a planar organic molecule to a dangling bond dimer on a hydrogenated semiconductor surface. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16757-16765.	1.3	7
54	Electronically Driven Single-Molecule Switch on Silicon Dangling Bonds. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27027-27032.	1.5	6

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55	The Emergence of Multiple Coordination Numbers in Gold–Cyanoarene Complexes: A Study of the On-Surface Coordination Mechanism. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9937-9946.	1.5	6
56	Single Molecule Logical Devices. <i>Topics in Current Chemistry</i> , 2011, 313, 217-268.	4.0	5
57	Amplification of Conformational Effects via tert-Butyl Groups: Hexa-tert-butyl Decacyclene on Cu(100) at Room Temperature. <i>Langmuir</i> , 2013, 29, 7309-7317.	1.6	5
58	Vibrational transition rule during a through-bond electron transfer process. <i>Chemical Physics Letters</i> , 2013, 567, 1-5.	1.2	5
59	Self-Sensitization and Photo-Polymerization of Diacetylene Molecules Self-Assembled on a Hexagonal-Boron Nitride Nanosheet. <i>Polymers</i> , 2018, 10, 206.	2.0	5
60	Manipulation of large molecules by low temperature STM. <i>Surface and Interface Analysis</i> , 2004, 36, 109-113.	0.8	4
61	Molecular Aggregation within Self-Ordered Monolayers. <i>ChemPhysChem</i> , 2007, 8, 245-249.	1.0	4
62	Single and double valence configuration interactions for recovering the exponential decay law while tunneling through a molecular wire. <i>Nanotechnology</i> , 2016, 27, 034002.	1.3	4
63	Tuning the conductance of a molecular wire by the interplay of donor and acceptor units. <i>Nanoscale</i> , 2018, 10, 17131-17139.	2.8	4
64	A nanographene disk rotating a single molecule gear on a Cu(111) surface. <i>Nanotechnology</i> , 2022, 33, 175701.	1.3	3
65	The electronic transparency of a single CO molecule at contact. <i>Chemical Physics Letters</i> , 2010, 484, 237-241.	1.2	2
66	Nanopackaging Requests for Atomic Scale Circuits and Molecule-Machines. <i>Advances in Atom and Single Molecule Machines</i> , 2015, , 59-81.	0.0	2
67	Low temperature two STM tip tunneling measurements of a floating chemical potential Pb(111) surface. <i>EPJ Applied Physics</i> , 2019, 87, 31001.	0.3	2
68	Nanopackaging of Si(100)H Wafer for Atomic-Scale Investigations. <i>Advances in Atom and Single Molecule Machines</i> , 2017, , 25-51.	0.0	2
69	Toward printing molecular nanostructures from microstructured samples in ultrahigh vacuum. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, 011801.	0.6	1
70	Single-Molecule Boolean Logic Gates. <i>Advances in Atom and Single Molecule Machines</i> , 2017, , 3-26.	0.0	1
71	Molecular Switches. , 2014, , 2723-2735.		0
72	Dangling-Bond Wire Circuits on a Si(001)-(2x1):H Surface with Their Contacting Nanopads. <i>Advances in Atom and Single Molecule Machines</i> , 2013, , 163-174.	0.0	0

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73	Electronic Structure and Properties of Graphen Nanoribbons: Zigzag and Armchair Edges. <i>Advances in Atom and Single Molecule Machines</i> , 2013, , 81-90.	0.0	0
74	Complex Atomic-Scale Surface Electronic Circuitâ€™s Simulator Including the Pads and the Supporting Surface. <i>Advances in Atom and Single Molecule Machines</i> , 2017, , 177-193.	0.0	0
75	Band Engineering of Dangling-Bond Wires on the Si(100)H Surface. <i>Advances in Atom and Single Molecule Machines</i> , 2017, , 83-93.	0.0	0
76	Putting individual molecules to workÂ?. <i>Philosophia Scientiae</i> , 2019, , 151-159.	0.1	0