

Bruno Schuler

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

3,775
citations

186209

28
h-index

243529

44
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47
all docs

47
docs citations

47
times ranked

3902
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Addressing Long-Standing Chemical Challenges by AFM with Functionalized Tips. <i>Advances in Atom and Single Molecule Machines</i> , 2018, , 209-227. | 0.0 | 2 |
| 20 | Understanding the Effects of Sample Preparation on the Chemical Structures of Petroleum Imaged with Noncontact Atomic Force Microscopy. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 15935-15941. | 1.8 | 38 |
| 21 | Multimodal spectromicroscopy of monolayer WS ₂ enabled by ultra-clean van der Waals epitaxy. <i>2D Materials</i> , 2018, 5, 045010. | 2.0 | 40 |
| 22 | Atomic Force Microscopy Identifying Fuel Pyrolysis Products and Directing the Synthesis of Analytical Standards. <i>Journal of the American Chemical Society</i> , 2018, 140, 8156-8161. | 6.6 | 27 |
| 23 | Heavy Oil Based Mixtures of Different Origins and Treatments Studied by Atomic Force Microscopy. <i>Energy & Fuels</i> , 2017, 31, 6856-6861. | 2.5 | 206 |
| 24 | Characterizing aliphatic moieties in hydrocarbons with atomic force microscopy. <i>Chemical Science</i> , 2017, 8, 2315-2320. | 3.7 | 102 |
| 25 | Identical Binding Energies and Work Functions for Distinct Adsorption Structures: Olympicones on the Cu(111) Surface. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1022-1027. | 2.1 | 22 |
| 26 | Reversible Bergman cyclization by atomic manipulation. <i>Nature Chemistry</i> , 2016, 8, 220-224. | 6.6 | 169 |
| 27 | The Electric Field of CO Tips and Its Relevance for Atomic Force Microscopy. <i>Nano Letters</i> , 2016, 16, 1974-1980. | 4.5 | 79 |
| 28 | Effect of electron-phonon interaction on the formation of one-dimensional electronic states in coupled Cl vacancies. <i>Physical Review B</i> , 2015, 91, . | 1.1 | 14 |
| 29 | The Synthesis and STM/AFM Imaging of C_{50} Olympicones™ Benzo[<i>a</i>]pyrenes. <i>Chemistry - A European Journal</i> , 2015, 21, 2011-2018. | 1.7 | 39 |
| 30 | On-surface generation and imaging of arynes by atomic force microscopy. <i>Nature Chemistry</i> , 2015, 7, 623-628. | 6.6 | 176 |
| 31 | Toggling the Local Electric Field with an Embedded Adatom Switch. <i>Nano Letters</i> , 2015, 15, 5564-5568. | 4.5 | 5 |
| 32 | Unraveling the Molecular Structures of Asphaltenes by Atomic Force Microscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 9870-9876. | 6.6 | 545 |
| 33 | Atomic Resolution on Molecules with Functionalized Tips. <i>Nanoscience and Technology</i> , 2015, , 223-246. | 1.5 | 5 |
| 34 | Chapter 13. Prospects and Challenges in Molecular Structure Identification by Atomic Force Microscopy. , 2015, , 306-320. | | 2 |
| 35 | Investigating atomic contrast in atomic force microscopy and Kelvin probe force microscopy on ionic systems using functionalized tips. <i>Physical Review B</i> , 2014, 90, . | 1.1 | 59 |
| 36 | Contrast Formation in Kelvin Probe Force Microscopy of Single π -Conjugated Molecules. <i>Nano Letters</i> , 2014, 14, 3342-3346. | 4.5 | 77 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | From Perylene to a 22â€­Ring Aromatic Hydrocarbon in Oneâ€­Pot. Angewandte Chemie - International Edition, 2014, 53, 9004-9006. | 7.2 | 94 |
| 39 | Adsorption Geometry Determination of Single Molecules by Atomic Force Microscopy. Physical Review Letters, 2013, 111, 106103. | 2.9 | 162 |
| 40 | Chemische Bindungen visualisiert. Physik in Unserer Zeit, 2013, 44, 6-7. | 0.0 | 3 |
| 41 | Different tips for high-resolution atomic force microscopy and scanning tunneling microscopy of single molecules. Applied Physics Letters, 2013, 102, . | 1.5 | 141 |
| 42 | A Combined Atomic Force Microscopy and Computational Approach for the Structural Elucidation of Breitfussin A and B: Highly Modified Halogenated Dipeptides from <i>Thuiaria breitfussi</i> . Angewandte Chemie - International Edition, 2012, 51, 12238-12241. | 7.2 | 92 |
| 43 | Bond-Order Discrimination by Atomic Force Microscopy. Science, 2012, 337, 1326-1329. | 6.0 | 457 |