

Ernst Meyer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

418
papers

19,298
citations

68
h-index

125
g-index

440
ext. papers

21,292
ext. citations

5.9
avg, IF

6.33
L-index

#	Paper	IF	Citations
4 ¹⁸	Topographic signatures and manipulations of Fe atoms, CO molecules and NaCl islands on superconducting Pb(111).. <i>Beilstein Journal of Nanotechnology</i> , 2022 , 13, 1-9	3	
4 ¹⁷	Reimann Brake Ramp for planar flow casting processes and analysis of ribbon gluing. <i>Journal of Materials Research and Technology</i> , 2022 , 16, 734-742	5.5	
4 ¹⁶	Kelvin probe force microscopy for material characterization.. <i>Microscopy (Oxford, England)</i> , 2022 , 71, i165-i173	1.3	0
4 ¹⁵	Decomposition studies of NH ₃ and ND ₃ in presence of H ₂ and D ₂ with Pt/Al ₂ O ₃ and Ru/Al ₂ O ₃ catalysts. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 14130-14140	6.7	0
4 ¹⁴	Deuterium plasma sputtering of mixed Be-W layers. <i>Journal of Nuclear Materials</i> , 2022 , 564, 153671	3.3	0
4 ¹³	Effect of a Nanostructured Titanium Surface on Gingival Cell Adhesion, Viability and Properties against .. <i>Materials</i> , 2021 , 14,	3.5	2
4 ¹²	On-Surface Synthesis of Porphyrin-Complex Multi-Block Co-Oligomers by Defluorinative Coupling. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	3
4 ¹¹	On-Surface Synthesis of Nitrogen-Doped Kagome Graphene. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 8370-8375	16.4	10
4 ¹⁰	On-Surface Synthesis of Nitrogen-Doped Kagome Graphene. <i>Angewandte Chemie</i> , 2021 , 133, 8451-8456	3.6	
4 ⁰⁹	Plasma-Assisted Catalysis of Ammonia Using Tungsten at Low Pressures: A Parametric Study. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4385-4394	6.1	2
4 ⁰⁸	Reconstruction of a 2D layer of KBr on Ir(111) and electromechanical alteration by graphene. <i>Beilstein Journal of Nanotechnology</i> , 2021 , 12, 432-439	3	0
4 ⁰⁷	Head-to-Tail Oligomerization by Silylene-Tethered Sonogashira Coupling on Ag(111). <i>Angewandte Chemie</i> , 2021 , 133, 19750-19755	3.6	2
4 ⁰⁶	Rücktitelbild: Head-to-Tail Oligomerization by Silylene-Tethered Sonogashira Coupling on Ag(111) (Angew. Chem. 36/2021). <i>Angewandte Chemie</i> , 2021 , 133, 20224-20224	3.6	
4 ⁰⁵	Head-to-Tail Oligomerization by Silylene-Tethered Sonogashira Coupling on Ag(111). <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19598-19603	16.4	2
4 ⁰⁴	Influence of electrospray deposition on C molecular assemblies. <i>Beilstein Journal of Nanotechnology</i> , 2021 , 12, 552-558	3	0
4 ⁰³	Atomic-scale investigations of ultralow friction on crystal surfaces in ultrahigh vacuum 2021 , 71-84		
4 ⁰²	Rapid and Ultrasensitive Detection of Mutations and Genes Relevant to Antimicrobial Resistance in Bacteria. <i>Global Challenges</i> , 2021 , 5, 2000066	4.3	1

401	Experimental and numerical characterization of a radio-frequency plasma source with a DC-grounded electrode configuration using a quarter-wavelength filter. <i>Plasma Physics and Controlled Fusion</i> , 2021 , 63, 045005	2	4
400	RF discharge mirror cleaning for ITER optical diagnostics using 60 MHz very high frequency. <i>Fusion Engineering and Design</i> , 2021 , 163, 112140	1.7	6
399	Bidirectional reflectance measurement of tungsten samples to assess reflection model in WEST tokamak. <i>Review of Scientific Instruments</i> , 2021 , 92, 093501	1.7	2
398	Bottom-up Synthesis of Nitrogen-Doped Porous Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12568-12573	16.4	34
397	Low Friction at the Nanoscale of Hydrogenated Fullerene-Like Carbon Films. <i>Coatings</i> , 2020 , 10, 643	2.9	0
396	Three-dimensional graphene nanoribbons as a framework for molecular assembly and local probe chemistry. <i>Science Advances</i> , 2020 , 6, eaay8913	14.3	18
395	Giant thermal expansion of a two-dimensional supramolecular network triggered by alkyl chain motion. <i>Communications Materials</i> , 2020 , 1, 8	6	10
394	Plasma-activated catalytic formation of ammonia from N ₂ H ₂ : influence of temperature and noble gas addition. <i>Nuclear Fusion</i> , 2020 , 60, 016026	3.3	8
393	Quantitative determination of atomic buckling of silicene by atomic force microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 228-237	11.5	16
392	Sequential Bending and Twisting around C-C Single Bonds by Mechanical Lifting of a Pre-Adsorbed Polymer. <i>Nano Letters</i> , 2020 , 20, 652-657	11.5	6
391	Controlled switching of a single CuPc molecule on Cu(111) at low temperature. <i>Physical Review B</i> , 2019 , 100,	3.3	5
390	A Langevin equation that governs the irregular stick-slip nano-scale friction. <i>Scientific Reports</i> , 2019 , 9, 12505	4.9	3
389	Plasma cleaning of steam ingressed ITER first mirrors. <i>Nuclear Materials and Energy</i> , 2019 , 21, 100702	2.1	7
388	Majorana fermions in magnetic chains. <i>Progress in Particle and Nuclear Physics</i> , 2019 , 107, 1-19	10.6	15
387	Comparing a porphyrin- and a coumarin-based dye adsorbed on NiO(001). <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 874-881	3	3
386	Atomic Friction: Anisotropy and Asymmetry Effects. <i>Tribology Letters</i> , 2019 , 67, 1	2.8	10
385	Altering the Properties of Graphene on Cu(111) by Intercalation of Potassium Bromide. <i>ACS Nano</i> , 2019 , 13, 5485-5492	16.7	14
384	Effective determination of surface potential landscapes from metal-organic nanoporous network overlayers. <i>New Journal of Physics</i> , 2019 , 21, 053004	2.9	3

383	Conformations and cryo-force spectroscopy of spray-deposited single-strand DNA on gold. <i>Nature Communications</i> , 2019 , 10, 685	17.4	20
382	Plasma-assisted catalytic formation of ammonia in N-H plasma on a tungsten surface. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 16623-16633	3.6	15
381	Band Gap of Atomically Precise Graphene Nanoribbons as a Function of Ribbon Length and Termination. <i>ChemPhysChem</i> , 2019 , 20, 2348-2353	3.2	10
380	Deuterium as a cleaning gas for ITER first mirrors: experimental study on beryllium deposits from laboratory and JET-ILW. <i>Nuclear Fusion</i> , 2019 , 59, 096027	3.3	11
379	Mechanical dissipation via image potential states on a topological insulator surface. <i>Nature Materials</i> , 2019 , 18, 1201-1206	27	7
378	Chemical and morphological characterization of photoactive SiO _x films electrodeposited on Pt substrate. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 832, 311-320	4.1	1
377	Detachment Dynamics of Graphene Nanoribbons on Gold. <i>ACS Nano</i> , 2019 , 13, 689-697	16.7	9
376	Multiple heteroatom substitution to graphene nanoribbon. <i>Science Advances</i> , 2018 , 4, eaar7181	14.3	105
375	Electrospray deposition of structurally complex molecules revealed by atomic force microscopy. <i>Nanoscale</i> , 2018 , 10, 1337-1344	7.7	15
374	Stick-Slip Motion of ssDNA over Graphene. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 840-846	3.4	7
373	Mechanical dissipation from charge and spin transitions in oxygen-deficient SrTiO ₃ surfaces. <i>Nature Communications</i> , 2018 , 9, 2946	17.4	10
372	Quartz micro-balance and in situ XPS study of the adsorption and decomposition of ammonia on gold, tungsten, boron, beryllium and stainless steel surfaces. <i>Nuclear Fusion</i> , 2018 , 58, 106012	3.3	7
371	Diacetylene Linked Anthracene Oligomers Synthesized by One-Shot Homocoupling of Trimethylsilyl on Cu(111). <i>ACS Nano</i> , 2018 , 12, 8791-8797	16.7	28
370	A Two-Dimensional Polymer Synthesized at the Air/Water Interface. <i>Angewandte Chemie</i> , 2018 , 130, 10744-10748	3.6	7
369	A Two-Dimensional Polymer Synthesized at the Air/Water Interface. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10584-10588	16.4	44
368	Plasma cleaning of ITER edge Thomson scattering mock-up mirror in the EAST tokamak. <i>Nuclear Fusion</i> , 2018 , 58, 026008	3.3	13
367	Structural superlubricity and ultralow friction across the length scales. <i>Nature</i> , 2018 , 563, 485-492	50.4	201
366	Valence band behaviour of zirconium oxide, Photoelectron and Auger spectroscopy study. <i>Scientific Reports</i> , 2018 , 8, 16251	4.9	20

365	A robust AFM-based method for locally measuring the elasticity of samples. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 1-10	3	9
364	Transoid-to-Cisoid Conformation Changes of Single Molecules on Surfaces Triggered by Metal Coordination. <i>ACS Omega</i> , 2018 , 3, 12851-12856	3.9	4
363	Recent highlights in nanoscale and mesoscale friction. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 1995-2014	17	
362	Anchoring of a dye precursor on NiO(001) studied by non-contact atomic force microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 242-249	3	10
361	Hydroxyl-Induced Partial Charge States of Single Porphyrins on Titania Rutile. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3607-3614	3.8	20
360	Single-molecule manipulation experiments to explore friction and adhesion. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 113003	3	20
359	Atomic Scale Friction Phenomena 2017 , 519-548		4
358	Direct quantitative measurement of the C ¹³ O ¹⁸ O-H-C bond by atomic force microscopy. <i>Science Advances</i> , 2017 , 3, e1603258	14.3	63
357	Surface science at the PEARL beamline of the Swiss Light Source. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 354-366	2.4	43
356	Quantum Dots Embedded in Graphene Nanoribbons by Chemical Substitution. <i>Nano Letters</i> , 2017 , 17, 50-56	11.5	43
355	Thermally induced anchoring of a zinc-carboxyphenylporphyrin on rutile TiO ₂ (110). <i>Journal of Chemical Physics</i> , 2017 , 146, 184704	3.9	10
354	In situ cleaning of diagnostic first mirrors: an experimental comparison between plasma and laser cleaning in ITER-relevant conditions. <i>Nuclear Fusion</i> , 2017 , 57, 046014	3.3	11
353	Surface chemistry of rare-earth oxide surfaces at ambient conditions: reactions with water and hydrocarbons. <i>Scientific Reports</i> , 2017 , 7, 43369	4.9	49
352	Precise engineering of quantum dot array coupling through their barrier widths. <i>Nature Communications</i> , 2017 , 8, 787	17.4	41
351	Ordering of Zn-centered porphyrin and phthalocyanine on TiO(011): STM studies. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 99-107	3	12
350	Investigation and plasma cleaning of first mirrors coated with relevant ITER contaminants: beryllium and tungsten. <i>Nuclear Fusion</i> , 2017 , 57, 086019	3.3	13
349	Donor-Acceptor Properties of a Single-Molecule Altered by On-Surface Complex Formation. <i>ACS Nano</i> , 2017 , 11, 8413-8420	16.7	22
348	TCV mirrors cleaned by plasma. <i>Nuclear Materials and Energy</i> , 2017 , 12, 605-610	2.1	2

347	Competing Annulene and Radialene Structures in a Single Anti-Aromatic Molecule Studied by High-Resolution Atomic Force Microscopy. <i>ACS Nano</i> , 2017 , 11, 8122-8130	16.7	40
346	Design and Characterization of an Electrically Powered Single Molecule on Gold. <i>ACS Nano</i> , 2017 , 11, 9930-9940	16.7	37
345	Atomic Scale Friction Phenomena. <i>Springer Handbooks</i> , 2017 , 987-1011	1.3	
344	Multiscaling behavior of atomic-scale friction. <i>Physical Review E</i> , 2017 , 95, 062802	2.4	5
343	Spectroscopic characterization and photoactivity of SiO _x -based films electrochemically grown on Cu surfaces. <i>Journal of Applied Electrochemistry</i> , 2017 , 47, 917-930	2.6	2
342	Plasma cleaning of ITER first mirrors. <i>Physica Scripta</i> , 2017 , T170, 014047	2.6	21
341	Nanostructuring of an alkali halide surface by low temperature plasma exposure. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 16251-16256	3.6	1
340	Water interaction with hydrogenated and oxidized detonation nanodiamonds [Microscopic and spectroscopic analyses. <i>Diamond and Related Materials</i> , 2016 , 63, 97-102	3.5	48
339	Organometallic Bonding in an Ullmann-Type On-Surface Chemical Reaction Studied by High-Resolution Atomic Force Microscopy. <i>Small</i> , 2016 , 12, 5303-5311	11	42
338	Thermal control of sequential on-surface transformation of a hydrocarbon molecule on a copper surface. <i>Nature Communications</i> , 2016 , 7, 12711	17.4	63
337	Van der Waals interactions and the limits of isolated atom models at interfaces. <i>Nature Communications</i> , 2016 , 7, 11559	17.4	79
336	Dopant imaging of power semiconductor device cross sections. <i>Microelectronic Engineering</i> , 2016 , 160, 18-21	2.5	7
335	Superlubricity of graphene nanoribbons on gold surfaces. <i>Science</i> , 2016 , 351, 957-61	33.3	227
334	Electrodeposition and Characterization of SiO _x Films Photoactive in Organic Solution. <i>Journal of the Electrochemical Society</i> , 2016 , 163, D100-D106	3.9	3
333	Single-Molecule Tribology: Force Microscopy Manipulation of a Porphyrin Derivative on a Copper Surface. <i>ACS Nano</i> , 2016 , 10, 713-22	16.7	32
332	Optical Coatings as Mirrors for Optical Diagnostics. <i>Journal of Coating Science and Technology</i> , 2016 , 2, 72-78	1	15
331	From Bachelor to PhD: The Swiss Nanoscience Institute at the University of Basel Offers Excellent Interdisciplinary Education at All Levels. <i>Science Policy Reports</i> , 2016 , 351-373		1
330	Plasma cleaning of beryllium coated mirrors. <i>Physica Scripta</i> , 2016 , T167, 014069	2.6	18

329	Scanning probe microscopy studies on the adsorption of selected molecular dyes on titania. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 1642-1653	3	14
328	Piezoresistive Membrane Surface Stress Sensors for Characterization of Breath Samples of Head and Neck Cancer Patients. <i>Sensors</i> , 2016 , 16,	3.8	10
327	ITER first mirror mock-ups exposed in Magnum-PSI. <i>Nuclear Fusion</i> , 2016 , 56, 066015	3.3	3
326	Configuring Electronic States in an Atomically Precise Array of Quantum Boxes. <i>Small</i> , 2016 , 12, 3757-63	11	11
325	Preface to the special section on nano- and mesoscale friction. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 130301	1.8	
324	Probing atomic structure and Majorana wavefunctions in mono-atomic Fe chains on superconducting Pb surface. <i>Npj Quantum Information</i> , 2016 , 2,	8.6	213
323	Work function of few layer graphene covered nickel thin films measured with Kelvin probe force microscopy. <i>Applied Physics Letters</i> , 2016 , 108, 041602	3.4	6
322	Cleaning of first mirrors in ITER by means of radio frequency discharges. <i>Review of Scientific Instruments</i> , 2016 , 87, 11D439	1.7	27
321	Morphology Change of C60 Islands on Organic Crystals Observed by Atomic Force Microscopy. <i>ACS Nano</i> , 2016 , 10, 5782-8	16.7	7
320	Self-assembling of Zn porphyrins on a (110) face of rutile TiO ₂ —the anchoring role of carboxyl groups. <i>Applied Surface Science</i> , 2016 , 379, 277-281	6.7	33
319	Fast Diagnostics of BRAF Mutations in Biopsies from Malignant Melanoma. <i>Nano Letters</i> , 2016 , 16, 5373-7	11.5	7
318	Interplay of weak interactions in the atom-by-atom condensation of xenon within quantum boxes. <i>Nature Communications</i> , 2015 , 6, 6071	17.4	25
317	Device Simulations on Novel High Channel Mobility 4H-SiC Trench MOSFETs and Their Fabrication Processes. <i>Microelectronic Engineering</i> , 2015 , 145, 166-169	2.5	4
316	Atomic-Scale Friction Measurements in Ultra-High Vacuum. <i>Nanoscience and Technology</i> , 2015 , 95-114	0.6	0
315	Non-contact Friction. <i>Nanoscience and Technology</i> , 2015 , 93-110	0.6	
314	Two-Dimensional Carrier Profiling on Lightly Doped n-Type 4H-SiC Epitaxially Grown Layers. <i>Materials Science Forum</i> , 2015 , 821-823, 269-272	0.4	1
313	Towards plasma cleaning of ITER first mirrors. <i>Nuclear Fusion</i> , 2015 , 55, 063020	3.3	36
312	Atomically controlled substitutional boron-doping of graphene nanoribbons. <i>Nature Communications</i> , 2015 , 6, 8098	17.4	326

311	Role of a Carboxyl Group in the Adsorption of Zn Porphyrins on TiO ₂ (011)-2 \times 1 Surface. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21561-21566	3.8	20
310	Characterization of individual molecular adsorption geometries by atomic force microscopy: Cu-TCPP on rutile TiO ₂ (110). <i>Journal of Chemical Physics</i> , 2015 , 143, 094202	3.9	23
309	Plasma cleaning of ITER First Mirrors in magnetic field. <i>Journal of Nuclear Materials</i> , 2015 , 463, 940-943	3.3	28
308	Noncontact Atomic Force Microscope Dissipation Reveals a Central Peak of SrTiO ₃ Structural Phase Transition. <i>Physical Review Letters</i> , 2015 , 115, 046101	7.4	15
307	Chain-like structure elements in Ni ₄₀ Ta ₆₀ metallic glasses observed by scanning tunneling microscopy. <i>Scientific Reports</i> , 2015 , 5, 13143	4.9	9
306	Ordered heteromolecular overlayers formed by metal phthalocyanines and porphyrins on rutile titanium dioxide surface studied at room temperature. <i>Journal of Chemical Physics</i> , 2015 , 143, 224702	3.9	14
305	Transformations of PTCDA structures on rutile TiO ₂ induced by thermal annealing and intermolecular forces. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1498-507	3	8
304	Electrospray deposition of organic molecules on bulk insulator surfaces. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1927-34	3	12
303	Large area scanning probe microscope in ultra-high vacuum demonstrated for electrostatic force measurements on high-voltage devices. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 2485-97	3	3
302	Extended halogen bonding between fully fluorinated aromatic molecules. <i>ACS Nano</i> , 2015 , 9, 2574-83	16.7	99
301	Physics. Controlling friction atom by atom. <i>Science</i> , 2015 , 348, 1089	33.3	6
300	Improving the Design of the Shield for the Electric Field in SiC-Based Schottky-Rectifiers and Ion-Implantation Cascades by SPM Dopant-Imaging. <i>Microelectronic Engineering</i> , 2015 , 148, 1-4	2.5	4
299	Impact of photocatalysis on carotenoic acid dye-sensitized solar cells 2015 , 2,		2
298	Spectroscopic ellipsometry on Si/SiO ₂ /graphene tri-layer system exposed to downstream hydrogen plasma: Effects of hydrogenation and chemical sputtering. <i>Applied Physics Letters</i> , 2015 , 106, 011904	3.4	8
297	Dissipation at Large Separations. <i>Nanoscience and Technology</i> , 2015 , 609-627	0.6	
296	Single Molecule Force Spectroscopy. <i>Nanoscience and Technology</i> , 2015 , 195-222	0.6	
295	Giant frictional dissipation peaks and charge-density-wave slips at the NbSe ₂ surface. <i>Nature Materials</i> , 2014 , 13, 173-7	27	39
294	Hydrogen-induced buckling of gold films. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 025302	3	12

293	Probing the spatial and momentum distribution of confined surface states in a metal coordination network. <i>Chemical Communications</i> , 2014 , 50, 12289-92	5.8	26
292	Atom manipulation on an insulating surface at room temperature. <i>Nature Communications</i> , 2014 , 5, 4403-7	17.4	42
291	Carbon nanotube growth on AlN support: Comparison between Ni and Fe chemical states and morphology. <i>Chemical Physics Letters</i> , 2014 , 609, 82-87	2.5	5
290	Morphological changes of tungsten surfaces by low-flux helium plasma treatment and helium incorporation via magnetron sputtering. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11609-16	9.5	30
289	Superlubricity on the nanometer scale. <i>Friction</i> , 2014 , 2, 106-113	5.6	24
288	Deuterium plasma exposure of rhodium films: Role of morphology and crystal structure. <i>Journal of Nuclear Materials</i> , 2014 , 446, 106-112	3.3	2
287	Graphene synthesis via thermal polymerization of aromatic quinone molecules. <i>ACS Nano</i> , 2014 , 8, 5932-6	16.7	14
286	Picosecond and Nanosecond Laser Ablation of Mixed Tungsten/Aluminum Films. <i>Fusion Science and Technology</i> , 2014 , 66, 308-314	1.1	3
285	Exploring the retention properties of CaF ₂ nanoparticles as possible additives for dental care application with tapping-mode atomic force microscope in liquid. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 36-43	3	6
284	Friction force microscopy studies on SiO ₂ supported pristine and hydrogenated graphene. <i>Applied Physics Letters</i> , 2014 , 104, 041910	3.4	24
283	Lateral vibration effects in atomic-scale friction. <i>Applied Physics Letters</i> , 2014 , 104, 083103	3.4	18
282	Quantifying the atomic-level mechanics of single long physisorbed molecular chains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3968-72	11.5	53
281	Laser-assisted cleaning of beryllium-containing mirror samples from JET and PISCES-B. <i>Fusion Engineering and Design</i> , 2014 , 89, 122-130	1.7	21
280	Combined SIMS-SPM instrument for high sensitivity and high-resolution elemental 3D analysis. <i>Surface and Interface Analysis</i> , 2013 , 45, 513-516	1.5	27
279	Laser damage thresholds of ITER mirror materials and first results on in situ laser cleaning of stainless steel mirrors. <i>Fusion Engineering and Design</i> , 2013 , 88, 388-399	1.7	18
278	Performances of Rh and Mo mirrors under JET exposure. <i>Journal of Nuclear Materials</i> , 2013 , 438, S1187-S1191	5.1	10
277	In situ evaluation of the reflectivity of molybdenum and rhodium coatings in an ITER-like mixed environment. <i>Journal of Nuclear Materials</i> , 2013 , 438, S852-S855	3.3	18
276	Deuterium plasma exposure on rhodium: Reflectivity monitoring and evidence of subsurface deuteride formation. <i>Applied Surface Science</i> , 2013 , 273, 94-100	6.7	6

275	Local detection of nitrogen-vacancy centers in a nanodiamond monolayer. <i>Nano Letters</i> , 2013 , 13, 5803-7115	11.5	18
274	Roughening and reflection performance of molybdenum coatings exposed to a high-flux deuterium plasma. <i>Nuclear Fusion</i> , 2013 , 53, 113013	3.3	9
273	Obtaining detailed structural information about supramolecular systems on surfaces by combining high-resolution force microscopy with ab initio calculations. <i>ACS Nano</i> , 2013 , 7, 9098-105	16.7	50
272	Can aluminium or magnesium be a surrogate for beryllium: A critical investigation of their chemistry. <i>Fusion Engineering and Design</i> , 2013 , 88, 1718-1721	1.7	43
271	Hydrogen plasma microlithography of graphene supported on a Si/SiO ₂ substrate. <i>Applied Physics Letters</i> , 2013 , 102, 071602	3.4	7
270	Elastic response of graphene nanodomes. <i>ACS Nano</i> , 2013 , 7, 2927-34	16.7	29
269	Energy loss triggered by atomic-scale lateral force. <i>Physical Review Letters</i> , 2013 , 110, 203203	7.4	10
268	Synergistic effects of hydrogen plasma exposure, pulsed laser heating and temperature on rhodium surfaces. <i>Journal of Nuclear Materials</i> , 2013 , 432, 388-394	3.3	2
267	Systematic study of the dolomite (104) surface by bimodal dynamic force microscopy in ultra-high vacuum. <i>Nanotechnology</i> , 2013 , 24, 055702	3.4	4
266	Kelvin probe force microscopy of nanocrystalline TiO ₂ photoelectrodes. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 418-28	3	39
265	Combined SIMS-SPM Instrument for High Sensitivity and High Resolution Elemental 3D Analysis. <i>Microscopy and Microanalysis</i> , 2013 , 19, 668-669	0.5	
264	Multiscale approach for simulations of Kelvin probe force microscopy with atomic resolution. <i>Physical Review B</i> , 2012 , 86,	3.3	54
263	Nanocomposites of carbon nanotubes embedded in a (Ti,Al)N coated film. <i>Surface and Coatings Technology</i> , 2012 , 212, 223-228	4.4	5
262	Two-dimensional nanodiamond monolayers deposited by combined ultracentrifugation and electrophoresis techniques. <i>Applied Physics Letters</i> , 2012 , 101, 253111	3.4	15
261	High-resolution imaging of C ₆₀ molecules using tuning-fork-based non-contact atomic force microscopy. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 084005	1.8	24
260	. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 692-696	1.3	16
259	Directed rotations of single porphyrin molecules controlled by localized force spectroscopy. <i>ACS Nano</i> , 2012 , 6, 6318-24	16.7	38
258	Contrast inversion of the h-BN nanomesh investigated by nc-AFM and Kelvin probe force microscopy. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 314212	1.8	7

257	Interplay of the tip-sample junction stability and image contrast reversal on a Cu(111) surface revealed by the 3D force field. <i>Nanotechnology</i> , 2012 , 23, 045705	3-4	22
256	Pure hydrogen low-temperature plasma exposure of HOPG and graphene: Graphane formation?. <i>Beilstein Journal of Nanotechnology</i> , 2012 , 3, 852-9	3	27
255	Three-dimensional dynamic force spectroscopy measurements on KBr(001): atomic deformations at small tip-sample separations. <i>Nanotechnology</i> , 2012 , 23, 055401	3-4	23
254	Spectroscopic reflectometry of mirror surfaces during plasma exposure. <i>Review of Scientific Instruments</i> , 2012 , 83, 013509	1-7	20
253	Rapid reconstruction of a strong nonlinear property by a multiple lock-in technique. <i>Physical Review B</i> , 2012 , 85,	3-3	6
252	Measuring electric field induced subpicometer displacement of step edge ions. <i>Physical Review Letters</i> , 2012 , 109, 146101	7-4	14
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