

Anne-Sophie Duwez

List of Publications by Year in descending order

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67
papers

2,264
citations

218381

26
h-index

223531

46
g-index

70
all docs

70
docs citations

70
times ranked

3150
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploiting electron spectroscopies to probe the structure and organization of self-assembled monolayers: a review. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 134, 97-138.	0.8	187
2	Synthesis of Pyrene-Containing Polymers and Noncovalent Sidewall Functionalization of Multiwalled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2004, 16, 4005-4011.	3.2	163
3	Microstructure and thermo-responsive behavior of poly(N-isopropylacrylamide) brushes grafted in nanopores of track-etched membranes. <i>Journal of Membrane Science</i> , 2008, 308, 75-86.	4.1	129
4	Dithioesters and Trithiocarbonates as Anchoring Groups for the "Grafting-To" Approach. <i>Macromolecules</i> , 2006, 39, 2729-2731.	2.2	118
5	A single synthetic small molecule that generates force against a load. <i>Nature Nanotechnology</i> , 2011, 6, 553-557.	15.6	103
6	Nanoporous Thin Films from Self-Assembled Metallo- Supramolecular Block Copolymers. <i>Advanced Materials</i> , 2005, 17, 1162-1165.	11.1	97
7	Mechanochemistry: targeted delivery of single molecules. <i>Nature Nanotechnology</i> , 2006, 1, 122-125.	15.6	95
8	Kinetics of Exchange of Alkanethiol Monolayers Self-Assembled on Polycrystalline Gold. <i>Langmuir</i> , 2005, 21, 6825-6829.	1.6	77
9	All-in-one strategy for the fabrication of antimicrobial biomimetic films on stainless steel. <i>Journal of Materials Chemistry</i> , 2009, 19, 4117.	6.7	75
10	Functional Nanogels as Platforms for Imparting Antibacterial, Antibiofilm, and Antiadhesion Activities to Stainless Steel. <i>Advanced Functional Materials</i> , 2012, 22, 5271-5282.	7.8	71
11	Tuning the Hydrophilicity of Gold Nanoparticles Templated in Star Block Copolymers. <i>Langmuir</i> , 2006, 22, 6690-6695.	1.6	67
12	Sustainable and bio-inspired chemistry for robust antibacterial activity of stainless steel. <i>Journal of Materials Chemistry</i> , 2011, 21, 7901.	6.7	67
13	Synthetic oligorotaxanes exert high forces when folding under mechanical load. <i>Nature Nanotechnology</i> , 2018, 13, 209-213.	15.6	53
14	Probing the mobility of catenane rings in single molecules. <i>Chemical Science</i> , 2014, 5, 1449.	3.7	50
15	Antibacterial Polyelectrolyte Micelles for Coating Stainless Steel. <i>Langmuir</i> , 2012, 28, 7233-7241.	1.6	49
16	Dynamic force spectroscopy of synthetic oligorotaxane foldamers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9362-9366.	3.3	42
17	First Insights into Electrografted Polymers by AFM-Based Force Spectroscopy. <i>Macromolecules</i> , 2006, 39, 8428-8433.	2.2	37
18	Robust bio-inspired antibacterial surfaces based on the covalent binding of peptides on functional atmospheric plasma thin films. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5168.	2.9	37

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19	Chemical Recognition of Antioxidants and UV-Light Stabilizers at the Surface of Polypropylene: Atomic Force Microscopy with Chemically Modified Tips. <i>Langmuir</i> , 2001, 17, 6351-6357.	1.6	33
20	Mapping Aging Effects on Polymer Surfaces: Specific Detection of Additives by Chemical Force Microscopy. <i>Langmuir</i> , 2001, 17, 8287-8292.	1.6	32
21	Clay and DOPA Containing Polyelectrolyte Multilayer Film for Imparting Anticorrosion Properties to Galvanized Steel. <i>Langmuir</i> , 2012, 28, 2971-2978.	1.6	32
22	Binary mixtures of self-assembled monolayers of 1,8-octanedithiol and 1-octanethiol for a controlled growth of gold nanoparticles. <i>Organic Electronics</i> , 2006, 7, 337-350.	1.4	31
23	Controlled Deposition of Highly Oriented Type I Collagen Mimicking <i>In Vivo</i> Collagen Structures. <i>Langmuir</i> , 2010, 26, 12165-12172.	1.6	31
24	Fast Atmospheric Plasma Deposition of Bio-Inspired Catechol/Quinone-Rich Nanolayers to Immobilize NDMs Enzymes for Water Treatment. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500520.	1.9	30
25	Fabrication of equally oriented pancake shaped gold nanoparticles by SAM-templated OMCVD and their optical response. <i>Organic Electronics</i> , 2007, 8, 161-174.	1.4	27
26	Dithioesters and trithiocarbonates monolayers on gold. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2009, 172, 104-106.	0.8	27
27	Synthesis of poly(vinyl acetate)-b-poly(vinyl chloride) block copolymers by Cobalt-Mediated Radical Polymerization (CMRP). <i>Polymer Chemistry</i> , 2013, 4, 1685.	1.9	27
28	Atomic Force Microscopy Investigation of the Morphology and the Biological Activity of Protein-Modified Surfaces for Bio- and Immunosensors. <i>Analytical Chemistry</i> , 2007, 79, 6488-6495.	3.2	25
29	Poly(acrylic acid) with disulfide bond for the elaboration of pH-responsive brush surfaces. <i>European Polymer Journal</i> , 2010, 46, 195-201.	2.6	25
30	Where Ion Mobility and Molecular Dynamics Meet To Unravel the (Un)Folding Mechanisms of an Oligorotaxane Molecular Switch. <i>ACS Nano</i> , 2017, 11, 10253-10263.	7.3	24
31	Electrografting of Polymers onto AFM Tips: A Novel Approach for Chemical Force Microscopy and Force Spectroscopy. <i>ChemPhysChem</i> , 2004, 5, 147-149.	1.0	23
32	Liquid-Assisted Plasma-Enhanced Chemical Vapor Deposition of Catechol and Quinone-Functionalized Coatings: Insights into the Surface Chemistry and Morphology. <i>Plasma Processes and Polymers</i> , 2016, 13, 843-856.	1.6	23
33	One-Step Polymer Grafting from Silicon Nitride SPM Probes: From Isolated Chains to Brush Regime. <i>Journal of the American Chemical Society</i> , 2007, 129, 8410-8411.	6.6	22
34	The Dynamics of Complex Formation between Amylose Brushes on Gold and Fatty Acids by QCM-D. <i>Biomacromolecules</i> , 2013, 14, 3713-3722.	2.6	19
35	Ion Mobility Spectrometry Reveals Duplex DNA Dissociation Intermediates. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1777-1786.	1.2	19
36	Influence of Molecular Arrangement in Self-Assembled Monolayers on Adhesion Forces Measured by Chemical Force Microscopy. <i>ChemPhysChem</i> , 2003, 4, 1107-1111.	1.0	18

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37	Surface Initiated Polymerization of Styrene from a Carboxylic Acid Functionalized Polypyrrole Coated Electrode. <i>Langmuir</i> , 2003, 19, 306-313.	1.6	17
38	A facile and fast electrochemical route to produce functional few-layer graphene sheets for lithium battery anode application. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15298-15302.	5.2	17
39	Biointerface multiparametric study of intraocular lens acrylic materials. <i>Journal of Cataract and Refractive Surgery</i> , 2014, 40, 1536-1544.	0.7	17
40	Real-Time Fluctuations in Single-Molecule Rotaxane Experiments Reveal an Intermediate Weak Binding State during Shuttling. <i>Journal of the American Chemical Society</i> , 2021, 143, 2348-2352.	6.6	17
41	Linear and propeller-like fluoro-isindigo based donor-acceptor small molecules for organic solar cells. <i>Organic Electronics</i> , 2015, 20, 76-88.	1.4	16
42	Vibrational Structure and Organization of Various Self-Assembled Alkanethiol Monolayers: A HREELS Study. <i>Langmuir</i> , 2000, 16, 6569-6576.	1.6	15
43	Viologen Tweezers to Probe the Force of Individual Donor-Acceptor Interactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 21153-21159.	6.6	15
44	Single-molecule mechanics of synthetic aromatic amide helices: Ultrafast and robust non-dissipative winding. <i>CheM</i> , 2021, 7, 1333-1346.	5.8	13
45	Thermoresponsive Coatings Strongly Adhering to (Semi)conducting Surfaces. <i>Langmuir</i> , 2007, 23, 159-161.	1.6	12
46	A Generic Chemical Platform for Molecular Recognition and Stimuli-Responsive Probes Based on Scanning Probe Microscopy. <i>Small</i> , 2008, 4, 1101-1104.	5.2	12
47	Low bandgap copolymers based on monofluorinated isindigo towards efficient polymer solar cells. <i>Polymer Chemistry</i> , 2015, 6, 6040-6049.	1.9	12
48	Are Electrografted Polymers Chemisorbed or Physisorbed onto their Substrate?. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1216-1220.	1.1	11
49	Force measurements reveal how small binders perturb the dissociation mechanisms of DNA duplex sequences. <i>Nanoscale</i> , 2016, 8, 11718-11726.	2.8	11
50	Radical Pairing Interactions in a Molecular Switch Evidenced by Ion Mobility Spectrometry and Infrared Ion Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10049-10055.	7.2	11
51	Biomolecule-based antibacterial coating on a stainless steel surface: multilayer film build-up optimization and stability study. <i>Biofouling</i> , 2012, 28, 395-404.	0.8	10
52	Single-molecule mechanical unfolding experiments reveal a critical length for the formation of β -helices in peptides. <i>Nanoscale Horizons</i> , 2020, 5, 671-678.	4.1	10
53	Probing the surface molecular structure in the UPS spectra of octadecanethiol and 1-cyclohexyl-12-dodecanethiol self-assembled on gold. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996, 81, 55-61.	0.8	9
54	Surface molecular structure of self-assembled alkanethiols evidenced by UPS, synchrotron radiation and HREELS. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 76, 523-528.	0.8	8

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55	Unraveling the complexity of the interactions of DNA nucleotides with gold by single molecule force spectroscopy. <i>Nanoscale</i> , 2015, 7, 19528-19533.	2.8	8
56	Influence of the protein context on the polyglutamine length-dependent elongation of amyloid fibrils. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 239-248.	1.1	7
57	Molecular cranes swing into action. <i>Nature Nanotechnology</i> , 2008, 3, 188-189.	15.6	5
58	Single-molecule force spectroscopy to decipher the early signalling step in membrane-bound penicillin receptors embedded into a lipid bilayer. <i>Nanoscale</i> , 2019, 11, 12275-12284.	2.8	5
59	How to Increase Adhesion Strength of Catechol Polymers to Wet Inorganic Surfaces. <i>Biomacromolecules</i> , 2021, 22, 183-189.	2.6	5
60	Radical Pairing Interactions in a Molecular Switch Evidenced by Ion Mobility Spectrometry and Infrared Ion Spectroscopy. <i>Angewandte Chemie</i> , 2021, 133, 10137-10143.	1.6	4
61	Plasma Surface Fluorination of Hydrogel Materials' Coating Stability and <i>in vitro</i> Biocompatibility Testing. <i>Soft Materials</i> , 2010, 8, 164-182.	0.8	3
62	Collapsing and reswelling kinetics of thermoresponsive polymers on surfaces: a matter of confinement and constraints. <i>Soft Matter</i> , 2014, 10, 7256-7261.	1.2	3
63	The pulling force of a tiny synthetic molecular machine. <i>Europhysics News</i> , 2013, 44, 20-22.	0.1	2
64	Study of Adhesion Properties of Polypropylene Surfaces by Atomic Force Microscopy Using Chemically Modified Tips : Imaging of Functional Group Distribution. <i>Studies in Interface Science</i> , 2001, , 137-150.	0.0	1
65	Colloidal Structures on Patterned Surfaces. , 0, , 970-982.		1
66	Colloidal Micro- and Nanostructures Assembled on Patterned Surfaces. , 2004, , .		0
67	Single-Molecule Measurements of Synthetic Molecular Machines at Work. <i>Advances in Atom and Single Molecule Machines</i> , 2015, , 1-16.	0.0	0