

# Jane Frommer

## List of Publications by Year in descending order

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75  
papers

6,118  
citations

117453

34  
h-index

85405

71  
g-index

77  
all docs

77  
docs citations

77  
times ranked

5051  
citing authors

#	ARTICLE	IF	CITATIONS
1	Friction measurements on phase-separated thin films with a modified atomic force microscope. <i>Nature</i> , 1992, 359, 133-135.	13.7	534
2	Imaging of liquid crystals using a tunnelling microscope. <i>Nature</i> , 1988, 333, 542-545.	13.7	383
3	Scanning Tunneling Microscopy and Atomic Force Microscopy in Organic Chemistry. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 1298-1328.	4.4	372
4	Placement and orientation of individual DNA shapes on lithographically patterned surfaces. <i>Nature Nanotechnology</i> , 2009, 4, 557-561.	15.6	346
5	Nanoscale Three-Dimensional Patterning of Molecular Resists by Scanning Probes. <i>Science</i> , 2010, 328, 732-735.	6.0	304
6	Friction and wear of Langmuir-Blodgett films observed by friction force microscopy. <i>Physical Review Letters</i> , 1992, 69, 1777-1780.	2.9	265
7	Force Microscopy Study of Friction and Elastic Compliance of Phase-Separated Organic Thin Films. <i>Langmuir</i> , 1994, 10, 1281-1286.	1.6	262
8	Nanoscale chemical imaging by photoinduced force microscopy. <i>Science Advances</i> , 2016, 2, e1501571.	4.7	228
9	Molecular-resolution images of Langmuir-Blodgett films using atomic force microscopy. <i>Nature</i> , 1991, 349, 398-400.	13.7	225
10	Contrast mechanism for resolving organic molecules with tunnelling microscopy. <i>Nature</i> , 1989, 338, 137-139.	13.7	219
11	Conducting complexes of polyphenylene sulfides. <i>Journal of Chemical Physics</i> , 1981, 75, 1919-1927.	1.2	218
12	Manipulation of Surface Properties by Patterning of Covalently Bound Polymer Brushes. <i>Journal of the American Chemical Society</i> , 2000, 122, 1844-1845.	6.6	215
13	Molecular manipulation using a tunnelling microscope. <i>Nature</i> , 1988, 331, 324-326.	13.7	198
14	Photometabolism of 7-dehydrocholesterol to previtamin D3 in skin. <i>Biochemical and Biophysical Research Communications</i> , 1977, 76, 107-114.	1.0	187
15	Friction force microscopy of mixed Langmuir-Blodgett films. <i>Thin Solid Films</i> , 1992, 220, 132-137.	0.8	187
16	Probe-Based 3D Nanolithography Using Self-Amplified Depolymerization Polymers. <i>Advanced Materials</i> , 2010, 22, 3361-3365.	11.1	146
17	Conducting polymer solutions. <i>Accounts of Chemical Research</i> , 1986, 19, 2-9.	7.6	131
18	Self-Assembled Ferrimagnetic Polymer Composites for Magnetic Recording Media. <i>Nano Letters</i> , 2010, 10, 3216-3221.	4.5	112

#	ARTICLE	IF	CITATIONS
19	Exploiting Chemical Switching in a Diels-Alder Polymer for Nanoscale Probe Lithography and Data Storage. <i>Advanced Functional Materials</i> , 2006, 16, 1499-1505.	7.8	96
20	An EPR study of the reaction between poly(p-phenylene sulfide) and electron-acceptor dopants. <i>Journal of Chemical Physics</i> , 1983, 78, 4858-4861.	1.2	89
21	Broad-Spectrum Antimicrobial Supramolecular Assemblies with Distinctive Size and Shape. <i>ACS Nano</i> , 2012, 6, 9191-9199.	7.3	87
22	Probe-Based Nanolithography: Self-Amplified Depolymerization Media for Dry Lithography. <i>Macromolecules</i> , 2010, 43, 572-574.	2.2	79
23	Three-Dimensional Nanostructure Construction via Nanografting: A Positive and Negative Pattern Transfer. <i>Nano Letters</i> , 2002, 2, 937-940.	4.5	72
24	Interfacial glass transition profiles in ultrathin, spin cast polymer films. <i>Journal of Chemical Physics</i> , 2004, 120, 5334-5338.	1.2	69
25	Effect of Capillary Force on Friction Force Microscopy : A Scanning Hydrophilicity Microscope. <i>Chemistry Letters</i> , 1996, 25, 499-500.	0.7	68
26	Rastertunnel- und Kraftmikroskopie in der Organischen Chemie. <i>Angewandte Chemie</i> , 1992, 104, 1325-1357.	1.6	64
27	Patterned Polyfluorene Surfaces by Functionalization of Nanoimprinted Polymeric Features. <i>Langmuir</i> , 2006, 22, 2411-2414.	1.6	61
28	An atomic force microscopy study of corona-treated polypropylene films. <i>Applied Surface Science</i> , 1993, 64, 197-203.	3.1	55
29	Attractive-mode imaging of biological materials with dynamic force microscopy. <i>Nanotechnology</i> , 1994, 5, 87-94.	1.3	54
30	A comparative atomic force microscopic study of liquid crystal films: transferred freely-suspended vs. Langmuir-Blodgett. Morphology, lattice, and manipulation. <i>Langmuir</i> , 1993, 9, 341-346.	1.6	45
31	New class of soliton-supporting polymers: Theoretical predictions. <i>Physical Review B</i> , 1985, 31, 652-655.	1.1	42
32	Three-Dimensional Nanoprinting via Scanning Probe Lithography-Delivered Layer-by-Layer Deposition. <i>ACS Nano</i> , 2016, 10, 5656-5662.	7.3	41
33	Controlling Nanowear in a Polymer by Confining Segmental Relaxation. <i>Nano Letters</i> , 2006, 6, 296-300.	4.5	37
34	Three-Dimensional Nanoprinting via Direct Delivery. <i>Journal of Physical Chemistry B</i> , 2018, 122, 956-962.	1.2	36
35	Localized "Click" Chemistry Through Dipen Nanolithography. <i>Advanced Materials</i> , 2007, 19, 4471-4473.	11.1	34
36	Synthesis of trinuclear alkylidyne complexes from dinuclear alkyne complexes and metal hydrides. CIDNP evidence for vinyl radical intermediates in the hydrogenolysis of these clusters. <i>Organometallics</i> , 1983, 2, 1701-1705.	1.1	33

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37	Layer-by-layer assembled core-shell star block copolymers for fouling resistant water purification membranes. <i>Polymer</i> , 2016, 103, 468-477.	1.8	33
38	Scanning Tunnelling Microscopy Study of C <sub>60</sub> on Polycrystalline Platinum. <i>Europhysics Letters</i> , 1992, 18, 29-32.	0.7	31
39	Monolayered Organosilicate Toroids and Related Structures: A Phase Diagram for Templating from Block Copolymers. <i>Nano Letters</i> , 2006, 6, 1761-1764.	4.5	30
40	Molecular surface structure of tetracene mapped by the atomic force microscope. <i>Journal of Chemical Physics</i> , 1991, 94, 8441-8443.	1.2	27
41	Scanning probe microscopy of organics, an update. <i>Thin Solid Films</i> , 1996, 273, 112-115.	0.8	27
42	On the involvement of lipoic acid in .alpha.-keto acid dehydrogenase complexes. <i>Journal of the American Chemical Society</i> , 1979, 101, 2752-2753.	6.6	26
43	Curious Morphology of Silicon-Containing Polymer Films on Exposure to Oxygen Plasma. <i>Chemistry of Materials</i> , 1998, 10, 3895-3901.	3.2	24
44	Designing Polymers to Enable Nanoscale Thermomechanical Data Storage. <i>Advanced Functional Materials</i> , 2010, 20, 1276-1284.	7.8	24
45	High-Throughput Directed Self-Assembly of Core-Shell Ferrimagnetic Nanoparticle Arrays. <i>Langmuir</i> , 2013, 29, 7472-7477.	1.6	23
46	Structural changes during annealing and during acceptor doping of oriented poly(p-phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	2.1	22
47	Photochemical Attachment of Reactive Cross-Linked Polymer Films to Si/SiO <sub>2</sub> Surfaces and Subsequent Polymer Brush Growth. <i>Chemistry of Materials</i> , 2006, 18, 3425-3431.	3.2	21
48	Ultrafast molecule sorting and delivery by atomic force microscopy. <i>Applied Physics Letters</i> , 2006, 88, 183105.	1.5	21
49	Characterization by Atomic Force Microscopy of Fused-Silica Capillaries Chemically Modified for Capillary Electrokinetic Chromatography. <i>Analytical Chemistry</i> , 2000, 72, 2751-2757.	3.2	20
50	Atomically Flat Gold on Elastomeric Substrate. <i>Langmuir</i> , 2006, 22, 4734-4740.	1.6	20
51	Conducting polymer solutions: An EPR and INDO/CI study of a radical cation observed in conducting poly(phenylene sulfide) solutions. <i>Journal of Chemical Physics</i> , 1985, 83, 3681-3684.	1.2	19
52	Atomic force microscopy: a tool for surface science. <i>Journal of Physics Condensed Matter</i> , 1991, 3, S1-S9.	0.7	16
53	Determination of C <sub>60</sub> /C <sub>70</sub> ratios in fullerene mixtures and film characterization by scanning tunneling microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 1993, 56, 197-205.	1.1	16
54	Microscopia de varredura por forÃ§a: uma ferramenta poderosa no estudo de polÃmeros. <i>Polimeros</i> , 1997, 7, 51-61.	0.2	16

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55	Smart Self-Adjustment of Surface Micelles of an Amphiphilic Block Copolymer to Nanoscopic Pattern Boundaries. <i>Advanced Materials</i> , 2007, 19, 3342-3348.	11.1	15
56	Strain shielding and confined plasticity in thin polymer films: Impacts on thermomechanical data storage. <i>Tribology Letters</i> , 2005, 19, 9-15.	1.2	12
57	Effect of polymer attachment on the equilibrium acidity of an organotransition metal hydride and an organic carboxylic acid. Synthesis and properties of a polymer-supported metal anion. <i>Journal of the American Chemical Society</i> , 1980, 102, 5227-5234.	6.6	11
58	Surface Modification of Polyacetylene (PA) for Electrochemical Applications. <i>Journal of the Electrochemical Society</i> , 1986, 133, 117-121.	1.3	10
59	Poly(3-methylthiophene) conducting polymer solutions and films. <i>Synthetic Metals</i> , 1989, 28, 269-274.	2.1	6
60	Liquid Crystals "as seen by the Scanning Tunnelling and Force Microscopes. <i>Liquid Crystals Today</i> , 1993, 3, 1-12.	2.3	6
61	The Use of Micro-Mechanical Techniques, AFM and MFM to Access Surface Deformation in Multilayered Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1998, 522, 287.	0.1	6
62	Accurate Measurement of Porous Low-k Thin-Films by Nanoindentation: Densification Scaling versus Substrate Effects. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, N209-N212.	0.9	6
63	Controlled Molecular Assembly via Dynamic Confinement of Solvent. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6232-6237.	2.1	6
64	An E.P.R. and 19F N.M.R. study of the chemical structure in conducting polymers. <i>Synthetic Metals</i> , 1986, 15, 259-263.	2.1	5
65	A Stepped-Pole Writer to Minimize Side Erasure on Barium Ferrite Tape. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 3543-3546.	1.2	4
66	Highly conducting acetylene-CO copolymers and limitations of the soliton model. <i>Nature</i> , 1986, 319, 697-698.	13.7	3
67	Structural studies of conducting polymer solutions and films: poly(3-methylthiophene). <i>Macromolecules</i> , 1989, 22, 2244-2252.	2.2	3
68	Forcing surface issues. <i>Physics World</i> , 1991, 4, 46-50.	0.0	3
69	Micro-indentation and scanning probe microscopy to assess multilayer magnetic film damage. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 219, 142-152.	1.0	3
70	Scanning probe microscopy for industrial applications: Selected examples. <i>Scanning</i> , 1993, 15, 257-264.	0.7	2
71	Kinetics and Energetics in Nanolubrication. , 2004, , 883-896.		2
72	Bit-Patterned Media on Plastic Tape With Feature Density of 100 Gigadot/in <sup>2</sup> . <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-5.	1.2	1

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73	Kinetics and Energetics in Nanolubrication. , 2004, , 883-896.		1
74	Probe Lithography: Probe-Based 3-D Nanolithography Using Self-Amplified Depolymerization Polymers (Adv. Mater. 31/2010). Advanced Materials, 2010, 22, n/a-n/a.	11.1	0
75	Kinetics and Energetics in Nanolubrication. , 2007, , 1439-1456.		0