

Jascha Repp

List of Publications by Year in descending order

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100
papers

6,084
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81839

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docs citations

103
times ranked

4635
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploiting Cooperative Catalysis for the On-Surface Synthesis of Linear Heteroaromatic Polymers via Selective C-H Activation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	10
2	On-Surface Synthesis of Polypyridine: Strain Enforces Extended Linear Chains. <i>Chemistry</i> , 2022, 4, 112-117.	0.9	5
3	Interplay of boundary states of graphene nanoribbons with a Kondo impurity. <i>Physical Review B</i> , 2022, 105, .	1.1	5
4	Selectivity in single-molecule reactions by tip-induced redox chemistry. <i>Science</i> , 2022, 377, 298-301.	6.0	36
5	Quantitative sampling of atomic-scale electromagnetic waveforms. <i>Nature Photonics</i> , 2021, 15, 143-147.	15.6	44
6	Quantitative Waveform Sampling on Atomic Scales. , 2021, , .		0
7	Controlling condensed matter with lightwave fields and forces. , 2021, , .		0
8	Atomically resolved single-molecule triplet quenching. <i>Science</i> , 2021, 373, 452-456.	6.0	27
9	Coherent Control of Single-Molecule Switching Reactions with Femtosecond Atomic Forces. , 2021, , .		0
10	Current-Induced One-Dimensional Diffusion of Co Adatoms on Graphene Nanoribbons. <i>Nano Letters</i> , 2021, 21, 8794-8799.	4.5	4
11	Spin-dependent vibronic response of a carbon radical ion in two-dimensional WS ₂ . <i>Nature Communications</i> , 2021, 12, 7287.	5.8	15
12	Imaging Charge Localization in a Conjugated Oligophenylene. <i>Physical Review Letters</i> , 2020, 125, 176803.	2.9	6
13	Sub-cycle atomic-scale forces coherently control a single-molecule switch. <i>Nature</i> , 2020, 585, 58-62.	13.7	78
14	Reorganization energy and polaronic effects of pentacene on NaCl films. <i>Physical Review B</i> , 2020, 102, .	1.1	6
15	Gold-linked strings of donor-acceptor dyads: on-surface formation and mutual orientation. <i>Chemical Communications</i> , 2020, 56, 7901-7904.	2.2	1
16	Manipulating and Probing the Distribution of Excess Electrons in an Electrically Isolated Self-Assembled Molecular Structure. <i>Nano Letters</i> , 2020, 20, 1839-1845.	4.5	10
17	Coherent Control of a Single-Molecule Switch with Sub-Cycle Atomic Forces. , 2020, , .		0
18	Charge-Induced Structural Changes in a Single Molecule Investigated by Atomic Force Microscopy. <i>Physical Review Letters</i> , 2019, 123, 066001.	2.9	11

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19	Accessing a Charged Intermediate State Involved in the Excitation of Single Molecules. <i>Physical Review Letters</i> , 2019, 123, 016001.	2.9	17
20	Abbildung des Orbitals des ungepaarten Elektrons in einem stabilen, organischen Radikal anhand seiner Kondo-Resonanz. <i>Angewandte Chemie</i> , 2019, 131, 11179-11183.	1.6	1
21	Interface dipoles of Ir(ppy) ₃ on Cu(111). <i>Nanoscale</i> , 2019, 11, 12695-12703.	2.8	3
22	Resolving the Unpaired-Electron Orbital Distribution in a Stable Organic Radical by Kondo Resonance Mapping. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11063-11067.	7.2	27
23	The Environment-Dependent Behavior of the Blatter Radical at the Metal-Molecule Interface. <i>Nano Letters</i> , 2019, 19, 2543-2548.	4.5	54
24	Implementing Functionality in Molecular Self-Assembled Monolayers. <i>Nano Letters</i> , 2019, 19, 2750-2757.	4.5	12
25	Mapping orbital changes upon electron transfer with tunnelling microscopy on insulators. <i>Nature</i> , 2019, 566, 245-248.	13.7	59
26	Terahertz lightwave electronics and valleytronics. , 2019, , .		0
27	Damping by sequentially tunneling electrons. <i>Surface Science</i> , 2018, 678, 112-117.	0.8	8
28	Reorganization energy upon charging a single molecule on an insulator measured by atomic force microscopy. <i>Nature Nanotechnology</i> , 2018, 13, 376-380.	15.6	77
29	Terahertz Microscopy Down to the Atomic Scale. , 2018, , .		1
30	Bonding Motifs in Metal-Organic Compounds on Surfaces. <i>Journal of the American Chemical Society</i> , 2018, 140, 12884-12889.	6.6	16
31	Forces from periodic charging of adsorbed molecules. <i>Journal of Chemical Physics</i> , 2017, 146, 092327.	1.2	15
32	Imaging on-surface hierarchical assembly of chiral supramolecular networks. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24605-24612.	1.3	11
33	Crystallization of a Two-Dimensional Hydrogen-Bonded Molecular Assembly: Evolution of the Local Structure Resolved by Atomic Force Microscopy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10786-10790.	7.2	16
34	Crystallization of a Two-Dimensional Hydrogen-Bonded Molecular Assembly: Evolution of the Local Structure Resolved by Atomic Force Microscopy. <i>Angewandte Chemie</i> , 2017, 129, 10926-10930.	1.6	5
35	Apparent Reversal of Molecular Orbitals Reveals Entanglement. <i>Physical Review Letters</i> , 2017, 119, 056801.	2.9	17
36	Terahertz subcycle control: from high-harmonic generation to molecular snapshots. , 2017, , .		0

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37	Tracking the ultrafast motion of a single molecular orbital. , 2016, , .		0
38	Control of Reactivity and Regioselectivity for On-Surface Dehydrogenative Aryl-Aryl Bond Formation. Journal of the American Chemical Society, 2016, 138, 5585-5593.	6.6	67
39	Charge-State-Dependent Diffusion of Individual Gold Adatoms on Ionic Thin NaCl Films. Physical Review Letters, 2016, 117, 146102.	2.9	21
40	Tracking the ultrafast motion of a single molecule by femtosecond orbital imaging. Nature, 2016, 539, 263-267.	13.7	365
41	Direct Identification and Determination of Conformational Response in Adsorbed Individual Nonplanar Molecular Species Using Noncontact Atomic Force Microscopy. Nano Letters, 2016, 16, 7703-7709.	4.5	53
42	Effect of electron-phonon interaction on the formation of one-dimensional electronic states in coupled Cl vacancies. Physical Review B, 2015, 91, .	1.1	14
43	Local tunneling decay length and Kelvin probe force spectroscopy. Physical Review B, 2015, 92, .	1.1	8
44	Probing Charges on the Atomic Scale by Means of Atomic Force Microscopy. Physical Review Letters, 2015, 115, 076101.	2.9	56
45	Visualisierung der Polarität chemischer Bindungen. Physik in Unserer Zeit, 2015, 46, 266-267.	0.0	0
46	Characterization of a Surface Reaction by Means of Atomic Force Microscopy. Journal of the American Chemical Society, 2015, 137, 7424-7428.	6.6	64
47	Periodic Charging of Individual Molecules Coupled to the Motion of an Atomic Force Microscopy Tip. Nano Letters, 2015, 15, 4406-4411.	4.5	38
48	Manipulation of the Charge State of Single Au Atoms on Insulating Multilayer Films. Physical Review Letters, 2015, 114, 036801.	2.9	48
49	Atomic Resolution on Molecules with Functionalized Tips. Nanoscience and Technology, 2015, , 223-246.	1.5	5
50	3.1 Introduction to manipulation of surfaces with the methods of scanning probe microscopy. , 2015, , 67-68.		1
51	3.10 Manipulation of surfaces with the methods of scanning probe microscopy: Data. , 2015, , 90-99.		0
52	3.2 Lateral manipulation. , 2015, , 69-73.		0
53	3.7 Atomic/molecular switches. , 2015, , 84-85.		0
54	3.6 Manipulation on insulators. , 2015, , 81-83.		0

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55	3.8 Tip functionalization by atomic/molecular manipulation. , 2015, , 86-87.		0
56	Image correction for atomic force microscopy images with functionalized tips. Physical Review B, 2014, 89, .	1.1	57
57	Image Distortions of a Partially Fluorinated Hydrocarbon Molecule in Atomic Force Microscopy with Carbon Monoxide Terminated Tips. Nano Letters, 2014, 14, 6127-6131.	4.5	73
58	Controlling the Orbital Sequence in Individual Cu-Phthalocyanine Molecules. Nano Letters, 2013, 13, 777-780.	4.5	73
59	Symmetry Dependence of Vibration-Assisted Tunneling. Physical Review Letters, 2013, 110, 136101.	2.9	59
60	Formation and Characterization of a Molecule-Metal-Molecule Bridge in Real Space. Journal of the American Chemical Society, 2013, 135, 9200-9203.	6.6	73
61	High-resolution scanning tunneling and atomic force microscopy of stereochemically resolved dibenzo[a,h]thianthrene molecules. Physica Status Solidi (B): Basic Research, 2013, 250, 2424-2430.	0.7	18
62	Fixing the Energy Scale in Scanning Tunneling Microscopy on Semiconductor Surfaces. Physical Review Letters, 2013, 111, 216802.	2.9	11
63	Probing individual weakly-coupled π -conjugated molecules on semiconductor surfaces. Journal of Applied Physics, 2012, 112, 034312.	1.1	7
64	Atomic Force Microscopy Reveals Bistable Configurations of Dibenzo[a,h]thianthrene and their Interconversion Pathway. Physical Review Letters, 2012, 108, 086101.	2.9	122
65	Scanning Probe Microscopy of Atoms and Molecules on Insulating Films: From Imaging to Molecular Manipulation. Chimia, 2012, 66, 10-15.	0.3	9
66	Controlled Lateral Manipulation of Molecules on Insulating Films by STM. Nano Letters, 2012, 12, 1070-1074.	4.5	68
67	Molecular Symmetry Governs Surface Diffusion. Physical Review Letters, 2011, 107, 186103.	2.9	21
68	Charge State Control of Molecules Reveals Modification of the Tunneling Barrier with Intramolecular Contrast. Nano Letters, 2011, 11, 1580-1584.	4.5	106
69	STM Manipulation of Single Atoms and Molecules on Insulating Films. Frontiers of Nanoscience, 2011, 2, 17-49.	0.3	2
70	Scanning Tunneling Spectroscopy of Molecules on Insulating Films. Chimia, 2010, 64, 370-375.	0.3	4
71	Coherent electron-nuclear coupling in oligothiophene molecular wires. Nature Physics, 2010, 6, 975-979.	6.5	98
72	Reversible Bond Formation in a Gold-Atom-Organic-Molecule Complex as a Molecular Switch. Physical Review Letters, 2010, 105, 266102.	2.9	142

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73	Single-Molecule Synthesis and Characterization of Metal-Ligand Complexes by Low-Temperature STM. Nano Letters, 2010, 10, 2475-2479.	4.5	76
74	Atomare Ladungszustände unter dem Rasterkraftmikroskop. Physik in Unserer Zeit, 2009, 40, 225-226.	0.0	2
75	Measuring the Charge State of an Adatom with Noncontact Atomic Force Microscopy. Science, 2009, 324, 1428-1431.	6.0	317
76	Orientation of individual C_{60} molecules adsorbed on Cu(111): Low-temperature scanning tunneling microscopy and density functional calculations. Physical Review B, 2008, 77, .	1.1	73
77	Direct Evidence for the Effect of Quantum Confinement of Surface-State Electrons on Atomic Diffusion. Physical Review Letters, 2008, 101, 226601.	2.9	47
78	Multiple Charge States of Ag Atoms on Ultrathin NaCl Films. Physical Review Letters, 2007, 98, .	2.9	105
79	Current-Induced Hydrogen Tautomerization and Conductance Switching of Naphthalocyanine Molecules. Science, 2007, 317, 1203-1206.	6.0	621
80	Scanning tunneling microscopy of adsorbates on insulating films. From the imaging of individual molecular orbitals to the manipulation of the charge state. Applied Physics A: Materials Science and Processing, 2006, 85, 399-406.	1.1	48
81	Imaging Bond Formation Between a Gold Atom and Pentacene on an Insulating Surface. Science, 2006, 312, 1196-1199.	6.0	299
82	Force induced and electron stimulated STM manipulations: routes to artificial nanostructures as well as to molecular contacts, engines and switches. Journal of Physics: Conference Series, 2005, 19, 175-181.	0.3	5
83	Scanning tunneling microscopy and spectroscopy of NaCl overlayers on the stepped Cu(311) surface: Experimental and theoretical study. Physical Review B, 2005, 71, .	1.1	50
84	Molecules on Insulating Films: Scanning-Tunneling Microscopy Imaging of Individual Molecular Orbitals. Physical Review Letters, 2005, 94, 026803.	2.9	749
85	Scanning Tunneling Spectroscopy of Cl Vacancies in NaCl Films: Strong Electron-Phonon Coupling in Double-Barrier Tunneling Junctions. Physical Review Letters, 2005, 95, 225503.	2.9	147
86	The scanning tunnelling microscope as an operative tool: doing physics and chemistry with single atoms and molecules. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 1207-1216.	1.6	17
87	Controlling the Charge State of Individual Gold Adatoms. Science, 2004, 305, 493-495.	6.0	393
88	Snell's Law for Surface Electrons: Refraction of an Electron Gas Imaged in Real Space. Physical Review Letters, 2004, 92, 036803.	2.9	126
89	Site Determination and Thermally Assisted Tunneling in Homogenous Nucleation. Physical Review Letters, 2003, 91, 206102.	2.9	105
90	MANIPULATION OF ATOMS AND MOLECULES FOR CONSTRUCTION OF NANOSYSTEMS: THE SCANNING TUNNELING MICROSCOPE AS AN OPERATIVE TOOL. International Journal of Nanoscience, 2003, 02, 197-218.	0.4	0

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91	From atomic kinks to mesoscopic surface patterns: Ionic layers on vicinal metal surfaces. Physical Review B, 2002, 66, .	1.1	27
92	Nanoscale surface patterning by adsorbate-induced faceting and selective growth: NaCl on Cu(). Surface Science, 2002, 497, 113-126.	0.8	17
93	Manipulation of Atoms and Molecules with the Low-Temperature Scanning Tunneling Microscope. Japanese Journal of Applied Physics, 2001, 40, 4409-4413.	0.8	17
94	Ionic Films on Vicinal Metal Surfaces: Enhanced Binding due to Charge Modulation. Physical Review Letters, 2001, 86, 252-255.	2.9	60
95	Controlled Manipulation of Atoms and Small Molecules with a Low Temperature Scanning Tunneling Microscope. Single Molecules, 2000, 1, 79-86.	1.6	47
96	Self-Organized Patterning of an Insulator-on-Metal System by Surface Faceting and Selective Growth: NaCl/Cu(211). Physical Review Letters, 2000, 84, 123-126.	2.9	63
97	Substrate Mediated Long-Range Oscillatory Interaction between Adatoms: Cu/Cu(111). Physical Review Letters, 2000, 85, 2981-2984.	2.9	363
98	Controlled Manipulation of Atoms and Small Molecules with a Low Temperature Scanning Tunneling Microscope. , 2000, 1, 79.		1
99	Determination of binding sites in ordered phases of CO/Cu(211) employing molecular level manipulation. Chemical Physics Letters, 1999, 310, 145-149.	1.2	22
100	Exploiting Cooperative Catalysis for the Onâ€surface Synthesis of Linear Heteroaromatic Polymers via Selective Câ€H Activation. Angewandte Chemie, 0, , .	1.6	2