

Stephan Rauschenbach

List of Publications by Year in descending order

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44
papers

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citations

236833

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48
all docs

48
docs citations

48
times ranked

2750
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Molecular Compression by a Hyperthermal Collision Gives Bond-Selective Mechanochemistry. <i>Physical Review Letters</i> , 2021, 126, 056001.	2.9	22
2	Material and Charge Transport of Large Organic Salt Clusters and Nanoparticles in Electrospray Ion Beam Deposition. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1648-1658.	1.2	0
3	Identifying the origin of local flexibility in a carbohydrate polymer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	27
4	Catalyzing Bond Dissociation in Graphene via Alkali Iodide Molecules. <i>Small</i> , 2021, 17, e2102037.	5.2	1
5	Low-energy electron holography imaging of conformational variability of single-antibody molecules from electrospray ion beam deposition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	14
6	Transfer conditions and transmission bias in capillaries of vacuum interfaces. <i>International Journal of Mass Spectrometry</i> , 2020, 447, 116239.	0.7	8
7	Exploring the Molecular Conformation Space by Soft Molecule-Surface Collision. <i>Journal of the American Chemical Society</i> , 2020, 142, 21420-21427.	6.6	41
8	Imaging single glycans. <i>Nature</i> , 2020, 582, 375-378.	13.7	72
9	Substrate-Selective Morphology of Cesium Iodide Clusters on Graphene. <i>ACS Nano</i> , 2020, 14, 4626-4635.	7.3	20
10	Carbohydrate Self-Assembly at Surfaces: STM Imaging of Sucrose Conformation and Ordering on Cu(100). <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8336-8340.	7.2	29
11	Carbohydrate Self-Assembly at Surfaces: STM Imaging of Sucrose Conformation and Ordering on Cu(100). <i>Angewandte Chemie</i> , 2019, 131, 8424-8428.	1.6	12
12	Carbohydrate Self-Assembly at Surfaces: STM Imaging of Sucrose Conformation and Ordering on Cu(100). <i>Angewandte Chemie</i> , 2019, 131, 8686.	1.6	0
13	Polymorphism in carbohydrate self-assembly at surfaces: STM imaging and theoretical modelling of trehalose on Cu(100). <i>RSC Advances</i> , 2019, 9, 35813-35819.	1.7	15
14	Gas Flow and Ion Transfer in Heated ESI Capillary Interfaces. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 761-773.	1.2	17
15	Electron microscopy of polyoxometalate ions on graphene by electrospray ion beam deposition. <i>Nanoscale</i> , 2018, 10, 4952-4961.	2.8	23
16	Chemical Analysis of Complex Surface-Adsorbed Molecules and Their Reactions by Means of Cluster-Induced Desorption/Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 3328-3334.	3.2	13
17	Spontaneous Charge Separation and Sublimation Processes are Ubiquitous in Nature and in Ionization Processes in Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 304-315.	1.2	26
18	Imaging proteins at the single-molecule level. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1474-1479.	3.3	86

#	ARTICLE	IF	CITATIONS
19	Two-Dimensional Folding of Polypeptides into Molecular Nanostructures at Surfaces. ACS Nano, 2017, 11, 2420-2427.	7.3	35
20	Mass Spectrometry as a Preparative Tool for the Surface Science of Large Molecules. Annual Review of Analytical Chemistry, 2016, 9, 473-498.	2.8	67
21	Two-dimensional honeycomb network through sequence-controlled self-assembly of oligopeptides. Nature Communications, 2016, 7, 10335.	5.8	59
22	The classical and quantum dynamics of molecular spins on graphene. Nature Materials, 2016, 15, 164-168.	13.3	109
23	Soft-landing electrospray ion beam deposition of sensitive oligoynes on surfaces in vacuum. International Journal of Mass Spectrometry, 2015, 377, 228-234.	0.7	25
24	Self-assembly of bis(phthalocyaninato)terbium on metal surfaces. Physica Scripta, 2015, 90, 098003.	1.2	14
25	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.	5.4	23
26	A hydrodynamically optimized nano-electrospray ionization source and vacuum interface. Analyst, The, 2014, 139, 1856.	1.7	45
27	Active Conformation Control of Unfolded Proteins by Hyperthermal Collision with a Metal Surface. Nano Letters, 2014, 14, 5609-5615.	4.5	42
28	Chemical Modification of Graphene via Hyperthermal Molecular Reaction. Journal of the American Chemical Society, 2014, 136, 13482-13485.	6.6	30
29	Atomic-Scale Observation of Multiconformational Binding and Energy Level Alignment of Ruthenium-Based Photosensitizers on TiO ₂ Anatase. Nano Letters, 2014, 14, 563-569.	4.5	67
30	Spatially resolved photocurrents in graphene nanoribbon devices. Applied Physics Letters, 2013, 102, 043106.	1.5	15
31	The Quantum Magnetism of Individual Manganese-12-Acetate Molecular Magnets Anchored at Surfaces. Nano Letters, 2012, 12, 518-521.	4.5	146
32	A Close Look at Proteins: Submolecular Resolution of Two- and Three-Dimensionally Folded Cytochrome c at Surfaces. Nano Letters, 2012, 12, 2452-2458.	4.5	105
33	Crystalline Inverted Membranes Grown on Surfaces by Electrospray Ion Beam Deposition in Vacuum. Advanced Materials, 2012, 24, 2761-2767.	11.1	25
34	Towards the Isomer-Specific Synthesis of Higher Fullerenes and Buckybowls by the Surface-Catalyzed Cyclodehydrogenation of Aromatic Precursors. Angewandte Chemie - International Edition, 2010, 49, 9392-9396.	7.2	69
35	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.	6.6	147
36	Grafting Crown Ether Alkali Host-Guest Complexes at Surfaces by Electrospray Ion Beam Deposition. Journal of Physical Chemistry C, 2010, 114, 17768-17772.	1.5	36

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37	Electrospray Ion Beam Deposition: Soft-Landing and Fragmentation of Functional Molecules at Solid Surfaces. ACS Nano, 2009, 3, 2901-2910.	7.3	92
38	Polymer Nanofibers via Nozzle-Free Centrifugal Spinning. Nano Letters, 2008, 8, 1187-1191.	4.5	193
39	Toward Mechanical Switching of Surface-Adsorbed [2]Catenane by in Situ Copper Complexation. Journal of the American Chemical Society, 2007, 129, 15662-15667.	6.6	41
40	Growth mechanism of solution-deposited layers of the charge-transfer salt CuDDQ. Physica Status Solidi (B): Basic Research, 2007, 244, 4346-4350.	0.7	5
41	Electrospray Ion Beam Deposition of Clusters and Biomolecules. Small, 2006, 2, 540-547.	5.2	148
42	Conical octopole ion guide: Design, focusing, and its application to the deposition of low energetic clusters. Review of Scientific Instruments, 2006, 77, 013302.	0.6	28
43	Characterization of a silicon-on-insulator based thin film resistor in electrolyte solutions for sensor applications. Journal of Applied Physics, 2004, 95, 3811-3815.	1.1	40
44	Silicon-on-Insulator Based Thin-Film Resistor for Chemical and Biological Sensor Applications. ChemPhysChem, 2003, 4, 1104-1106.	1.0	36