Stephan Rauschenbach

List of Publications by Year
in descending order

44 papers	2,095 citations	236925 25 h-index	254184 43 g-index
48 all docs	48 docs citations	48 times ranked	2750 citing authors

#	Article	IF	Citations
1	Polymer Nanofibers via Nozzle-Free Centrifugal Spinning. Nano Letters, 2008, 8, 1187-1191.	9.1	193
2	Electrospray Ion Beam Deposition of Clusters and Biomolecules. Small, 2006, 2, 540-547.	10.0	148
3	Spin and Orbital Magnetic Moment Anisotropies of Monodispersed Bis(Phthalocyaninato)Terbium on a Copper Surface. Journal of the American Chemical Society, 2010, 132, 11900-11901.	13.7	147
4	The Quantum Magnetism of Individual Manganese-12-Acetate Molecular Magnets Anchored at Surfaces. Nano Letters, 2012, 12, 518-521.	9.1	146
5	The classical and quantum dynamics of molecular spins on graphene. Nature Materials, 2016, 15, 164-168.	27.5	109
6	A Close Look at Proteins: Submolecular Resolution of Two- and Three-Dimensionally Folded Cytochrome c at Surfaces. Nano Letters, 2012, 12, 2452-2458.	9.1	105
7	Electrospray Ion Beam Deposition: Soft-Landing and Fragmentation of Functional Molecules at Solid Surfaces. ACS Nano, 2009, 3, 2901-2910.	14.6	92
8	Imaging proteins at the single-molecule level. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1474-1479.	7.1	86
9	Imaging single glycans. Nature, 2020, 582, 375-378.	27.8	72
10	Towards the Isomerâ€Specific Synthesis of Higher Fullerenes and Buckybowls by the Surfaceâ€Catalyzed Cyclodehydrogenation of Aromatic Precursors. Angewandte Chemie - International Edition, 2010, 49, 9392-9396.	13.8	69
11	Atomic-Scale Observation of Multiconformational Binding and Energy Level Alignment of Ruthenium-Based Photosensitizers on TiO₂ Anatase. Nano Letters, 2014, 14, 563-569.	9.1	67
12	Mass Spectrometry as a Preparative Tool for the Surface Science of Large Molecules. Annual Review of Analytical Chemistry, 2016, 9, 473-498.	5.4	67
13	Two-dimensional honeycomb network through sequence-controlled self-assembly of oligopeptides. Nature Communications, 2016, 7, 10335.	12.8	59
14	A hydrodynamically optimized nano-electrospray ionization source and vacuum interface. Analyst, The, 2014, 139, 1856.	3.5	45
15	Active Conformation Control of Unfolded Proteins by Hyperthermal Collision with a Metal Surface. Nano Letters, 2014, 14, 5609-5615.	9.1	42
16	Toward Mechanical Switching of Surface-Adsorbed [2]Catenane by in Situ Copper Complexation. Journal of the American Chemical Society, 2007, 129, 15662-15667.	13.7	41
17	Exploring the Molecular Conformation Space by Soft Moleculeâ€“Surface Collision. Journal of the American Chemical Society, 2020, 142, 21420-21427.	13.7	41
18	Characterization of a silicon-on-insulator based thin film resistor in electrolyte solutions for sensor applications. Journal of Applied Physics, 2004, 95, 3811-3815.	2.5	40

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19	Silicon-on-Insulator Based Thin-Film Resistor for Chemical and Biological Sensor Applications. ChemPhysChem, 2003, 4, 1104-1106.	2.1	36
20	Grafting Crown Ether Alkali Hostâ^'Guest Complexes at Surfaces by Electrospray Ion Beam Deposition. Journal of Physical Chemistry C, 2010, 114, 17768-17772.	3.1	36
21	Two-Dimensional Folding of Polypeptides into Molecular Nanostructures at Surfaces. ACS Nano, 2017, 11, 2420-2427.	14.6	35
22	Chemical Modification of Graphene via Hyperthermal Molecular Reaction. Journal of the American Chemical Society, 2014, 136, 13482-13485.	13.7	30
23	Carbohydrate Selfâ€Assembly at Surfaces: STM Imaging of Sucrose Conformation and Ordering on Cu(100). Angewandte Chemie - International Edition, 2019, 58, 8336-8340.	13.8	29
24	Conical octopole ion guide: Design, focusing, and its application to the deposition of low energetic clusters. Review of Scientific Instruments, 2006, 77, 013302.	1.3	28
25	Identifying the origin of local flexibility in a carbohydrate polymer. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	27
26	Spontaneous Charge Separation and Sublimation Processes are Ubiquitous in Nature and in Ionization Processes in Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2018, 29, 304-315.	2.8	26
27	Crystalline Inverted Membranes Grown on Surfaces by Electrospray Ion Beam Deposition in Vacuum. Advanced Materials, 2012, 24, 2761-2767.	21.0	25
28	Soft-landing electrospray ion beam deposition of sensitive oligoynes on surfaces in vacuum. International Journal of Mass Spectrometry, 2015, 377, 228-234.	1.5	25
29	Bottom up fabrication of (9, 0) zigzag and (6, 6) armchair carbon nanotube end-caps on the Rh(1 1 1) surface. Carbon, 2015, 84, 444-447.	10.3	23
30	Electron microscopy of polyoxometalate ions on graphene by electrospray ion beam deposition. Nanoscale, 2018, 10, 4952-4961.	5.6	23
31	Fast Molecular Compression by a Hyperthermal Collision Gives Bond-Selective Mechanochemistry. Physical Review Letters, 2021, 126, 056001.	7.8	22
32	Substrate-Selective Morphology of Cesium Iodide Clusters on Graphene. ACS Nano, 2020, 14, 4626-4635.	14.6	20
33	Gas Flow and Ion Transfer in Heated ESI Capillary Interfaces. Journal of the American Society for Mass Spectrometry, 2018, 29, 761-773.	2.8	17
34	Spatially resolved photocurrents in graphene nanoribbon devices. Applied Physics Letters, 2013, 102, 043106.	3.3	15
35	Polymorphism in carbohydrate self-assembly at surfaces: STM imaging and theoretical modelling of trehalose on Cu(100). RSC Advances, 2019, 9, 35813-35819.	3.6	15
36	Self-assembly of bis(phthalocyaninato)terbium on metal surfaces. Physica Scripta, 2015, 90, 098003.	2.5	14

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37	Low-energy electron holography imaging of conformational variability of single-antibody molecules from electrospray ion beam deposition. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	14
38	Chemical Analysis of Complex Surface-Adsorbed Molecules and Their Reactions by Means of Cluster-Induced Desorption/Ionization Mass Spectrometry. Analytical Chemistry, 2018, 90, 3328-3334.	6.5	13
39	Carbohydrate Selfâ€Assembly at Surfaces: STM Imaging of Sucrose Conformation and Ordering on Cu(100). Angewandte Chemie, 2019, 131, 8424-8428.	2.0	12
40	Transfer conditions and transmission bias in capillaries of vacuum interfaces. International Journal of Mass Spectrometry, 2020, 447, 116239.	1.5	8
41	Growth mechanism of solution-deposited layers of the charge-transfer salt CuDDQ. Physica Status Solidi (B): Basic Research, 2007, 244, 4346-4350.	1.5	5
42	Catalyzing Bondâ€Dissociation in Graphene via Alkaliâ€Iodide Molecules. Small, 2021, 17, e2102037.	10.0	1
43	Carbohydrate Selfâ€Assembly at Surfaces: STM Imaging of Sucrose Conformation and Ordering on Cu(100). Angewandte Chemie, 2019, 131, 8686.	2.0	0
44	Material and Charge Transport of Large Organic Salt Clusters and Nanoparticles in Electrospray Ion Beam Deposition. Journal of the American Society for Mass Spectrometry, 2021, 32, 1648-1658.	2.8	0