

Christian Joachim

List of Publications by Year in descending order

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76
papers

6,102
citations

136740

32
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85405

71
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77
all docs

77
docs citations

77
times ranked

5478
citing authors

#	ARTICLE	IF	CITATIONS
1	A nanographene disk rotating a single molecule gear on a Cu(111) surface. <i>Nanotechnology</i> , 2022, 33, 175701.	1.3	3
2	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
3	Mechanics of Molecule-Gears with Six Long Teeth. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22625-22630.	1.5	10
4	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
5	Electronic transport in planar atomic-scale structures measured by two-probe scanning tunneling spectroscopy. <i>Nature Communications</i> , 2019, 10, 1573.	5.8	29
6	Putting individual molecules to work. <i>Philosophia Scientiae</i> , 2019, , 151-159.	0.1	0
7	Unimolecular Logic Gate with Classical Input by Single Gold Atoms. <i>ACS Nano</i> , 2018, 12, 1139-1145.	7.3	24
8	Electronic Resonances and Gap Stabilization of Higher Acenes on a Gold Surface. <i>ACS Nano</i> , 2018, 12, 8506-8511.	7.3	42
9	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
10	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
11	Two-probe STM experiments at the atomic level. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 444004.	0.7	26
12	On-Surface Annulation Reaction Cascade for the Selective Synthesis of Diindenopyrene. <i>ACS Nano</i> , 2017, 11, 12419-12425.	7.3	18
13	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
14	Single-Molecule Boolean Logic Gates. <i>Advances in Atom and Single Molecule Machines</i> , 2017, , 3-26.	0.0	1
15	Complex Atomic-Scale Surface Electronic Circuit's Simulator Including the Pads and the Supporting Surface. <i>Advances in Atom and Single Molecule Machines</i> , 2017, , 177-193.	0.0	0
16	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
17	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
18	Imaging, single atom contact and single atom manipulations at low temperature using the new ScientaOmicron LT-UHV-4 STM. <i>EPJ Applied Physics</i> , 2016, 73, 10702.	0.3	34

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19	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
20	Contact conductance of a graphene nanoribbon with its graphene nano-electrodes. <i>Nanoscale</i> , 2016, 8, 9265-9271.	2.8	11
21	Driving nanocars and nanomachines at interfaces: From concept of nanoarchitectonics to actual use in world wide race and hand operation. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 1102A2.	0.8	40
22	Single-Molecule Rotational Switch on a Dangling Bond Dimer Bearing. <i>ACS Nano</i> , 2016, 10, 8499-8507.	7.3	33
23	Electronically Driven Single-Molecule Switch on Silicon Dangling Bonds. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27027-27032.	1.5	6
24	Self-assembling diacetylene molecules on atomically flat insulators. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31600-31605.	1.3	8
25	Parallel Quantum Circuit in a Tunnel Junction. <i>Scientific Reports</i> , 2016, 6, 30198.	1.6	12
26	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
27	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
28	Supramolecular Rotor and Translator at Work: On-Surface Movement of Single Atoms. <i>ACS Nano</i> , 2015, 9, 8394-8400.	7.3	31
29	Current-Driven Supramolecular Motor with In Situ Surface Chiral Directionality Switching. <i>Nano Letters</i> , 2015, 15, 4793-4798.	4.5	54
30	Conductance of a single flexible molecular wire composed of alternating donor and acceptor units. <i>Nature Communications</i> , 2015, 6, 7397.	5.8	83
31	Nanopackaging Requests for Atomic Scale Circuits and Molecule-Machines. <i>Advances in Atom and Single Molecule Machines</i> , 2015, , 59-81.	0.0	2
32	One-way rotation of a molecule-rotor driven by a shot noise. <i>Nanoscale</i> , 2014, 6, 2793.	2.8	23
33	Molecular Switches. , 2014, , 2723-2735.		0
34	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
35	Surface-State Engineering for Interconnects on H-Passivated Si(100). <i>Nano Letters</i> , 2013, 13, 1192-1195.	4.5	31
36	Vibrational transition rule during a through-bond electron transfer process. <i>Chemical Physics Letters</i> , 2013, 567, 1-5.	1.2	5

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37	Contacting a Conjugated Molecule with a Surface Dangling Bond Dimer on a Hydrogenated Ge(001) Surface Allows Imaging of the Hidden Ground Electronic State. ACS Nano, 2013, 7, 10105-10111.	7.3	28
38	Dangling-Bond Wire Circuits on a Si(001)-(2x1):H Surface with Their Contacting Nanopads. Advances in Atom and Single Molecule Machines, 2013, , 163-174.	0.0	0
39	Electronic Structure and Properties of Graphen Nanoribbons: Zigzag and Armchair Edges. Advances in Atom and Single Molecule Machines, 2013, , 81-90.	0.0	0
40	Dangling-bond logic gates on a Si(100)-(2 Å ⁻¹) ² H surface. Journal of Physics Condensed Matter, 2012, 24, 095011.	0.7	32
41	Voltage-dependent conductance of a single graphene nanoribbon. Nature Nanotechnology, 2012, 7, 713-717.	15.6	298
42	The Different Designs of Molecule Logic Gates. Advanced Materials, 2012, 24, 312-317.	11.1	24
43	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
44	Single Molecule Logical Devices. Topics in Current Chemistry, 2011, 313, 217-268.	4.0	5
45	The electronic transparency of a single CO molecule at contact. Chemical Physics Letters, 2010, 484, 237-241.	1.2	2
46	Direct transfer of gold nanoislands from a MoS ₂ stamp to a Si ² H surface. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, 484-489.	0.6	14
47	Supramolecular Architectures on Surfaces Formed through Hydrogen Bonding Optimized in Three Dimensions. ACS Nano, 2010, 4, 4097-4109.	7.3	48
48	Single Molecular Wires Connecting Metallic and Insulating Surface Areas. Angewandte Chemie - International Edition, 2009, 48, 9966-9970.	7.2	78
49	STM manipulation of molecular moulds on metal surfaces. Nano Research, 2009, 2, 254-259.	5.8	29
50	Conductance of a Single Conjugated Polymer as a Continuous Function of Its Length. Science, 2009, 323, 1193-1197.	6.0	478
51	Adsorption and Switching Properties of Azobenzene Derivatives on Different Noble Metal Surfaces: Au(111), Cu(111), and Au(100). Journal of Physical Chemistry C, 2008, 112, 10509-10514.	1.5	116
52	Molecular Aggregation within Self-Ordered Monolayers. ChemPhysChem, 2007, 8, 245-249.	1.0	4
53	Exploring the Interatomic Forces between Tip and Single Molecules during STM Manipulation. Nano Letters, 2006, 6, 2685-2689.	4.5	60
54	Interaction of a long molecular wire with a nanostructured surface: Violet Landers on Cu(211). Chemical Physics Letters, 2006, 428, 331-337.	1.2	9

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55	Imaging of a molecular wheelbarrow by scanning tunneling microscopy. <i>Surface Science</i> , 2005, 584, L153-L158.	0.8	74
56	Recording the intramolecular deformation of a 4-legs molecule during its STM manipulation on a Cu(211) surface. <i>Chemical Physics Letters</i> , 2005, 402, 180-185.	1.2	42
57	Conformations and controlled manipulation of a long molecular wire on Cu(111). <i>Surface Science</i> , 2005, 585, 38-46.	0.8	7
58	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
59	Molecules on Insulating Films: Scanning-Tunneling Microscopy Imaging of Individual Molecular Orbitals. <i>Physical Review Letters</i> , 2005, 94, 026803.	2.9	749
60	Manipulation of large molecules by low temperature STM. <i>Surface and Interface Analysis</i> , 2004, 36, 109-113.	0.8	4
61	Controlled manipulation of a single molecular wire along a copper atomic nanostructure. <i>Physical Review B</i> , 2004, 69, .	1.1	49
62	Lander on Cu(2 1 1) " selective adsorption and surface restructuring by a molecular wire. <i>Chemical Physics Letters</i> , 2003, 371, 750-756.	1.2	44
63	Properties of large organic molecules on metal surfaces. <i>Progress in Surface Science</i> , 2003, 71, 95-146.	3.8	419
64	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
65	Probing the Different Stages in Contacting a Single Molecular Wire. <i>Physical Review Letters</i> , 2003, 91, 036601.	2.9	94
66	TBPP molecules on copper surfaces: a low temperature scanning tunneling microscope investigation. <i>Surface Science</i> , 2002, 499, 94-102.	0.8	74
67	Low temperature manipulation of big molecules in constant height mode. <i>Applied Physics Letters</i> , 2001, 78, 306-308.	1.5	78
68	Recording Intramolecular Mechanics during the Manipulation of a Large Molecule. <i>Physical Review Letters</i> , 2001, 87, 088302.	2.9	93
69	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
70	The physics of the near-field. <i>Reports on Progress in Physics</i> , 2000, 63, 893-938.	8.1	132
71	Single-atom motion during a lateral STM manipulation. <i>Physical Review B</i> , 1999, 59, R7845-R7848.	1.1	60
72	Nanoscale Science of Single Molecules Using Local Probes. <i>Science</i> , 1999, 283, 1683-1688.	6.0	596

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73	Topological Effects on Intramolecular Electron Transfer via Quantum Interference. Inorganic Chemistry, 1997, 36, 5037-5049.	1.9	238
74	Computation of electrostatic fields in low-symmetry systems: Application to STM configurations. Physical Review B, 1996, 53, 13159-13168.	1.1	33
75	Electronic Transparence of a SingleC60Molecule. Physical Review Letters, 1995, 74, 2102-2105.	2.9	466
76	Electron transfer through 2,7,9,10-tetraazaphenanthrene: a quantum "interference" effect?. Chemical Physics, 1993, 177, 23-30.	0.9	32