Pavel JelÃ-nek

List of Publications by Year
in descending order

171	6,963	53794 45	66911 78
papers	citations	h-index	g-index

181	181	181	5718
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exploiting Cooperative Catalysis for the On‐Surface Synthesis of Linear Heteroaromatic Polymers via Selective C–H Activation. Angewandte Chemie - International Edition, 2022, 61, .	13.8	10
2	Defect-Induced π-Magnetism into Non-Benzenoid Nanographenes. Nanomaterials, 2022, 12, 224.	4.1	7
3	Synthesis and Characterization of peri‐Heptacene on a Metallic Surface. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14
4	Synthesis and Characterization of peri‐Heptacene on a Metallic Surface. Angewandte Chemie, 2022, 134, .	2.0	5
5	Innentitelbild: Synthesis and Characterization of peri‐Heptacene on a Metallic Surface (Angew.) Tj ETQq1 1 0.784314 rgBT /Ov	2.0	0
6	Chemisorption-Induced Formation of Biphenylene Dimer on Ag(111). Journal of the American Chemical Society, 2022, 144, 723-732.	13.7	20
7	Creation and annihilation of mobile fractional solitons in atomic chains. Nature Nanotechnology, 2022, 17, 244-249.	31.5	12
8	Z₃ Charge Density Wave of Silicon Atomic Chains on a Vicinal Silicon Surface. ACS Nano, 2022, 16, 6598-6604.	14.6	5
9	Sub-angstrom noninvasive imaging of atomic arrangement in 2D hybrid perovskites. Science Advances, 2022, 8, eabj0395.	10.3	5
10	Electronic Self-Passivation of Single Vacancy in Black Phosphorus via Ionization. Physical Review Letters, 2022, 128, 176801.	7.8	4
11	Resolving Atomic‐Scale Defects in Conjugated Polymers On‐Surfaces. Chemistry - A European Journal, 2022, 28, .	3.3	3
12	(Invited) On-Surface Synthesis of Acene Polymers. ECS Meeting Abstracts, 2022, MA2022-01, 811-811.	0.0	0
13	Interplay between π-Conjugation and Exchange Magnetism in One-Dimensional Porphyrinoid Polymers. Journal of the American Chemical Society, 2022, 144, 12725-12731.	13.7	15
14	On-Surface Synthesis and Characterization of [7]Triangulene Quantum Ring. Nano Letters, 2021, 21, 861-867.	9.1	59
15	Unravelling the Open-Shell Character of Peripentacene on Au(111). Journal of Physical Chemistry Letters, 2021, 12, 330-336.	4.6	36
16	On‐Surface Synthesis of Polyferrocenylene and its Single‐Chain Conformational and Electrical Transport Properties. Advanced Functional Materials, 2021, 31, 2006391.	14.9	7
17	1D Coordination π–d Conjugated Polymers with Distinct Structures Defined by the Choice of the Transition Metal: Towards a New Class of Antiaromatic Macrocycles. Angewandte Chemie - International Edition, 2021, 60, 439-445.	13.8	23
18	1D Coordination π–d Conjugated Polymers with Distinct Structures Defined by the Choice of the Transition Metal: Towards a New Class of Antiaromatic Macrocycles. Angewandte Chemie, 2021, 133, 443-449.	2.0	0

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19	Ultrahigh-yield on-surface synthesis and assembly of circumcoronene into a chiral electronic Kagome-honeycomb lattice. Science Advances, 2021, 7, .	10.3	43
20	On-surface synthesis of organocopper metallacycles through activation of inner diacetylene moieties. Chemical Science, 2021, 12, 12806-12811.	7.4	2
21	Cumulene-like bridged indeno[1,2-b]fluorene Ï€-conjugated polymers synthesized on metal surfaces. Chemical Communications, 2021, 57, 7545-7548.	4.1	9
22	Chemical Stability of (3,1)-Chiral Graphene Nanoribbons. ACS Nano, 2021, 15, 5610-5617.	14.6	23
23	Significance Of Nuclear Quantum Effects In Hydrogen Bonded Molecular Chains. ACS Nano, 2021, 15, 10357-10365.	14.6	11
24	Systematic review and meta analysis of differential attrition between active and control arms in randomized controlled trials of lifestyle interventions in chronic disease. BMC Medical Research Methodology, 2021, 21, 122.	3.1	4
25	Resolving Ambiguity of the Kondo Temperature Determination in Mechanically Tunable Single-Molecule Kondo Systems. Journal of Physical Chemistry Letters, 2021, 12, 6320-6325.	4.6	14
26	On-Surface Synthesis of One-Dimensional Coordination Polymers with Tailored Magnetic Anisotropy. ACS Applied Materials & Interfaces, 2021, 13, 32393-32401.	8.0	14
27	On-Surface Strain-Driven Synthesis of Nonalternant Non-Benzenoid Aromatic Compounds Containing Four- to Eight-Membered Rings. Journal of the American Chemical Society, 2021, 143, 14694-14702.	13.7	31
28	Onâ€Surface Synthesis of a Dicationic Diazahexabenzocoronene Derivative on the Au(111) Surface. Angewandte Chemie - International Edition, 2021, 60, 25551-25556.	13.8	12
29	Onâ€Surface Synthesis of a Dicationic Diazahexabenzocoronene Derivative on the Au(111) Surface. Angewandte Chemie, 2021, 133, 25755-25760.	2.0	6
30	Atomic Scale Control and Visualization of Topological Quantum Phase Transition in Ï€â€Conjugated Polymers Driven by Their Length. Advanced Materials, 2021, 33, e2104495.	21.0	15
31	Visualizing designer quantum states in stable macrocycle quantum corrals. Nature Communications, 2021, 12, 5895.	12.8	12
32	Atomic Scale Control and Visualization of Topological Quantum Phase Transition in Ï€â€Conjugated Polymers Driven by Their Length (Adv. Mater. 44/2021). Advanced Materials, 2021, 33, 2170349.	21.0	0
33	Real-space imaging of anisotropic charge of Ïƒ-hole by means of Kelvin probe force microscopy. Science, 2021, 374, 863-867.	12.6	71
34	On-surface synthesis of doubly-linked one-dimensional pentacene ladder polymers. Chemical Communications, 2020, 56, 15309-15312.	4.1	10
35	On-Surface Hydrogenation of Buckybowls: From Curved Aromatic Molecules to Planar Non-KekulÃ© Aromatic Hydrocarbons. ACS Nano, 2020, 14, 16735-16742.	14.6	15
36	Tailoring Ï€-conjugation and vibrational modes to steer on-surface synthesis of pentalene-bridged ladder polymers. Nature Communications, 2020, 11, 4567.	12.8	36

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37	Thermally induced intra-molecular transformation and metalation of free-base porphyrin on Au(111) surface steered by surface confinement and ad-atoms. Nanoscale Advances, 2020, 2, 2986-2991.	4.6	8
38	Multiscale Analysis of Phase Transformations in Self-Assembled Layers of 4,4â€²-Biphenyl Dicarboxylic Acid on the Ag(001) Surface. ACS Nano, 2020, 14, 7269-7279.	14.6	13
39	Steering alkyne homocoupling with on-surface synthesized metalâ€“organic complexes. Chemical Communications, 2020, 56, 8659-8662.	4.1	6
40	Mechano-Optical Switching of a Single Molecule with Doublet Emission. ACS Nano, 2020, 14, 8931-8938.	14.6	11
41	Quantum dissipation driven by electron transfer within a single molecule investigated with atomic force microscopy. Nature Communications, 2020, 11, 1337.	12.8	18
42	Diradical Organic Oneâ€Dimensional Polymers Synthesized on a Metallic Surface. Angewandte Chemie, 2020, 132, 17747-17752.	2.0	14
43	Diradical Organic Oneâ€Dimensional Polymers Synthesized on a Metallic Surface. Angewandte Chemie - International Edition, 2020, 59, 17594-17599.	13.8	33
44	Atomic-Scale Charge Distribution Mapping of Single Substitutional p- and n-Type Dopants in Graphene. ACS Sustainable Chemistry and Engineering, 2020, 8, 3437-3444.	6.7	13
45	Controlling Single Molecule Conductance by a Locally Induced Chemical Reaction on Individual Thiophene Units. Angewandte Chemie, 2020, 132, 6266-6271.	2.0	2
46	Controlling Single Molecule Conductance by a Locally Induced Chemical Reaction on Individual Thiophene Units. Angewandte Chemie - International Edition, 2020, 59, 6207-6212.	13.8	9
47	Tailoring topological order and Ï€-conjugation to engineer quasi-metallic polymers. Nature Nanotechnology, 2020, 15, 437-443.	31.5	95
48	Heterochiral recognition among functionalized heptahelicenes on noble metal surfaces. Chemical Communications, 2019, 55, 10595-10598.	4.1	18
49	Controlling the stereospecific bonding motif of Auâ€“thiolate links. Nanoscale, 2019, 11, 15567-15575.	5.6	7
50	Atomically precise bottom-up synthesis of Ï€-extended [5]triangulene. Science Advances, 2019, 5, eaav7717.	10.3	159
51	Strainâ€Induced Isomerization in Oneâ€Dimensional Metalâ€“Organic Chains. Angewandte Chemie, 2019, 131, 18764-18770.	2.0	19
52	Strainâ€Induced Isomerization in Oneâ€Dimensional Metalâ€“Organic Chains. Angewandte Chemie - International Edition, 2019, 58, 18591-18597.	13.8	37
53	Titelbild: Aromatic Azide Transformation on the Ag(111) Surface Studied by Scanning Probe Microscopy (Angew. Chem. 8/2019). Angewandte Chemie, 2019, 131, 2179-2179.	2.0	0
54	Nitrous oxide as an effective AFM tip functionalization: a comparative study. Beilstein Journal of Nanotechnology, 2019, 10, 315-321.	2.8	11

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55	Interface dipoles of Ir(ppy)₃on Cu(111). Nanoscale, 2019, 11, 12695-12703.	5.6	3
56	InnenrÃ¼cktitelbild: Onâ€Surface Synthesis of Ethynyleneâ€Bridged Anthracene Polymers (Angew. Chem.) Tj ETQq0 0 0 rgBT /Overlock	2.0	0
57	On-Surface Synthesis of Gold Porphyrin Derivatives via a Cascade of Chemical Interactions: Planarization, Self-Metalation, and Intermolecular Coupling. Chemistry of Materials, 2019, 31, 3248-3256.	6.7	37
58	Identification of Two-Dimensional FeO₂ Termination of Bulk Hematite Î±-Fe₂O₃(0001) Surface. Journal of Physical Chemistry C, 2019, 123, 14312-14318.	3.1	5
59	Chiral Surface from Achiral Ingredients: Modification of Cu(110) with Phthalic Acid. Journal of Physical Chemistry C, 2019, 123, 9121-9127.	3.1	2
60	Aromatic Azide Transformation on the Ag(111) Surface Studied by Scanning Probe Microscopy. Angewandte Chemie, 2019, 131, 2288-2293.	2.0	3
61	Onâ€Surface Synthesis of Ethynyleneâ€Bridged Anthracene Polymers. Angewandte Chemie, 2019, 131, 6631-6635.	2.0	16
62	Onâ€Surface Synthesis of Ethynyleneâ€Bridged Anthracene Polymers. Angewandte Chemie - International Edition, 2019, 58, 6559-6563.	13.8	44
63	Aromatic Azide Transformation on the Ag(111) Surface Studied by Scanning Probe Microscopy. Angewandte Chemie - International Edition, 2019, 58, 2266-2271.	13.8	8
64	Nature of Binding in Planar Halogenâ€“Benzene Assemblies and Their Possible Visualization in Scanning Probe Microscopy. Journal of Physical Chemistry C, 2019, 123, 8379-8386.	3.1	6
65	Large Converse Piezoelectric Effect Measured on a Single Molecule on a Metallic Surface. Journal of the American Chemical Society, 2018, 140, 940-946.	13.7	33
66	Weakly perturbative imaging of interfacial water with submolecular resolution by atomic force microscopy. Nature Communications, 2018, 9, 122.	12.8	105
67	Simple device for the growth of micrometer-sized monocrystalline single-layer graphene on SiC(0001). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	2.1	4
68	Imaging Charge DistributionÂWithin Molecules by Scanning ProbeÂMicroscopy. Springer Series in Surface Sciences, 2018, , 499-518.	0.3	2
69	Bonding Motifs in Metalâ€“Organic Compounds on Surfaces. Journal of the American Chemical Society, 2018, 140, 12884-12889.	13.7	16
70	The effect of hydration number on the interfacial transport of sodium ions. Nature, 2018, 557, 701-705.	27.8	205
71	Onâ€Surface Bottomâ€Up Synthesis of Azine Derivatives Displaying Strong Acceptor Behavior. Angewandte Chemie, 2018, 130, 8718-8722.	2.0	7
72	Onâ€Surface Bottomâ€Up Synthesis of Azine Derivatives Displaying Strong Acceptor Behavior. Angewandte Chemie - International Edition, 2018, 57, 8582-8586.	13.8	13

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73	Non-covalent control of spin-state in metal-organic complex by positioning on N-doped graphene. Nature Communications, 2018, 9, 2831.	12.8	68
74	On-surface structural and electronic properties of spontaneously formed Tb₂Pc₃ single molecule magnets. Nanoscale, 2018, 10, 15553-15563.	5.6	19
75	Iron-based trinuclear metal-organic nanostructures on a surface with local charge accumulation. Nature Communications, 2018, 9, 3211.	12.8	31
76	Principles and simulations of high-resolution STM imaging with a flexible tip apex. Physical Review B, 2017, 95, .	3.2	76
77	Study of uncertainties of height measurements of monoatomic steps on Si 5 Ã— 5 using DFT. Measurement Science and Technology, 2017, 28, 034005.	2.6	1
78	Electronegativity determination of individual surface atoms by atomic force microscopy. Nature Communications, 2017, 8, 15155.	12.8	46
79	Submolecular Resolution by Variation of the Inelastic Electron Tunneling Spectroscopy Amplitude and its Relation to the AFM/STM Signal. Physical Review Letters, 2017, 119, 166001.	7.8	30
80	Donorâ€“Acceptor Properties of a Single-Molecule Altered by On-Surface Complex Formation. ACS Nano, 2017, 11, 8413-8420.	14.6	30
81	High resolution SPM imaging of organic molecules with functionalized tips. Journal of Physics Condensed Matter, 2017, 29, 343002.	1.8	92
82	From helical to planar chirality by on-surface chemistry. Nature Chemistry, 2017, 9, 213-218.	13.6	101
83	Stable Auâ€“C bonds to the substrate for fullerene-based nanostructures. Beilstein Journal of Nanotechnology, 2017, 8, 1073-1079.	2.8	3
84	Electronegativity Determination of Single Atoms by Atomic Force Microscopy. Hyomen Kagaku, 2017, 38, 341-346.	0.0	0
85	Mapping the electrostatic force field of single molecules from high-resolution scanning probe images. Nature Communications, 2016, 7, 11560.	12.8	95
86	Control of Reactivity and Regioselectivity for On-Surface Dehydrogenative Arylâ€“Aryl Bond Formation. Journal of the American Chemical Society, 2016, 138, 5585-5593.	13.7	67
87	Slow Relaxation of Surface Plasmon Excitations in Au₅₅: The Key to Efficient Plasmonic Heating in Au/TiO₂. Journal of Physical Chemistry Letters, 2016, 7, 1563-1569.	4.6	16
88	Tuning the conductance of benzene-based single-molecule junctions. Organic Electronics, 2016, 34, 254-261.	2.6	4
89	Characteristic Contrast in Î”f_{min} Maps of Organic Molecules Using Atomic Force Microscopy. ACS Nano, 2016, 10, 8517-8525.	14.6	37
90	Study of Ferrocene Dicarboxylic Acid on Substrates of Varying Chemical Activity. Journal of Physical Chemistry C, 2016, 120, 21955-21961.	3.1	14

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91	Submolecular Resolution Imaging of Molecules by Atomic Force Microscopy: The Influence of the Electrostatic Force. Physical Review Letters, 2016, 116, 096102.	7.8	51
92	Structural and Electronic Properties of Nitrogen-Doped Graphene. Physical Review Letters, 2016, 116, 126805.	7.8	64
93	Charge-state dynamics in electrostatic force spectroscopy. Nanotechnology, 2016, 27, 274005.	2.6	8
94	Non-adiabatic molecular dynamic simulations of opening reaction of molecular junctions. Nanotechnology, 2016, 27, 285202.	2.6	2
95	Chapter 4 Band Structure of Silicon Nanocrystals. , 2016, , 109-144.		0
96	Charge Redistribution and Transport in Molecular Contacts. Physical Review Letters, 2015, 115, 136101.	7.8	22
97	Probing Charges on the Atomic Scale by Means of Atomic Force Microscopy. Physical Review Letters, 2015, 115, 076101.	7.8	56
98	Forceâ€Driven Singleâ€Atom Manipulation on a Lowâ€Reactive Si Surface for Tip Sharpening. Small, 2015, 11, 3686-3693.	10.0	6
99	Calculated photo-isomerization efficiencies of functionalized azobenzene derivatives in solar energy materials: azo-functional organic linkers for porous coordinated polymers. Journal of Physics Condensed Matter, 2015, 27, 134208.	1.8	11
100	Graphene on SiC(0001) inspected by dynamic atomic force microscopy at room temperature. Beilstein Journal of Nanotechnology, 2015, 6, 901-906.	2.8	10
101	Interplay between Switching Driven by the Tunneling Current and Atomic Force of a Bistable Four-Atom Si Quantum Dot. Nano Letters, 2015, 15, 4356-4363.	9.1	17
102	Chemical structure imaging of a single molecule by atomic force microscopy at room temperature. Nature Communications, 2015, 6, 7766.	12.8	81
103	Electronic and Chemical Properties of Donor, Acceptor Centers in Graphene. ACS Nano, 2015, 9, 9180-9187.	14.6	36
104	Photo-induced reactions from efficient molecular dynamics with electronic transitions using the FIREBALL local-orbital density functional theory formalism. Journal of Physics Condensed Matter, 2015, 27, 175002.	1.8	7
105	Simultaneous nc-AFM/STM Measurements with Atomic Resolution. Nanoscience and Technology, 2015, , 29-49.	1.5	3
106	Ortho and Para Hydrogen Dimers on G/SiC(0001): Combined STM and DFT Study. Langmuir, 2015, 31, 233-239.	3.5	12
107	Initial and secondary oxidation products on the Si(111)-(7â€‰Ã—â€‰7) surface identified by atomic force microscopy and first principles calculations. Applied Physics Letters, 2014, 104, 133107.	3.3	9
108	Direct Bandgap Silicon: Tensileâ€Strained Silicon Nanocrystals. Advanced Materials Interfaces, 2014, 1, 1300042.	3.7	65

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109	Origin of High-Resolution IETS-STM Images of Organic Molecules with Functionalized Tips. Physical Review Letters, 2014, 113, 226101.	7.8	165
110	Graphene etching on SiC grains as a path to interstellar polycyclic aromatic hydrocarbons formation. Nature Communications, 2014, 5, 3054.	12.8	59
111	Mechanism of high-resolution STM/AFM imaging with functionalized tips. Physical Review B, 2014, 90, .	3.2	438
112	Silicene versus two-dimensional ordered silicide: Atomic and electronic structure of Si-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:msqrt><mml:mn>19</m Physical Review B, 2014, 89, .	3.2	58
113	Identification of Surface Defects and Subsurface Dopants in a Delta-Doped System Using Simultaneous nc-AFM/STM and DFT. Journal of Physical Chemistry C, 2014, 118, 15744-15753.	3.1	9
114	Achieving High-Quality Single-Atom Nitrogen Doping of Graphene/SiC(0001) by Ion Implantation and Subsequent Thermal Stabilization. ACS Nano, 2014, 8, 7318-7324.	14.6	81
115	Role of Tip Chemical Reactivity on Atom Manipulation Process in Dynamic Force Microscopy. ACS Nano, 2013, 7, 7370-7376.	14.6	35
116	Quantum Degeneracy in Atomic Point Contacts Revealed by Chemical Force and Conductance. Physical Review Letters, 2013, 111, 106803.	7.8	23
117	Atomic Structure Affects the Directional Dependence of Friction. Physical Review Letters, 2013, 111, 126103.	7.8	40
118	Combined AFM and STM measurements of a silicene sheet grown on the Ag(111) surface. Journal of Physics Condensed Matter, 2013, 25, 225301.	1.8	56
119	Calculation of non-adiabatic coupling vectors in a local-orbital basis set. Journal of Chemical Physics, 2013, 138, 154106.	3.0	17
120	Theoretical analysis of electronic band structure of 2- to 3-nm Si nanocrystals. Physical Review B, 2013, 87, .	3.2	83
121	Room Temperature Discrimination of Adsorbed Molecules and Attachment Sites on the Si(111)â€“7 Ã— 7 Surface Using a qPlus Sensor. ACS Nano, 2013, 7, 2686-2692.	14.6	9
122	Emergence of state at Fermi level due to the formation of In-Sn heterodimers on Si(100)-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>2</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math>. Physical Review B, 2013, 88, .	3.2	9
123	Force mapping on a partially H-covered Si(111)-(7<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 192 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math>. Physical Review B, 2013, 87, .	3.2	38
124	Characterization of the mechanical properties of qPlus sensors. Beilstein Journal of Nanotechnology, 2013, 4, 1-9.	2.8	28
125	Stability, interaction and influence of domain boundaries in Ge/Si(111)-5 Ã— 5. Journal of Physics Condensed Matter, 2012, 24, 445003.	1.8	3
126	Understanding image contrast formation in TiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>with force spectroscopy. Physical Review B, 2012, 85, .	3.2	52

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127	van der Waals interactions mediating the cohesion of fullerenes on graphene. Physical Review B, 2012, 86, .	3.2	54
128	Relation between the chemical force and the tunnelling current in atomic point contacts: a simple model. Journal of Physics Condensed Matter, 2012, 24, 084001.	1.8	12
129	Reversal of atomic contrast in scanning probe microscopy on (111) metal surfaces. Journal of Physics Condensed Matter, 2012, 24, 084003.	1.8	15
130	Simultaneous current, force and dissipation measurements on the Si(111) 7Ã—7 surface with an optimized qPlus AFM/STM technique. Beilstein Journal of Nanotechnology, 2012, 3, 249-259.	2.8	66
131	Chemical Identification of Single Atoms in Heterogeneous IIIâ€“IV Chains on Si(100) Surface by Means of nc-AFM and DFT Calculations. ACS Nano, 2012, 6, 6969-6976.	14.6	35
132	An Investigation of Ethylene Attachment to Si(111)â€“7 Ã— 7 in the Restatomâ€“Adatom Bridging Geometry: Electronic and Vibrational Properties. Journal of Physical Chemistry C, 2011, 115, 21791-21799.	3.1	5
133	Forces and Currents in Carbon Nanostructures: Are We Imaging Atoms?. Physical Review Letters, 2011, 106, 176101.	7.8	81
134	Advances and applications in the F<scp>IREBALL</scp>ab initio tightâ€binding molecularâ€dynamics formalism. Physica Status Solidi (B): Basic Research, 2011, 248, 1989-2007.	1.5	207
135	â€˜Sub-atomicâ€™ resolution of non-contact atomic force microscope images induced by a heterogeneous tip structure: a density functional theory study. Nanotechnology, 2011, 22, 295710.	2.6	26
136	Interplay of Conductance, Force, and Structural Change in Metallic Point Contacts. Physical Review Letters, 2011, 106, 016802.	7.8	124
137	Understanding atomic-resolved STM images on TiO₂(110)-(1 Ã— 1) surface by DFT calculations. Nanotechnology, 2010, 21, 405702.	2.6	33
138	Recognition tunneling. Nanotechnology, 2010, 21, 262001.	2.6	70
139	Theoretical study of electronic and transport properties of PPyâ€“Pt(111) and PPyâ€“C(111):H interfaces. Journal of Physics Condensed Matter, 2010, 22, 045003.	1.8	9
140	Atomic and electronic properties of the Pb/Mo(110) adsorption system. Physical Review B, 2009, 80, .	3.2	10
141	â€˜All-inclusiveâ€™ imaging of the rutile TiO₂(110) surface using NC-AFM. Nanotechnology, 2009, 20, 505703.	2.6	80
142	Corrections to the density-functional theory electronic spectrum: copper phthalocyanine. Applied Physics A: Materials Science and Processing, 2009, 95, 257-263.	2.3	13
143	Intra-atomic charge re-organization at the Pbâ€“Si interface: Bonding mechanism at low coverage. Surface Science, 2009, 603, 2861-2869.	1.9	1
144	Solid state surfaces and interfaces. Open Physics, 2009, 7, .	1.7	0

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145	Structure and stability of semiconductor tip apexes for atomic force microscopy. Nanotechnology, 2009, 20, 264015.	2.6	59
146	New Insights on Atomic-Resolution Frequency-Modulation Kelvin-Probe Force-Microscopy Imaging of Semiconductors. Physical Review Letters, 2009, 103, 266103.	7.8	141
147	Basic Mechanisms for Single Atom Manipulation in Semiconductor Systems with the FM-AFM. Nanoscience and Technology, 2009, , 227-249.	1.5	1
148	Complex Patterning by Vertical Interchange Atom Manipulation Using Atomic Force Microscopy. Science, 2008, 322, 413-417.	12.6	236
149	Ab initiostudy of evolution of mechanical and transport properties of clean and contaminated Au nanowires along the deformation path. Physical Review B, 2008, 77, .	3.2	44
150	Mechanical and electrical properties of stretched clean and H-contaminated Pd-nanowires. Nanotechnology, 2008, 19, 335711.	2.6	8
151	Tip-Induced Reduction of the Resonant Tunneling Current on Semiconductor Surfaces. Physical Review Letters, 2008, 101, 176101.	7.8	47
152	Local atomic and electronic structure of thePbâ^•Si(111)mosaic phase: STM andab initiostudy. Physical Review B, 2008, 77, .	3.2	15
153	Optimized atomic-like orbitals for first-principles tight-binding molecular dynamics. Computational Materials Science, 2007, 39, 759-766.	3.0	132
154	Chemical identification of individual surface atoms by atomic force microscopy. Nature, 2007, 446, 64-67.	27.8	649
155	Mechanism for Room-Temperature Single-Atom Lateral Manipulations on Semiconductors using Dynamic Force Microscopy. Physical Review Letters, 2007, 98, 106104.	7.8	113
156	Assembly of Complex Nano-Structure from Single Atoms-Chemical Identification, Manipulation and Assembly by AFM-. Shinku/Journal of the Vacuum Society of Japan, 2007, 50, 181-183.	0.2	0
157	Hydrogen Dissociation over Au Nanowires and the Fractional Conductance Quantum. Physical Review Letters, 2006, 96, 046803.	7.8	56
158	Single Atomic Contact Adhesion and Dissipation in Dynamic Force Microscopy. Physical Review Letters, 2006, 96, 106101.	7.8	129
159	Real topography, atomic relaxations, and short-range chemical interactions in atomic force microscopy: The case of theÎ±â^'Snâ^•Si(111)â^'(3Ã—3)R30Â°surface. Physical Review B, 2006, 73, .	3.2	72
160	Universal behaviour in the final stage of the breaking process for metal nanowires. Nanotechnology, 2005, 16, 1023-1028.	2.6	15
161	Multicenter approach to the exchange-correlation interactions inab initiotight-binding methods. Physical Review B, 2005, 71, .	3.2	237
162	Origin of contrast in STM images of oxygen on Pd(111) and its dependence on tip structure and tunneling parameters. Physical Review B, 2005, 71, .	3.2	30

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163	First-principles simulations of STM images:â€,From tunneling to the contact regime. Physical Review B, 2004, 70, .	3.2	87
164	Mechanical properties and electrical conductance of different Al nanowires submitted to an homogeneous deformation: a first-principles simulation. Surface Science, 2004, 566-568, 13-23.	1.9	17
165	Single atom diffusion of Pb on a Si(111)-7Ã—7 surface. Surface Science, 2004, 566-568, 130-136.	1.9	1
166	Si-substitutional defects on the Î±-Sn/Si(111)-() surface. Applied Surface Science, 2004, 234, 286-291.	6.1	9
167	Experimental and theoretical studies of single Pb atom dynamics in one Si(111)-(7Ã—7) unit cell. Surface Science, 2003, 544, 339-347.	1.9	11
168	First-principles simulations of the stretching and final breaking of Al nanowires: Mechanical properties and electrical conductance. Physical Review B, 2003, 68, .	3.2	69
169	Computational modeling of turbulent melt flow in CdZnTe crystal growth. Computational Materials Science, 2002, 25, 316-328.	3.0	4
170	Monte-Carlo simulation of diffusion in a two barriers system. Surface Science, 2002, 516, 169-178.	1.9	4
171	Exploiting Cooperative Catalysis for the Onâ€surface Synthesis of Linear Heteroaromatic Polymers via Selective Câ€H Activation. Angewandte Chemie, 0, , .	2.0	2