Citation Report
List of articles citing

Atomic force microscope

DOI: 10.1103/physrevlett.56.930
Physical Review Letters, 1986, 56, 930-933.

#	Paper	IF	Citations
2201	A Miniaturised Fabry Perot AFM Sensor.		
2200	Magnetic force microscopy measurement of current on integrated circuits.		1
2199	The STM learning curve and where it may take us*. **1870**, 3, 113-133		1
2198	Materials science. Snapshots of crystal growth. **2005**, 308, 1566-7		41
2197	Scanning thermal profiler. **1986**, 49, 1587-1589		330
2196	Interatomic forces in scanning tunneling microscopy: Giant corrugations of the graphite surface. *Physical Review Letters*, **1986**, 57, 444-447	7.4	335
2195	Vacuum Tunneling: A New Technique for Microscopy. **1986**, 39, 26-33		108
2194	Raster-Tunnel-Mikroskopie: Herzliche Glückwünsche für Gerd Binnig und Heinrich Rohrer. **1986**, 42, 369-371		
2193	Scanning tunneling microscopy. **1986**, 5, 501-508		
2192	Scanning thermal profiler. **1986**, 5, 509-513		21
2191	March 1986: Open Problems in Condensed Matter Physics. **1986**, T13, 17-21		
2190	van der Waals interaction between an atom and a surface at finite separations. **1986**, 34, 6853-6859		53
2189	Comment on "Interatomic forces in scanning tunneling microscopy: Giant corrugations of the graphite surface". *Physical Review Letters*, **1986**, 57, 3235	7.4	130
2188	Experimental observation of forces acting during scanning tunneling microscopy. *Physical Review Letters*, **1986**, 57, 2403-2406	7.4	203
2187	Atomic point-contact imaging. **1986**, 49, 1166-1168		33
2186	Atomic-Scale Friction of a Tungsten Tip on a Graphite Surface. **1987**, 226-229		10
2185	Atomic Force Microscopy: General Principles and a New Implementation. **1987**, 1307-1314		63

2184 Observation of Defects in Crystalline Polymers by HREM. **1987**, 12, 27-35 11

2183 Scanning tunneling microscopy. **1987**, 61, R1-R24 527

2182 Atomic force microscopy of liquid-covered surfaces: Atomic resolution images. **1987**, 51, 484-486 243

2181 Scanning-tunneling microscopy at small tip-to-surface distances. **1987**, 36, 6194-6197 49

2180 Atomic resolution imaging of a nonconductor by atomic force microscopy. **1987**, 62, 2599-2602 294

2179 Atomic Force Michoscxpy-Feasibility for Materials Research.. **1987**, 111, 465

2178 Geburt und Kindheit der Rastertunnelmikroskopie. **1987**, 43, 282-290 9

2177 Observation of magnetic forces by the atomic force microscope. **1987**, 62, 4293-4295 302

2176 Atomic force microscope□force mapping and profiling on a sub 100-□scale. **1987**, 61, 4723-4729 1180

2175 Magnetic imaging by □orce microscopy□with 1000 □resolution. **1987**, 50, 1455-1457 952

2174 Atomic resolution with atomic force microscope. **1987**, 189-190, 1-6 59

2173 Design of an atomic force microscope and first results. **1987**, 189-190, 29-35 16

2172 Tip Surface Interactions in STM and AFM. **1987**, T19A, 61-66 315

2171 Scanning tunneling microscopy□rom birth to adolescence. **1987**, 59, 615-625 635

2170 Atomic-Force Microscopy. **1987**, T19A, 53-54 20

2169 Atomic-scale friction of a tungsten tip on a graphite surface. *Physical Review Letters*, **1987**, 59, 1942-1945 7.4 1427

2168 A study of graphite surface with stm and electronic structure calculations. **1987**, 181, 126-138 148

2167 An easily operable scanning tunneling microscope. **1987**, 181, 145-153 400

2166	Scanning tunneling microscopy on biological matter. **1987**, 181, 380-390	100
2165	Transition from the tunneling regime to point contact studied using scanning tunneling microscopy. **1987**, 36, 1284-1287	447
2164	Atomic Resolution with Atomic Force Microscope. **1987**, 3, 1281-1286	442
2163	High-stability bimorph scanning tunneling microscope. **1987**, 58, 1343-1348	25
2162	The atomic force microscope: Can it be used to study biological molecules?. **1987**, 141, 366-368	64
2161	Geburt und Kindheit der Rastertunnelmikroskopie (Nobel-Vortrag). **1987**, 99, 622-631	24
2160	Measurements of Roughness of very Smooth Surfaces 1 1Contribution of the U. S. National Bureau of Standards, not subject to copyright, except for Figures 2-10 and 15, reprinted with permission from other sources.. **1987**, 36, 503-509	15
2159	. **1987**, 119, 29-50	10
2158	Scanning tunneling microscope combined with scanning electron microscope. **1987**, 23, 115-118	33
2157	Rastertunnelmikroskopie an Graphitoberfl□hen. **1987**, 329, 113-115	2
2156	Tunneling experiments involving magnetic tip and magnetic sample. **1987**, 67, 125-128	32
2155	New ways to see atoms. **1987**, 325, 388-389	6
2154	A magneto-acoustic method for the noninvasive measurement of bioelectric currents. **1988**, 35, 892-4	65
2153	Ein neuer Mikroskoptyp: AFM. **1988**, 19, 112-112	
2152	Scanning Tunneling Microscopy and Spectroscopy of Ceramics: Silicon Carbide and Zinc Oxide. **1988** , 71, 629-637	27
2151	Molecular resolution images of amino acid crystals with the atomic force microscope. **1988**, 332, 332-334	118
2150	Force dependences for the definition of the atomic force microscopy spatial resolution. **1988**, 132, 354-358	47
2149	Tip microscopy □top microscopy? An introduction. **1988**, 25, 103-105	5

2148	Scanning tunneling and scanning electron microscopy investigations of nonuniform surfaces. **1988**, 25, 129-133	1
2147	Restoration and pictorial representation of scanning-tunneling-microscope data. **1988**, 25, 149-153	12
2146	Super-resolution imaging with near-field scanning optical microscopy (NSOM). **1988**, 25, 155-163	22
2145	Molecular orbital theory and tunnelling currents. **1988**, 10, 303-311	42
2144	The theoretical aspect of atomic force microscopy used for magnetic materials. **1988**, 71, 147-150	15
2143	Magnetic forces measured by atomic force microscopy. Theoretical approach. **1988**, 72, 295-299	10
2142	Tracking tunneling microscopy. **1988**, 59, 840-842	80
2141	High-resolution capacitance measurement and potentiometry by force microscopy. **1988**, 52, 1103-1105	612
2140	Deposition and imaging of localized charge on insulator surfaces using a force microscope. **1988**, 53, 2717-2719	377
2139	Near-field optical scanning microscopy in reflection. **1988**, 52, 249-251	106
2138	Compact scanning-force microscope using a laser diode. **1988**, 13, 1057-9	72
2137	Scanning tunneling microscopy and atomic force microscopy: application to biology and technology. **1988**, 242, 209-16	517
2136	Scanning probe microscopy of biological samples and other surfaces. **1988**, 152, 803-9	28
2135	High-resolution force microscopy of in-plane magnetization. **1988**, 152, 863-869	5
2134	Arrangement and stability of atoms at the apex of a scanning tip. **1988**, 152, 637-641	21
2133	Novel optical approach to atomic force microscopy. **1988**, 53, 1045-1047	956
2132	High-resolution magnetic imaging of domains in TbFe by force microscopy. **1988**, 52, 244-246	171
2131	Atomic scale friction between the muscovite mica cleavage plane and a tungsten tip. **1988**, 89, 5190-5193	232

2130	Force microscopy of magnetization patterns in longitudinal recording media. **1988**, 53, 1563-1565		128
2129	Low-temperature atomic force microscopy. **1988**, 59, 833-835		65
2128	Atomic force profiling by utilizing contact forces. **1988**, 63, 570-572		8
2127	Force microscope using a fiber-optic displacement sensor. **1988**, 59, 2337-2340		220
2126	Erratum: Novel optical approach to atomic force microscopy [Appl. Phys. Lett. 53, 1045 (1988)]. **1988**, 53, 2400-2402		183
2125	Scanning tunneling and atomic force microscopy combined. **1988**, 52, 2233-2235		31
2124	Vacuum tunneling probe: A nonreciprocal, reduced-back-action transducer. *Physical Review Letters*, **1988**, 61, 726-729	7.4	50
2123	Magnetic force microscopy: Some remarks from the micromagnetic point of view. **1988**, 64, 1561-1564		67
2122	Measurement of in-plane magnetization by force microscopy. **1988**, 53, 1446-1448		55
2121	Control electronics for atomic force microscopy. **1988**, 59, 836-839		19
2120	Direct force measurement in scanning tunneling microscopy. **1988**, 52, 188-190		35
2119	Imaging of tip-sample compliance in STM. **1988**, 152, 643-650		18
2118	Effect of tip profile on atomic-force microscope images: A model study. *Physical Review Letters*, **1988**, 60, 1314-1317	7.4	113
2117	Determination of displacements in ultrasonic waves by scanning tunneling microscopy. **1988**, 64, 1939-1944		18
2116	Theory of magnetic imaging by force microscopy. **1988**, 53, 1449-1451		45
2115	Scanning capacitance microscopy. **1988**, 21, 147-151		71
2114	Atomic force microscopy of an organic monolayer. **1988**, 239, 50-2		155
2113	Scanning tunneling microscopy of freeze-fracture replicas of biomembranes. **1988**, 239, 1013-5		155

2112	High resolution STM - studies on graphite and Langmuir-Blodgett films. **1988**, 38, 264-268	34
2111	A Revised Philosophy of Surface Measuring Systems. **1988**, 202, 169-185	8
2110	Mechanical Properties of Nanometre Volumes of Material: use of the Elastic Response of Small Area Indentations. **1988**, 130, 13	118
2109	STM and AFM investigations of high-Tc superconductors. **1988**, 152, 399-405	5
2108	Force sensing in scanning tunnelling microscopy: observation of adhesion forces on clean metal surfaces. **1988**, 152, 259-267	67
2107	Scanning tunnelling engineering. **1988**, 152, 585-596	12
2106	The STM learning curve and where it may take us*. **1988**, 152, 299-316	49
2105	Investigation of Bloch wall fine structures by magnetic force microscopy. **1988**, 152, 527-536	58
2104	Universal Aspects of Brittle Fracture, Adhesion, and Atomic Force Microscopy. **1988**, 140, 89	4
2103	Interfacial Adhesion: Theory and Experiment. **1988**, 119, 3	9
2102	Direct Observation of Friction at the Atomic Scale. **1988**, 119, 81	5
2101	Micromechanics and Microdynamics Via Atomistic Simulations. **1988**, 140, 101	3
2100	Fundamentals of Tribology at the Atomic Level. **1988**, 140, 37	2
2099	Scanning tunnelling and atomic force microscopy performed with the same probe in one unit. **1988**, 152, 871-875	5
2098	Scanning Tunneling Microscopy. **1988**, 40, 9-25	
2097	Calculation of the Bloch wall contrast in magnetic force microscopy. **1988**, 152, 281-288	21
2096	Atomic force microscopy of purple membranes. **1988**, 152, 817-21	32
2095	Molecular orbital theory for chemisorption and physisorption: The case of He on metals. **1989**, 39, 5684-5693	57

2094	Theoretical approach to magnetic force microscopy. **1989**, 39, 12013-12017		77
2093	Tribological studies of storage media by atomic force microscopy. **1989**,		2
2092	Determination of tilted superlattice structure by atomic force microscopy. **1989**, 55, 2491-2493		40
2091	Theory for the atomic force microscopy of deformable surfaces. *Physical Review Letters*, **1989**, 63, 876-879	7.4	63
2090	Nonlinear alternating-current tunneling microscopy. *Physical Review Letters*, **1989**, 62, 2285-2288	7.4	77
2089	Magnetic force microscopy of a CoCr thin film. **1989**, 66, 6001-6006		19
2088	Simple theory for the atomic-force microscope with a comparison of theoretical and experimental images of graphite. **1989**, 40, 5363-5366		72
2087	Atomic force microscopy of polymeric liquid films. **1989**, 90, 7550-7555		198
2086	Investigation of hydrogenated amorphous carbon coatings for magnetic data storage media by atomic force microscopy. **1989**, 55, 1624-1626		8
2085	A study of the AgBr(111) and AgBr(100) surface by means of atomic force microscopy. **1989**, 66, 4243-4247		11
2084	Noise in vacuum tunneling: Application for a novel scanning microscope. **1989**, 55, 2360-2362		37
2083	Lateral forces and topography using scanning tunneling microscopy with optical sensing of the tip position. **1989**, 54, 801-803		7
2082	Contact electrification using force microscopy. *Physical Review Letters*, **1989**, 63, 2669-2672	7.4	428
2081	Reduced-noise nonreciprocal transducer based upon vacuum tunneling. **1989**, 40, 6615-6625		15
2080	van der Waals force between a spherical tip and a solid surface. **1989**, 40, 12133-12139		43
2079	Analysis of Bloch-wall fine structures by magnetic force microscopy. **1989**, 40, 7421-7424		34
2078	Atomic theory of scanning tunneling microscopy. **1989**, 40, 10286-10293		48
2077	Different Response of Atomic Force Microscopy and Scanning Tunnelling Microscopy to Charge Density Waves. **1989**, 9, 695-700		34

2076	Surface Conductance of Metal Surfaces in Air Studied with a Force Microscope. **1989**, 28, L1634-L1636	25
2075	A Possible Novel Scanning Ultrasonic Tip Microscope. **1989**, 28, L1297-L1299	15
2074	Forces in atomic force microscopy in air and water. **1989**, 54, 2651-2653	541
2073	Description of magnetic imaging in atomic force microscopy. **1989**, 78, 263-268	20
2072	Monolayer freeze-fracture and scanning tunneling microscopy. **1989**, 13, 355-71	11
2071	Surface Chemistry with the Scanning Tunneling Microscope. **1989**, 1, 13-18	6
2070	Surface analysis I. Imaging surfaces, electric charges and magnetic domains with the atomic force microscope. **1989**, 1, 396-399	
2069	Surface Chemistry with the Scanning Tunneling Microscope. **1989**, 101, 117-122	15
2068	Surface Analysis I. Imaging Surfaces, Electric Charges and Magnetic Domains with the Atomic Force Microscope. **1989**, 101, 1610-1613	0
2067	Interaction between a dielectric tip and an ionic crystal. Application to scanning force microscopy on LiF and MgO. **1989**, 162, 399-403	22
2066	Surface Chemistry with the Scanning Tunneling Microscope. **1989**, 28, 117-122	20
2065	Surface Analysis I: Imaging Surfaces, Electric Charges and Magnetic Domains with the Atomic Force Microscope. **1989**, 28, 1578-1581	1
2064	A Tunneling-tip magnetometer. **1989**, 20, 199-205	12
2063	An electron tunneling sensor. **1989**, 19, 201-210	59
2062	Magnetic field sensing with magnetostrictive materials using a tunneling tip detector. **1989**, 19, 211-225	33
2061	Atomic force microscopy for the study of tribology and adhesion. **1989**, 181, 527-544	56
2060	Atomic resolution with a new atomic force tip. **1989**, 175, 81-84	4
2059	The challenge of high technology for analytical chemistry. **1989**, 8, 192-202	2

2058	Theoretical interpretation of atomic-force- microscope images of graphite. **1989**, 209, L125-L132	1
2057	Dynamics of tip-substrate interactions in atomic force microscopy. **1989**, 210, L177-L184	7
2056	Topography and correlation to wear of hydrogenated amorphous carbon coatings: An atomic force microscopy study. **1989**, 135, 109-117	8
2055	Scanning near-field acoustic microscopy. **1989**, 48, 89-92	157
2054	Bit analysis of magnetic recording media by force microscopy. **1989**, 115, 285-291	10
2053	Microscopes: probing biological structure. **1989**, 339, 426-7	1
2052	Optical absorption microscopy and spectroscopy with nanometre resolution. **1989**, 342, 783-785	88
2051	Scanning capacitance microscopy on a 25 nm scale. **1989**, 55, 203-205	177
2050	Scanning tunneling microscope instrumentation. **1989**, 60, 165-180	187
2049	A differential interferometer for force microscopy. **1989**, 60, 3131-3134	163
2048	Improved fiber-optic interferometer for atomic force microscopy. **1989**, 55, 2588-2590	519
2047	Direct measurement of forces during scanning tunneling microscope imaging of graphite. **1989**, 208, 473-486	81
2046	Theoretical interpretation of atomic-force-microscope images of graphite. **1989**, 209, L125-L132	113
2045	Surface topography study of gold deposited on mica using scanning tunneling microscopy: Effect of mica temperature. **1989**, 217, 276-288	68
2044	Local step structure of the AgBr(100) and (111) surfaces studied by atomic force microscopy. **1989**, 221, 1-10	12
2043	Dynamics of tip-substrate interactions in atomic force microscopy. **1989**, 210, L177-L184	112
2042	. **1989**, 25, 1968-1972	8
2041	Scanning force microscopy using a simple low-noise interferometer. **1989**, 55, 439-441	33

2040	The scanning ion-conductance microscope. **1989**, 243, 641-3		665
2039	Imaging crystals, polymers, and processes in water with the atomic force microscope. **1989**, 243, 1586-9		913
2038	An atomic-resolution atomic-force microscope implemented using an optical lever. **1989**, 65, 164-167		526
2037	Avalanche in adhesion. *Physical Review Letters*, **1989**, 63, 1269-1272	7.4	130
2036	Tunneling acoustic microscope. **1989**, 55, 1718-1720		63
2035	Interactions between Surfaces Bearing Adsorbed Polymer Layers. **1989**, 28, 975-1001		
2034	Tunnelmikroskopie und organische Molekle. **1989**, 37, 1270-1274		
2033	A New Approach to Atomic Force Microscopy. **1989**, 139, 229		
2032	Atomic Force Microscope Designs and Applications. **1989**, 139, 235		
2031	Measurement of Micromechanical Properties Using Atomic Force Microscope with Capacitative. **1989**, 153, 307		3
2030	Strukturen Farben Krfte: Wanderjahre der Raster-Tunnelmikroskopie. **1989**, 45, 105-115		12
2029	Application of scanning electrochemical microscopy to biological samples. **1990**, 87, 1740-3		87
2028	Nanotribology Of Diamond Films Studied By Atomic Force Microscopy. **1990**, 188, 219		
2027	Monte-Carlo Investigation of Avalanche in Adhesion. **1990**, 193, 313		2
2026	Characterization of Polymer Dielectrics for High-Density Electronic Packaging. **1990**, 203, 277		1
2025	Atomic-Scale Simulation of Adhesion Between Metallic Surfaces. **1990**, 209, 225		
2024	Atomare Bewegungen in der Tunnel- und Kraftmikroskopie. **1990**, 46, 307-312		5
2023	Computer Simulation in the Physical Sciences. **1990**, 1990, 507-518		23

2022	Scanning Tunneling Microscopy: A Mature Surface-Science Technique. **1990**, 79, 155-269	12
2021	Atomic Force Microscopy. **1990**, 43, 23-30	511
2020	Microscopy of chemical-potential variations on an atomic scale. **1990**, 344, 317-319	91
2019	Atomic force microscopy. **1990**, 345, 839-840	25
2018	. **1990**, 26, 1512-1514	11
2017	. **1990**, 26, 1515-1517	13
2016	. **1990**, 26, 1225-1228	24
2015	Atomic resolution on LiF (001) by atomic force microscopy. **1990**, 79, 3-4	69
2014	Model for scanning tunneling optical microscopy: A microscopic self-consistent approach. **1990**, 42, 9340-9349	115
2013	Dynamic aspects of scanning surface instruments and microscopes. **1990**, 1, 93-102	20
2012	Understanding magnetic force microscopy. **1990**, 80, 373-383	125
2011	Magnetic microfield analysis by force microscopy. **1990**, 83, 545-547	9
2010	Metrological surface scanning tunneling and atomic-force microscopy. **1990**, 33, 26-30	
2009	Magnetic force microscopy. **1990**, 2, 550-552	7
2008	The atomic force microscope: A tool for science and industry. **1990**, 33, 93-98	51
2007	Lateral resolution in magnetic force microscopy. Application to periodic structures. **1990**, 146, 277-280	31
2006	Proximal probes: Techniques for measuring at the nanometer scale. **1990**, 6, 77-85	7
2005	Noise in sensors. **1990**, 21, 17-24	19

2004	In situ scanning tunneling microscopy. **1990**, 290, 1-20		43
2003	Study of metallic adhesion using scanning tunneling microscopy. **1990**, 41, 382-385		20
2002	Molecular-Scale Imaging of Clay Mineral Surfaces with the Atomic Force Microscope. **1990**, 38, 337-342		66
2001	Simultaneous Observation of Atomically Resolved AFM/STM Images of a Graphite Surface. **1990**, 29, L157-L159		14
2000	Anomalous Force Dependence of AFM Corrugation Height of a Graphite Surface in Air. **1990**, 29, L1196-L1198		2
1999	The Children of the STM: The Nobel Prize-winning scanning tunneling microscope has inspired a whole generation of imaging devices that use everything from magnetic forces to sound waves to examine samples. **1990**, 247, 634-6		39
1998	Origin of Anomalous Corrugation Height of STM Images of Graphite. **1990**, 29, 1533-1538		15
1997	STM imaging of a nanometre conducting structure in the exponential approximation. **1990**, 2, 2487-2490		
1996	Simultaneous Imaging of a Graphite Surface with Atomic Force/Scanning Tunneling Microscope (AFM/STM). **1990**, 29, 1539-1543		11
1995	Universal aspects of adhesion and atomic force microscopy. **1990**, 2, 8841-8846		20
1994	Combined scanning force and friction microscopy of mica. **1990**, 1, 141-144		280
1993	Tip-sample interaction effects in scanning-tunneling and atomic-force microscopy. **1990**, 41, 2763-2775		132
1992	Imaging metal atoms in air and water using the atomic force microscope. **1990**, 56, 1758-1759		61
1991	Spin-polarized scanning tunneling microscope: Concept, design, and preliminary results from a prototype operated in air. **1990**, 67, 6141-6152		54
1990	Optical-beam-deflection atomic force microscopy: The NaCl (001) surface. **1990**, 56, 2100-2101		251
1989	10-nm resolution by magnetic force microscopy on FeNdB. **1990**, 67, 1437-1441		45
1988	First-principles theory of atomic-scale friction. *Physical Review Letters*, **1990**, 64, 3054-3057	7.4	211
1987	Force measurement using an ac atomic force microscope. **1990**, 67, 4045-4052		37

1986	The topography effect on magnetic images in magnetic force microscopy. **1990**, 68, 4767-4771		16
1985	Force microscopy with a bidirectional capacitance sensor. **1990**, 61, 2296-2308		150
1984	Momentum noise in vacuum tunneling transducers. **1990**, 41, 8184-8194		125
1983	Probing the surface forces of monolayer films with an atomic-force microscope. *Physical Review Letters*, **1990**, 64, 1931-1934	7.4	285
1982	.		1
1981	Localizing periodicity in near-field images. *Physical Review Letters*, **1990**, 64, 1031-1034	7.4	4
1980	Resonant-tunneling theory of imaging close-packed metal surfaces by scanning tunneling microscopy. **1990**, 41, 2671-2677		29
1979	Atomic-force-microscopy images of graphite due to van der Waals interactions. **1990**, 42, 11757-11761		16
1978	Improved microtips for scanning probe microscopy. **1990**, 61, 2538-2541		56
1977	Preparation of magnetic tips for a scanning force microscope. **1990**, 56, 2045-2047		38
1976	Rapid measurement of static and dynamic surface forces. **1990**, 56, 2408-2410		29
1975	Separation of magnetic and topographic effects in force microscopy. **1990**, 67, 7278-7280		58
1974	. **1990**,		6
1973	Charge density waves of 1T-TaS2 imaged by atomic force microscopy. **1990**, 57, 992-994		27
1972	Imaging and manipulating molecules on a zeolite surface with an atomic force microscope. **1990**, 247, 1330-3		126
1971	Construction of an atomic force microscope and application of atomic force microscopy and scanning tunneling microscopy in surface chemistry. **1990**, 56-58		
1970	Observation of single charge carriers by force microscopy. *Physical Review Letters*, **1990**, 65, 3162-3164	7.4	225
1969	Atomistic mechanisms and dynamics of adhesion, nanoindentation, and fracture. **1990**, 248, 454-61		934

1968	.	43
1967	Manifestation of zero-point quantum fluctuations in atomic force microscopy. **1990**, 42, 1541-1546	57
1966	Scanning Tunneling Microscopy and Atomic Force Microscopy of Biological Surfacesa. **1990**, 589, 476-491	16
1965	Immobilized proteins in buffer imaged at molecular resolution by atomic force microscopy. **1990**, 58, 1251-8	161
1964	Direct visualization of phosphorylase-phosphorylase kinase complexes by scanning tunneling and atomic force microscopy. **1990**, 58, 1437-48	69
1963	Imaging the membrane protein bacteriorhodopsin with the atomic force microscope. **1990**, 58, 1473-80	203
1962	Electrochemical Applications of Scanning Tunneling Microscopy. **1990**, 449-469	0
1961	Magnetic force microscopy: General principles and application to longitudinal recording media. **1990**, 68, 1169-1183	517
1960	Wet lipid-protein membranes imaged at submolecular resolution by atomic force microscopy. **1990**, 103, 89-94	104
1959	Imaging cells with the atomic force microscope. **1990**, 105, 54-61	231
1958	Simultaneous measurement of lateral and normal forces with an optical-beam-deflection atomic force microscope. **1990**, 57, 2089-2091	516
1957	External and internal reflection near field microscopy: experiments and results. **1990**, 29, 3734-40	123
1956	Optical interaction between a dielectric tip and a nanometric lattice: implications for near-field microscopy. **1990**, 7, 936	78
1955	Scanning tunneling microscopy and the atomic structure of solid surfaces. **1990**, 20, 235-303	23
1954	On the quadrant theorem of Orowan. **1990**, 232, L224-L226	1
1953	The adsorption of SiO molecules on MgO Surfaces as a model for the silicon lever atomic force microscope (AFM). **1990**, 232, 399-406	13
1952	On the possibility of resolving quantization axes of surface spins by means of a scanning tunneling microscope with a magnetic tip. **1990**, 236, L377-L381	41
1951	Interaction between a spherical probe and an atomic lattice: implication for atomic force microscopy on graphite and diamond. **1990**, 234, 181-196	15

1950	The interaction of crystal surfaces in close proximity. **1991**, 244, 266-276		14
1949	Dispersion forces between a spherical probe tip and a periodic crystal: study of different asymptotic cases. **1991**, 255, L571-L578		3
1948	Surface characterization of a single crystal of sodium decatungstocerate (IV) by the atomic force microscope. **1991**, 256, L613-L617		8
1947	Measuring electrostatic, van der Waals, and hydration forces in electrolyte solutions with an atomic force microscope. **1991**, 60, 1438-44		645
1946	Scanning tunneling microscopy and atomic force microscopy of perylene radical cation salt. **1991**, 42, 2335-2338		5
1945	Submicron probe of polymer adhesion with atomic force microscopy: Dependence on topography and material inhomogeneities. **1991**, 59, 2901-2903		128
1944	Atomic scale surface studies of conductive organic compounds 3. Scanning tunneling microscopy studies of monocrystals of bis(ethylenedithio)tetrathiofulvalene with triiodide, ET2I3. **1991**, 40, 247-256		15
1943	Molecular surface structure of tetracene mapped by the atomic force microscope. **1991**, 94, 8441-8443		25
1942	. **1991**, 27, 5187-5189		50
1941	.		1
1940	.		46
1939	Scanning Tunneling Microscopy and Atomic Force Microscopy of Thin Polymer Films. **1991**, 194, 305-310		1
1938	Using force modulation to image surface elasticities with the atomic force microscope. **1991**, 2, 103-106		452
1937	Laser-driven scanning tunneling microscope. *Physical Review Letters*, **1991**, 66, 1717-1720	7.4	71
1936	Stylus profiling at high resolution and low force. **1991**, 30, 42-50		39
1935	Structure of adsorbed fibrinogen obtained by scanning force microscopy. **1991**, 280, 225-8		81
1934	Frequency modulation detection using high-Q cantilevers for enhanced force microscope sensitivity. **1991**, 69, 668-673		1981
1933	A scanning force microscope with a fiber-optic-interferometer displacement sensor. **1991**, 62, 1280-1284		31

1932	Atomic force microscopy of a hydrated bacterial surface protein. **1991**, 163, 79-84		34
1931	Electrostatic interaction in atomic force microscopy. **1991**, 60, 777-85		187
1930	Atomic force microscopy of hydrated phosphatidylethanolamine bilayers. **1991**, 59, 755-60		146
1929	Detachment of agglutinin-bonded red blood cells. I. Forces to rupture molecular-point attachments. **1991**, 59, 838-48		267
1928	Local electrical dissipation imaged by scanning force microscopy. **1991**, 59, 2171-2173		115
1927	Anisotropy of frictional forces in muscovite mica. *Physical Review Letters*, **1991**, 67, 2642-2645	7.4	258
1926	Atomic-resolution electrochemistry with the atomic force microscope: copper deposition on gold. **1991**, 251, 183-6		329
1925	Imaging powders with the atomic force microscope: from biominerals to commercial materials. **1991**, 253, 1261-3		53
1924	Chemical imaging of surfaces with the scanning electrochemical microscope. **1991**, 254, 68-74		349
1923	Bistable behavior of a vibrating tip near a solid surface. **1991**, 58, 2989-2991		125
1922	Nanotechnology Instrumentation. **1991**, 24, 37-46		16
1921	SXM □Rastermikroskopien f□x-beliebige Oberfl□heneigenschaften. **1991**, 47, 517-520		2
1920	Imaging Magnetic Bit Patterns Using a Scanning Tunneling Microscope with a Flexible Tip. **1991**, 232, 141		1
1919	Atomic Force Microscopy Of Micron Size Silicalite Crystals. **1991**, 233, 287		2
1918	Nanometer-Scale Modification and Imaging of Polyimide Films by Scanning Force Microscopy. **1991**, 239, 535		3
1917	Imaging Of Hierarchically Structured Materials. **1991**, 255, 293		7
1916	On microscopic mechanisms of friction and wear. **1991**, 149, 199-208		59
1915	Atomistic mechanisms of adhesion and compression of diamond surfaces. **1991**, 206, 213-219		44

1914	Dispersion forces between a spherical probe tip and a periodic crystal: study of different asymptotic cases. **1991**, 255, L571-L578	1
1913	Surface characterization of a single crystal of sodium decatungstocerate (IV) by the atomic force microscope. **1991**, 256, L613-L617	3
1912	Investigation and modification of free and adsorbate-covered surfaces by scanning tunneling microscopy. **1991**, 139, 230-238	3
1911	Electron microscopy and the study of microstructure and domain structure of magnetic materials. **1991**, 7, 297-306	9
1910	Theoretical estimates of forces acting on a magnetic force microscope tip over a high temperature superconductor. **1991**, 175, 357-362	36
1909	Atomic-force microscopy of synthetic ultrafiltration membranes in air and under water. **1991**, 35, 155-159	25
1908	Effect of surface roughness of carbon support films on high-resolution electron diffraction of two-dimensional protein crystals. **1991**, 36, 307-318	45
1907	Measuring contact charge transfer at interfaces: a new experimental technique. **1991**, 26, 291-308	19
1906	Magnetic force microscopy and its application to longitudinal thin films. **1991**, 93, 123-127	4
1905	Magnetic force microscopy: Current status and future trends. **1991**, 101, 263-270	45
1904	Atomic force microscopy of atomic-scale ledges and etch pits formed during dissolution of quartz. **1991**, 251, 1343-6	141
1903	Molecular-resolution images of LangmuirBlodgett films using atomic force microscopy. **1991**, 349, 398-400	212
1902	Direct measurement of colloidal forces using an atomic force microscope. **1991**, 353, 239-241	1740
1901	Measurement of the interaction between adsorbed polymer layers: the steric effect. **1991**, 34, 191-215	45
1900	Study of solid-surface states by RYDMR spectroscopy. **1991**, 180, 569-572	0
1899	Molecular resolution of zeolite surfaces as imaged by atomic force microscopy. **1991**, 11, 429-433	33
1898	Atomic force microscopy on epitaxially crystallized isotactic polypropylene. **1991**, 26, 209-214	44
1897	Atomic force microscopy on polymers and polymer related compounds. **1991**, 26, 215-222	34

1896 Atomic force microscopy on polymers and polymer related compounds. **1991**, 26, 715-722 35

1895 Calculation of an Atomically Modulated Friction Force in Atomic-Force Microscopy. **1991**, 15, 887-892 169

1894 Attractive interatomic force as a tunnelling phenomenon. **1991**, 3, 1227-1245 53

1893 Atomic force microscopy and dissection of gap junctions. **1991**, 253, 1405-8 233

1892 Molecular directions in nanotechnology. **1991**, 2, 113-118 11

1891 Limits of Resolution in Atomic Force Microscopy Images of Graphite. **1991**, 15, 49-54 37

1890 Potential applications of electropolymerized thin organic films in nanotechnology. **1991**, 2, 19-32 26

1889 Tip-structure effects on atomic force microscopy images. **1991**, 3, 2613-2619 16

1888 Force Microscopy Using Common-Path Optical-Heterodyne Interferometer. **1991**, 30, 587-590 7

1887 Atomic Resolution on the AgBr(001) Surface by Atomic Force Microscopy. **1991**, 15, 319-323 29

1886 Electrical and mechanical contact between rough gold surfaces in air. **1991**, 3, 5195-5201 23

1885 Monoatomic step observation on Si(111) surfaces by force microscopy in air. **1991**, 58, 2225-2227 46

1884 Twin-probe scanning tunneling microscope. **1991**, 62, 1767-1771 27

1883 Improved scanning ion-conductance microscope using microfabricated probes. **1991**, 62, 2634-2638 77

1882 Tunneling stabilized, magnetic force microscopy with a gold-coated, nickel-film tipa). **1991**, 70, 520-522 10

1881 A new force sensor incorporating force-feedback control for interfacial force microscopy. **1991**, 62, 710-715 194

1880 Optical scan-correction system applied to atomic force microscopy. **1991**, 62, 1393-1399 131

1879 Interaction between a charged or neutral particle and a semi-infinite nonpolar dielectric liquid. **1991**, 44, 8226-8232 7

1878	Roles of the attractive and repulsive forces in atomic-force microscopy. **1991**, 43, 4728-4731		119
1877	Theoretical atomic-force-microscopy study of a stepped surface: Nonlocal effects in the probe. **1991**, 43, 8822-8828		24
1876	Mechanical parametric amplification and thermomechanical noise squeezing. *Physical Review Letters*, **1991**, 67, 699-702	7.4	443
1875	Atomic-force-microscopy observations of tracks induced by swift Kr ions in mica. *Physical Review Letters*, **1991**, 67, 1582-1585	7.4	149
1874	Coupled electromagnetic modes between a corrugated surface and a thin probe tip. **1991**, 95, 2056-2064		62
1873	Enhanced effects with scanning force microscopy. **1991**, 69, 7330-7332		3
1872	van der Waals interactions between sharp probes and flat sample surfaces. **1991**, 43, 2404-2407		107
1871	A rocking beam electrostatic balance for the measurement of small forces. **1991**, 62, 705-709		37
1870	Palladium-graphite interaction potentials based on first-principles calculations. **1991**, 43, 12623-12625		15
1869	The influence of lateral forces in scanning force microscopy. **1991**, 62, 88-92		57
1868	Method of determining tip structure in atomic force microscopy. **1991**, 44, 3272-3276		14
1867	Limits of imaging resolution for atomic force microscopy of molecules. **1991**, 59, 3536-3538		105
1866	Adhesion between atomically flat metallic surfaces. **1991**, 44, 5834-5841		25
1865	ANALYTICAL TOOLS. **1991**, 1-99		7
1864	.		1
1863	Tip-sample interactions in atomic force microscopy: I. Modulating adhesion between silicon nitride and glass. **1991**, 2, 119-122		36
1862	Scanning force microscopy - With Applications to Electric, Magnetic and Atomic Forces. **1991**, 2, 649-649		78
1861	Characterization of Surface Energetic Behavior by Atomic Force Microscopy. **1992**, 31, L977-L979		13

1860	Forces Acting on a Magnet Placed over a Superconducting Plane. **1992**, 31, L477-L480		20
1859	Electrostatic interaction in scanning probe microscopy when imaging in electrolyte solutions. **1992**, 3, 60-68		48
1858	A Magnetic Force Microscope Using an Optical Lever Sensor and Its Application to Longitudinal Recording Media. **1992**, 31, L1061-L1064		10
1857	Tribology and physics. **1992**, 25, A1-A2		8
1856	New approach to numerical treatment of scanning tunneling microscopy. **1992**, 45, 283-288		1
1855	Theory for the atomic force microscopy of layered elastic surfaces. **1992**, 4, 4233-4249		14
1854	Imaging and nanodissection of individual supercoiled plasmids by atomic force microscopy. **1992**, 20, 445-7		96
1853	Atomic force microscopy imaging of double stranded DNA and RNA. **1992**, 10, 589-606		142
1852	Scanning tunnelling microscopy. **1992**, 55, 1165-1240		48
1851	Electrocatalytic Oxidation of Oxygenated Aliphatic Organic Compounds at Noble Metal Electrodes. **1992**, 97-264		85
1850	. **1992**,		3
1849	In situ observation of monolayer structures of underpotentially deposited Hg on Au(111) with the atomic force microscope. *Physical Review Letters*, **1992**, 68, 1571-1574	7.4	44
1848	Lattice and thermal misfit dislocations in epitaxial CaF2/Si(111) and BaF2-CaF2/Si(111) structures. *Physical Review Letters*, **1992**, 68, 3599-3602	7.4	62
1847	Observation of deep contact holes and conductive components underlying insulator in a memory cell by tunneling acoustic microscopy. **1992**, 60, 515-517		5
1846	. **1992**, 28, 2310-2311		19
1845	van der Waals forces in atomic force microscopy operating in liquids: A spherical-tip model. **1992**, 46, 7946-7948		29
1844	Direct measurement of the van der Waals interaction between an atom and its images in a micron-sized cavity. *Physical Review Letters*, **1992**, 68, 3432-3435	7.4	159
1843	Tip artifacts of microfabricated force sensors for atomic force microscopy. **1992**, 60, 2741-2743		79

1842	Multipolar propagators near a corrugated surface: Implication for local-probe microscopy. **1992**, 45, 1800-1810		19
1841	Theory for an electrostatic imaging mechanism allowing atomic resolution of ionic crystals by atomic force microscopy. **1992**, 45, 13815-13818		37
1840	Measuring adhesion, attraction, and repulsion between surfaces in liquids with an atomic-force microscope. **1992**, 45, 11226-11232		382
1839	Atomic force microscopy on homoepitaxial SrTiO3 films grown under monitoring of intensity oscillation in reflection high energy electron diffraction. **1992**, 61, 2659-2661		39
1838	. **1992**, 1, 14-22		55
1837	Long-range scanning for scanning tunneling microscopy. **1992**, 63, 2200-2205		19
1836	Attractive mode force microscopy using a feedback-controlled fiber interferometer. **1992**, 63, 5373-5376		6
1835	Adhesive avalanche in covalently bonded materials. **1992**, 45, 4439-4444		20
1834	Attractive-mode atomic force microscopy with optical detection in an orthogonal cantilever/sample configuration. **1992**, 71, 2499-2502		35
1833	Atomic force microscope with integrated optical microscope for biological applications. **1992**, 63, 1914-1917		37
1832	Theoretical study of short- and long-range forces and atom transfer in scanning force microscopy. **1992**, 46, 10411-10422		89
1831	Long range constant force profiling for measurement of engineering surfaces. **1992**, 63, 4289-4295		13
1830	Friction and wear of Langmuir-Blodgett films observed by friction force microscopy. *Physical Review Letters*, **1992**, 69, 1777-1780	7.4	236
1829	Improved atomic force microscope using a laser diode interferometer. **1992**, 63, 3905-3908		8
1828	Solvation forces near a graphite surface measured with an atomic force microscope. **1992**, 60, 2356-2358		119
1827	Differentiation of topographical and chemical structures using an interfacial force microscope. **1992**, 60, 1175-1177		16
1826	Nanometer-scale lithography using the atomic force microscope. **1992**, 61, 2293-2295		166
1825	Computational studies of submicron probing of polymer surfaces. I. **1992**, 96, 7072-7085		9

1824	A high stability and low drift atomic force microscope. **1992**, 63, 3900-3904	15
1823	Calibration of height in atomic force microscope images with subnanometer scale silicon dioxide steps. **1992**, 61, 2479-2481	22
1822	Magnetic imaging based on tunneling-stabilized, scanned-probe microscopies.	
1821	Mechanism of electron-spin resonance studied with use of scanning tunneling microscopy. **1992**, 46, 4795-4805	21
1820	Surface structure of hydrated amorphous silicon oxide at 3 Å resolution by scanning force microscopy. **1992**, 60, 3111-3113	13
1819	A detailed analysis of the optical beam deflection technique for use in atomic force microscopy. **1992**, 72, 6-12	190
1818	Magnetic field imaging by using magnetic force scanning tunneling microscopy. **1992**, 60, 906-908	14
1817	Models for the stray field from magnetic tips used in magnetic force microscopy. **1992**, 72, 203-206	27
1816	Atomic force microscopy of uncoated plasmid DNA: nanometer resolution with only nanogram amounts of sample. **1992**, 10, 607-17	20
1815	Thin piezoelectric VDF-TrFE copolymer films for data storage. **1992**, 1, 379-384	5
1814	Experimental Characterization of Novel Materials for Nonlinear Optics Represented by Iodoform Complexes. **1992**, 217, 13-18	2
1813	First STM Observation of Silica and Platinum-on-Silica Model Catalyst Systems. **1992**, 21, 2301-2302	3
1812	Scanning Surface Potential Microscopy for Local Surface Analysis. **1992**, 21, 2223-2226	42
1811	Reibungsmikroskopie. **1992**, 48, 1007-1009	5
1810	Imaging VLSI Cross Sections by Atomic Force Microscopy. **1992**, 265, 283	5
1809	Lattice Orientations of Evaporated Metals onto Uniaxially Oriented, Semicrystalline, Ultra thin Polymer Films. **1992**, 280, 345	1
1808	AFM Imaging of the Crystalline-to-Amorphous Transition on the Surface of Ion-Implanted Mica. **1992**, 295, 139	1
1807	AFM Imagings of Ferritin Molecules Bound to LB Films of Poly-1-Benzyl-l-Histidine: Imaging the ordered arrays of water-soluble protein ferritin with the atomic force microscope. **1992**, 295, 145	3

1806	Atomic Force Microscopy of Ammonium Perchlorate. **1992**, 296, 221		
1805	Scanning force microscopy □examples of applications to surface chemistry. **1992**, 154-161		1
1804	Investigation of polymer surfaces using scanning force microscopy (SFM) □ new direct look on old polymer problems□**1992**, 62, 141-155		1
1803	References. **1992**, 381-414		
1802	How Are the Wetting Properties of Silanated Surfaces Affected by Their Structure? An Atomic-Force Microscopy Study. **1992**, 20, 633-638		49
1801	Edge profile of relief 2D domains at the free surface of smectic copolymer thin films. *Physical Review Letters*, **1992**, 68, 1575-1578	7.4	71
1800	Paper I (I) Atomic Scale Mechanisms of Adhesion, Friction and Wear. **1992**, 21, 3-25		
1799	Tunneling stabilized magnetic force microscopy of BaFe12O19 with a thin film tip. **1992**, 61, 357-359		7
1798	. **1992**,		10
1797	Orientational ordering of polymers by atomic force microscope tip-surface interaction. **1992**, 255, 64-6		195
1796	Near-field optics: microscopy, spectroscopy, and surface modification beyond the diffraction limit. **1992**, 257, 189-95		1502
1795	Magnetic force microscopy of Abrikosov vortices. **1992**, 5, 448-452		30
1794	Spatial mapping of the sensitivity function of magnetic recording heads using a MFM as a local flux applicator.		
1793	Atomic scale imaging of hydroxyapatite and brushite in air by force microscopy. **1992**, 61, 2610-2612		13
1792	Nanotips by reverse electrochemical etching. **1992**, 60, 2935-2937		24
1791	Recent advances in surface analysis. Invited lecture. **1992**, 117, 313-322		
1790	A New Tool for Adhesion Science: The Atomic Force Microscope. **1992**, 40, 15-25		25
1789	Imaging of sodium decatungstocerate (IV) by scanning tunneling and atomic force microscopy. **1992**, 264, 271-280		27

1788	Raster-Tunnel-Mikroskopie zur Untersuchung und Modifizierung von Festkörperoberflächen. **1992**, 4, 195-201	
1787	Surface structure of fluorine-graphite intercalation compounds observed by atomic force microscopy. **1992**, 274, L524-L528	9
1786	Cleavage faces of alkaline earth fluorides studied by atomic force microscopy. **1992**, 277, L29-L33	27
1785	Atomic force microscopy studies of atomic structures on AgBr(111) surfaces. **1992**, 275, L655-L661	9
1784	Surface morphology of epitaxial CaF2 and SrF2 layers grown onto InP(001) studied by atomic force microscopy and low-energy electron diffraction. **1992**, 268, 319-324	15
1783	Scanning probe microscopy. **1992**, 340, 600-601	
1782	Wettability of MgO single crystal by liquid pure Pb, Sn and Bi. **1992**, 40, 1045-1050	30
1781	Atomic force microscopy of conventional and unconventional nucleic acid structures. **1992**, 167, 77-84	7
1780	High-resolution imaging of chromosome-related structures by atomic force microscopy. **1992**, 168, 239-47	61
1779	STM/AFM study of grain boundary migration in nanostructured solids. **1992**, 15, 180-185	28
1778	Imaging of DNA by scanning force microscopy. **1992**, 108, 69-73	38
1777	Magnetic force microscopy utilizing an ultrasensitive vertical cantilever geometry. **1992**, 61, 2108-2110	21
1776	Circular DNA molecules imaged in air by scanning force microscopy. **1992**, 31, 22-6	399
1775	Combined shear force and near-field scanning optical microscopy. **1992**, 60, 2484-2486	816
1774	Solid and liquid junctions. **1992**, 1, 1-24	51
1773	Measuring local surface charge densities in electrolyte solutions with a scanning force microscope. **1992**, 63, 578-82	135
1772	Measuring the microelastic properties of biological material. **1992**, 63, 1165-9	186
1771	Imaging the ordered arrays of water-soluble protein ferritin with the atomic force microscope. **1992**, 63, 1425-31	49

1770	Atomic-resolution surface studies of binary and ternary alkali-metal-graphite intercalation compounds by scanning tunneling microscopy. **1992**, 45, 1829-1837	24
1769	Fibrous Textured Surface of an Ultrafiltration Membrane Delineated by Atomic Force Microscope. **1992**, 31, L1495-L1497	11
1768	Vacuum Microelectronics. **1992**, 1-106	251
1767	Atomic force microscopy of single- and double-stranded DNA. **1992**, 20, 3585-90	123
1766	Atomic force microscopy of DNA molecules. **1992**, 301, 173-6	77
1765	Imaging Without Lenses. **1992**, 00, 10-10	
1764	STM and SFM. **1992**, 85-98	
1763	Molecular packing at surfaces of oriented polyimide fiber and film observed by atomic force microscopy. **1992**, 29, 557-563	8
1762	Detection of surface acoustic waves by scanning force microscopy. **1992**, 131, 69-71	50
1761	The interfacial-force microscope. **1992**, 356, 266-267	65
1760	Friction measurements on phase-separated thin films with a modified atomic force microscope. **1992**, 359, 133-135	479
1759	Atomistic mechanisms of adhesive contact formation and interfacial processes. **1992**, 153, 3-30	151
1758	Friction force microscopy of mixed Langmuir-Blodgett films. **1992**, 220, 132-137	167
1757	Cleavage faces of alkaline earth fluorides studied by atomic force microscopy. **1992**, 277, L29-L33	4
1756	Silicon cantilevers and tips for scanning force microscopy. **1992**, 34, 193-200	61
1755	Scanning force microscopy of nanostructured uniaxially oriented ultra thin film surfaces of isotactic polystyrene. **1992**, 33, 5331-5333	10
1754	Inductive forces generated by evanescent light fields: application to local probe microscopy. **1992**, 87, 79-83	14
1753	Hydration force microscopy as a new option for studies of solid□quid interfaces: Some theoretical considerations. **1992**, 330, 407-417	3

1752	The influence of hydrofluoric acid concentration on electroless copper deposition onto silicon. **1992**, 333, 363-369	28
1751	Fabrication of nanometer structures using STM. **1992**, 54, 271-277	45
1750	A study of the morphology of photochromic and thermochromic MoO3 amorphous films using an atomic force microscope. **1992**, 62, 145-149	11
1749	Atomistic processes of surface and interface formation. **1992**, 60-61, 1-12	13
1748	AFM investigation of microstructures of diacetylene Langmuir-Blodgett films. **1992**, 60-61, 321-325	10
1747	Crystal faces of anhydrite (CaSO4) and their preferential dissolution in aqueous solutions studied with AFM. **1992**, 60-61, 491-497	13
1746	Quantitative scanning tunneling microscopy and scanning force microscopy of organic materials. **1992**, 46, 375-393	82
1745	Magnetic force microscope utilizing an ultra-small-spring-constant vertically cantilevered tip. **1992**, 47, 383-392	3
1744	Magnetic force microscopy of magnetic materials. **1992**, 47, 393-399	40
1743	Evolution of resolution in microscopy. **1992**, 47, 1-14	12
1742	Plate-like microcrystals of silver bromide investigated by scanning force microscopy. **1992**, 41, 435-439	4
1741	Force microscopy. **1992**, 42-44, 7-15	90
1740	Atomic-scale tip-sample interactions and contact phenomena. **1992**, 42-44, 16-21	13
1739	Theoretical modelling of AFM for bimetallic tip-substrate interactions. **1992**, 42-44, 55-58	15
1738	Interaction forces between a tungsten tip and methylated SiO2 surfaces studied with scanning force microscopy. **1992**, 42-44, 73-79	11
1737	Influence of STM tip on electronic structure: Si(100) dimers. **1992**, 42-44, 97-104	3
1736	Adhesive energy, force and barrier height between simple metal surfaces. **1992**, 42-44, 163-168	15
1735	Large-scale charge storage by scanning capacitance microscopy. **1992**, 42-44, 262-267	35

1734	Structure and dynamics of solid surfaces observed by atomic force microscopy. **1992**, 42-44, 274-280	24
1733	Investigation of the (001) cleavage plane of potassium bromide with an atomic force microscope at 4.2 K in ultra-high vacuum. **1992**, 42-44, 281-289	76
1732	Atomic surface and lattice structures of AgBr thin films. **1992**, 42-44, 290-297	18
1731	Mechanical and thermal effects of laser irradiation on force microscope cantilevers. **1992**, 42-44, 345-350	84
1730	Laser thermal effects on atomic force microscope cantilevers. **1992**, 42-44, 371-378	35
1729	Self-consistent study of the electromagnetic coupling between a thin probe tip and a surface: implication for atomic-force and near-field microscopy. **1992**, 42-44, 430-436	6
1728	Buckyball-substrate interactions probed by STM and AFM. **1992**, 42-44, 610-615	19
1727	Atomic-scale imaging of anisotropic organic conductors by scanning probe techniques (STM/AFM). **1992**, 42-44, 644-652	10
1726	Magnetic force microscopy investigation of superconductors: first results. **1992**, 42-44, 757-763	6
1725	Molecular surface structure of organic crystals observed by atomic force microscopy. **1992**, 42-44, 983-988	15
1724	Investigating poly(1-butene) films by SFM/STM. **1992**, 42-44, 989-997	11
1723	Surface analysis of organic superconductors by scanning probe techniques: STM and AFM. **1992**, 42-44, 1009-1018	16
1722	Imaging of organic molecular films with the atomic force microscope. **1992**, 42-44, 1044-1048	20
1721	Ambient-pressure scanning probe microscopy of 2D regular protein arrays. **1992**, 42-44, 1118-1124	12
1720	Streptavidin binding observed with an atomic force microscope. **1992**, 42-44 (Pt B), 1125-32	42
1719	Na,K-ATPase in crystalline form investigated by scanning force microscopy. **1992**, 42-44 (Pt B), 1133-40	11
1718	Electrodeposition procedure of E. coli RNA polymerase onto gold and deposition of E. coli RNA polymerase onto mica for observation with scanning force microscopy. **1992**, 42-44 (Pt B), 1173-80	9
1717	Investigation of dialysis membranes with atomic force microscopy. **1992**, 42-44 (Pt B), 1181-8	14

1716	Scanning force microscopy studies of the S-layers from Bacillus coagulans E38-66, Bacillus sphaericus CCM2177 and of an antibody binding process. **1992**, 42-44 (Pt B), 1236-42	34
1715	Substrate preparation for reliable imaging of DNA molecules with the scanning force microscope. **1992**, 42-44 (Pt B), 1243-9	224
1714	AFM images of dissolution and growth on a calcite crystal. **1992**, 42-44, 1387-1393	121
1713	The atomic force microscope used as a powerful tool for machining surfaces. **1992**, 42-44, 1446-1451	75
1712	Force measurement with a piezoelectric cantilever in a scanning force microscope. **1992**, 42-44, 1464-1469	36
1711	A theoretical comparison between interferometric and optical beam deflection technique for the measurement of cantilever displacement in AFM. **1992**, 42-44, 1509-1513	28
1710	Microfabrication of AFM tips using focused ion and electron beam techniques. **1992**, 42-44, 1526-1532	50
1709	Atomic force microscope coupled with an optical microscope. **1992**, 42-44, 1542-1548	23
1708	Atomic force microscope featuring an integrated optical microscope. **1992**, 42-44, 1549-1552	14
1707	AFM and STM activities at advanced technologies center. **1992**, 42-44, 1596-1601	5
1706	Proposal for a new optical device to sense AFM forces. **1992**, 42-44, 1668-1670	5
1705	The surface structure and morphology of polyvinylidene fluoride microfiltration membranes by atomic force microscopy. **1992**, 68, 65-78	34
1704	Surface pore structures of micro- and ultrafiltration membranes imaged with the atomic force microscope. **1992**, 65, 101-111	116
1703	DNA and RNA polymerase/DNA complex imaged by scanning force microscopy: Influence of molecular-scale friction. **1992**, 14, 212-217	43
1702	Atomic force microscope imaging of the plasma membrane Ca2+ ATPase reconstituted in phospholipids. **1992**, 14, 276-281	4
1701	AFM observations of the surface morphology of metallic glasses Fe78B13Si9 in the early stage of crystallization. **1992**, 7, 2126-2130	17
1700	Reproducible imaging and dissection of plasmid DNA under liquid with the atomic force microscope. **1992**, 256, 1180-4	451
1699	Atomic force microscopy of reovirus dsRNA: a routine technique for length measurements. **1992**, 20, 3983-6	85

1698	Magnetic force microscopy signal of flux line above a semi-infinite type II-superconductor. **1992**, 88, 317-320	43
1697	Atomic-scale contrast mechanism in atomic force microscopy. **1992**, 88, 321-326	32
1696	Atomic force microscopy for high-resolution imaging in cell biology. **1992**, 2, 208-13	167
1695	Defect structures of Langmuir-Blodgett films investigated by scanning force microscopy. **1992**, 210-211, 655-658	18
1694	Molecular recognition reactions at interfaces as seen by fluorescence, plasmon surface polaritons and atomic force microscopy. **1992**, 210-211, 666-669	10
1693	Molecular resolution of thin, highly oriented poly (tetrafluoroethylene) films with the atomic force microscope. **1992**, 33, 647-649	86
1692	Atomic force microscopy of polymer crystals: 1. Chain fold domains in poly(ethylene oxide) lamellae. **1992**, 33, 432-433	37
1691	Atomic force microscopy. **1992**, 41, 3-49	179
1690	Interactions of von Willebrand factor on mica studied by atomic force microscopy. **1992**, 148, 261-272	30
1689	Scanning probe microscopy of carbon fiber surfaces. **1992**, 30, 315-331	32
1688	Photodimerisierungen von Zimtsäure im Kristall: Neue Ergebnisse durch Anwendung der Kraftmikroskopie. **1992**, 104, 606-609	20
1687	Rastertunnel- und Kraftmikroskopie in der Organischen Chemie. **1992**, 104, 1325-1357	48
1686	Recent developments in the measurement of interparticle forces. **1993**, 44, 183-240	34
1685	In-situ organization of nanoparticles by scanning force microscopy under terrestrial and microgravity conditions. **1993**, 46, 221-262	6
1684	Surface microanalysis. **1993**, 283, 19-34	4
1683	Rasterkraftmikroskopie: Sehen durch Fühlen. **1993**, 23, 377-382	
1682	Nanomachining and manipulation with the atomic force microscope. **1993**, 5, 392-394	10
1681	Detection of in situ hybridization to human chromosomes with the atomic force microscope. **1993**, 14, 356-61	37

1680 An atomic force microscopy study of corona-treated polypropylene films. **1993**, 64, 197-203 45

1679 Observation of recorded tracks in GeSbTe phase-change media by AFM. **1993**, 72, 245-248 3

1678 Imaging of polydiacetylenes by atomic force microscopy. **1993**, 65-66, 366-370 8

1677 Friction and measurement of friction on a nanometer scale. **1993**, 62, 510-516 14

1676 Atomic-scale tribometer for friction studies in a controlled atmosphere. **1993**, 62, 523-528 29

1675 Scanning force microscopy at -25°C. **1993**, 50, 147-155 4

1674 Immunogold labels: cell-surface markers in atomic force microscopy. **1993**, 48, 177-182 49

1673 Atomic layer-by-layer surface removal by force microscopy. **1993**, 293, L863-L869 1

1672 Atomic force microscopy for the surface structure of the CuCl2-graphite intercalation compound. **1993**, 291, L759-L762 3

1671 Surface and domain structures of ferroelectric GASH crystals studied by scanning force microscopy. **1993**, 285, L498-L502 3

1670 Fractured polymer/silica fiber surface studied by tapping mode atomic force microscopy. **1993**, 290, L688-L692163

1669 Lattice-scale imaging of mica and clay (001) surfaces by atomic force microscopy using net attractive forces. **1993**, 284, L405-L410 6

1668 Atomic force microscopy for transition metals and tip structure effects. **1993**, 294, L969-L975 1

1667 Role of relative humidity in atomic force microscopy imaging. **1993**, 294, L939-L943 21

1666 Imaging of zeolite surface structures by atomic force microscopy. **1993**, 281, 331-334 8

1665 Wear resistance of C+-implanted silicon investigated by scanning probe microscopy. **1993**, 162-164, 733-738 35

1664 Microtribology today and tomorrow. **1993**, 168, 1-5 18

1663 Effects of humidity and tip radius on the adhesive force measured with atomic force microscopy. **1993**, 168, 13-16 40

1662	Surface roughness investigation of magnetic recording disks using STM and profilometry measurements. **1993**, 170, 15-24	9
1661	Tribochemical characterization of the worn surface of the ternary system Cu-Ni-Zn. **1993**, 161, 187-191	1
1660	Microwear processes of polymer surfaces. **1993**, 162-164, 370-377	51
1659	Nucleation of diamond particles by hot filament chemical vapour deposition. **1993**, 236, 115-119	17
1658	Effect of Tool Edge Geometry on Energy Dissipation in Ultraprecision Machining. **1993**, 42, 83-86	152
1657	Nanotopography of Ultraprecise Ground Surface of Fine Ceramics Using Atomic Force Microscope. **1993**, 42, 647-650	9
1656	CR-39 imaged by atomic force microscope. **1993**, 22, 249-250	
1655	Surface morphology of metalorganic vapour phase epitaxy grown InP observed by atomic force microscopy. **1993**, 133, 185-188	2
1654	Surface morphology and lattice distortion of heteroepitaxial GaInP on InP. **1993**, 130, 433-443	14
1653	Crystallographic structure and defects in epitaxial bismuth films grown on mica. **1993**, 130, 571-577	8
1652	Lattice resolution and solution kinetics on surfaces of amino acid crystals: an atomic force microscope study. **1993**, 130, 333-340	44
1651	In-situ and real time monitoring of the InSe surface by atomic force microscopy with atomic resolution during electrochemical reactions. **1993**, 357, 301-306	19
1650	Atomic force and scanning tunneling microscopies of organic surfaces. **1993**, 292, 29-47	29
1649	First images obtained in the near infrared spectrum with the photon scanning tunneling microscope. **1993**, 102, 1-5	9
1648	Internal structure of Kevlarfi fibres by atomic force microscopy. **1993**, 34, 4573-4575	40
1647	Detection of displacements in the nanometre range by optical tunnelling. **1993**, 37-38, 577-581	0
1646	Comb actuators for xy-microstages. **1993**, 39, 83-89	23
1645	Atomic force microscopy of C60/C70 single-crystal fullerenes under ethanol. **1993**, 56, 207-210	11

1644	Imaging the lamellipodium of migrating epithelial cells in vivo by atomic force microscopy. **1993**, 425, 506-10	33
1643	Scanning force microscopy of nanofibrillar structure of drawn polyethylene tapes. **1993**, 31, 693-698	23
1642	Atomic force microscopy of mammalian sperm chromatin. **1993**, 102, 623-30	69
1641	A survey of non-destructive surface characterization methods used to insure reliable gate oxide fabrication for silicon IC devices. **1993**, 20, 127-139	20
1640	AFM, SEM and XPS characterization of PAN-based carbon fibres etched in oxygen plasmas. **1993**, 28, 3601-3611	52
1639	Molecular structure and thickness of highly oriented poly(tetrafluoroethylene) films measured by atomic force microscopy. **1993**, 28, 1372-1376	57
1638	Domain structure of Ba ferrite observed by tunneling stabilized magnetic force microscopy. **1993**, 120, 379-382	4
1637	Magnetic contrast from domain walls in BaFe12O19 by tunneling stabilized magnetic force microscopy. **1993**, 91, 403-405	2
1636	Investigation of nanoparticles by atomic and lateral force microscopy. **1993**, 15, 130-135	5
1635	Applications of scanning probe microscopies in technology and manufacturing. **1993**, 15, 283-290	7
1634	Recent advances in atomic force microscopy of DNA. **1993**, 15, 296-9	114
1633	Trends in surface and interface analysis. **1993**, 346, 594-603	16
1632	Atomic Force Microscopy of technological and biological samples. **1993**, 346, 58-60	
1631	A combination of atomic force microscopy and secondary ion mass spectrometry for investigation of AlxGa1⊠As/GaAs superlattices. **1993**, 345, 615-617	6
1630	Effects of oxygen doping on properties of microcrystalline silicon film grown using rapid thermal chemical vapor deposition. **1993**, 22, 1345-1351	6
1629	Nonlinear Detection of Ultrasonic Vibrations in an Atomic Force Microscope. **1993**, 32, L1095-L1098	250
1628	Scanning microsensors for nanotechnology. **1993**, 37-38, 11-15	
1627	Use of atomic force microscopy for surface roughness determination of ball bearings. **1993**, 62, 517-522	4

1626	Scanning probe microscope with interchangeable AFM-FFM and STM heads. **1993**, 15, 279-292	13
1625	Calibration of atomic-force microscope tips. **1993**, 64, 1868-1873	3213
1624	Light scatter from polysilicon and aluminum surfaces and comparison with surface-roughness statistics by atomic force microscopy. **1993**, 32, 3377-400	8
1623	Recent developments in profiling optical surfaces. **1993**, 32, 3442-7	10
1622	Surface-Enhanced Raman Scattering and Atomic Force Microscopy of Brass Electrodes in Sulfuric Acid Solution Containing Benzotriazole and Chloride Ion. **1993**, 47, 80-84	6
1621	Scanning-force microscope based on an optical trap. **1993**, 18, 1678-80	176
1620	Immobilizing DNA on gold via thiol modification for atomic force microscopy imaging in buffer solutions. **1993**, 336, 452-6	95
1619	Structure and morphology of nanostructured oxides synthesized by thermal vaporization/magnetron sputtering and gas condensation. **1993**, 24, 315-338	26
1618	Atomic force microscopy for transition metals and tip structure effects. **1993**, 294, L969-L975	2
1617	Role of relative humidity in atomic force microscopy imaging. **1993**, 294, L939-L943	75
1616	Atomic layer-by-layer surface removal by force microscopy. **1993**, 293, L863-L869	12
1615	Atomic force microscopy for the surface structure of the CuCl2-graphite intercalation compound. **1993**, 291, L759-L762	
1614	Lattice-scale imaging of mica and clay (001) surfaces by atomic force microscopy using net attractive forces. **1993**, 284, L405-L410	19
1613	Fractured polymer/silica fiber surface studied by tapping mode atomic force microscopy. **1993**, 290, L688-L692	786
1612	Imaging of zeolite surface structures by atomic force microscopy. **1993**, 281, L331-L334	22
1611	Surface and domain structures of ferroelectric GASH crystals studied by scanning force microscopy. **1993**, 285, L498-L502	28
1610	Step dynamics and spiral growth on calcite. **1993**, 57, 491-495	208
1609	Imaging viscoelasticity by force modulation with the atomic force microscope. **1993**, 64, 735-42	360

1608	STM/AFM/MFM Characterization of Electronic and Magnetic Materials and Their Applications. **1993**, 8, 226-235	
1607	Domain structures in langmuir-blodgett films investigated by atomic force microscopy. **1993**, 259, 213-6	196
1606	Scanning force microscopy of nucleic acids and nucleoprotein assemblies. **1993**, 3, 363-372	116
1605	Structure of langmuir-blodgett films of disk-shaped molecules determined by atomic force microscopy. **1993**, 260, 323-6	88
1604	True atomic resolution by atomic force microscopy through repulsive and attractive forces. **1993**, 260, 1451-6	563
1603	Photon tunneling microscopy of polymeric surfaces. **1993**, 262, 1395-400	38
1602	The role of topography and friction for the image contrast in lateral force microscopy. **1993**, 4, 143-151	83
1601	A nondestructive method for determining the spring constant of cantilevers for scanning force microscopy. **1993**, 64, 403-405	1460
1600	First images from a magnetic resonance force microscope. **1993**, 63, 2496-2498	81
1599	Atomic force microscopy of oriented linear DNA molecules labeled with 5nm gold spheres. **1993**, 21, 99-103	61
1598	Physics of electrophotography. **1993**, 65, 163-211	249
1597	Regulation of a microcantilever response by force feedback. **1993**, 62, 2344-2346	215
1596	Atomic force microscopy of DNA in aqueous solutions. **1993**, 21, 505-12	190
1595	Electron reflection, diffraction and imaging of bulk crystal surfaces in TEM and STEM. **1993**, 56, 997-1065	24
1594	Influence of substrate polarization on epitaxial overgrowth of a deposit. **1993**, 140, 59-64	3
1593	.	5
1592	z calibration of the atomic force microscope by means of a pyramidal tip. **1993**, 64, 2595-2597	16
1591	Inelastic electron tunneling spectroscopy and atomic force microscopy investigation of ultrathin sputtered amorphous silica films on gold. **1993**, 73, 2347-2352	8

1590	Multifunctional probe microscope for facile operation in ultrahigh vacuum. **1993**, 63, 117-119	134
1589	Scanning probe microscopy studies of electromigration in electroplated Au wires. **1993**, 73, 8189-8197	23
1588	Friction force measurements on potential controlled graphite in an electrolytic environment. **1993**, 4, 59-63	44
1587	.	
1586	Strained-layer van der Waals epitaxy in a Langmuir-Blodgett film. **1993**, 261, 449-52	57
1585	A novel force microscope and point contact probe. **1993**, 64, 3515-3520	119
1584	Surface morphology of nanocrystalline titanium oxide by AFM. **1993**, 3, 273-281	7
1583	Investigation of diamond thin film growth on ferrous surfaces. **1993**, 2, 353-356	13
1582	Microscopic manipulation of materials by atomic force microscopy. **1993**, 64, 903-4	1
1581	Scanning tunneling microscopy studies of organic conductors. **1993**, 55, 426-433	2
1580	In-situ synchrotron X-ray reflectivity measurements at the calcite-water interface. **1993**, 57, 4103-4110	60
1579	Calcite precipitation mechanisms and inhibition by orthophosphate: In situ observations by Scanning Force Microscopy. **1993**, 57, 705-714	273
1578	Scan speed limit in atomic force microscopy. **1993**, 169, 75-84	179
1577	Promises and problems of biological atomic force microscopy. **1993**, 171, 183-98	89
1576	Structure of the extracellular surface of the gap junction by atomic force microscopy. **1993**, 65, 149-63	169
1575	Direct visualization of polypeptide shell of ferritin molecule by atomic force microscopy. **1993**, 65, 573-7	22
1574	Colloidal gold particles as an incompressible atomic force microscope imaging standard for assessing the compressibility of biomolecules. **1993**, 65, 992-7	197
1573	Two-dimensional crystallization of streptavidin by nonspecific binding to a surface film: study with a scanning electron microscope. **1993**, 65, 1714-7	29

1572	Covalent binding of biological samples to solid supports for scanning probe microscopy in buffer solution. **1993**, 65, 2437-46	152
1571	Observation of living cells using the atomic force microscope. **1993**, 64, 539-44	80
1570	Attaching molecules to surfaces for scanning probe microscopy. **1993**, 64, 896-7	15
1569	Cytoskeleton of living, unstained cells imaged by scanning force microscopy. **1993**, 64, 1282-6	56
1568	Atomic resolution with an atomic force microscope using piezoresistive detection. **1993**, 62, 834-836	491
1567	Tip sharpening by normal and reverse electrochemical etching. **1993**, 64, 159-167	72
1566	Tip artifacts in atomic force microscope imaging of thin film surfaces. **1993**, 74, 3608-3610	80
1565	Deformation and height anomaly of soft surfaces studied with an AFM. **1993**, 4, 106-113	357
1564	Defect Formation in Alkali Halide Crystals. **1993**, 220-269	1
1563	Atomic force microscopy and surface-enhanced Raman spectroscopy. I. Ag island films and Ag film over polymer nanosphere surfaces supported on glass. **1993**, 99, 2101-2115	416
1562	Fundamentals and Special Applications of Non-Contact Scanning Force Microscopy. **1993**, 49-200	20
1561	Contributed Papers in Specimen Mineralogy: 19th Rochester Mineralogical Symposium. **1993**, 68, 122-128	1
1560	Analysis of banded human chromosomes and in situ hybridization patterns by scanning force microscopy. **1993**, 90, 2509-11	43
1559	Atomic force microscopy of biochemically tagged DNA. **1993**, 90, 3811-4	46
1558	Characterization by atomic-force microscopy of nanometre-scale plastic damage in Sic single crystals after being sintered by hot isostatic pressing. **1993**, 68, 45-52	4
1557	Surface Characterization of Materials at Ambient Conditions by Scanning Tunneling Microscopy (STM) and Atomic Force Microscopy (AFM). **1993**, 28, 1-121	43
1556	Scanning force microscopy of heavy-ion tracks. **1993**, 126, 213-216	11
1555	Characterizing the nano-surface of carbon fibers in order to gain a better understanding of the interfaces they form. **1993**, 1, 15-35	3

1554	Imaging of Organic Molecules by Atomic Force Microscopy. **1993**, 32, 2958-2961	8
1553	Voltage contrast in integrated circuits with 100 nm spatial resolution by scanning force microscopy. **1993**, 26, 1801-1805	36
1552	Observation of Atomic Defects on LiF(100) Surface with Ultrahigh Vacuum Atomic Force Microscope (UHV AFM). **1993**, 32, 2980-2982	37
1551	Scanning Tunneling Microscope and Atomic Force Microscope Observation of Topography of Molecular-Beam-Epitaxy-Grown Pt Films on Cu Buffer Layer and Si(111)-(7⎚) Substrate. **1993**, 32, 2940-2944	4
1550	A miniature fibre optic force microscope scan head. **1993**, 4, 769-775	40
1549	Development of a force sensor for atomic force microscopy using piezoelectric thin films. **1993**, 4, 218-224	94
1548	Microfabricated tools for nanoscience. **1993**, 3, 161-167	9
1547	Atomic Force Microscope Combined with Scanning Tunneling Microscope [AFM/STM]. **1993**, 32, 2983-2988	35
1546	Novel Method for Detecting Resonant Frequency Shift in Atomic Force Microscopy. **1993**, 32, 2455-2458	3
1545	Scanning Force/Tunneling Microscopy as a Novel Technique for the Study of Nanometer-Scale Dielectric Breakdown of Silicon Oxide Layer. **1993**, 32, 290-293	17
1544	A Novel Atomic Force Microscopy Observation Technique for Secondary Defects of Ion Implantation, using Anodic Oxidation. **1993**, 32, L157-L159	2
1543	Atomic Force Microscopy Imaging of Filamentous Aggregates from an N-Terminal Peptide Fragment of Barnase. **1993**, 32, 2965-2968	3
1542	High Resolution Images of Cell Surface Using a Tapping-Mode Atomic Force Microscope. **1993**, 32, L1711-L1714	37
1541	A digital control system for scanning tunnelling microscopy and atomic force microscopy. **1993**, 4, 270-280	26
1540	Whole electronic cantilever control for atomic force microscopy. **1993**, 64, 2598-2600	3
1539	Surface and domain structures of ferroelectric crystals studied with scanning force microscopy. **1993**, 74, 7461-7471	143
1538	Electron spin resonance-scanning tunneling microscopy experiments on thermally oxidized Si(111). **1993**, 48, 4887-4890	39
1537	A multipurpose scanning probe microscope. **1993**, 64, 2591-2594	3

1536	Ultrahigh vacuum atomic force microscope using a pantograph inchworm mechanism. **1993**, 64, 3524-3529		9
1535	Calibration and evaluation of scanning-force-microscopy probes. **1993**, 48, 5675-5678		132
1534	Thermal imaging using the atomic force microscope. **1993**, 62, 2501-2503		189
1533	Manipulation of van der Waals forces to improve image resolution in atomic-force microscopy. **1993**, 73, 4123-4129		70
1532	Electron holography in the study of the leakage field of magnetic force microscope sensor tips. **1993**, 62, 1839-1841		14
1531	Dynamic mode force microscopy for the detection of lateral and vertical electrostatic forces. **1993**, 63, 2573-2575		9
1530	Ultrafast scanning probe microscopy. **1993**, 63, 2567-2569		98
1529	Novel design for a compact fiber-optic scanning force microscope. **1993**, 64, 2888-2891		5
1528	Observation of thin film of one-dimensional organic conductor tetrathiofulvalene tetracyanoquinodimethane by means of atomic force microscopy. **1993**, 62, 1892-1894		15
1527	A high performance scanning force microscope head design. **1993**, 64, 904-907		3
1526	An optical detection low temperature atomic force microscope at ambient pressure for biological research. **1993**, 64, 1483-1488		46
1525	Jump to contact, neck formation, and surface melting in the scanning tunneling microscope. *Physical Review Letters*, **1993**, 70, 3907-3910	7.4	88
1524	Hypothetical long-range interactions and restrictions on their parameters from force measurements. **1993**, 47, 2882-2891		27
1523	Use of the Atomic Force Microscope to Study Mechanical Properties of Lubricant Layers. **1993**, 18, 20-25		29
1522	An Atomic Force Microscopy Study of the Wetting of an Inorganic Surface by Latex Particles. **1993**, 42, 255-263		10
1521	Study of silicon surfaces bombarded with noble gas ions in an electron cyclotron resonance plasma. **1993**, 74, 5217-5224		8
1520	Theoretical atomic-force-microscopy study of adsorbed fullerene molecules. **1993**, 48, 15417-15424		11
1519	Charge reversal seen in electrical double layer interaction of surfaces immersed in 2:1 calcium electrolyte. **1993**, 99, 6098-6113		171

1518	Jumps in electronic conductance due to mechanical instabilities. *Physical Review Letters*, **1993**, 70, 2138-2141	7.4	199
1517	Commensurate defect superstructures in a Langmuir-Blodgett film. *Physical Review Letters*, **1993**, 70, 1267-1270	7.4	43
1516	Apparent and true feature heights in force microscopy. **1993**, 63, 114-116		13
1515	Direct measurement of size fluctuation in reverse-mesa etched quantum wire structures by the atomic force microscope. **1993**, 62, 2350-2352		4
1514	Surface morphology of metalorganic vapor phase epitaxy grown GaAs observed by atomic force microscopy. **1993**, 63, 1839-1841		13
1513	A detection technique for scanning force microscopy. **1993**, 64, 912-916		13
1512	Observation of contact holes by atomic force microscopy with a ZnO whisker tip. **1993**, 74, 4354-4356		17
1511	Scanned-cantilever atomic force microscope. **1993**, 64, 908-911		22
1510	Studies of dynamic magnetostriction by time-resolved scanning fiber interferometry. **1993**, 63, 1200-1202		7
1509	Characterization of atomic force microscope tips by adhesion force measurements. **1993**, 63, 2150-2152		54
1508	Discriminating Molecular Length of Chemically Adsorbed Molecules Using an Atomic Force Microscope Having a Tip Covered with Sensor Molecules (An Atomic Force Microscope Having Chemical Sensing Function). **1993**, 32, L294-L296		76
1507	Nanotribology: Friction on a nanometer scale. **1993**, T49B, 599-604		31
1506	Tribological Investigations Using Friction Force Microscopy. **1993**, 18, 26-34		127
1505	Nanometer Recording on Graphite and Si Substrate Using an Atomic Force Microscope in Air. **1993**, 32, L464-L467		35
1504	Interfacial Junctions and Cavitation. **1993**, 18, 36-44		23
1503	Scanning Tunneling and Atomic Force Microscopy of T4 Bacteriophage and Tobacco Mosaic Virus. **1993**, 32, 2962-2964		16
1502	Interpretation of force curves in force microscopy. **1993**, 4, 64-80		270
1501	Nanoindentation studies of sublimed fullerene films using atomic force microscopy. **1993**, 8, 3019-3022		58

1500 Scanning Probe Microscopy of Thin Films. **1993**, 18, 41-49 63

1499 3. Extensions of STM. **1993**, 77-94

1498 Atomic force microscopy of cloned nicotinic acetylcholine receptor expressed in Xenopus oocytes. **1993**, 90, 7280-4 44

1497 Thickness Measurements and Optical Characterization of Thin Polymer Films. **1993**, 304, 221

1496 Mechanics of Contacts at less than 100 Scale: Indentation and AFM. **1993**, 308, 127 5

1495 Study of Silicon Surface Roughness by Atomic Force Microscopy. **1993**, 324, 391 3

1494 Surface analysis: current capabilities. **1993**, 9, 365-377 6

1493 Imaging of reconstituted biological channels at molecular resolution by atomic force microscopy. **1993**, 265, C851-6 28

1492 Transmission electron microscopy, scanning tunneling microscopy, and atomic force microscopy of the cell envelope layers of the archaeobacterium Methanospirillum hungatei GP1. **1993**, 175, 1946-55 35

1491 Biological applications of atomic force microscopy. **1994**, 266, C1-21 307

1490 Atomic force microscopy at ultrasonic frequencies. **1994**, 3

1489 The Study of the Surface Topography of Microporous Materials Using Atomic Force Microscopy. **1994**, 485-492 7

1488 . **1994**, 3

1487 Atomic force microscopy produces faithful high-resolution images of protein surfaces in an aqueous environment. **1994**, 91, 836-8 158

1486 Observation of GaAs(110) Surface by an Ultrahigh-Vacuum Atomic Force Microscope. **1994**, 33, 3739-3742 11

1485 Microtribological Studies by Using Atomic Force and Friction Force Microscopy and its Applications. **1994**, 332, 93 3

1484 Atomic Force Microscope Images of Black Spruce Wood Sections and Pulp Fibres. **1994**, 48, 29-34 44

1483 Probing specific molecular conformations with the scanning force microscope. Complexes of plasmid DNA and anti-Z-DNA antibodies. **1994**, 22, 3288-92 31

1482	Surface force interactions between micrometer-size polystyrene spheres and silicon substrates using atomic force techniques. **1994**, 8, 197-210	48
1481	Shear stress-induced reorganization of the surface topography of living endothelial cells imaged by atomic force microscopy. **1994**, 74, 163-71	287
1480	Fundamental noise, electromechanical transduction and their role in resonant gravitational-wave detectors. **1994**, 11, A61-A72	2
1479	A differential interferometer for scanning force microscopy. **1994**, 5, 1350-1354	20
1478	Field Evaporation of Metal Atoms onto Insulator/Conducting Substrate Using Atomic Force Microscope. **1994**, 33, L1358-L1361	8
1477	Atomically Resolved Image of Cleaved GaAs(110) Surface Observed with an Ultrahigh Vacuum Atomic Force Microscope. **1994**, 33, L52-L54	10
1476	Fluctuation in Two-Dimensional Stick-Slip Phenomenon Observed with Two-Dimensional Frictional Force Microscope. **1994**, 33, 3752-3755	34
1475	Piezoelectric Sensor for Detecting Force Gradients in Atomic Force Microscopy. **1994**, 33, 334-340	29
1474	Atomic Force Microscopy and Real Atomic Resolution. Simple Computer Simulations. **1994**, 26, 103-107	25
1473	Atomic Force Microscopy in Ultrahigh Vacuum. **1994**, 33, 3726-3734	65
1472	Measurements of Electrostatic Double-Layer Forces Due to Charged Functional Groups on Langmuir-Blodgett Films with an Atomic Force Microscope. **1994**, 33, 4718-4722	25
1471	Analysis of Subsurface Imaging and Effect of Contact Elasticity in the Ultrasonic Force Microscope. **1994**, 33, 3197-3203	63
1470	A comparative study of local magnetic properties of vanadium and chromium adsorbed on graphite. **1994**, 6, 3321-3328	3
1469	Elastic Compliances Measured by Atomic Force Microscopy. **1994**, 26, 443-447	25
1468	Atomic Force Microscopy of Solution Grown Polyethylene Single Crystals. **1994**, 33, 3771-3774	19
1467	Method for imaging sidewalls by atomic force microscopy. **1994**, 64, 2498-2500	142
1466	Morphology of plasma polymerized methyl methacrylate films. **1994**, 64, 560-562	12
1465	Imaging of single polymer chains based on their elasticity. **1994**, 65, 1915-1917	23

1464	Low temperature magnetic force microscope utilizing a piezoresistive cantilever. **1994**, 65, 1308-1310	67
1463	Theoretical study of friction: One-dimensional clean surfaces. **1994**, 49, 17286-17292	77
1462	Photon scanning tunneling microscope in combination with a force microscope. **1994**, 75, 1254-1257	24
1461	Scanning tunneling microscope measurement of insulator surfaces. **1994**, 64, 1100-1102	9
1460	An integrated scanning tunneling, atomic force and lateral force microscope. **1994**, 65, 85-88	7
1459	.	2
1458	Shape of the cantilever deflection for the atomic force microscope in force curve measurements. **1994**, 65, 1930-1934	9
1457	Fabrication of optical fiber probes for nanometer-scale dimensional metrology. **1994**, 65, 2538-2541	6
1456	Atomic-scale wear properties of muscovite mica evaluated by scanning probe microscopy. **1994**, 65, 980-982	34
1455	Scanning shearing-stress microscope. **1994**, 64, 124-125	14
1454	.	
1453	Difference between the forces measured by an optical lever deflection and by an optical interferometer in an atomic force microscope. **1994**, 65, 644-647	41
1452	Beetle-like scanning tunneling microscope for ultrahigh vacuum and low-temperature applications. **1994**, 65, 1918-1922	25
1451	A femtojoule calorimeter using micromechanical sensors. **1994**, 65, 3793-3798	229
1450	Self-assembled monolayer film for enhanced imaging of rough surfaces with atomic force microscopy. **1994**, 76, 5731-5737	30
1449	Magnetic force microscopy using electron-beam fabricated tips. **1994**, 65, 3224-3228	45
1448	A new electrochemical cell for atomic force microscopy. **1994**, 65, 1019-1020	15
1447	A dynamic model for analyzing piezoelectric stepmotors. **1994**, 65, 1566-1569	2

1446	Physical interaction between tip and molecules in scanning force microscopy imaging of adsorbed C60 and fullerene tubules. **1994**, 101, 10973-10979		2
1445	Ansiotropy in friction and molecular stick-slip motion. *Physical Review Letters*, **1994**, 72, 3546-3549	7.4	147
1444	Flux measurements on ferromagnetic microprobes by electron holography. **1994**, 50, 6823-6828		29
1443	Low-temperature elastic moduli and dilational and shear internal frictions of superconducting ceramic GdBa2Cu3O7- delta. **1994**, 49, 13099-13105		34
1442	Quantum-limited measurements with the atomic force microscope. **1994**, 50, 5256-5263		69
1441	Theoretical analysis of light-inductive forces in scanning probe microscopy. **1994**, 49, 13872-13881		35
1440	Atomic force microscope integrated with a scanning electron microscope for tip fabrication. **1994**, 65, 787-789		12
1439	Three-dimensional probe reconstruction for atomic force microscopy. **1994**, 65, 2249-2251		64
1438	Effects of the long-range macroscopic forces on atomic-force-microscope images. **1994**, 49, 2875-2877		5
1437	Atomic force microscope using piezoresistive cantilevers and combined with a scanning electron microscope. **1994**, 65, 2878-2880		48
1436	Adhesion force imaging in air and liquid by adhesion mode atomic force microscopy. **1994**, 65, 1195-1197		166
1435	A combined scanning tunneling, scanning force, frictional force, and attractive force microscope. **1994**, 65, 390-393		9
1434	Scanning force microscope springs optimized for optical-beam deflection and with tips made by controlled fracture. **1994**, 76, 172-181		27
1433	Scanning nearfield optical microscope using microfabricated probes. **1994**, 65, 2737-2738		31
1432	. **1994**, 17, 257-262		16
1431	Corona-treated isotactic polypropylene films investigated by friction force microscopy. **1994**, 75, 1401-1404		20
1430	Dispersion of surface plasmons in rectangular, sinusoidal, and incoherent silver gratings. **1994**, 75, 1577-1581		19
1429	Atomic force microscope with magnetic force modulation. **1994**, 65, 639-643		129

1428 Component-resolved imaging of surface magnetic fields. **1994**, 75, 5910-5912 7

1427 Aspects of the surface roughness of ceramic bonding tools on a nanometer scale investigated with atomic force microscopy. **1994**, 253, 308-310 20

1426 Structural investigation of dipping lines in Langmuir-Blodgett films by scanning force microscopy. **1994**, 242, 170-173 6

1425 Imaging of living cells by atomic force microscopy. **1994**, 46, 39-60 93

1424 Atomic force microscopy observations of iron-sapphire fracture surfaces. **1994**, 176, 405-409 1

1423 Piezoelectric force sensor for scanning force microscopy. **1994**, 43, 305-310 24

1422 Applications of atomic force microscopy to structural characterization of organic thin films. **1994**, 93, 305-333 24

1421 Fine structure of abnormal filaments isolated from Alzheimer's diseased brain: an application of atomic force microscopy. **1994**, 87, 213-216 3

1420 Surface analysis with atomic force microscopy through measurement in air and under liquids. **1994**, 113, 179-202 20

1419 Fractionation and characterization of Texas lignite class F fly ash by XRD, TGA, FTIR, and SFM. **1994**, 24, 1153-1164 51

1418 Surface morphology and nanostructure of high modulus polyethylene fiber. **1994**, 32, 235-240 7

1417 Scanning tunneling microscopy study of molecular order at liquid-solid interfaces. **1994**, 59, 119-133 27

1416 Scanning force microscopy of the crystalline/amorphous interface of ultradrawn poly(ethylene). **1994**, 59, 145-150 9

1415 Dynamical friction coefficient maps using a scanning force and friction microscope. **1994**, 59, 3-10 51

1414 Study of the influence of native oxide layers on atomic force microscopy imaging of semiconductor surfaces. **1994**, 59, 23-27 11

1413 Ultrathin-film hardness investigations by a modified atomic force microscope. **1994**, 59, 29-32 7

1412 Scanning probe microscopy on superconductors: Achievements and challenges. **1994**, 59, 41-48 10

1411 Atomic force microscopy of peritoneal macrophages after particle phagocytosis. **1994**, 140, 197-204 14

1410	Anisotropic friction on lamellar crystals of polyethylene by lateral force microscopy. **1994**, 33, 459-464	13
1409	Observation of the action of penicillin on bacillus subtilis using atomic force microscopy: Technique for the preparation of bacteria. **1994**, 21, 400-401	31
1408	Latex film formation studied with the atomic force microscope: Influence of aging and annealing. **1994**, 272, 1218-1223	46
1407	Cleaved surface structures of CuCl2- and FeCl3-graphite intercalation compounds detected by atomic force microscopy. **1994**, 32, 1191-1196	6
1406	Observation of a chemical reaction using a micromechanical sensor. **1994**, 217, 589-594	403
1405	Imaging crystal growth features using scanning force microscopy (SFM). **1994**, 29, 1005-1011	9
1404	Effect of surface plasma treatment on the chemical, physical, morphological, and mechanical properties of totally absorbable bone internal fixation devices. **1994**, 28, 289-301	28
1403	Interactions of human von Willebrand factor with a hydrophobic self-assembled monolayer studied by atomic force microscopy. **1994**, 28, 971-80	18
1402	Layer-by-layer growth and decomposition of an organic crystal observed in real time by atomic force microscopy. **1994**, 6, 307-311	9
1401	Interpreting STM and AFM Images. **1994**, 6, 355-371	90
1400	Surface nano-topography of drawn polyethylene and its modification using scanning force microscopy. **1994**, 6, 476-480	21
1399	Atomic force microscopy at MHz frequencies. **1994**, 506, 589-598	32
1398	Low-temperature scanning tunneling microscopy. **1994**, 197, 64-71	7
1397	Nanometer-scale observations of metallic glass fracture surfaces. **1994**, 176, 411-415	4
1396	Microlever with combined integrated sensor/actuator functions for scanning force microscopy. **1994**, 43, 339-345	17
1395	Design and fabrication of an overhanging xy-microactuator with integrated tip for scanning surface profiling. **1994**, 43, 346-350	29
1394	Adhesive force distribution on microstructures investigated by an atomic force microscope. **1994**, 44, 153-158	37
1393	Atomic scale imaging of pillared rectorite catalysts with the atomic force microscope. **1994**, 2, 205-215	13

1392	Initiation and study of localized corrosion by scanning electrochemical microscopy. **1994**, 93, 251-261	83
1391	Compression of polyethylene glycol chains grafted onto silicon nitride surface as measured by scanning force microscopy. **1994**, 93, 349-357	23
1390	Adhesive forces between ligand and receptor measured by AFM. **1994**, 93, 343-348	89
1389	Controlled modification of silicon nitride interactions in water via zwitterionic surfactant adsorption. **1994**, 93, 275-292	42
1388	Latex film surface morphology studied by atomic force microscopy: Effect of a non-ionic surfactant postadded to latex dispersion. **1994**, 87, 177-185	30
1387	Specific ion adsorption at the mineral□water interface: Cesium adsorption on chlorite. **1994**, 87, 187-196	5
1386	Examination of the geometry of long-range tip□sample interaction in atomic force microscopy. **1994**, 87, 217-234	84
1385	Atomic force microscopy of polymer single crystals and melt-drawn films. **1994**, 87, 235-243	11
1384	Morphological studies of ordered, solid polymers by scanning force microscopy. **1994**, 87, 263-275	19
1383	Levitation forces acting on a magnet placed over a superconducting ring. **1994**, 2, 559-569	18
1382	Contactless Surface Measurement with a New Acoustic Sensor. **1994**, 43, 487-490	6
1381	Voltage-contrast scanning probe microscopy. **1994**, 24, 3-9	7
1380	Scanning-force-microscope test system for device internal test with high spatial and temporal resolution. **1994**, 24, 91-98	9
1379	Nano-hardness investigations of thin films by an atomic force microscope. **1994**, 24, 113-121	30
1378	Confocal scanning laser □scanning probe hybrid microscope for biological applications. **1994**, 53, 147-157	22
1377	Evaluation of the probing profile of scanning force microscopy tips. **1994**, 53, 371-380	34
1376	Improvement of scanning accuracy of PZT piezoelectric actuators by feed-forward model-reference control. **1994**, 16, 49-55	89
1375	Analytical applications of scanning tunneling microscopy. **1994**, 13, 61-67	19

1374	Thermal calorimetry of polymer simple shear deformation and its applications. **1994**, 247, 35-51	1
1373	Scanning tunnelling microscopy. **1994**, 45, 805-817	2
1372	A novel combined scanning tunnelling/scanning force microscope. **1994**, 45, 575-577	
1371	Atomic force microscopy studies of photosynthetic protein membrane Langmuir-Blodgett films. **1994**, 243, 455-458	13
1370	Scanning tunneling microscopy imaging of conducting Langmuir-Blodgett films. **1994**, 237, 225-230	9
1369	Molecular dynamics simulations of friction in self-assembled monolayers. **1994**, 253, 185-189	72
1368	Comparative investigation by laser profilometry, scanning electron microscopy and atomic force microscopy of wear on solar-beam-irradiated partially oxidized TiN coatings. **1994**, 241, 222-229	7
1367	Morphology and molecular ordering in Langmuir-Blodgett films from ladder polyheteroarylenes. **1994**, 244, 745-749	7
1366	Tribology of ultra-thin MoS2 platelets on mica: studies by scanning force microscopy. **1994**, 240, 101-104	26
1365	Methods and apparatus for in situ investigations with the scanning force microscope. **1994**, 141, 291-298	18
1364	Chloride adsorption on Ag(111) studied by in-situ scanning tunnelling microscopy. **1994**, 370, 297-300	46
1363	Effect of tip shape on force-distance curves for AFM in aqueous electrolytes. **1994**, 374, 269-273	17
1362	Atomic force microscopy of polymer crystals: 7. Chain packing, disorder and imaging of methyl groups in oriented isotactic polypropylene. **1994**, 35, 461-467	42
1361	Scanning tunneling microscopy and related techniques for surface analysis. **1994**, 25, 371-385	8
1360	Imaging human erythrocyte spectrin with atomic force microscopy. **1994**, 25, 227-32	18
1359	Structural studies of ordered monolayers using atomic force microscopy. **1994**, 25, 271-292	12
1358	Langmuir-Blodgett films. **1994**, 263, 1726-33	508
1357	In-situ investigation of surface reactions on alkali halides by atomic force microscopy. **1994**, 349, 190-194	10

1356	AFM studies of Pd silica supported thin film catalysts. **1994**, 26, 297-314	17
1355	Stray-field investigations on sharp ferromagnetic tips by electron holography. **1994**, 133, 422-424	2
1354	Characterization of organic matter/ minerals associations in oilfield rocks using the nuclear microprobe. **1994**, 85, 874-880	7
1353	Surface morphology of arsenic implanted silicon dioxide observed by atomic force microscopy. **1994**, 91, 639-643	14
1352	Atomic force microscopy and scanning tunnelling microscopy: refining techniques for studying biomolecules. **1994**, 12, 127-32	22
1351	Investigations of ultrathin silicon nitride layers produced by low-energy ion implantation and EB-RTA. **1994**, 89, 362-368	24
1350	Observation of Hydrogenated Amorphous Carbon Films by Atomic Force Microscopy. **1994**, 77, 1385-1387	5
1349	Spontaneous chiral symmetry breaking by achiral molecules in a Langmuir□Blodgett film. **1994**, 368, 440-443	161
1348	Role of linker histones in extended chromatin fibre structure. **1994**, 1, 761-3	42
1347	Oxide-semiconductor interface roughness and electrical properties of polycrystalline silicon thin-film transistors. **1994**, 64, 2273-2275	8
1346	. **1994**, 82, 1006-1034	190
1345	Atomic force microscopy of the nacreous layer in mollusc shells. **1994**, 256, 17-23	39
1344	Tapping mode atomic force microscopy in liquids. **1994**, 64, 1738-1740	723
1343	Atomistic theory of the interaction between AFM tips and ionic surfaces. **1994**, 6, 1825-1846	61
1342	Techniques Giving Mechanistic Information. **1994**, 36-227	2
1341	Measurement of the forces between gold surfaces in water by atomic force microscopy. **1994**, 100, 8501-8505	128
1340	Frictional behavior of highly oriented pyrolytic graphite. **1994**, 76, 8117-8120	109
1339	Atomic force microscopy of freeze-fracture replicas of rat atrial tissue. **1994**, 173, 173-81	8

1338	Tip artefacts in scanning force microscopy. **1994**, 173, 183-197	91
1337	Calibration of the scanning (atomic) force microscope with gold particles. **1994**, 173, 199-210	79
1336	An atomic force microscope for cytological and histological investigations. **1994**, 176, 121-31	9
1335	Scanning force microscopy on live cultured cells: imaging and force-versus-distance investigations. **1994**, 176, 254-61	23
1334	Atomic force microscopy in the photochemistry of chalcones. **1994**, 174, 15-22	11
1333	Imaging of the membrane surface of MDCK cells by atomic force microscopy. **1994**, 67, 36-41	82
1332	Viscoelasticity of living cells allows high resolution imaging by tapping mode atomic force microscopy. **1994**, 67, 1749-53	174
1331	Reproducible acquisition of Escherichia coli porin surface topographs by atomic force microscopy. **1994**, 67, 2394-403	122
1330	Motion and enzymatic degradation of DNA in the atomic force microscope. **1994**, 67, 2454-9	188
1329	Structures of large T antigen at the origin of SV40 DNA replication by atomic force microscopy. **1994**, 66, 293-8	25
1328	New internal structure of spider dragline silk revealed by atomic force microscopy. **1994**, 66, 1209-12	89
1327	Structure and activation dynamics of RBL-2H3 cells observed with scanning force microscopy. **1994**, 66, 1717-25	41
1326	Mapping interaction forces with the atomic force microscope. **1994**, 66, 2159-65	282
1325	Numerical simulations of a scanning force microscope with a large-amplitude vibrating cantilever. **1994**, 5, 199-204	64
1324	Resonance response of scanning force microscopy cantilevers. **1994**, 65, 2532-2537	212
1323	Direct observation of enzyme activity with the atomic force microscope. **1994**, 265, 1577-9	426
1322	A lateral modulation technique for simultaneous friction and topography measurements with the atomic force microscope. **1994**, 65, 2870-2873	51
1321	Ultrasonic force microscopy for nanometer resolution subsurface imaging. **1994**, 64, 178-180	290

1320	Atomic force microscopy of the electrochemical nucleation and growth of molecular crystals. **1994**, 263, 1261-4	68
1319	Adhesion: molecules and mechanics. **1994**, 263, 1720-5	214
1318	Unexpected square symmetry seen by atomic force microscopy in bilayer films of disk-like molecules. **1994**, 264, 77-9	38
1317	Fibrous mini-collagens in hydra nematocysts. **1994**, 265, 402-4	81
1316	Probing chromatin with the scanning force microscope. **1994**, 103, 231-6	52
1315	Longitudinal patterns similar to G-banding in untreated human chromosomes: evidence from atomic force microscopy. **1994**, 103, 225-9	29
1314	Thermal and ambient-induced deflections of scanning force microscope cantilevers. **1994**, 64, 2894-2896	334
1313	A new, optical-lever based atomic force microscope. **1994**, 76, 796-799	43
1312	Force sensing microcantilever using sputtered zinc oxide thin film. **1994**, 64, 37-39	47
1311	Lateral, normal, and longitudinal spring constants of atomic force microscopy cantilevers. **1994**, 65, 2527-2531	283
1310	Float-polishing process and analysis of float-polished quartz. **1994**, 33, 89-95	32
1309	Simulation of photothermally diffused images and a concept of holoscan in photoacoustic and optical-probe imaging. **1994**, 33, 7251-7	1
1308	Improved differential heterodyne interferometer for atomic force microscopy. **1994**, 65, 3697-3701	12
1307	Molecular imaging of Na+,K(+)-ATPase in purified kidney membranes. **1994**, 346, 289-94	8
1306	Structure and stability of pertussis toxin studied by in situ atomic force microscopy. **1994**, 338, 89-92	59
1305	A STM study of the effects of the ion incident angle and energy on surface damage induced by Ar+ bombardment of HOPG. **1994**, 312, 399-410	52
1304	Biological applications of scanning probe microscopies. **1994**, 61, 131-85	58
1303	Alluvial gold in Kalimantan, Indonesia: A colloidal origin?. **1994**, 50, 457-478	13

1302	Observations of the Cu(1 □1) adlayer on Au(111) in a sulfuric acid solution using atomic force microscopy. **1994**, 311, L641-L648	51
1301	Topological aspects of iron corrosion in alkaline solution by means of scanning force microscopy (SFM). **1994**, 311, 153-158	10
1300	Scanning tunneling microscopy: a surface science tool and beyond. **1994**, 299-300, 956-964	50
1299	The AFM as a tool for surface imaging. **1994**, 299-300, 980-995	130
1298	Imaging the surface of silica microparticles with the atomic force microscope: a novel sample preparation method. **1994**, 304, L393-L399	18
1297	On the limits of the spectroscopic ability of AFM and the interaction between an AFM tip and a sample. **1994**, 311, 287-294	32
1296	Scanning tunneling microscopy using a ZnO whisker tip. **1994**, 64, 3243-3245	13
1295	Resolution in surface plasmon microscopy. **1994**, 65, 2829-2836	103
1294	Molecular resolution atomic force microscopy of soluble proteins in solution. **1994**, 1199, 105-14	57
1293	Adhesion forces between individual ligand-receptor pairs. **1994**, 264, 415-7	1744
1292	Preparation and properties of highly oriented polytetrafluoroethylene films. **1994**, 67, 55-61	22
1291	An investigation of doped polypyrrole by a combination of scanning tunnelling and atomic force microscopes. **1994**, 67, 211-214	8
1290	Interpretation of scanning tunneling and atomic force microscopy images of TCNQ salts. **1994**, 62, 159-167	12
1289	An amphiphilic trinuclear cobalt cluster-containing molecular unit: synthesis, characterization and LangmuirBlodgett films. **1994**, 1051-1059	9
1288	Short-range order in extended-chain crystals of polyoxymethylene from a true molecular perspective: an atomic force microscopy study. **1994**, 4, 55-59	7
1287	The scanning dielectric microscope. **1994**, 5, 589-592	27
1286	.	2
1285	Change of surface structure of thin silicon nitride layers during electron beam rapid thermal annealing. **1994**, 64, 2652-2654	24

1284	Atomic-scale and microscale friction studies of graphite and diamond using friction force microscopy. **1994**, 76, 5022-5035	148
1283	Interdiffusion between Y-Ba-Cu-O thin films and Al2O3 substrates studied by applying Rutherford backscattering spectrometry combined with atomic force microscopy. **1994**, 76, 5724-5730	1
1282	Imaging spectroscopy with the atomic force microscope. **1994**, 76, 33-38	71
1281	Effect of PZT and PMN actuator hysteresis and creep on nanoindentation measurements using force microscopy. **1994**, 65, 1561-1565	56
1280	.	33
1279	Intermolecular forces and energies between ligands and receptors. **1994**, 266, 257-9	783
1278	Reliability test of popular fractal techniques applied to small two-dimensional self-affine data sets. **1994**, 76, 5070-5078	23
1277	Adhesion Force Measurements Using an Atomic Force Microscope Upgraded with a Linear Position Sensitive Detector. **1994**, 10, 3217-3221	49
1276	A novel AFM/STM/SEM system. **1994**, 65, 2853-2854	35
1275	A Thermal Stage for Nanoscale Structure Studies with the Scanning Force Microscope. **1994**, 332, 105	1
1274	Imaging Single Nacreous Tablets with the Atomic Force Microscope. **1994**, 332, 413	
1273	Hydrogen Ion Beam Processing of Single Crystal Diamond Chips. **1994**, 354, 717	
1272	Using Atomic Force Microscopy to Image Langmuir Blodgett Films of Disk Shaped Molecules. **1994**, 355, 147	1
1271	Evaluation of Surface Characteristics of ZnS and Zn2SiO4 Powders by SFM. **1994**, 355, 353	
1270	Nanoscale Control of Ferroelectric Domain Structure by AFM. **1994**, 357, 363	2
1269	Scanning Probe Microscopy Studies of the Activation and Deactivation of Pd Thin Film Catalysts. **1994**, 88, 69-84	1
1268	Nano-Hardness, Nano-Friction and Nano-Wear of Ultra-Thin Overcoats. **1994**, 356, 737	9
1267	Observation of Crystallization of Vapor-deposited TPD Films by AFM and FFM. **1994**, 23, 969-972	86

1266	Scanning Near-field Fluorescence Microscopy and Nanoscopic Fluorescence Spectroscopy in Combination with a Non-contact Scanning Force Microscope. **1994**, 23, 657-660	23
1265	Microtribology of Magnetic Media. **1994**, 208, 17-29	64
1264	Surface Observation of MgO Single Crystal with Atomic Force Microscope and Crystallographic Orientation Dependence of Wettability of MgO by Liquid Metals. **1994**, 35, 466-472	6
1263	Friction and Energy Dissipation at the Atomic Scale - A Review. **1994**, 27, 3-20	0
1262	Probing toward atomic resolution in molecular topography. **1994**, 91, 1981-2	4
1261	Three-dimensional structure of extended chromatin fibers as revealed by tapping-mode scanning force microscopy. **1994**, 91, 11621-5	210
1260	Atomic force microscopy of anodized zirconium substrates. **1994**, 70, 1-9	4
1259	Following the assembly of RNA polymerase-DNA complexes in aqueous solutions with the scanning force microscope. **1994**, 91, 12927-31	121
1258	Static and dynamic structures of ferroelectric domains studied with scanning force microscopy. **1994**, 151, 143-149	32
1257	Direct measurement of hydrogen bonding in DNA nucleotide bases by atomic force microscopy. **1995**, 92, 5297-301	216
1256	Large secretory structures at the cell surface imaged with scanning force microscopy. **1995**, 92, 6976-80	17
1255	Structural hierarchy in the clustering of HLA class I molecules in the plasma membrane of human lymphoblastoid cells. **1995**, 92, 1122-6	80
1254	Electrostatic force microscope for probing surface charges in aqueous solutions. **1995**, 92, 10384-8	42
1253	Atomic Force Microscope Information on Pollen Exine Substructure in Nuphar. **1995**, 108, 300-308	29
1252	Scanning Force Microscopy in Biology. **1995**, 48, 32-38	222
1251	Rasterkraftmikroskopie. **1995**, 43, 342-346	2
1250	Scanning probe microscopy with □hemical sensitivity□**1996**, 303-320	
1249	Dynamics and control of piezotube actuators for subnanometer precision applications.	7

1248 Molecular Dynamics Simulation of Mechanical Deformation of Ultra-Thin Metal and Ceramic Films. **1995**, 389, 181 11

1247 Atomic Force and Scanning Electron Microscopy of Corrosion and Fatigue of an Aluminum-Copper Alloy. **1995**, 409, 201

1246 Chromic Polydiacetylene Single Crystals: Atomic Force Microscopy Studies. **1995**, 413, 445

1245 Nanoscale Indentation Hardness and Wear Characterization of Hydrogenated Carbon Thin Films. **1995**, 117, 594-601 12

1244 Wear Resistance of N+-Implanted Silicon Investigated by Scanning Probe Microscopy. **1995**, 117, 612-616 3

1243 Simultaneous Measurement of Surface Topography and Friction Force by a Single-Head Lateral Force Microscope. **1995**, 117, 334-340 5

1242 Order of crystalline cellulose detected with the atomic force microscopy (AFM). **1995**, 69-74

1241 The application of atomic force microscopy for the detection of microcrystals in synovial fluid from patients with recurrent synovitis. **1995**, 24, 359-69 18

1240 Atomic force microscopy of the morphology of the matrix and mineral components of the otolith of Hyperoglyphe antarctica. **1995**, 223, 203-214 8

1239 Latex characterization by atomic force microscopy. **1995**, 18, 310-314 2

1238 Properties of microfiltration membranes: Mechanisms of flux loss in the recovery of an enzyme. **1995**, 46, 28-35 30

1237 Pretreatment of polymer surfaces the crucial step prior to metal deposition. **1995**, 40, 1487-1494 24

1236 The deposition of silica on carbon as a model system for oxidation protection coatings. **1995**, 33, 509-524 16

1235 A novel design of a constant volume electrochemical cell for atomic force microscopy measurements. **1995**, 7, 260-263 6

1234 Microtribological applications of probe microscopy. **1995**, 28, 195-202 9

1233 Tip-based data storage using micromechanical cantilevers. **1995**, 48, 215-219 32

1232 Resonator-based touch-sensitive probe. **1995**, 50, 23-29 14

1231 Aggregation involved in silver perchlorate insertion process within LB multilayers. **1995**, 3, 245-248

1230	Characterization of the surface of bio-ceramic thin films. **1995**, 270, 335-340	27
1229	Structure of rat tail tendon collagen examined by atomic force microscope. **1995**, 51, 1063-7	24
1228	Micromechanical elements for detection of molecules and molecular design. **1995**, 1, 202-208	10
1227	A laser micro-chopper approach for molecular beam probe. **1995**, 61, 601-604	
1226	Imaging and manipulating chromosomes with the atomic force microscope. **1995**, 3, 239-44	28
1225	Observation of controlled, electrochemically induced friction force modulations in the nano-Newton range. **1995**, 1, 13-21	9
1224	Nanotribology: an UHV-SFM study on thin films of AgBr(001). **1995**, 1, 23-33	2
1223	Friction force microscopy in ultrahigh vacuum: an atomic-scale study on KBr(001). **1995**, 1, 129	4
1222	An atomic force microscopy study of polyester surfaces. **1995**, 30, 5700-5704	26
1221	Patch clamp and atomic force microscopy demonstrate TATA-binding protein (TBP) interactions with the nuclear pore complex. **1995**, 146, 263-72	21
1220	Fractographic analysis of fatigue crack propagation in an amorphous copolyester. **1995**, 14, 1451-1454	1
1219	Immunolocalization of lamins and nuclear pore complex proteins by atomic force microscopy. **1995**, 430, 795-801	23
1218	Polarized ion transport during migration of transformed Madin-Darby canine kidney cells. **1995**, 430, 802-7	44
1217	Physik in unserer Zeit auf der Nanometerskala. **1995**, 26, 206-216	6
1216	Combined atomic force-, friction force- and local elasticity microscopy on ReS2 crystals: Surface topography and material contrast. **1995**, 23, 399-403	4
1215	Determination of miller indices of side faces of small crystallites from scanning force microscopy angle measurements. **1995**, 23, 409-415	3
1214	Direct morphological study of metal/polymer interfaces by scanning force microscopy. **1995**, 23, 426-427	8
1213	Comparative film thickness determination by atomic force microscopy and ellipsometry for ultrathin polymer films. **1995**, 23, 797-808	22

1212	Atomic force microscopy on cross-sections of optical coatings: a new method. **1995**, 261, 70-75	13
1211	Visualizing life on biomembranes by atomic force microscopy. **1995**, 48, 923-9	19
1210	Nanotribology: friction, wear and lubrication at the atomic scale. **1995**, 374, 607-616	1345
1209	Recent advances in biological atomic force microscopy. **1995**, 26, 35-49	52
1208	Scanning probe microscopy in microbiology. **1995**, 26, 347-62	41
1207	Immobilization of molecules, membranes and cells for modern optical and non-optical microscopy by photo-cross-linking. **1995**, 27, 275-277	3
1206	Scanning probe microscopy (tunneling, atomic force, confocal and acoustic) in particle track detectors. **1995**, 25, 745-748	3
1205	FIR microscopy. **1995**, 36, 217-224	49
1204	Scanning tunneling and atomic force microscopy studies of Langmuir-Blodgett films. **1995**, 22, 73-126	49
1203	Pretreatment of silicon substrates for CVD diamond deposition studied by atomic force microscopy. **1995**, 84, 133-143	7
1202	Nanometres to micrometres: three-dimensional surface measurement in bio-engineering. **1995**, 71, 69-81	20
1201	Micro/nanotribology and its applications to magnetic storage devices and MEMS. **1995**, 28, 85-96	90
1200	Microtribology. **1995**, 28, 33-37	7
1199	Measuring surface forces in aqueous electrolyte solution with the atomic force microscope. **1995**, 38, 191-201	205
1198	Scanning near-field optic/atomic-force microscopy. **1995**, 57, 141-146	51
1197	Near-field optical microscopic recording on Langmuir-Blodgett (LB) films and chemically modified surfaces. **1995**, 57, 176-179	14
1196	Near field optical microscopy using a metallic vibrating tip. **1995**, 57, 318-322	55
1195	Immobilizing and imaging microtubules by atomic force microscopy. **1995**, 57, 337-43	58

1194	Problems in temperature control performing in situ investigations with the scanning force microscope. **1995**, 57, 333-335	19
1193	Under buffer SFM observation of immunospecies adsorbed on a cyano grafted silicon substrate. **1995**, 60, 33-40	18
1192	Scanning near-field optical microscopy of fluorescent polystyrene spheres with a combined SNOM and AFM. **1995**, 61, 271-277	13
1191	Surface characterization of SiC composites exposed to deuterium ions, using atomic force microscopy. **1995**, 201, 277-285	5
1190	AFM imaging with an xy-micropositioner with integrated tip. **1995**, 47, 562-565	37
1189	Manufacture of micromechanical scanning tunnelling microscopes for observation of the tip apex in a transmission electron microscope. **1995**, 48, 127-136	19
1188	Surface chemistry and tip-sample interactions in atomic force microscopy. **1995**, 94, 29-51	202
1187	Adhesion of L1210 cells to sulfonated styrene copolymer surfaces in the absence of serum. **1995**, 4, 137-149	10
1186	Scanning force microscopy of gelatin films in the dry, swollen and redried states. **1995**, 3, 85-89	12
1185	Local probe investigation of molecular material. **1995**, 10, 85-98	2
1184	Sensing specific molecular interactions with the atomic force microscope. **1995**, 10, 895-901	415
1183	Application of 3-D topography to bio-engineering. **1995**, 35, 219-229	17
1182	Scanning force microscopy study of single-crystal substrates used for thin-film growth of high-temperature superconductors. **1995**, 242, 174-182	49
1181	Atomic force microscopy observation of the epitaxial growth of organic molecules. **1995**, 146, 641-644	12
1180	Hydrophobic polytetrafluoroethylene-modified PbO2: ex situ observations of morphology during nucleation and growth via atomic force microscopy. **1995**, 388, 53-67	5
1179	Adsorbate-induced surface stress at the solid|electrolyte interface measured with an STM. **1995**, 386, 267-270	62
1178	Scanning probe microscopy of organic and polymeric films: from self-assembled monolayers to composite multilayers. **1995**, 36, 1791-1808	148
1177	The structure of highly textured quasi-single-crystalline high-density polyethylene probed by atomic force microscopy and small-angle X-ray scattering. **1995**, 36, 2115-2121	24

1176 Characterization of a cantilever with an integrated deflection sensor. **1995**, 264, 159-164 58

1175 Investigation of the atomic-scale friction and energy dissipation in diamond using molecular dynamics. **1995**, 260, 205-211 95

1174 AFM for the imaging of large and steep submicroscopic features, artifacts and scraping with asymmetric cantilever tips. **1995**, 264, 205-211 11

1173 AFM and TEM investigations of polypropylene/polyurethane blends. **1995**, 264, 148-152 28

1172 Electron spectroscopy at Diamond (100)2 □1:H with a scanning tunnelling microscope. **1995**, 46, 1097-1100 3

1171 An investigation of the experimental conditions and characteristics of a nano-wear test. **1995**, 181-183, 777-783 18

1170 Semiconduction of proteins as an attribute of the living state: the ideas of Albert Szent-Gy□rgyi revisited in light of the recent knowledge regarding oxygen free radicals. **1995**, 30, 327-35 9

1169 Nanotopographical changes on graphite tube surfaces in electrothermal atomic absorption spectrometry experiments as studied by atomic force microscopy. **1995**, 50, 713-723 13

1168 Atomic force microscopy observations of pitting corrosion and inhibition on 7075-T651 aluminum alloy in hydrochloric acid solutions. **1995**, 34, 73-79 6

1167 Surface roughness characterization of Nicalon□and HI-Nicalon□ceramic fibers by atomic force microscopy. **1995**, 35, 199-206 22

1166 Membrane pores--from biology to track-etched membranes. **1995**, 15, 553-65 8

1165 Maximum entropy deconvolution of AFM and STM images. **1995**, 351, 143-147 8

1164 Scanning force microscopy visualization of adsorption from liquids. **1995**, 44, 2073-2078 1

1163 Atomic force microscope imaging of the surface roughness of SCS- and TiB2-coated SiC fibres and uncoated sapphire fibres. **1995**, 26, 619-629 6

1162 Low-load friction behavior of epitaxial C60 monolayers. **1995**, 99, 1-2 9

1161 Three-dimensional displacement measurement of a tube scanner for a scanning tunneling microscope by optical interferometer. **1995**, 6, 121-126 7

1160 Heart gap junction preparations reveal hemiplaques by atomic force microscopy. **1995**, 268, C968-77 55

1159 Imaging real-time neurite outgrowth and cytoskeletal reorganization with an atomic force microscope. **1995**, 269, C275-85 55

1158	A Scanning Probe Microscope in My Scanning Electron Microscope?. **1995**, 3, 22-23		
1157	Dynamic micromechanical properties of cultured rat atrial myocytes measured by atomic force microscopy. **1995**, 269, C286-92		201
1156	Evolution of Hematite Surface Microtopography Upon Dissolution by Simple Organic Acids. **1995**, 43, 29-38		58
1155	Characterization of 12-8-diacetylene Langmuir-Blodgett films by scanning-force microscopy. **1995**, 51, 454-461		2
1154	Rheological properties of confined thin films. **1995**, 52, 2587-2602		56
1153	Atomic force microscopy imaging of viscoelastic properties in toughened polypropylene resins. **1995**, 78, 5953-5958		31
1152	Compact large-range cryogenic scanner. **1995**, 66, 2520-2523		33
1151	In situ measurement of large piezoelectric displacements in resonant atomic force microscopy. **1995**, 66, 2848-2852		11
1150	A multifunctional scanning force microscope for biological applications. **1995**, 66, 4124-4129		3
1149	Charged nanocantilever as a generator of microscopic ac fields. **1995**, 66, 4588-4590		1
1148	Semi-automatic atomic force microscope for imaging in solution. **1995**, 66, 5527-5531		3
1147	Nanoscale visualization and control of ferroelectric domains by atomic force microscopy. *Physical Review Letters*, **1995**, 74, 4309-4312	7.4	211
1146	Design and calibration of a scanning force microscope for friction, adhesion, and contact potential studies. **1995**, 66, 4566-4574		46
1145	Atomic-force microscopy on the Si(111)7 x 7 surface. **1995**, 51, 5484-5487		71
1144	Effect of the tip structure on atomic-force microscopy. **1995**, 52, 8471-8482		37
1143	Micromechanical sensors for chemical and physical measurements. **1995**, 66, 3662-3667		108
1142	Friction force microscopy study of lubricant thin films on thin-film magnetic recording media. **1995**, 78, 4189-4195		6
1141	Binding strength between cell adhesion proteoglycans measured by atomic force microscopy. **1995** , 267, 1173-5		390

1140	Theoretical study of the interaction between a magnetic nanotip and a magnetic surface. **1995**, 52, 7352-7362	41
1139	Probing oscillatory hydration potentials using thermal-mechanical noise in an atomic-force microscope. **1995**, 52, R8692-R8695	132
1138	Force-balancing force sensor with an optical lever. **1995**, 66, 5532-5536	14
1137	Surface relief accompanying martensitic transitions in an Fe-Ni-C alloy by atomic-force microscopy and phenomenological theory of martensitic crystallography. **1995**, 52, 7879-7882	24
1136	Scanning tunneling microscope with three-dimensional interferometer for surface roughness measurement. **1995**, 66, 2504-2507	3
1135	Calibration of optical lever sensitivity for atomic force microscopy. **1995**, 66, 5096-5097	78
1134	Phase-locked noncontact scanning force microscope. **1995**, 66, 101-105	5
1133	Cross-sectional atomic force microscopy of semiconductor nanostructures. **1995**, 78, 4939-4942	8
1132	Height calibration of optical lever atomic force microscopes by simple laser interferometry. **1995**, 66, 1258-1259	108
1131	SCANNING PROBE MICROSCOPY APPLICATIONS TO CHARACTERIZATION IN MICROELECTRONICS.	
1130	High field magnetic force microscopy. **1995**, 78, 3303-3307	33
1129	Low-load friction behavior of epitaxial C60 monolayers under Hertzian contact. **1995**, 52, 14976-14984	88
1128	Sub-Ångstrom resolution with a phonograph cartridge as bidimensional nanodisplacement sensor. **1995**, 66, 5337-5338	
1127	Properties of small clusters at ionic surfaces: (NaCl)n clusters (n=1-48) at the (100) MgO surface. **1995**, 51, 13631-13644	18
1126	Periodic surface instabilities in stressed polymer solids. **1995**, 51, 6089-6092	6
1125	Atomic Force Microscopy of Rubbed Polyimide Aligning Films for Liquid Crystal Displays. **1995**, 262, 89-98	7
1124	Native Escherichia coli OmpF porin surfaces probed by atomic force microscopy. **1995**, 268, 92-4	270
1123	Liquid to hexatic to crystalline order in Langmuir-Blodgett films. **1995**, 269, 51-4	49

1122	Lateral Force Measurements In A Scanning Force Microscope With Piezoresistive Sensors.	3
1121	Dependence of Nano-Friction and Nano-Wear on Loading Force for Sharp Diamond Tips Sliding on Si, Mn-Zn Ferrite, and Au. **1995**, 117, 328-333	21
1120	Local acoustic probing using mechanical and ultrafast optical techniques.	1
1119	Atomic force microscopy of human hair cuticles: a microscopic study of environmental effects on hair morphology. **1995**, 105, 96-9	36
1118	The nanoscopic structure of annealed Ge20Te80glass: quasi-atomic-scale imaging using atomic-force microscopy. **1995**, 7, L135-L139	5
1117	Controlled electrical contact of a scanned probe to nanostructures. **1995**, 6, 93-100	
1116	Micromachined AFM transducer with differential capacitive read-out. **1995**, 5, 161-165	18
1115	The electronic structure of transition metal interacting tip and sample and atomic force microscopy. II. **1995**, 7, 6641-6661	10
1114	Forces affecting the substrate in resonant tapping force microscopy. **1995**, 6, 40-44	124
1113	The electronic structure and stability of transition metal nanotips. I. **1995**, 7, 6625-6640	14
1112	Friction Force Microscopy Study of the Langmuir-Blodgett Films with Different Molecular Structures. **1995**, 34, 4932-4939	4
1111	A microwave scanning surface harmonic microscope using a re-entrant resonant cavity. **1995**, 6, 1208-1214	5
1110	Evaluation of Thin Silicon Dioxide Layers by Beam Assisted Scanning Tunneling Microscope. **1995**, 34, 1376-1380	7
1109	Atomic-Resolution Imaging of ZnSSe(110) Surface with Ultrahigh-Vacuum Atomic Force Microscope (UHV-AFM). **1995**, 34, L462-L464	10
1108	Observation of Topography and Optical Image of Optical Fiber End by Atomic Force Mode Scanning Near-Field Optical Microscope. **1995**, 34, 321-324	28
1107	Competition between Electrostatic and Capillary Forces Acting on a Single Particle. **1995**, 34, 4176-4184	10
1106	Examination of Correlation of Surface Morphologies of Top-Silicon and Buried Oxide Layers in High-Temperature-Annealed Separation by IMplanted OXygen Wafers. **1995**, 34, 6019-6020	6
1105	Nanometer Modifications of Non-Conductive Materials Using Resist-Films by Atomic Force Microscopy. **1995**, 34, 3396-3399	36

1104	A bimorph-driven inertial micropositioner for scanning tunnelling microscopy. **1995**, 6, 365-370	2
1103	Recent Advances in Nanostructural Investigations and Modifications of Solid Surfaces by Scanning Probe Methods. **1995**, 34, 3388	12
1102	Contrast of Atomic-Resolution Images from a Noncontact Ultrahigh-Vacuum Atomic Force Microscope. **1995**, 34, L1692-L1694	5
1101	Theoretical Simulation of Atomic Force Microscope Based on Cluster Models. **1995**, 34, 3319-3324	11
1100	Fractography of Glass at the Nanometer Scale. **1995**, 409, 365	7
1099	Comparison of medical-grade ultrahigh molecular weight polyethylene microstructure by atomic force microscopy and transmission electron microscopy. **1994**, 6, 609-20	11
1098	Progress in high resolution atomic force microscopy in biology. **1995**, 28, 195-251	141
1097	Electron, Acoustic, and Tunneling Microscopy of Minerals. **1995**, 263-302	
1096	AFM Studies of Copper Solid-Liquid Interfaces. **1995**, 83-101	5
1095	A simple reproducible technique for producing sub-micrometre fibre-optic probes for near-field optical microscopy and chemical sensors. **1995**, 6, 1157-1162	11
1094	Atomic force microscopy of the cornea and sclera. **1995**, 14, 529-35	40
1093	Scanning tunnelling and atomic force microscopy in the electrochemistry of surfaces. **1995**, 64, 767-781	43
1092	Real-time subnanometer position sensing with long measurement range.	1
1091	Magnetic resonance force microscopy. **1995**, 67, 249-265	372
1090	Observation of $bf 7times 7$ Reconstructed Structure on the Silicon (111) Surface using Ultrahigh Vacuum Noncontact Atomic Force Microscopy. **1995**, 34, L145-L148	280
1089	Adsorption-induced surface stress and its effects on resonance frequency of microcantilevers. **1995** , 77, 3618-3622	440
1088	Cryo atomic force microscopy: a new approach for biological imaging at high resolution. **1995**, 34, 8215-20	87
1087	A robot system for automated handling in micro-world.	21

1086	A new DNA nanostructure, the G-wire, imaged by scanning probe microscopy. **1995**, 23, 696-700	205
1085	Thermal imaging by atomic force microscopy using thermocouple cantilever probes. **1995**, 66, 3584-3592	115
1084	Nucleation mechanism of TTF-TCNQ on alkali halides. **1995**, 70, 1249-1250	5
1083	Atomic force microscopy surface morphology studies of □n situ□deposited polyaniline thin films. **1995**, 73, 205-208	141
1082	Ophthalmic applications of atomic force microscopy. **1995**, 22, 32-41	6
1081	Direct imaging of the tip shape by AFM. **1995**, 323, L314-L318	61
1080	In situ observations of the initial stage of electrodeposition of Cu on Au(100) from an aqueous sulfuric acid solution using atomic force microscopy. **1995**, 327, 261-273	41
1079	Corrections to the van der Waals forces in application to atomic force microscopy. **1995**, 328, 129-134	20
1078	From regular to irregular solid electrode surfaces: a systematic approach to their characterization. **1995**, 335, 378-388	3
1077	On possibility of spin-polarized atomic force microscopy. **1995**, 334, 257-262	2
1076	Jump to contact and neck formation between Pb surfaces and a STM tip. **1995**, 340, 231-244	20
1075	Near-field optical microscope based on local perturbation of a diffraction spot. **1995**, 20, 1924-6	164
1074	Atomic resolution of the silicon (111)-(7x7) surface by atomic force microscopy. **1995**, 267, 68-71	992
1073	Very sharp platinum tips for scanning tunneling microscopy. **1995**, 66, 97-100	91
1072	Scanning force microscope as a tool for studying optical surfaces. **1995**, 34, 213-30	33
1071	Unusual splitting behavior of the dispersion of surface polaritons in gratings of different symmetry, amplitude, and profile. **1995**, 34, 5773-9	6
1070	Microscopic and spectroscopic studies of untreated and hexanol-treated chlorosomes from Chloroflexus aurantiacus. **1995**, 1232, 197-207	18
1069	The calcite (10l 4) cleavage surface in water: Early results of a crystal truncation rod study. **1995**, 59, 4557-4561	43

1068	Imaging soft samples with the atomic force microscope: gelatin in water and propanol. **1995**, 69, 264-70	334
1067	The relationship between ligand-binding thermodynamics and protein-ligand interaction forces measured by atomic force microscopy. **1995**, 69, 2125-30	152
1066	Method for immobilizing microbial cells on gel surface for dynamic AFM studies. **1995**, 69, 2226-33	82
1065	Polysaccharide helices in the atomic force microscope. **1995**, 68, 3-4	19
1064	Atomic force microscopy of the myosin molecule. **1995**, 68, 1604-6	30
1063	A method for anchoring round shaped cells for atomic force microscope imaging. **1995**, 68, 1678-80	177
1062	Imaging purple membranes in aqueous solutions at sub-nanometer resolution by atomic force microscopy. **1995**, 68, 1681-6	304
1061	Sequential assembly of collagen revealed by atomic force microscopy. **1995**, 68, 2124-8	79
1060	Imaging biomolecule arrays by atomic force microscopy. **1995**, 68, 1653-60	44
1059	Sensitive force technique to probe molecular adhesion and structural linkages at biological interfaces. **1995**, 68, 2580-7	450
1058	Air operating atomic force-scanning tunneling microscope suitable to study semiconductors, metals, and biological samples. **1995**, 66, 2843-2847	70
1057	Dissolution of barite by a chelating ligand: An atomic force microscopy study. **1995**, 59, 4623-4632	63
1056	Hybrid scanning transmission electron/scanning tunneling microscope system for the preparation and investigation of biomolecules. **1995**, 177, 31-42	4
1055	Identification and surface structure of crystalline cellulose studied by atomic force microscopy. **1995**, 178, 1-6	41
1054	Atomic force microscopy under liquid: A comparative study of three different AC mode operations. **1995**, 178, 7-13	9
1053	Imaging and nano-dissection of tobacco mosaic virus by atomic force microscopy. **1995**, 180, 174-181	21
1052	Stereo representation of atomic force micrographs: Optimizing the view. **1995**, 180, 186-188	3
1051	Application of atomic-force microscopy to metallography. **1995**, 25, 209-212	7

1050	Calculation of thermal noise in atomic force microscopy. **1995**, 6, 1-7		1235
1049	Atomic-Resolution Image of GaAs(110) Surface with an Ultrahigh-Vacuum Atomic Force Microscope (UHV-AFM). **1995**, 507-512		
1048	Direct imaging of the percolation network in a three-dimensional disordered conductor-insulator composite. *Physical Review Letters*, **1995**, 75, 4433-4436	7.4	83
1047	Molecular Organization of Surfactants at Solid-Liquid Interfaces. **1995**, 270, 1480-1482		621
1046	Defect Motion on an InP(110) Surface Observed with Noncontact Atomic Force Microscopy. **1995**, 270, 1646-1648		300
1045	Magnetic levitation force and penetration depth in type-II superconductors. **1995**, 51, 424-434		54
1044	The contribution of the external surface to the catalytic activity ofzeolite beta. **1995**, 94, 397-404		36
1043	In-situ investigation of surface processes on AlGaAs/GaAs cleavage edges as studied by atomic force microscopy. **1995**, 353, 670-674		
1042	Surface-near analyses of ultra thin silicon nitride layers by NRA, channeling RBS, FT IR ellipsometry and AFM. **1995**, 353, 734-739		8
1041	A very low current scanning tunneling microscope. **1995**, 66, 4876-4879		11
1040	Quality Control and Ultrastructural Evaluation of Surface-modified Intraocular Lenses in vitro by Atomic Force Microscopy. **1995**, 7, 186-188		
1039	Correlation of the electrical, thermal, and optical properties of CVD diamond films by scanning microscopy techniques. **1995**, 4, 645-651		13
1038	A variable temperature ultrahigh vacuum atomic force microscope. **1995**, 66, 5266-5271		48
1037	Chapter 2 Experimental techniques of solid state physics relevant to research on alloys. **1995**, 95, 73-141		
1036	The black silicon method. IV. The fabrication of three-dimensional structures in silicon with high apect ratios for scanning probe microscopy and other applications.		12
1035	Tribological characteristics of SiO/sub 2/ films investigated by scanning probe microscopy. **1995**, 31, 3018-3020		6
1034	Thermal detection of device failure by atomic force microscopy. **1995**, 16, 312-315		35
1033	Chapter 3. Electrochemistry (1992–1995). **1995**, 92, 23-73		3

1032	Atomically Resolved InP(110) Surface Observed with Noncontact Ultrahigh Vacuum Atomic Force Microscope. **1995**, 34, L1086-L1088	123
1031	Study of aging rat tail collagen using atomic force microscope. **1995**, 7, 352-7	1
1030	Rasterkraftmikroskopie oberfl□henmodifizierter Intraokularlinsen. **1995**, 9, 177-182	3
1029	A digital signal processor based atomic force microscope controller.	
1028	Characterization of photodeposited selenium planar structures by scanning force microscopy. **1995**, 77, 6208-6213	17
1027	Atomic force microscopy in food research: A new technique comes of age. **1995**, 6, 359-365	36
1026	Scanning capacitance microscopy and spectroscopy applied to local charge modifications and characterization of nitride-oxide-silicon heterostructures. **1995**, 61, 357-362	4
1025	Tip Reconstruction for the Atomic Force Microscope. **1995**, 55, 1362-1371	3
1024	Phospholipid Monolayers. **1995**, 161-211	22
1023	Numerical simulations of a tapping-mode scanning force microscope operating in a liquid. **1995**, 3, 475-480	16
1022	Direct Imaging and Geometrical Methods. **1996**, 361-421	1
1021	Atomic resolution for non-equilibrium structures in the steady state and for structural transformations at the interface between NaCl(c) and water. **1996**, 8, 4889-4901	6
1020	Effect of Substrate Hydrophobicity on Surfactant Surface□Aggregate Geometry. **1996**, 100, 11507-11511	127
1019	Analysis off cereal chromosomes by atomic force microscopy. **1996**, 39, 439-44	21
1018	Differentiating inclusion complexes from host molecules by tapping-mode atomic force microscopy. **1996**, 71, 86-90	11
1017	Imaging the internal and external pore structure of membranes in fluid: TappingMode scanning ion conductance microscopy. **1996**, 71, 2155-7	83
1016	Imaging biological structures with the cryo atomic force microscope. **1996**, 71, 2168-76	79
1015	Micropipette suction for measuring piconewton forces of adhesion and tether formation from neutrophil membranes. **1996**, 71, 2892-901	158

1014	Measuring the viscoelastic properties of human platelets with the atomic force microscope. **1996**, 70, 556-67	678
1013	Vertical dimension of hydrated biological samples in tapping mode scanning force microscopy. **1996**, 70, 1514-20	29
1012	Theory of electrostatic effects in soft biological interfaces using atomic force microscopy. **1996**, 70, 1745-52	16
1011	Immuno-atomic force microscopy of purple membrane. **1996**, 70, 1796-802	76
1010	DNA binding to mica correlates with cationic radius: assay by atomic force microscopy. **1996**, 70, 1933-9	323
1009	Directly probing rapid membrane protein dynamics with an atomic force microscope: a study of light-induced conformational alterations in bacteriorhodopsin. **1996**, 70, 2380-4	15
1008	Protein tracking and detection of protein motion using atomic force microscopy. **1996**, 70, 2421-31	103
1007	Specific antigen/antibody interactions measured by force microscopy. **1996**, 70, 2437-41	391
1006	Short cantilevers for atomic force microscopy. **1996**, 67, 3583-3590	412
1005	Immobilization of Antibodies on a Photoactive Self-Assembled Monolayer on Gold. **1996**, 12, 1997-2006	146
1004	Keeping Pace with Colloids in Motion. **1996**, 12, 5254-5262	9
1003	Picosecond spectral hole burning in ZnCdTe layers. **1996**, 80, 4632-4636	3
1002	Chain Packing in Electro-Spun Poly(ethylene oxide) Visualized by Atomic Force Microscopy. **1996**, 29, 7634-7636	122
1001	Determination of Single-Bond Forces from Contact Force Variances in Atomic Force Microscopy. **1996**, 12, 1291-1295	119
1000	Variation of the Interfacial Shear Strength and Adhesion of a Nanometer-Sized Contact. **1996**, 12, 3334-3340	261
999	Molecular Resolution Imaging of Dextran Monolayers Immobilized on Silica by Atomic Force Microscopy. **1996**, 12, 6436-6442	27
998	Application of piezoresistive Wheatstone bridge cantilever in advanced atomic force microscopy techniques. **1996**, 81, 473-483	5
997	Surface-Aggregate Shape Transformation. **1996**, 12, 5915-5920	108

996	Adhesion Forces between Surface-Modified AFM Tips and a Mica Surface. **1996**, 12, 2859-2862	135
995	An Atomic Force Microscopy Study on the Transition from Mushrooms to Octopus Surface Micelles by Changing the Solvent Quality. **1996**, 12, 3221-3224	43
994	In Situ, Real-Time Observations of the Adsorption and Self-Assembly of Macromolecules from Aqueous Solution onto an Untreated, Natural Surface. **1996**, 12, 1884-1891	28
993	Surface Reconstruction of the Lamellar Morphology in a Symmetric Poly(styrene-block-butadiene-block-methyl methacrylate) Triblock Copolymer: A Tapping Mode Scanning Force Microscope Study. **1996**, 29, 7502-7507	106
992	Interactions between Poly(ethylene oxide) Layers Adsorbed to Glass Surfaces Probed by Using a Modified Atomic Force Microscope. **1996**, 12, 4224-4237	91
991	Molecular Dynamics Simulations of Elastic Response and Tensile Failure of Alumina **1996**, 12, 4605-4609	15
990	Inhomogeneities in Sheared Ultrathin Lubricating Films. **1996**, 12, 4587-4593	80
989	Application of the Light-Lever Technique to the Study of Colloidal Forces. **1996**, 12, 3557-3562	18
988	Micro-fabricated piezoelectric cantilever for atomic force microscopy. **1996**, 67, 3898-3903	49
987	Imaging of Single Polyethylenimine Polymers Adsorbed on Negatively Charged Latex Spheres by Chemical Force Microscopy. **1996**, 12, 857-860	56
986	AFM and SALS Characterization of Spherulitic Structure in Polyethylene. **1996**, 12, 1084-1087	4
985	In-Situ Imaging of Ionic Crystal Dissolution Using an Integrated Electrochemical/AFM Probe. **1996**, 118, 6445-6452	136
984	Temperature influence on the formation of silanized monolayers on silica: an atomic force microscopy study. **1996**, 352-354, 369-373	35
983	Theoretical simulation of atomic-scale friction in atomic force microscopy. **1996**, 357-358, 92-95	18
982	Simulation of AFM/LFM by molecular dynamics: role of lateral force in contact-mode AFM imaging. **1996**, 357-358, 222-227	12
981	How to describe AFM constant force surfaces in repulsive mode?. **1996**, 349, 196-206	13
980	The interface surfaces of a CN-substituted poly(phenylenevinylene) light-emitting diode, a morphological study. **1996**, 79, 75-84	19
979	Tapping-mode scanning force microscopy: Metallic tips and samples. **1996**, 5, 291-297	9

978	Scanning force microscopic study of surface structure and properties of (alkylsilane/ fluoroalkylsilane) mixed monolayers. **1996**, 3, 123-130	28
977	Nanometer undulations on CaF2 cleaved surfaces observed by Atomic Force Microscopy. **1996**, 34, 1673-1678	4
976	Atomic force microscopy with simultaneous a.c. conductivity contrast for the analysis of carbon fibre surfaces. **1996**, 27, 677-684	4
975	Les microscopies champ proche. **1996**, 1996, 2-8	1
974	Near-field microscopies in the study of glass. **1996**, 196, 7-15	6
973	Mechanical unfolding of alpha2-macroglobulin molecules with atomic force microscope. **1996**, 385, 29-33	109
972	In situ observation of streptavidin-biotin binding on an immunoassay well surface using an atomic force microscope. **1996**, 390, 161-4	64
971	Scanning force microscopy of DNA deposited onto mica: equilibration versus kinetic trapping studied by statistical polymer chain analysis. **1996**, 264, 919-32	590
970	Scanning force microscopy of organic thin-film amorphous hole transport materials. **1996**, 80, 3297-3305	29
969	Biological atomic force microscopy: what is achieved and what is needed. **1996**, 45, 1-86	308
968	Application of atomic-force microscopy to studies of microbial interactions with hydrous Fe(III)-oxides. **1996**, 132, 33-43	22
967	Dynamic Viscoelastic Properties of Liquid Polymer Films Studied by Atomic Force Microscopy. **1996**, 12, 6138-6142	43
966	Surface Morphology of Polymer Films Imaged by Atomic Force Microscopy. **1996**, 3, 89-105	28
965	Studies of vibrating atomic force microscope cantilevers in liquid. **1996**, 80, 3622-3627	219
964	Observation of ferroelectric domain structure branching and large step mobility on the TGS surface by atomic force and SNOM microscopy. **1996**, 184, 1-10	7
963	Structure and Frictional Properties of Self-Assembled Surfactant Monolayers. **1996**, 12, 1235-1244	143
962	Micromechanical engineering: a basis for the low-cost manufacturing of mechanical microdevices using microequipment. **1996**, 6, 410-425	53
961	Conformational states of the nuclear pore complex induced by depletion of nuclear Ca2+ stores. **1996**, 273, 1875-7	178

960	Vibrations of free and surface-coupled atomic force microscope cantilevers: Theory and experiment. **1996**, 67, 3281-3293	587
959	General technique for fabricating large arrays of nanowires. **1996**, 7, 263-265	24
958	High-Resolution Optical Spectroscopy of Single Molecules in Solids. **1996**, 29, 563-571	89
957	Molecular Weight Dependence of Surface Dynamic Viscoelastic Properties for the Monodisperse Polystyrene Film. **1996**, 29, 3040-3042	166
956	Failure Analysis of Sub-Micrometer Devices and Structures Using Scanning Thermal Microscopy. **1996**,	3
955	Electron Holography and Lorentz Microscopy of Magnetic Materials. **1996**, 98, 323-426	12
954	Study on the morphology of XLPE power cable by means of atomic force microscopy. **1996**, 3, 283-288	11
953	Scanning tunnelling microscopy of semiconductor surfaces. **1996**, 59, 701-769	71
952	A piezotube scanner for atomic force microscopy in solution. **1996**, 67, 2654-2655	7
951	Improvements to atomic force microscopy cantilevers for increased stability. **1996**, 67, 4191-4197	34
950	A new leadframe design solution for improved pop-corn cracking performance.	4
949	Atomic force microscopy of long and short double-stranded, single-stranded and triple-stranded nucleic acids. **1996**, 24, 713-20	277
948	Mineral characterization in calcifying tissues: atomic, molecular and macromolecular perspectives. **1996**, 34, 239-46	65
947	Vicinal Faces on Synthetic Goethite Observed by Atomic Force Microscopy. **1996**, 44, 437-442	37
946	Morphology of Lead(II) and Chromium(III) Reaction Products on Phyllosilicate Surfaces As Determined By Atomic Force Microscopy. **1996**, 44, 734-743	24
945	Nanoscale Indentation Hardness and Wear Characterization of Hydrogenated Carbon Thin Films. **1996**, 118, 431-438	20
944	Imaging of single molecule diffusion. **1996**, 93, 2926-9	535
943	Imaging ROMK1 inwardly rectifying ATP-sensitive K+ channel protein using atomic force microscopy. **1996**, 93, 8756-60	61

942	Atomic force microscopy images of a pollen grain: A preliminary study. **1996**, 62, 221-223	3
941	Tunneling Current Change of Graphite Surface by Single Ion Irradiation. **1996**, 438, 561	
940	True Atomic Resolution Imaging on Semiconductor Surfaces with Noncontact Atomic Force Microscopy. **1996**, 442, 15	7
939	Atomic-Scale Simulations of Structural Properties of Ceramics. **1996**, 453, 209	
938	Atomic Force Probe of Mesoscopic Dielectric and Viscoelastic Fluctuations Near the Glass Transition. **1996**, 455, 453	1
937	Morphology Characterization in Multicomponent Polymer Systems using Scanning Probe Microscopy. **1996**, 461, 211	
936	Interfacially Confined Polymeric Systems Studied by Atomic Force Microscopy. **1996**, 464, 133	4
935	An improved method for the synthesis of mercurated dUTP. Enzymic synthesis of Hg-labelled DNA of high molecular weight suitable for use in an image based DNA sequencing strategy. **1996**, 6, 199-209	2
934	Conformational change of the hexagonally packed intermediate layer of Deinococcus radiodurans monitored by atomic force microscopy. **1996**, 178, 3025-30	125
933	Detection and localization of individual antibody-antigen recognition events by atomic force microscopy. **1996**, 93, 3477-81	1018
932	Effect of Capillary Force on Friction Force Microscopy : A Scanning Hydrophilicity Microscope. **1996**, 25, 499-500	61
931	Nanoscopic Hardness Measurement by Atomic Force Microscope. **1996**, 39, 456-462	3
930	Imaging of Single Extended DNA Molecules on Flat (Aminopropyl)triethoxysilaneMica by Atomic Force Microscopy. **1996**, 12, 1697-1700	97
929	Inequivalent atoms and imaging mechanisms in ac-mode atomic-force microscopy of Si(111)7 x 7. **1996**, 54, R8309-R8312	113
928	Friction-force microscopy of peptide filament: an application to estimate the size of a supramolecular unit. **1996**, 281-282, 624-629	
927	Impact and characterisation of heavy ion tracks on epitaxial growth. **1996**, 107, 327-332	3
926	Atomic force microscopy of pollen grains, cellulose microfibrils, and protoplasts. **1996**, 194, 29-39	17
925	Observation of baker's yeast strains used in biotransformation by atomic force microscopy. **1996**, 59, 135-43	17

924	Aldosterone activates the nuclear pore transporter in cultured kidney cells imaged with atomic force microscopy. **1996**, 432, 831-8	14
923	Experimental observation of single-asperity friction at the atomic scale. **1996**, 273, 317-321	18
922	Scanning force microscopy characterization of thin lipid films on a substrate. **1996**, 273, 289-296	12
921	Experimental observation of the interference of three-and five-wave mixing processes in optical second harmonic generation in a solution of bacteriorhodopsin. **1996**, 64, 718-723	9
920	Biological applications of near-field optical microscopy. **1996**, 15, 51-58	17
919	Comparison of atomic force microscope and Rutherford backscattering spectrometry data of nanometre size zinc islands. **1996**, 290-291, 312-316	3
918	Atomic force and electron microscopy of sporangial wall microfibrils in Linderina pennispora. **1996**, 100, 821-826	9
917	Golden interfaces: The Surface of Self-Assembled Monolayers. **1996**, 8, 719-729	274
916	Anorganische Materialien mit Hilfe von Rastersondenmikroskopen verstehen und manipulieren. **1996**, 108, 748-768	1
915	Topographic Changes on the Surfaces of PVD Coatings in Humid Air: an AFM/LFM Study. **1996**, 24, 7-14	4
914	Characterization of PTFE on Silicon Wafer Tribological Transfer Films by XPS, Imaging XPS and AFM. **1996**, 24, 204-210	26
913	Determination of Fractured Steel Surface Roughness by Atomic Force Microscopy Using Fractal-based Approaches. **1996**, 24, 282-285	6
912	Freeze-substitution as a preparative technique for immunoelectronmicroscopy: evaluation by atomic force microscopy. **1996**, 33, 251-61	12
911	Human low density lipoprotein and human serum albumin adsorption onto model surfaces studied by total internal reflection fluorescence and scanning force microscopy. **1996**, 9, 444-55	22
910	Techniques for measuring surface forces. **1996**, 67, 119-183	215
909	Measuring the thermal properties of photoresist thin films using atomic force microscopy. **1996**, 273, 308-311	6
908	UFM observation of lattice defects in highly oriented pyrolytic graphite. **1996**, 273, 116-121	27
907	Analysis of surface forces on oxides in aqueous solutions using AFM. **1996**, 273, 322-326	46

906	Scanning probe microscopies for molecular photodiodes. **1996**, 273, 168-176	22
905	Calibration procedures for frictional measurements with a lateral force microscope. **1996**, 192, 141-150	111
904	The effects of compressive stresses on the abrasion of diamond coatings. **1996**, 196, 226-233	21
903	Morphology and mechanical properties of polymer surfaces via scanning force microscopy. **1996**, 52, 1-52	59
902	Analytical applications of retinoid-cyclodextrin inclusion complexes. 1. Characterization of a retinal-beta-cyclodextrin complex. **1996**, 14, 909-15	30
901	Microstructural observation of organic thin film in optical recording. **1996**, 39, 101-105	1
900	From microsensors to microinstruments. **1996**, 56, 143-149	14
899	Interfacial interaction between low-energy surfaces. **1996**, 16, 97-159	188
898	The atomic force microscope as a tool to study and manipulate local surface properties. **1996**, 11, 601-612	18
897	pH-dependent charge density at the insulator-electrolyte interface probed by a scanning force microscope. **1996**, 11, 1009-1017	27
896	Langmuir-Blodgett films and nanotechnology. **1996**, 11, 923-932	19
895	A fractal model for the static coefficient of friction at the fiber-matrix interface. **1996**, 27, 421-430	7
894	Artefacts in non-contact mode force microscopy: the role of adsorbed moisture. **1996**, 63, 115-124	12
893	Spatially quantized friction with a lattice periodicity. **1996**, 23, 1-41	117
892	Atom Electronics: A proposal of nano-scale devices based on atom/molecule switching. **1996**, 30, 375-382	13
891	Electric force microscopy: Gigahertz and nanometer measurement tool. **1996**, 31, 171-179	10
890	Observation of voltage contrast in non contact resonant mode Atomic Force Microscopy. **1996**, 31, 215-225	3
889	Thermal imaging and measurement techniques for electronic materials and devices. **1996**, 31, 251-270	60

888	Spectro-ellipsometric investigations of polycrystalline silicon surface roughness. **1996**, 31, 309-316	10
887	Scanning probe microscopy for nanometer inspections and industrial applications. **1996**, 32, 389-409	2
886	SCREAM MicroElectroMechanical Systems. **1996**, 32, 49-73	75
885	Investigations of surface properties of polymeric membranes by near field microscopy. **1996**, 109, 271-284	82
884	Structural characterization of an UF membrane by gas adsorption-desorption and AFM measurements. **1996**, 117, 291-302	39
883	Surface characterization of plasma deposited organic thin films. **1996**, 81, 303-317	81
882	Atomistic dynamics of interfacial processes: films, junctions and nanostructures. **1996**, 92, 237-256	17
881	Scanning tunneling microscopy observations of recorded organic thin films. **1996**, 93, 151-155	5
880	A simulation study of multi-atom tips and estimation of resolution in atomic force microscopy. **1996** , 99, 255-260	1
879	An AFM investigation of the deposition of nanometer-sized rhodium and copper clusters by spin coating. **1996**, 103, 127-140	8
878	Characterization of aluminium nitride thin films. **1996**, 22, 509-513	8
877	Surface structures of MgO(100) and SrTiO3(100) as revealed by atomic force microscopy. **1996**, 160, 104-110	33
876	Cooling crystallization experiments observed by in situ scanning force microscopy. **1996**, 160, 320-329	11
875	High quality CaF2 layers on Si(111) with type-A epitaxial relation at the interface. **1996**, 169, 40-50	5
874	Diagnosis in submicron integrated circuits by electric force microscopy. **1996**, 36, 1113-1118	1
873	Progress in 3D Surface Microtopography Characterization. **1996**, 45, 589-598	68
872	Near-field optical microscopy in the infrared range. **1996**, 27, 335-339	4
871	Friction force microscopy characterization of semiconductor heterostructures. **1996**, 42, 122-126	3

870	Nanoscale characterization of semiconductor materials and devices using scanning probe techniques. **1996**, 17, 147-206	24
869	STM and AFM of bio/organic molecules and structures. **1996**, 26, 261-332	168
868	Intrinsic surface atom manipulations in STM and AFM. **1996**, 104-105, 286-290	4
867	Atomic force microscopy of III□V nanostructures in air. **1996**, 104-105, 529-538	12
866	A constant compliance force modulation technique for scanning force microscopy (SFM) imaging of polymer surface elasticity. **1996**, 66, 237-49	9
865	The use of force modulation microscopy to investigate block copolymer morphology. **1996**, 31, 2531-2538	21
864	Surface characterization of natural graphite powder composite electrodes by atomic force microscopy. **1996**, 31, 513-518	
863	Scanning probe microscopy for testing ultrafast electronic devices. **1996**, 28, 819-841	22
862	Characterization of latex blend films by atomic force microscopy. **1996**, 37, 5577-5582	45
861	Surface morphology study of poly(ethylene oxide) crystals by scanning force microscopy. **1996**, 37, 183-185	22
860	Recent progress in microtribology. **1996**, 200, 296-304	32
859	Estimation of the linear thermal expansion coefficient in friction-deposited, oriented poly(tetrafluoroethylene) films by temperature-dependent lateral force microscopy. **1996**, 36, 471-476	5
858	The surface topography of retrieved femoral heads. **1996**, 7, 739-744	19
857	Characterization of titanium alloy implant surfaces with improved dissolution resistance. **1996**, 7, 323-329	38
856	Nano-wear of the diamond AFM probing tip under scratching of silicon, studied by AFM. **1996**, 2, 345-354	55
855	Bestimmung der Buchstabenfolge der Erbsubstanz M□glichkeiten physikalischer Methoden. **1996**, 27, 113-117	1
854	Effect of roughness as determined by atomic force microscopy on the wetting properties of PTFE thin films. **1996**, 36, 1849-1855	199
853	Studies of optical haze and surface morphology of blown polyethylene films using atomic force microscopy. **1996**, 36, 2129-2134	43

852	Atomic (scanning) force microscopy in cardiovascular research. **1996**, 7, 639-52		18
851	Scanning Force Microscopy Study of Ceramic Fibers for Advanced Composites. **1996**, 79, 2341-2344		2
850	Direct mechanical measurement of interatomic potentials. **1996**, 384, 247-249		115
849	Scanning force microscopy: new instrumentation and applications. **1996**, 1, 264-269		11
848	Human stratum corneum lipids have a distorted orthorhombic packing at the surface of cohesive failure. **1996**, 107, 15-9		28
847	Metal silicide patterning: a new approach to silicon nanoelectronics. **1996**, 7, 275-287		38
846	Surface microstructure of Zr41.25Ti13.75Cu12.5Ni10.0Be22.5, a bulk metallic glass. **1996**, 11, 1494-1499		8
845	Applications of Aluminium Nitride Films Deposited by Reactive Sputtering to Silicon-On-Insulator Materials. **1996**, 35, 4175-4181		54
844	Ultrasonic Force Microscopy. **1996**, 21, 36-41		9
843	Atomic-scale friction image of graphite in atomic-force microscopy. **1996**, 54, 2138-2149		121
842	Quantitative scanning tunneling microscopy at atomic resolution: Influence of forces and tip configuration. *Physical Review Letters*, **1996**, 76, 1276-1279	7.4	62
841	A scanning force microscope designed for fluid cell measurements. **1996**, 67, 4201-4207		1
840	Temperature controlled microstage for an atomic force microscope. **1996**, 67, 2554-2556		41
839	Imaging material properties by resonant tapping-force microscopy: A model investigation. **1996**, 54, 8908-8912		121
838	SCANNING THERMAL MICROSCOPY AT NANOMETER SCALES: A NEW FRONTIER IN EXPERIMENTAL HEAT TRANSFER. **1996**, 9, 83-103		15
837	Ultrahigh vacuum scanning force/scanning tunneling microscope: Application to high-resolution imaging of Si(111)7⊠. **1996**, 67, 2289-2296		18
836	Measurement of Double-Layer Forces at the Electrode/Electrolyte Interface Using the Atomic Force Microscope: Potential and Anion Dependent Interactions. **1996**, 100, 18808-18817		163
835	Ultrasonically facilitated two-dimensional crystallization of colloid particles. **1996**, 80, 5427-5431		18

834	Novel optical probing system with submicron spatial resolution for internal diagnosis of VLSI circuits.	6
833	Surface roughness of sputtered ZrO2 films studied by atomic force microscopy and spectroscopic light scattering. **1996**, 54, 4021-4026	20
832	Direct observation of polymer gel surfaces by atomic force microscopy. **1996**, 104, 1751-1757	70
831	Surface relief associated with martensite and bainite in a Cu□n□l alloy measured by atomic force microscopy. **1996**, 79, 9129-9133	3
830	Magnetic force acting on a magnetic dipole over a superconducting thin film. **1996**, 54, 15429-15437	20
829	Ultrahigh vacuum scanning force microscope with fiber-optic deflection sensor. **1996**, 67, 2957-2959	8
828	Force and conductance jumps in atomic-scale metallic contacts. **1996**, 54, R14234-R14237	50
827	Size dependence of force between parallel planar jellium metal surfaces at small separation. **1996**, 54, 4492-4495	4
826	Simulations of atomic-scale sliding friction. **1996**, 53, 2101-2113	241
825	Calibration of frictional forces in atomic force microscopy. **1996**, 67, 3298-3306	486
824	Low-cost modification of a contact atomic force microscope (AFM) into a sound-activated tapping mode AFM for use in air and liquids. **1996**, 67, 387-392	8
823	Design of a □eetle-type□atomic force microscope using the beam deflection technique. **1996**, 67, 1925-1929	5
822	Study of shear force as a distance regulation mechanism for scanning near-field optical microscopy. **1996**, 79, 1219-1223	21
821	Thermal conductivity and diffusivity measurements in the sub-□n and sub-□ scale on centimeter area samples using a microthermocouple. **1996**, 67, 4246-4255	25
820	Flipping silicon dimers on Si(100) using scanning tip microscopy: A theoretical investigation. **1996**, 53, 4553-4556	19
819	Thermomechanical deflection of microcantilever beams in scanning force microscopes. **1996**, 6, 330-336	8
818	Anisotropic Crystal Growth of TTF-TCNQ Films on Alkali Halides. **1996**, 280, 295-300	11
817	Adhesion and composites. **1996**, 4, 299-311	11

816	Comparative studies of bacterial biofilms on steel surfaces using atomic force microscopy and environmental scanning electron microscopy. **1996**, 10, 65-77	60
815	Comparative studies of the multiplexability of SSFLC devices with respect to alignment characteristics. **1996**, 178, 41-54	3
814	Construction of well organized functional Langmuir-Blodgett films by mimicking structures and functions of biological membranes. **1996**, 4, 181-209	1
813	Nanoindentation and nanowear tests on amorphous carbon films. **1996**, 74, 1143-1157	25
812	QUALITATIVE AND QUANTITATIVE SURFACE MICROSCOPY. **1996**, 943-1032	6
811	Transfer of a Single Particle between Two Surfaces with an Atomic Force Microscope. **1996**, 100, 8369-8372	1
810	Scanned Probe Microscopies in Chemistry. **1996**, 100, 13103-13120	88
809	Real Time Monitoring of the Electrochemical Transformation of a Ferrocene-Terminated Alkanethiolate Monolayer at Gold via an Adhesion-Based Atomic Force Microscopic Characterization. **1996**, 100, 13342-13345	44
808	Evidence of Octopolar Symmetry in Bacteriorhodopsin Trimers by Hyper-Rayleigh Scattering from Purple Membrane Suspensions. **1996**, 100, 19672-19680	24
807	Measuring Electrostatic Double-Layer Forces at High Surface Potentials with the Atomic Force Microscope. **1996**, 100, 16700-16705	52
806	Ultra-long glass tips for atomic force microscopy. **1996**, 6, 254-260	12
805	Reversible Tip-induced Structural Modifications in Scanning Tip Microscopy. **1996**, 35, 3714-3718	4
804	Instrumentation of the High-Vacuum Atomic Force Microscope. **1996**, 35, 3783-3786	5
803	Interpretation of Frictional-Force Microscopy Images Based on the Two-Dimensional Stick-Slip Motion of the Tip Atom. **1996**, 35, 3700-3705	14
802	SiO2/SiSystem Studied by Scanning Capacitance Microscopy. **1996**, 35, 3793-3797	12
801	Evaluation of Tribological Properties of a Longitudinal Magnetic Recording Medium using Lateral Modulation Friction Force Microscope. **1996**, 35, 6286-6291	13
800	Characterization of surface damage via surface acoustic waves. **1996**, 7, 295-301	21
799	Imaging Two-dimensional Crystals of Catalase by Atomic Force Microscopy. **1996**, 35, 6233-6238	14

798	The direct observation of the core region of a propagating fracture crack in glass. **1996**, 34, 549-554	42
797	Nanomachining, manipulation and fabrication by force microscopy. **1996**, 7, 236-240	16
796	Friction force microscopy on well defined surfaces. **1996**, 7, 340-344	12
795	PZT thin film actuator/sensor for atomic force microscope.	3
794	Effects of Atomic Arrangement at Tip Apex and Tip-Sample Distance on Atomic Force Microscopy Images: A Simulation Study. **1996**, 35, 2318-2325	11
793	Rydberg states of the hydrogen atom near a metal surface. **1996**, 29, 1293-1306	57
792	Ultrasonic Atomic Force Microscope with Overtone Excitation of Cantilever. **1996**, 35, 3787-3792	152
791	Distance-dependent noise measurements in scanning force microscopy. **1996**, 8, 7561-7577	66
790	Morphological, chemical and electrical characterization of thin film grown on rough and mechanically polished substrates. **1996**, 29, 2235-2239	9
789	Localized Fluctuation of a Two-Dimensional Atomic-Scale Friction. **1996**, 35, 5909-5913	13
788	Nature of Tip-Sample Interaction in Dynamic Mode Atomic Force Microscopy. **1997**, 36, 7354-7357	1
787	Identification of Materials using Direct Force Modulation Technique with Magnetic AFM Cantilever. **1997**, 36, 3868-3871	10
786	Scanning Force Microscopy Studies of Domain Structure inBaTiO3Single Crystals. **1997**, 36, 2207-2211	76
785	Nanorheology of Polymer Blends Investigated by Atomic Force Microscopy. **1997**, 36, 3850-3854	45
784	Nanometer-Scale Erasable Recording Using Atomic Force Microscope on Phase Change Media. **1997** , 36, 523-525	32
783	Silicon Nitride Thin Films Young's Modulus Determination by an Optical Non Destructive Method. **1997**, 36, L794-L797	24
782	Atomic Force Microscopy Studies of Erythrocyte Membranes Immobilized by Centrifugation under Aqueous Conditions. **1997**, 36, 3872-3876	4
781	Structural Studies on Phosphatidylcholine Liposomes in Various Phases Using Atomic Force Microscopy. **1997**, 36, 3913-3916	4

780	Scanning Auger Electron Microscopy Evaluation and Composition Control of Cantilevers for Ultrahigh Vacuum Atomic Force Microscopy. **1997**, 36, 3855-3859		12
779	Imaging of Proteins Adsorbed on Self-Assembled Monolayers by Atomic Force Microscopy in Liquid. **1997**, 36, L945-L948		
778	Sensing Molecular Density of Monolayers from Fluoroalkyltrichlorosilane Using Atomic Force Microscope Having a Tip Modified with Fluoroalkyltrichlorosilane Molecules. **1997**, 36, L162-L165		10
777	Spin-polarized scanning tunnelling microscopy with detection of polarized luminescence emerging from a semiconductor tip. **1997**, 9, 5697-5707		8
776	Chemical storage of data. **1997**, 8, 1-5		12
775	Submicrometer lithography of a silicon substrate by machining of photoresist using atomic force microscopy followed by wet chemical etching. **1997**, 8, 76-81		13
774	Interplay between stick-slip motion and structural phase transitions in dry sliding friction. **1997**, 55, 12892-12895		9
773	Determination of interface roughness cross correlation of thin films from spectroscopic light scattering measurements. **1997**, 81, 3627-3636		10
772	Frictional Force between a Sharp Asperity and a Surface Step. *Physical Review Letters*, **1997**, 79, 5066-5069	7.4	44
771	Scanning Motions of an Atomic Force Microscope Tip in Water. *Physical Review Letters*, **1997**, 79, 853-856	7.4	14
770	Role of Covalent Tip-Surface Interactions in Noncontact Atomic Force Microscopy on Reactive Surfaces. *Physical Review Letters*, **1997**, 78, 678-681	7.4	196
769	Use of atomic force microscopy to probe surface charge densities in electrolyte solutions on a nanometer scale.		
768	Self-sharpening tip integrated on micro cantilevers with self-exciting piezoelectric sensor for parallel atomic force microscopy. **1997**, 70, 2318-2320		2
767	Precise force curve detection system with a cantilever controlled by magnetic force feedback. **1997**, 68, 4132-4136		15
766	Improved spatial resolution in magnetic force microscopy. **1997**, 71, 3293-3295		62
765	Dynamical frictional phenomena in an incommensurate two-chain model. **1997**, 56, 13932-13942		25
764	Static and dynamic properties of frictional phenomena in a one-dimensional system with randomness. **1997**, 56, 4261-4265		28
763	Geometry effects on the van der Waals force in atomic force microscopy. **1997**, 56, 4159-4165		35

762	Nanoscale determination of phase velocity by scanning acoustic force microscopy. **1997**, 55, 15852-15855		27
761	Nonlinear dynamics of intermittent-contact mode atomic force microscopy. **1997**, 55, 14899-14908		34
760	Surface modifications induced by scanning force microscopy on Langmuir-Blodgett films.		
759	Electrostatic Nanotitration of Weak Biochemical Bonds. *Physical Review Letters*, **1997**, 79, 1949-1952	7.4	9
758	Characterization of micromachined piezoelectric PZT force sensors for dynamic scanning force microscopy. **1997**, 68, 2091-2100		61
757	First-principles calculation of the exchange interaction and the exchange force between magnetic Fe films. **1997**, 56, 3218-3221		37
756	Tapping mode imaging with an interfacial force microscope. **1997**, 68, 4124-4131		11
755	Self-oscillating mode for frequency modulation noncontact atomic force microscopy. **1997**, 70, 2529-2531		19
754	Atomic-scale study of dry sliding friction. **1997**, 55, 2606-2611		49
753	Force-balancing microforce sensor with an optical-fiber interferometer. **1997**, 68, 2475-2478		16
752	Microfabrication of oxidation-sharpened silicon tips on silicon nitride cantilevers for atomic force microscopy. **1997**, 6, 303-306		27
751	Vibrational dynamics of force microscopy: Effect of tip dimensions. **1997**, 71, 626-628		52
750	Investigation of the Cu/BCB and Cu/PPQ interfaces by photoelectron spectroscopy. **1997**, 15, 2529-2536		10
749	Atomic force microscopy on cells adhering to a substrate: a tool for cellular engineering.		
748	Surface modifications with a scanning force microscope. **1997**, 68, 1458-1460		13
747	A flexible implementation of scanning probe microscopy utilizing a multifunction system linked to a PC-Pentium controller. **1997**, 68, 3799-3802		32
746	Ferroelectric domains and domain boundaries observed by scanning force microscopy. **1997**, 191, 211-218		39
745	High-Resolution Imaging of Liquid Structures: Wetting and Capillary Phenomena at the Nanometer Scale. **1997**, 22, 36-41		33

744 Characterization of Strained Epitaxial Si1 Gex Films Grown using Gas Source Molecular Beam Epitaxy. **1997**, 43, 155-163 12

743 Study of Attractive Interactions between Poly (Ethylene-Oxide) Coated Surfaces Using AFM. **1997**, 121-127

742 Nanofabrication for Electronics. **1997**, 87-185 5

741 Scanning Probe Microscopes and their Applications. **1997**, 503-547

740 Plastic deformation of oxide scales at elevated temperatures. **1997**, 12, 697-705 17

739 Doping high Tc superconductors with oxygen and metallic atoms: A molecular dynamics study. **1997**, 12, 2901-2906

738 Atomare Auflung auf einem Isolator mittels Rasterkraftmikroskopie. **1997**, 53, 435-435 3

737 Torsional force probes optimized for higher order mode suppression. 2

736 Force Titration of a Carboxylic Acid Terminated Self-Assembled Monolayer Using Chemical Force Microscopy. **1997**, 294, 99-102 30

735 Atomic force microscopic demonstration of DNA looping by GalR and HU. **1997**, 25, 873-6 82

734 Protein Stretching II*1: Results for Carbonic Anhydrase. **1997**, 36, 3887-3893 20

733 Microsecond atomic force sensing of protein conformational dynamics: implications for the primary light-induced events in bacteriorhodopsin. **1997**, 94, 7937-41 56

732 Evaluation of Interaction Forces between Surfaces in Electrolyte Solutions by Atomic Force Microscope.. **1997**, 30, 52-58 20

731 Statistical analysis of in-situ slip lines by atomic force microscopy observations. **1997**, 76, 1139-1152 8

730 Using Atomic Force Microscopy to Study Soil Mineral Reactions. **1997**, 1-43 7

729 6. Surface Characterization. **1997**, 30, 291-331 2

728 Parallelization of an algorithm used to simulate Atomic Force Microscope images. **1997**, 175-189

727 The Relationship Between Near-Surface Mechanical Properties, Loading Rate and Surface Chemistry. **1997**, 505, 307 7

726	AFM Observations of Oxide Morphologies Formed at high Temperatures. **1997**, 472,	
725	Surface Molecular Motion of Amorphous Polymeric Solids. **1997**, 70, 1491-1503	3
724	Studies on falciparum malaria with atomic-force and surface-potential microscopes. **1997**, 91, 689-692	5
723	Novel optical probing system for quarter-/spl mu/m VLSI circuits.	
722	Thermal and electrical imaging of surface properties with high lateral resolution.	
721	Attonewton force detection using ultrathin silicon cantilevers. **1997**, 71, 288-290	314
720	Viscous drag effect on imaging of linearized plasmid deoxyribonucleic acid in liquid medium with the atomic force microscope. **1997**, 70, 1977-1979	23
719	Thermal analyses by means of scanning probe microscopy [CMOS ICs].	2
718	Design and construction of a heat stage for investigations of samples by atomic force microscopy above ambient temperatures. **1997**, 68, 140-142	10
717	A scanning force microscope for simultaneous force and patch-clamp measurements on living cell tissues. **1997**, 68, 2583-2590	22
716	A critical look at surface force measurement using a commercial atomic force microscope in the noncontact mode. **1997**, 68, 4145-4151	23
715	A versatile stable scanning proximal probe microscope. **1997**, 68, 1759-1763	15
714	Nanoscale Visualization of Crystal Habit Modification by Atomic Force Microscopy. **1997**, 9, 773-783	19
713	Morphology Characterization in Multicomponent Macromolecular Systems Using Scanning Probe Phase Microscopy. **1997**, 13, 1840-1843	20
712	Scanning tunneling microscope investigation of carbon nanotubes produced by catalytic decomposition of acetylene. **1997**, 56, 12490-12498	46
711	Cross-Sectional Scanning Tunneling Microscopy. **1997**, 97, 1017-1044	35
710	Static Frictional Forces at Crystalline Interfaces. **1997**, 101, 4992-4997	6
709	Effect of Substrate Hydrophobicity on Surface Aggregate Geometry:´Zwitterionic and Nonionic Surfactants. **1997**, 101, 5337-5345	70

708	Mapping Local Electrostatic Forces with the Atomic Force Microscope. **1997**, 13, 2825-2832	119
707	Nanotribological Properties of Octadecyltrichlorosilane Self-Assembled Ultrathin Films Studied by Atomic Force Microscopy: Contact and Tapping Modes. **1997**, 13, 2333-2339	49
706	Scanning Force Microscopy with Chemical Specificity: An Extensive Study of Chemically Specific Tip§Surface Interactions and the Chemical Imaging of Surface Functional Groups. **1997**, 13, 4357-4368	237
705	Theoretical Calculations of Coefficients of Friction between Weakly Interacting Surfaces. **1997**, 101, 10045-10052	59
704	Quantification of Specific Immunological Reactions by Atomic Force Microscopy. **1997**, 13, 2557-2563	51
703	Effects of Guest Microparticles on the Phase Transition of Bulk Polymer Gels. **1997**, 13, 7039-7044	17
702	Direct Force Measurements between Silica and Alumina§. **1997**, 13, 2109-2112	128
701	On-chip RBC deformability checker embedded with vision analyzer. **2017**,	0
700	Integrated Cantilever-Based Biosensors for the Detection of Chemical and Biological Entities. **2017**, 469-530	
699	Surface Complexation of Metals by Natural Colloids. **2017**, 211-236	
698	Atomic Force Microscopy in Hydrogen Storage Materials Research. **2017**, 103-117	
697	Wear Measurement. **2017**, 225-232	
696	Measurement of Surface Forces and Adhesion. **2017**, 56-66	
695	Three-Dimensional Fabrication of Micro-/Nanostructure Using Scanning Probe Lithography. **2018**, 445-477	
694	Three-Dimensional Fabrication of Micro-/Nanostructure Using Scanning Probe Lithography. **2018**, 1-33	
693	Introduction. **2018**, 1-19	
692	Observation of strained SiGe nanoislands embedded in a Si matrix using ambient cross-sectional atomic force microscopy. **2018**, 123-126	
691	Introduction. **2018**, 1-13	

690 Desenvolvimento de nanodispositivos baseados em biomolÉculas: abordagens computacionais. **2018**, 118-155

689 High-Speed Atomic Force Microscopy. **2018**, 263-267

688 Pore Structures. **2018**, 17-56

687 Scanning Probe Microscopy. **2018**, 23-41

686 Atomic Force Microscopy: A three-dimensional reconstructive tool of oral microbiota in gingivitis and periodontitis. **2017**, 21, 264-269 4

685 Silicon photonics based on-chip vibrometer. **2018**, 2

684 On-chip ultraviolet holography for high-throughput nanoparticle and biomolecule detection. **2018**, 1

683 Atomic force stiffness imaging: capturing differences in mechanical properties to identify and localize areas of prostate cancer tissue. **2018**,

682 Direct Measurement of Dissipation in a Single Protein using Small Amplitude Atomic Force Microscopy.

681 Young's moduli of cellulose nanofibers measured by atomic force microscopy. **2018**,

680 Concurrent Atomic Force Spectroscopy.

679 Experimental Analysis of Cellular Membrane Mechanical Properties. **2019**, 745-749

678 Single Molecule Method for Molecular Biology. **2018**, 43, 53-59

677 Features of mechanical scanning probe lithography on graphene oxide and As(Ge)Se chalcogenide resist. **2018**, 21, 152-159

676 Fabrication of a Switchable Dual AFM Cantilever through a Large Deflection using Magneto-strictive Film. **2018**, 138, 412-416

675 Design of AFM automatically feeding probe system. **2018**, 19, 205-209

674 Characterization and Measurement of Microcomponents with the Atomic Force Microscope (AFM). **2018**, 139-162

673 Molecular anatomy and plasticity of the long noncoding RNA HOTAIR.

672 Multilayer X-ray interference structures. **2019**, 189, 1137-1171 1

671 1. Particle Characteristics and Measurement1.9 Interparticle Forces1.9.4 Measurement Methods of Interparticle Forces. **2018**, 55, 542-546

670 Characterization of carbon materials using high-resolution scanning probe microscopy. **2018**, 2018, 204-209 1

669 Investigation of tribological properties of nanostructured objects on atomic-smooth surfaces. **2018**, 40-47

668 From Nanomaterials and Nanotechnologies to the Alternative Energy. **2018**, 19, 442-486 0

667 Introduction. **2019**, 1-9

666 Introduction. **2019**, 1-11

665 Super-Resolution Imaging Based on Nonlinear Plasmonic Scattering. **2019**, 239-259

664 Recent advances in probing surface/interfacial water by scanning probe microscopy. **2019**, 68, 016802

663 Chapter 14:Applications of Scanning Electron Microscopy and Atomic Force Microscopy to Food Structure Characterisation. **2019**, 361-382

662 Background Review. **2019**, 11-31

661 Application to Fundamental Studies. **2019**, 545-592

660 CIRP Encyclopedia of Production Engineering. **2019**, 93-96

659 Atomic Force Microscopy. **2019**, 725-738

658 Scanning Probe Microscopy for Nanoscale Semiconductor Device Analysis. **2019**, 485-498

657 References. **2019**, 179-203

656 Introduction to Scanning Probe Microscopy. **2019**, 709-724

655 Introduction. **2019**, 1-13

654 Tactile Surface Metrology. **2019**, 43-55

653 Heterogeneous Structure in Elastomers and Polymer Nanotechnology :. **2019**, 92, 188-194

652 CHAPTER 2:Structure, Function, Orientation, Characterization and Immobilization of Antibodies for Immunosensor Development. **2019**, 21-41

651 Amplitude Modulation (AM) Mode in Dynamic Atomic Force Microscopy. **2019**, 209-229

650 Scanning Probe Microscopes. **2019**, 279-297

649 Characterization of Nanomaterials. **2019**, 44-80

648 Real-time and non-invasive quantitative phase imaging of pancreatic ductal adenocarcinoma cell mechanical properties. **2019**, 0

647 First results from the Large Dynamic Range Atomic Force Microscope for overlay metrology. **2019**, 1

646 Development of hybrid measuring system for the complex micro-arrayed surface. **2019**,

645 Simultaneous 3D super-resolution fluorescence microscopy and atomic force microscopy: combined SIM and AFM platform for cell imaging.

644 Characterization and Measurement of Microcomponents with the Atomic Force Microscope (AFM). **2019**, 155-176 0

643 Micro- and nanofabrication technologies using the nanopositioning and nanomeasuring machines. **2019**,

642 Differential expansion microscopy. 2

641 National Nanotechnology Initiative: A Model for Advancing Revolutionary Technologies. **2020**, 121-133 0

640 Studying the Tribological Properties of n-alkanes Monolayer Films on Atomic Flat Surface of Gold. **2019**, 15, 70-77

639 Studying the Tribological Properties of n-alkanes Monolayer Films on Atomic Flat Surface of Gold. **2019**, 15, 62-68

638 Characterization by Atomic Force Microscope. **2019**, 53-58

637 Encyclopedia of Systems and Control. **2020**, 1-6

636	Topography measurement by normal-incidence reflection ptychography. **2019**,	
635	Imaging Oral Biofilm and Plaque. **2020**, 85-97	
634	Generation of coupled orbital angular momentum modes from an optical vortex parametric laser source. **2019**, 27, 37025-37033	4
633	Development of Three-degree-of-freedom Zero-compliance Mechanism for Micro Force Measurement with a Cantilever. **2020**, 53, 8339-8344	
632	Combinatorial Thin-Film Synthesis for New Nanoelectronics Materials. **2020**, 75-87	
631	DNA Sequencing Modified Method through Effective Regulation of Its Translocation Speed in Aqueous Solution. **2020**, 10, 96-112	3
630	Polymer Interface Reactions. **2020**, 55-96	1
629	Mechanical Unfolding and Refolding of Single Membrane Proteins by Atomic Force Microscopy. **2020**, 2127, 359-372	
628	Introduction. **2020**, 1-31	0
627	Three-dimensional reconstruction of individual helical nano-filament structures from atomic force microscopy topographs.	1
626	Atomic force microscopy for cell mechanics and diseases. **2020**,	0
625	High-dynamic-range areal profilometry using an imaging, dispersion-encoded low-coherence interferometer. **2020**, 28, 17320-17333	1
624	Stiffening of prostate cancer cells driven by actin filaments microtubules crosstalk confers resistance to microtubule-targeting drugs.	
623	Subnanometer-scale imaging of nanobio-interfaces by frequency modulation atomic force microscopy. **2020**, 48, 1675-1682	2
622	Scanning Probe Microscopy From Surfaces to Single Atoms. 1-39	
621	Hollow Atomic Force Microscopy Cantilevers with Nanoscale Wall Thicknesses. **2021**, e2102979	0
620	Modulating the catalytic activity of metal-organic frameworks for CO oxidation with N2O through an oriented external electric field. **2021**, 516, 111970	2
619	Bionic effects of nano hydroxyapatite dentifrice on demineralised surface of enamel post orthodontic debonding: in-vivo split mouth study. **2021**, 22, 39	1

618	Characterization Techniques for Studying the Properties of Nanocarriers for Systemic Delivery. **2020**, 57-86	
617	Optomechanical atomic force microscope. **2021**, 32, 085505	3
616	Experimental validation of the simultaneous damping and tracking controller design strategy for high-bandwidth nanopositioning PAVPF approach. **2020**, 14, 3506-3514	4
615	In-situ Study on Structure Dependent Quantized Conductance uncovered via Electron Crystallography. **2020**, 62, 226-233	
614	Image reconstruction of TGZ3´grating by eliminating tip-sample convolution effect in AFM. **2020**, 15, 1167-1172	0
613	Low-cost spectrum analyzer for trouble shooting noise sources in scanning probe microscopy. **2020** , 38, 061202	0
612	Periodic Solutions of a Tapping Mode Cantilever in an Atomic Force Microscope with Harmonic Excitation.	
611	Nanoscale geochemical heterogeneity of organic matter in thermally-mature shales: An AFM-IR study. **2022**, 310, 122278	0
610	[Atomic force microscopy in the study of retinal structure]. **2020**, 136, 251-257	0
609	Microscopy of Polymers. **2021**, 61-103	
608	Comparative study of photoinduced surface-relief-gratings on azo polymer and azo molecular glass films.. **2021**, 11, 34766-34778	1
607	Molecular packing and film morphology control in organic electrochemical transistors.	2
606	Introduction. **2020**, 1-33	
605	Sub-Nanoscale Three-Dimensional Analysis of Hydration Structures at Solid-Liquid Interfaces by Atomic Force Microscopy. **2020**, 20, 305-309	
604	Evolutionary Design, Deposition and Characterization Techniques for Interference Optical Thin-Film Multilayer Coatings and Devices. **2020**, 281-343	
603	Effects of subsurface charge on surface defect and adsorbate of rutile TiO2 (110). **2020**, 69, 210701	2
602	Calcifying Extracellular Vesicles: Biology, Characterization, and Mineral Formation. **2020**, 97-116	
601	Metrology for Microsystems Manufacturing. **2020**, 173-225	

600 Mechanical View on the Mitochondria. **2020**, 163-189

599 Wege in die Nanowelt: Skalierungs- und Strukturprinzipien, Werkzeuge der Erkenntnisgewinnung, Modelle und Experimente. **2020**, 325-359

598 Polishing characteristics of polyetherketoneketone on Candida albicans adhesion. **2020**, 58, 207 1

597 Mechanobiology Analysis of Manifold Live Cells in Vitro with Atomic Force Acoustic Microscopy.. **2020**, 3, 1210-1215

596 Fehleranalyse. **2020**, 573-614

595 Mechanical properties of nanoporous organo silicate glass films for the use in integrated circuits interconnects. **2020**, 1

594 The Definition of Biophysics: What Exactly is Biophysics?. **2020**, 3-34 1

593 Interaction between two calcite surfaces in aqueous solutions: Study of nano-scale interfacial forces using AFM and SFA. 1

592 Atomic Force Microscopy of Biomembranes. **2020**, 63-92

591 Three-Dimensional Evaluation of Paper Surfaces Using Confocal Microscopy. **2020**, 301-324

590 Towards a fast detection of microbial resistance to antibiotics. **2020**, 6, 010-013 0

589 Ferroelectric Properties. **2021**, 173-206

588 Total-reflection high-energy positron diffractometer at NEPOMUC - Instrumentation, simulation, and first measurements. **2021**, 92, 115103

587 Scanning probe microscopy for electrocatalysis. **2021**, 4, 3483-3514 1

586 Utilizing deep learning and advanced image processing techniques to investigate the microstructure of a waxy bitumen. **2021**, 313, 125481 3

585 Length of Mucin-Like Domains Enhance Cell-Ebola Virus Adhesion by Increasing Binding Probability.

584 High aspect ratio topography reconstruction in sub-resonant atomic force microscopy exploiting stick-slip dynamics*. **2020**,

583 Nanosciences and Nanotechnologies. 1-20

582 Beispiele komplexer Mikrosysteme. **2006**, 453-481

581 Nuclear Envelope: Nanoarray Responsive to Aldosterone. **2007**, 38-54

580 Introduction. **2002**, 127-205

579 Theories and Laws of Molecular Adhesion: All Molecules Adhere. **2004**, 41-60

578 Direct Force Measurement at Liquid/Liquid Interfaces. **2005**, 77-95

577 Nanometer-Scale Electronics and Storage. **2005**, 333-354

576 Imaging, Measuring and Manipulating Biological Matter from the Millimeter to Nanometer Scale. **2005**, 85-110

575 Scanning Probe Microscopy across Dimensions. **2005**, 139-165

574 Darstellung von Strukturver□derungen der Kernporenkomplexe Durch Zeitraffer Atomkraftmikroskopie. **2005**, 18-19

573 Sichtbarmachung des Wachstums von Amyloidfibrillen durch Zeitraffer Atomkraftmikroskopie. **2005**, 264-265

572 Laser-Cantilever-Anemometer. **2005**, 129-132

571 Introduction □Measurement Techniques and Applications. **2005**, 1-37

570 Dynamic Force Microscopy. **2005**, 243-281

569 Tip Geometry and Tip-Sample Interactions in Scanning Probe Microscopy (SPM). **2006**, 456-463

568 Magnetic Imaging. **2001**, 316-331

567 Forces between carboxyl and amide groups measured by atomic force microscopy. **2000**, 209-213

566 Scanning Probe Measurements of Electron Transport in Molecules. **2007**, 395-422

565 Dynamic Force Microscopy and Spectroscopy in Vacuum. **2007**, 506-533

564 Integral Equation Modeling of Electrostatic Interactions in Atomic Force Microscopy. **2008**, 237-246

563 Characterization and Handling of Biological Cells. **2008**, 237-266

562 The Error Analysis of Cross-section Curve with Contact Mode Atomic Force Microscopy Simulation Measurement by Using Trapezoidal Cantilever Based on Molecular Mechanics. **2007**, 265-270

561 Atomic and Molecular Scale Imaging of Layered and Other Mineral Structures. 91-138

560 Atomic Force Microscopy. **2008**, 121-143

559 Atomic Force Microscopy. **2008**, 19-45

558 Exact Energy Landscapes of Proteins Using a Coarse-Grained Model. **2008**, 247-268 2

557 Probing Electrical Transport Properties at the Nanoscale by Current-Sensing Atomic Force Microscopy. **2008**, 421-450 1

556 Self-Sensing Cantilever Sensor for Bioscience. **2008**, 219-245

555 High Sliding Velocity Nanotribological Investigations of Materials for Nanotechnology Applications. **2008**, 283-310

554 Measurement of the Mechanical Properties of One-Dimensional Polymer Nanostructures by AFM. **2008**, 311-328

553 Introduction Measurement Techniques and Applications. **2008**, 1-34

552 Computer Simulations of Nanometer-Scale Indentation and Friction. **2008**, 655-740

551 Noncontact Atomic Force Microscopy and Related Topics. **2008**, 135-177

550 Molecular Recognition Force Microscopy: From Simple Bonds to Complex Energy Landscapes. **2008**, 279-308 0

549 Electro-Oxidative Lithography and Self-Assembly Concepts for Bottom-Up Nanofabrication. **2009**, 45-70 1

548 Progress in High-resolution Scanning Probe Microscopy. **2008**, 3-4

547 Mass-producible monolithic silicon probes for scanning probe microscopes. 1

546	Scanning tunneling microscopy and atomic force microscopy: New tools for biology. **1989**, 47, 778-779	
545	Development and application of scanning electrochemical cell microscope for electrochemical imaging of catalytic active sites. **2020**, 88, 229-234	
544	Direct visualization of native infectious SARS-CoV-2 and its inactivation forms using high resolution Atomic Force Microscopy.	
543	Nanowire Detection in AFM Images Using Deep Learning. **2021**, 27, 54-64	1
542	Longitudinal Vibration of Variable Cross-Sectional Nanorods. 64, 49-60	1
541	AFM Research in Catalysis and Medicine. **2020**, 7, 248-255	1
540	The influence of epitope availability on atomic-force microscope studies of antigen-antibody interactions. **1999**, 341 (Pt 1), 173-8	5
539	Atomic force microscopy of gastric mucin and chitosan mucoadhesive systems. **2000**, 348 Pt 3, 557-63	19
538	Atomic force microscopy of paired helical filaments isolated from the autopsied brains of patients with Alzheimer's disease and immunolabeled against microtubule-associated protein tau. **1995**, 147, 516-28	9
537	Twisted ribbon structure of paired helical filaments revealed by atomic force microscopy. **1994**, 144, 869-73	41
536	Measuring cell viscoelastic properties using a force-spectrometer: influence of protein-cytoplasm interactions. **2005**, 42, 321-33	40
535	Atomic force microscopy measurements of lens elasticity in monkey eyes. **2007**, 13, 504-10	23
534	Scanning probe recognition microscopy investigation of tissue scaffold properties. **2007**, 2, 651-61	4
533	Single Molecule Probing of Exocytotic Protein Interactions Using Force Spectroscopy. **2008**, 81, 31	12
532	A novel technique for quantifying mouse heart valve leaflet stiffness with atomic force microscopy. **2012**, 21, 513-20	33
531	Electrical Field Stimulation with a Novel Platform: Effect on Cardiomyocyte Gene Expression but not on Orientation. **2012**, 8, 109-20	6
530	The Emergence of AFM Applications to Cell Biology: How new technologies are facilitating investigation of human cells in health and disease at the nanoscale. **2011**, 1', 87-101	6
529	Micromorphology analysis of the anterior human lens capsule. **2018**, 24, 902-912	3

528	[Influence of surface roughness on oral streptococcal adhesion forces to dental filling materials]. **2016**, 34, 448-453	1
527	Effect of Hydrofluoric Acid Surface Treatments on Surface Roughness and Three-Point Flexural Strength of Suprinity Ceramic. **2020**, 17, 1-7	
526	Comparison of surface topography of low-friction and conventional TMA orthodontic arch wires using atomic force microscopy. **2021**, 10, 2	
525	Atomic-scale structures and dynamics at the growing calcite step edge investigated by high-speed frequency modulation atomic force microscopy.. **2022**,	
524	Electromagnetic description of the interaction between talcum and the rough surface of a composite material. **2022**, 115, 103639	
523	Experimental methods in fracturing mechanics focused on minimizing their environmental footprint. **2022**, 143-182	0
522	Two dynamic modes to streamline challenging atomic force microscopy measurements. **2021**, 12, 1226-1236	
521	Surface Tension and Shear Strain Contributions to the Mechanical Behavior of Individual Mg-Ni-Phyllosilicate Nanoscrolls. 2100153	1
520	Concepts and Application of DNA Origami and DNA Self-Assembly: A Systematic Review. **2021**, 2021, 9112407	1
519	Cantilever signature of tip detachment during contact resonance AFM.. **2021**, 12, 1286-1296	
518	Cyclic Single Atom Vertical Manipulation on a Nonmetallic Surface. **2021**, 12, 11383-11390	
517	Site-specific variations in surface structure and Young's modulus of human hair surfaces at the nanometer scale as induced through bleach treatment.. **2021**, 126, 105001	1
516	Accelerating AFM Characterization via Deep-Learning-Based Image Super-Resolution. **2021**, e2103779	4
515	Double Lamellar Morphologies and Odd–Even Effects in Two- and Three-Dimensional N,N?-bis(n-alkyl)-naphthalenediimide Materials. **2021**, 33, 8800-8811	3
514	Relaxation dynamics of a flexible rod in a fluid. **2021**, 6,	1
513	The biophysics of cancer: emerging insights from micro- and nanoscale tools.. **2022**, 2, 2100056	5
512	Reactive-Oxygen-Species-Mediated Surface Oxidation of Single-Molecule DNA Origami by an Atomic Force Microscope Tip-Mounted C Photocatalyst. **2021**,	
511	Deep Bayesian local crystallography. **2021**, 7,	5

510	Unraveling Dissipation-Related Features in Magnetic Imaging by Bimodal Magnetic Force Microscopy. **2021**, 11, 10507	0
509	Correlation between Contact Angle and Surface Roughness of Silicon Carbide Wafers. **2021**, 10, 113008	1
508	Cancer Cell Mechanobiology: A New Frontier for Cancer Research. **2021**,	1
507	A survey of physical methods for studying nuclear mechanics and mechanobiology. **2021**, 5, 041508	5
506	Tools and Techniques Used in Nanobiotechnology. **2022**, 29-52	
505	Interaction energy contours of molecules as probed by a test atom. **1994**, 106, 327-337	5
504	Can super-resolution microscopy become a standard characterization technique for materials chemistry?. **2022**, 13, 2152-2166	3
503	Real-time Force Reconstruction in a Transverse Dynamic Force Microscope. **2021**, 1-1	
502	Sound Wave Propagation from Underdamped Free Oscillation of Metallic Cantilever Beams. **2022**, 60, 66-69	
501	Effect of lubricants on the rotational transmission between solid-state gears.. **2022**, 13, 54-62	1
500	Study of High-Low KPFM on a pn-Patterned Si Surface.. **2022**,	0
499	Effect of a Misidentified Centre of a Type ASG Material Measure on the Determined Topographic Spatial Resolution of an Optical Point Sensor. **2022**, 2, 19-32	
498	Electrical Measurement by Multiple-Probe Scanning Probe Microscope. **2022**, 289-302	
497	Advancement in fabrication of carbon nanotube tip for atomic force microscope using multi-axis nanomanipulator in scanning electron microscope.. **2022**,	
496	Review of additive electrochemical micro-manufacturing technology. **2022**, 173, 103848	2
495	Ageing studies of Multi-Strip Multi-Gap Resistive Plate Counters based on low resistivity glass electrodes in high irradiation dose. **2022**, 1024, 166122	0
494	Decoupling competing electromechanical mechanisms in dynamic atomic force microscopy. **2022**, 159, 104758	0
493	Automated tip functionalization via machine learning in scanning probe microscopy. **2022**, 273, 108258	4

492	Effect of Hydrofluoric Acid Surface Treatments on Surface Roughness and Three-Point Flexural Strength of Suprinity Ceramic. **2020**, 17, 1-7	1
491	New Sensing Technologies: Biosensor Based on Magnetic Nanoparticles and Magnetic Force Microscopy. **2021**,	
490	Redistributing Controller Orders to Increase Positioning Bandwidth in Nanopositioners. **2021**, 54, 97-102	
489	Imaging from anatomic to molecular and atomic resolution scales: A review. **2021**, 20, 266-274	1
488	Topographical changes in high-protein, milk powders as a function of moisture sorption using amplitude-modulation atomic force microscopy. **2022**, 127, 107504	0
487	Spatial distribution of single guest molecules along thickness of thin films of poly(2-hydroxyethyl acrylate).. **2022**, 21, 175	1
486	Fluorescence Record Diagnostics of 3D Rough-Surface Landscapes With Nano-Scale Inhomogeneities. **2022**, 9,	0
485	Evaluation of sensors. **2022**, 283-291	
484	Optoelectronic Angular Displacement Measurement Technology for 2-Dimensional Mirror Galvanometer.. **2022**, 22,	0
483	Biosensing, Characterization of Biosensors, and Improved Drug Delivery Approaches Using Atomic Force Microscopy: A Review. **2022**, 3,	0
482	Nanoscale cutting using self-excited microcantilever.. **2022**, 12, 618	0
481	Theoretical and Experimental Study of the Phase Optimization of Tapping Mode Atomic Force Microscope.	
480	Applications of Atomic Force Microscopy in Corrosion Research. **2022**, 187-201	
479	Q Control of an AFM Microcantilever with Double-Stack AlN Sensors and Actuators. **2022**, 1-1	2
478	Nanoscale friction and wear of a polymer coated with graphene.. **2022**, 13, 63-73	
477	Magnetic Domain Structure of Galfenol at Elevated Temperatures. **2022**, 1-1	
476	Full Width at Half Maximum of Nanopore Current Blockage Controlled by a Single-Biomolecule Interface.. **2022**,	1
475	Nanoscale characterization methods in plant disease management. **2022**, 149-177	

474	Development of an improved mathematical model for the dynamic response of a sphere located at a viscoelastic medium interface. **2022**, 43, 025002	0
473	Nonlinear atomic force microscopy: Squeezing and skewness of micromechanical oscillators interacting with a surface. **2022**, 105,	0
472	Studying the Rhodopsin-Like G Protein Coupled Receptors by Atomic Force Microscopy.. **2022**,	
471	Fabrication of Nanoscale Active Plasmonic Elements Using Atomic Force Microscope Tip-Based Nanomachining. 1	0
470	Metal-nanocluster science and technology: my personal history and outlook.. **2022**,	2
469	Characterization of bituminite in Kimmeridge Clay by confocal laser scanning and atomic force microscopy. **2022**, 251, 103927	0
468	Dielectric Manipulated Charge Dynamics in Contact Electrification.. **2022**, 2022, 9862980	0
467	MEMS-Based Platforms for Multi-Physical Characterization of Nanomaterials: A Review. **2022**, 22, 1827-1841	1
466	On-machine measurement with an electrochemical jet machine tool. **2022**, 174, 103859	2
465	Adaptive AFM imaging based on object detection using compressive sensing.. **2022**, 154, 103197	1
464	Showing differences in viscoelastic properties of cells growing on micropattern by using very long-time high speed microrheology as a new way to measure cell mechanics. **2022**,	
463	Virus morphology: Insights from super-resolution fluorescence microscopy.. **2022**, 166347	0
462	Nanomechanics Using Atomic Force Microscopy and Its Practical Examples. **2022**, 78, 83-89	
461	Experimental Analysis of Tip Vibrations at Higher Eigenmodes of QPlus Sensors for Atomic Force Microscopy.. **2021**,	0
460	Revealing local molecular distribution, orientation, phase separation, and formation of domains in artificial lipid layers: Towards comprehensive characterization of biological membranes.. **2022**, 301, 102614	2
459	Optimization of Measurement of the Interaction Force Vector in Atomic Force Microscopy. **2021**, 66, 835	1
458	Simulation and experimental analysis of tip response of tapping mode atomic force microscope. **2022**, 40, 50-56	0
457	Visualizing Nanobio-Interfaces by In-Liquid Frequency Modulation Atomic Force Microscopy. **2022**, 65, 72-77	

456 Revealing Layer-Specific Ultrastructure and Nanomechanics of Fibrillar Collagen in Human Aorta via Atomic Force Microscopy Testing: Implications on Tissue Mechanics at Macroscopic Scale. 2100159 3

455 Fractional Viscoelastic Modeling Enabling Accurate Atomic Force Microscope Contact Resonance Spectroscopy Characterization. **2022**, 33-37

454 Force measurement of plant cell utilizing atomic force microscopy. **2021**, 33, 41-45

453 Electrostatically-blind quantitative piezoresponse force microscopy free of distributed-force artifacts. 1

452 Atomic force microscopy study on the effect of different irrigation regimens on the surface roughness of human root canal dentin.. **2022**, 25, 261-266

451 Chemical bond imaging using torsional and flexural higher eigenmodes of qPlus sensors.. **2022**, 0

450 Morphological Characterization of Bio-nanocomposites. **2022**, 1-29

449 Nanoscale characterization of cementitious composites. **2022**, 375-406

448 Investigations on sub-structures within cavities of surface imprinted polymers using AFM and PF-QNM.. **2022**, 3

447 A Comparative Study of Cellulose Nanocomposite Derived from Algae and Bacteria and Its Applications. **2022**, 151-187

446 Atomic Force Acoustics Microscope. **2022**, 49-58

445 Synthesis and applications of carbon nanomaterials-based sensors. **2022**, 451-476

444 Atomic force microscopy applied to interrogate nanoscale cellular chemistry and supramolecular bond dynamics for biomedical applications.. **2022**, 1

443 Characterization, performance evaluation and lifetime analysis of thermoset resin. **2022**, 503-582

442 Assessing Collagen D-Band Periodicity with Atomic Force Microscopy.. **2022**, 15, 0

441 Amide Compounds as Corrosion Inhibitors for Carbon Steel in Acidic Environment. 1 0

440 Correlative AFM and Scanning Microlens Microscopy for Time-Efficient Multiscale Imaging.. **2022**, e2103902 0

439 Changes in nanomechanical properties of single neuroblastoma cells as a model for oxygen and glucose deprivation (OGD).

438	Automated measurement and analysis of sidewall roughness using three-dimensional atomic force microscopy.. **2022**, 52, 1	
437	VULCANIZATION FOR REINFORCEMENT OF RUBBER. **2022**,	0
436	Applications of Atomic Force Microscopy in HIV-1 Research.. **2022**, 14,	1
435	Depth estimation from a single CD-SEM image using domain adaptation with multimodal data. **2022**,	
434	A critical review of marine biofilms on metallic materials. **2022**, 6,	4
433	Atomic Force Microscopy (AFM) Applications in Arrhythmogenic Cardiomyopathy.. **2022**, 23,	2
432	Atomic Force Microscopy (AFM) on Biopolymers and Hydrogels for Biotechnological Applications-Possibilities and Limits.. **2022**, 14,	7
431	Atomic force microscopy: A nanobiotechnology for cellular research. **2022**, 9130004	0
430	Nanomechanical Study of Enzyme: Coenzyme Complexes: Bipartite Sites in Plastidic Ferredoxin-NADP Reductase for the Interaction with NADP.. **2022**, 11,	2
429	Structured Water Molecules on Membrane Proteins Resolved by Atomic Force Microscopy.. **2022**,	1
428	Atomic Force Microscopy for Tumor Research at Cell and Molecule Levels.. **2022**, 1-18	0
427	Investigation of Red Blood Cells by Atomic Force Microscopy.. **2022**, 22,	1
426	Time-resolved photo-assisted Kelvin probe force microscopy on Cu(In,Ga)Se2 solar cells.	
425	Analytical Characterisation of Material Corrosion by Biofilms. **2022**, 8, 1	1
424	Speeding up the Topography Imaging of Atomic Force Microscopy by Convolutional Neural Network.. **2022**, 94, 5041-5047	
423	Determination of an unknown shear force in cantilever Kirchho□ove plate from measured □al data with application to Atomic Force Microscope.	
422	Investigation of Structural and Thermal Properties of Graphene Oxide Reinforced Epoxy Nanocomposites.	
421	CENP-B-mediated DNA loops regulate activity and stability of human centromeres.. **2022**,	0

420	Binary-state scanning probe microscopy for parallel imaging.. **2022**, 13, 1438	0
419	Peak-tracking scanning capacitance force microscopy with multibias modulation technique. **2022**, 33, 065405	1
418	Bioleaching of Chalcopyrite Waste Rock in the Presence of the Copper Solvent Extractant LIX984N.. **2022**, 13, 820052	
417	Quantitative capacitance measurements in frequency modulation electrostatic force microscopy.	1
416	Very-high-frequency probes for atomic force microscopy with silicon optomechanics.. **2022**, 8, 32	0
415	Applications of Environmental Nanotechnologies in Remediation, Wastewater Treatment, Drinking Water Treatment, and Agriculture. **2022**, 3, 54-90	1
414	A qPlus-based scanning probe microscope compatible with optical measurements.. **2022**, 93, 043701	
413	Bonding character of intermediates in on-surface Ullmann reactions revealed with energy decomposition analysis.. **2022**,	
412	Atomic force spectroscopy is a promising tool to study contractile properties of cardiac cells.. **2021**, 103199	
411	Scanning force sensing at micrometer distances from a conductive surface with nanospheres in an optical lattice.. **2022**, 61, 3486-3493	3
410	Principle, implementation, and applications of charge control for piezo-actuated nanopositioners: A comprehensive review. **2022**, 171, 108885	3
409	Simultaneous tip force and displacement sensing for AFM cantilevers with on-chip actuation: Design and characterization for off-resonance tapping mode. **2022**, 338, 113496	
408	Decoupled tracking and damping control of piezo-actuated nanopositioner enabled by multimode charge sensing. **2022**, 173, 109046	
407	High performance raster scanning of atomic force microscopy using Model-free Repetitive Control. **2022**, 173, 109027	0
406	Periodic solutions of a tapping mode cantilever in an Atomic Force Microscope with harmonic excitation. **2022**, 110, 106396	
405	The role of microplastics in microalgae cells aggregation: A study at the molecular scale using atomic force microscopy.. **2022**, 832, 155036	0
404	Design and Implementation of Multi-mode Scanning Atomic Force Microscope. **2021**,	
403	Atomic Force Microscopy of Biopolymers on Graphite Surfaces. **2021**, 63, 601-622	1

402	Visualizing intracellular nanostructures of living cells by nanoendoscopy-AFM.. **2021**, 7, eabj4990	2
401	The Structural Characteristics of Cell Membrane Defined by Atomic Force Microscopy. 1-16	
400	Combined High-Speed Atomic Force and Optical Microscopy Shows That Viscoelastic Properties of Melanoma Cancer Cells Change during the Cell Cycle. 2101000	1
399	True 3D Nanometrology: 3D-Probing with a Cantilever-Based Sensor.. **2021**, 22,	0
398	Vibrational behavior of atomic force microscope beam via different polymers and immersion environments. **2022**, 137, 1	
397	Resolving surface potential variation in Ge/MoS2 heterostructures with Kelvin probe force microscopy. **2021**, 11, 125105	0
396	Characterisation and Interpretation of On-Surface Chemical Reactions Studied by Ultra-High-Resolution Scanning Probe Microscopy. **2022**, 9-42	
395	Lattice Strain and Defects Analysis in Nanostructured Semiconductor Materials and Devices by High-Resolution X-Ray Diffraction: Theoretical and Practical Aspects.. **2021**, e2100932	3
394	Breakthrough instruments and products: DriveAFM for high-performance atomic force microscopy.. **2021**, 92, 129503	2
393	AFM characterization of surface mechanical and electrical properties of some common rocks. **2021**,	2
392	Flexoelectric control of physical properties by atomic force microscopy. **2021**, 8, 041327	7
391	AFM Nanotribomechanical Characterization of Thin Films for MEMS Applications.. **2021**, 13,	0
390	Two-Dimensional Supramolecular Chemistry on Surfaces. **2022**, 1-8	
389	New methods for measuring of surface landscape. **2021**,	
388	Balancing of Coupled Piezoelectric NEMS Resonators. **2021**, 7,	
387	ReviewMultiscale Characterization of Li-Ion Batteries through the Combined Use of Atomic Force Microscopy and X-ray Microscopy and Considerations for a Correlative Analysis of the Reviewed Data. **2021**, 168, 126522	2
386	An integrated optical waveguide micro-cantilever system for chip-based AFM. **2021**,	
385	Iterative Learning Controller with Learning Gain Optimization and Online Data Adjustment for Atomic Force Microscope. **2020**,	

384 Microgels react to force: mechanical properties, syntheses, and force-activated functions.. **2022**, 1

383 Cell□matrix interactions, force transmission, and mechanosensation. **2022**, 129-147

382 Atomic Force Microscopy for Structural and Biophysical Investigations on Nuclear Pore Complexes.. **2022**, 2502, 299-310

381 Towards High Accuracy Surface Profile Characterization in Atomic Force Microscopy. **2022**, 277-284

380 Practical considerations for feature assignment in high-speed AFM of live cell membranes. **2022**, 0

379 Experimental Methods in Chemical Engineering: Atomic force microscopy□AFM.

378 Magnetic Force Microscopy in Physics and Biomedical Applications. **2022**, 8, 42 2

377 Molecular Recognition of Proteins through Quantitative Force Maps at Single Molecule Level.. **2022**, 12, 2

376 Applications and Techniques for Fast Machine Learning in Science.. **2022**, 5, 787421 0

375 Complementary Powerful Techniques for Investigating the Interactions of Proteins with Porous TiO and Its Hybrid Materials: A Tutorial Review.. **2022**, 12,

374 Cocktail of REGN Antibodies Binds More Strongly to SARS-CoV-2 Than Its Components, but the Omicron Variant Reduces Its Neutralizing Ability.. **2022**, 0

373 Direct investigations of the electrical conductivity of normal and cancer breast cells by conductive atomic force microscopy.. **2022**, 237, 113531 0

372 Image_1.PDF. **2018**,

371 Table_1.docx. **2019**,

370 Image_1.TIFF. **2018**,

369 Table_1.pdf. **2018**,

368 Scanning probe microscopy of epitaxial oxide thin films. **2022**, 331-367

367 Microtubule Preparation for Investigation with High-Speed Atomic Force Microscopy.. **2022**, 2430, 337-347

366	Characterisation of an AFM Tip Bluntness Using Indentation of Soft Materials. **2022**, 221-242	0
365	Dynamic Behavior of Rectangular Atomic Force Microscope Cantilever by Supposing Diverse Polymeric Specimens and Immersion Media. 1	
364	Mechanical energy dissipation of an oscillating cantilever close to a conductive substrate partly covered with thin mica films evaluated by frequency modulation atomic force microscopy.	
363	Mapping DNA Molecules at the Single-Molecule Level. **2022**, 95-124	
362	Atomic Force Microscopy and Detecting a DNA Biomarker of a Few Copies without Amplification. **2022**, 111-124	
361	Measuring (biological) materials mechanics with atomic force microscopy. 3. Mechanical unfolding of biopolymers.. **2022**,	
360	Micromanipulation and Automatic Data Analysis to Determine the Mechanical Strength of Microparticles. **2022**, 13, 751	2
359	Surface and mechanical characterization of bionanocomposites for advanced applications: A review. 146442072210969	
358	Determination of Multidirectional Pathways for Ligand Release from the Receptor: A New Approach Based on Differential Evolution.. **2022**,	0
357	Super-Resolution Microscopy and Molecular Imaging Techniques to Probe Biology. **2022**, 1-64	
356	Introduction on Single-Molecule Science. **2022**, 3-19	
355	AFM Characterization of Halloysite Clay Nanocomposites Superficial Properties: Current State-of-the-Art and Perspectives. **2022**, 15, 3441	0
354	Adaptive semi-empirical model for non-contact atomic force microscopy.	
353	Correlative imaging to resolve molecular structures in individual cells: Substrate validation study for super-resolution infrared microspectroscopy.. **2022**, 102563	0
352	Microscopic wettability of medium rank coals involved pore features and functional groups. **2022**,	
351	Review on the applications of atomic force microscopy imaging in proteins. **2022**, 103293	0
350	Stability and contrast in bimodal amplitude modulation atomic force microscopy for different mode combinations in ambient air. **2022**, 12, 055321	
349	Determination of retained austenite in multiphase steels by magnetic force microscopy. **2022**, 97, 1158-1162	1

348 Adhesion of Living Cells: Mechanisms of Adhesion and Contact Models. **2022**, 1-30 1

347 AFM Tip Localization and Efficient Scanning Method for MEMS Inspection. **2022**, 1-1 1

346 Enhancing sensitivity in atomic force microscopy for planar tip-on-chip probes.. **2022**, 8, 51

345 Nanomechanical Characterization of Bacterial Polyhydroxyalkanoates Using Atomic Force Microscopy. **2022**, 12, 4994

344 Fluid□lock interactions and its implications on EOR: Critical analysis, experimental techniques and knowledge gaps. **2022**, 8, 6355-6395 3

343 Ana lisis de membranas polime ricas compuestas por Microscopi a de Fuerza Ato mica. **2018**, 1, 18-26

342 Optimizing the Formulation of Poorly Water-Soluble Drugs. **2022**, 33-102

341 Will Polycrystalline Platinum Tip Sliding on a Gold(111) Surface Produce Regular Stick□lip Friction?. 1

340 Atomic resolution with high-eigenmode tapping mode atomic force microscopy. **2022**, 4,

339 Role of Actin-binding Proteins in the Regulation of Cellular Mechanics. **2022**, 151241 0

338 Tribology at the Atomic Scale with Density Functional Theory. 0

337 Extraction algorithm for longitudinal and transverse mechanical information of AFM. **2022**, 5, 023004

336 Novel Paradigm in Afm Probe Fabrication: Broadened Range of Stiffness, Materials, and Tip Shapes.

335 ??????????????????. **2022**,

334 Physicochemical and Biological Evaluation of Chitosan-Coated Magnesium-Doped Hydroxyapatite Composite Layers Obtained by Vacuum Deposition. **2022**, 12, 702 2

333 Magnification in Periodontics: An Overview.

332 Characterisation of enzyme catalysed hydrolysation stage of poly(lactic acid) fibre surface by nanoscale thermal analysis: New mechanistic insight. **2022**, 110810

331 A three million Q factor tuning fork resonator based on a vibration isolation structure. **2022**, 12, 065203

330	Modern testing and analyzing techniques in corrosion. **2022**, 429-450	
329	Introduction. **2022**, 1-22	
328	Nano-materials in biochemical analysis. **2022**, 255-284	
327	Introduction to Nanomedicine. **2022**, 1-14	
326	Understanding the fundamentals of TiO2 surfaces. Part I. The influence of defect states on the correlation between crystallographic structure, electronic structure and physical properties of single-crystal surfaces. **2022**, 38, 91-149	3
325	Imaging technology that enables simultaneous visualization of weak interaction interfaces and cell responses. **2022**, 37, 102-111	
324	Real-time Tracking of Living Cell Proliferation with Nano Mechanical Biomarkers. **2022**,	
323	On AFM Measurements of the Interaction Force Vector by Means of Interferometry, Optical Lever, and the Piezoresistive Method. **2022**, 16, 247-253	1
322	Anisotropic mechanics of two-dimensional materials.	0
321	miR -218 affects the ECM composition and cell biomechanical properties of glioblastoma cells.	
320	Atomic Force Microscope in Forensic Examination.	
319	Extending applications of AFM to fluidic AFM in single living cell studies.	1
318	Counting Gold: Using Atomic Force Microscopy to Characterize Gold Nanoparticles.	
317	Development of Defocus Atomic Force Microscope (DeF-AFM). 1-8	
316	Functionalized Nanocomposites as Corrosion Inhibitors. 141-154	
315	Zwitterionic Conducting Polymers: From Molecular Design, Surface Modification, and Interfacial Phenomenon to Biomedical Applications. **2022**, 38, 7383-7399	1
314	Atomic force microscopy in energetic materials research: A review. **2022**,	1
313	Measuring (biological) materials mechanics with atomic force microscopy. 4. Determination of viscoelastic cell properties from stress relaxation experiments.	1

312	In-situ imaging techniques for advanced battery development. **2022**,	1
311	Wax in Asphalt: A comprehensive literature review. **2022**, 342, 128011	0
310	Nanoscale quantitative characterization of microstructure evolution of partly graphitized high rank coal: Evidence from AFM and HRTEM. **2022**, 324, 124802	1
309	Toughness and its mechanisms in epoxy resins. **2022**, 130, 100977	7
308	Exploring the Microcosm at Atomic Precision Using Atomic Force Microscopy. **2022**, 137-164	
307	Atomic Force Microscopy: An Advanced Imaging Technique From Molecules to Morphologies. **2022**, 115-136	
306	Atomic force microscopy probing interactions and microstructures of ionic liquids at solid interfaces.	0
305	Scanning Probe Microscopy: Tipping the Path Toward Atomic Visions. **2022**, 83-113	
304	Nanotechnology and Nanomedicine. **2022**, 325-361	1
303	Novel Paradigm in Afm Probe Fabrication: Broadened Range of Stiffness, Materials, and Tip Shapes.	
302	A fast localization method for discrete interface based on phase information of complex master-slave OCT. **2022**,	
301	A Beginner's Guide to Different Types of Microscopes. **2022**, 1-23	
300	Atomic Force Microscope with an Adjustable Probe Direction and Integrated Sensing and Actuation. **2022**, 5, 139-148	
299	Effects of aging on rheological, chemical, and micromechanical properties of waterborne epoxy resin modified bitumen emulsion. 1-12	1
298	Extracellular Matrix Stiffness in Lung Health and Disease. 3523-3558	0
297	Approaches to visualize microtubule dynamics in vitro. **2022**, 1, 1-16	
296	Construction of a vector-field cryogenic magnetic force microscope. **2022**, 93, 063701	0
295	Antibody–nanobody combination increases their neutralizing activity against SARS-CoV-2 and nanobody H11-H4 is effective against Alpha, Kappa and Delta variants. **2022**, 12,	1

294	Foreword to the special issue on different approaches to force spectroscopy in the research of cell pathologies. **2022**, 103325	
293	Application of Atomic Force Microscopy as Advanced Asphalt Testing Technology: A Comprehensive Review. **2022**, 14, 2851	1
292	Molecule graph reconstruction from atomic force microscope images with machine learning.	
291	Seeing how ice breaks the rule. **2022**, 377, 264-265	0
290	An Update on Sophisticated and Advanced Analytical Tools for Surface Characterization of Nanoparticles. **2022**, 102165	0
289	An Inquiry-Based Introduction to Atomic Force Microscopy Techniques through Optical Storage Disc Surface Imaging.	0
288	Hidden Markov Modeling of Molecular Orientations and Structures from High-Speed Atomic Force Microscopy Time-Series Images.	
287	Depth estimation from a single SEM image using pixel-wise fine-tuning with multimodal data. **2022**, 33,	0
286	High resolution atomic force microscopy with an active piezoelectric microcantilever. **2022**, 93, 073706	
285	Protein aggregation rate depends on mechanical stability of fibrillar structure .	1
284	Nanoscale physical parameters of source rocks identified by atomic force microscopy: A review.	
283	Combining AFM, XPS and chemical hydrolysis to understand the complexity and dynamics of C. vulgaris cell wall composition and architecture.	0
282	Optimized Phase-Retrieval Technique for Coherent Diffractive Microscopy: Guided Ptychography Iterative Engine. **2022**, 14, 1-4	
281	Molecular area dependences of monolayers at the air/water interface. **2022**, 7, 100057	0
280	Nano-scale studies of quantum phenomena by scanning probe spectroscopy. **2000**, 512, 895-904	
279	Imaging of atomic orbitals with the Atomic Force Microscope experiments and simulations. **2001**, 513, 887-910	0
278	Foreword to the special issue on different approaches to force spectroscopy in the research of cell pathologies. **2022**, 103329	
277	A Comprehensive Review for Micro/Nanoscale Thermal Mapping Technology Based on Scanning Thermal Microscopy. **2022**, 31, 976-1007	1

276 Comparative Study of Deep Learning Algorithms for Atomic Force Microscopy Image Denoising. **2022**, 103332

275 Tools shaping drug discovery and development. **2022**, 3, 031301 0

274 Open-source controller for low-cost and high-speed atomic force microscopy imaging of skin corneocyte nanotextures. **2022**, 12, e00341 0

273 List of Tables. **2007**, xxi-xxii

272 . **2007**, 373-376

271 List of Figures. **2007**, xv-xx

270 MONOGRAPHS ON THE PHYSICS AND CHEMISTRY OF MATERIALS. **2007**, ii-ii

269 . **2007**, 377-380

268 Preface to the First Edition. **2007**, xxvii-xxxii

267 Copyright Page. **2007**, iv-iv

266 Gallery. **2007**, xxxiii-lxiv

265 . **2007**, 389-400

264 . **2007**, 381-388

263 Preface to the Second Edition. **2007**, xxiii-xxvi

262 . **2007**, 371-372

261 Dedication. **2007**, v-vi

260 Biological Characterization of Magnetic Hybrid Nanoalloys. **2022**, 1-18

259 The Evolution of Scanning Ion Conductance Microscopy. **2022**,

258	Electrostatic Actuation of AFM Cantilevers in Aqueous Solutions. **2022**,	
257	Microelectronic materials, microfabrication processes, micromechanical structural configuration based stiffness evaluation in MEMS: A review. **2022**, 263, 111854	0
256	A Comprehensive Categorization of Micro/Nanomechanical Resonators and Their Practical Applications from an Engineering Perspective: A Review. 2200229	1
255	Probing the interfacial forces and surface interaction mechanisms in petroleum production processes. **2022**,	0
254	Locating critical events in AFM force measurements by means of one-dimensional convolutional neural networks. **2022**, 12,	0
253	Direct measurement of surface photovoltage by AC bias Kelvin probe force microscopy. 13, 712-720	1
252	Understanding the Feedback Circuit in an Atomic Force Microscope. **2022**, 31, 99-102	
251	Statistical mechanics of rate-independent stick-slip on a corrugated surface composed of parabolic wells. **2022**, 34, 1343-1372	0
250	Single-Molecule Tunneling Sensors for Nitrobenzene Explosives.	3
249	Applications of Spectroscopic Techniques for Characterization of Polymer Nanocomposite: A Review.	0
248	In Situ Visualization of Electrochemical Processes in Solid-State Lithium Batteries. 2988-3002	3
247	Opportunities and limits in imaging microorganisms and their activities in soil microhabitats. **2022**, 108807	1
246	Optimising correlative super resolution and atomic force microscopies for investigating the cellular cytoskeleton. **2022**, 10, 045005	0
245	Thin head atomic force microscope for integration with optical microscope. **2022**, 93, 083702	0
244	Prospects and Challenges of AI and Neural Network Algorithms in MEMS Microcantilever Biosensors. **2022**, 10, 1658	1
243	Robust Tipless Positioning Device for Near-Field Investigations: Press and Roll Scan (PROscan). **2022**, 16, 12831-12839	
242	Applicability of atomic force microscopy to determine cancer-related changes in cells. **2022**, 380,	0
241	Advanced Atomic Force Microscopies and their Applications in Two-Dimensional Materials: A Review.	0

240	Evidence for temporary and local transition of sp2 graphite-type to sp3 diamond-type bonding induced by the tip of an atomic force microscope. **2022**, 24, 083018	0
239	Emerging machine learning strategies for diminishing measurement uncertainty in SPM nanometrology.	
238	Nanoscale tribological aspects of chemical mechanical polishing: A review. **2022**, 11, 100286	0
237	Interpretable Machine Learning Approach for Identifying the Tip Sharpness in Atomic Force Microscopy. **2022**, 221, 114965	
236	Gold nanomaterials The golden approach from synthesis to applications. **2022**,	0
235	Sub-5 nm AFM Tip Characterizer Based on Multilayer Deposition Technology. **2022**, 9, 665	0
234	A systematic and critical review of asphaltene adsorption from macroscopic to microscopic scale: Theoretical, experimental, statistical, intelligent, and molecular dynamics simulation approaches. **2022**, 329, 125379	0
233	A transversal approach to predict surface charge compensation in piezoelectric force microscopy. **2023**, 607, 154991	1
232	Progress of functionalized atomic force microscopy in the study of the properties of nanometric dielectric materials. **2022**, 0	0
231	Identifying and manipulating single atoms with scanning transmission electron microscopy.	0
230	Characterisation Techniques. **2022**, 49-79	0
229	In situ characterization of lithium-metal anodes. **2022**, 10, 17917-17947	2
228	Crystal habit analysis of LiFePO4 microparticles by AFM and first-principles calculations.	0
227	Introduction and overview. **2022**, 3-24	0
226	Benchmarking in electrocatalysis. **2022**,	0
225	Multimodal imaging using combined Optical Fourier Ptychographic Microscopy and Atomic Force Microscopy for biological measures. **2022**,	0
224	Imaging of Extracellular Vesicles Derived from Plasmodium falciparum Infected Red Blood Cells Using Atomic Force Microscopy. **2022**, 133-145	1
223	High-Speed Atomic Force Microscopy Visualization of Protein-DNA Interactions Using DNA Origami Frames. **2022**, 157-167	0

222	Numerical simulation of deformability cytometry: Transport of a biological cell through a microfluidic channel. **2022**, 33-56	0
221	Scanning Ion Conductance Microscopy and Atomic Force Microscopy: A Comparison of Strengths and Limitations for Biological Investigations. **2022**, 23-71	0
220	Biomechanics Approaches for Cancer Detection: Cell Adhesion and Cell Mechanics. **2022**,	0
219	Force Curves Restoration in Atomic Force Microscopy (AFM) Resonant Modes*. **2022**,	0
218	An introduction. **2023**, 3-11	0
217	Advances in food material nanomechanics by means of atomic force microscopy. **2023**, 263-306	0
216	Current and potential combination of atomic force microscopy with other techniques for food science. **2023**, 307-361	0
215	Atomic force microscopy: from theory to application in food science. **2023**, 15-43	0
214	Application of atomic force microscopy for food foams and emulsions. **2023**, 189-232	0
213	Quantifying of Quantum Correlations in an Optomechanical System with Cross-Kerr Interaction. **2022**, 43, 406-415	0
212	From atomically resolved imaging to generative and causal models. **2022**, 18, 1152-1160	0
211	A Beginner's Guide to the Characterization of Hydrogel Microarchitecture for Cellular Applications. **2022**, 8, 535	3
210	Design and implementation of sequential excitation module for high fidelity piezoresponse force microscopy. **2022**, 93, 083707	1
209	[illegible] **2022** , 2, 1-18	0
208	Measurement Precision of a Planar Nanopositioning Machine with a Range of Motion of 100 mm. **2022**, 12, 7843	0
207	Targeting cell-matrix interface mechanobiology by integrating AFM with fluorescence microscopy. **2022**,	0
206	Tracking the Interaction between a CO-Functionalized Probe and Two Ag-Phthalocyanine Conformers by Local Vertical Force Spectroscopy. **2022**, 126, 6890-6897	0
205	Comparing the performance of single and multifrequency Kelvin probe force microscopy techniques in air and water. 13, 922-943	1

204	Extraction of Chemical Reactivity and Structural Relaxations of an Organic Dye from the Short-Range Interaction with a Molecular Probe. **2022**, 13, 8660-8665	2
203	Changes in nanomechanical properties of single neuroblastoma cells as a model for oxygen and glucose deprivation (OGD). **2022**, 12,	0
202	Bayesian Active Learning for Scanning Probe Microscopy: From Gaussian Processes to Hypothesis Learning. **2022**, 16, 13492-13512	0
201	Intercalation Leads to Inverse Layer Dependence of Friction on Chemically Doped MoS2.	1
200	Advances in Atomic Force Microscopy for the Electromechanical Characterization of Piezoelectric and Ferroelectric Nanomaterials. **2022**, 60, 629-643	0
199	Molecular dynamics analysis of friction-triggering process with spherical probe. **2022**, 10, 035040	0
198	Self-folding magnetic TiNi Bi-metallic micro-origami.	0
197	Force-Detected Magnetic Resonance Imaging of Influenza Viruses in the Overcoupled Sensor Regime. **2022**, 18,	0
196	Unraveling the Role of Defects in Electrocatalysts for Water Splitting: Recent Advances and Perspectives. **2022**, 36, 11660-11690	1
195	Mechanical characterization of piezoelectric materials: A perspective on deformation behavior across different microstructural length scales. **2022**, 132, 121103	2
194	End-to-End Differentiable Blind Tip Reconstruction for Noisy Atomic Force Microscopy Images.	1
193	Scanning probe microscope probe switching unit with electrical measurement for in situ multifunctional characterization: Design and preliminary application in tribocorrosion investigation. **2022**, 132, 105303	0
192	Advances in assembled micro- and nanoscale mechanical contact probes. 8,	0
191	Structural Peculiarities of Mechanically Deformed HeLa Nuclei Observed by Atomic-Force Microscopy. **2022**, 16, 854-859	0
190	AFM advanced modes for dental and biomedical applications. **2022**, 136, 105475	1
189	Biological Characterization of Magnetic Hybrid Nanoalloys. **2022**, 861-878	0
188	Direct visualization of cooperative adsorption of a string-like molecule onto a solid. **2022**, 8,	2
187	Polarization suppresses local photocurrent in triple-cation mixed-halide perovskite. **2022**, 132, 144102	0

186	Principles and Applications of Liquid-Environment Atomic Force Microscopy. 2201864	0
185	Visualization of G-Quadruplexes, i-Motifs and Their Associates. **2022**, 14, 4-18	0
184	Toward Unifying the Mechanistic Concepts in Electrochemical CO 2 Reduction from an Integrated Material Design and Catalytic Perspective. 2209023	2
183	High-Resolution Atomic Force Microscopy Imaging of RNA Molecules in Solution. **2023**, 133-145	0
182	True Atomic-Resolution Surface Imaging and Manipulation under Ambient Conditions via Conductive Atomic Force Microscopy.	0
181	Geomorphometric modeling of nanotopography using data from atomic force microscopy.	0
180	Atomic force microscopy (AFM) and its applications to bone-related research. **2022**,	0
179	Surface Characterization Techniques: A Systematic Review of their Principles, Applications, and Perspectives in Corrosion Studies.	0
178	Structure and Dynamics of dsDNA in Cell-like Environments. **2022**, 24, 1587	0
177	The Role of Machine Learning in Tribology: A Systematic Review.	0
176	Three-dimensional optical coherence digital-null deformography of multi-refractive-surface optics with nanometer sensitivity. **2022**, 30, 42069	0
175	Coacervation of biopolymers on muscovite surface. 2,	0
174	Photo-induced force microscopy applied to electronic devices and biosensors. **2022**,	0
173	Gain and noise spectral density in a parametric amplifier with added white noise: Theory and experiment. **2022**, 132, 174902	0
172	Surface-enhanced Raman scattering for biosensing platforms: a review. 1-13	0
171	Preparation and characterization of conductive diamond for a scanning tunneling microscope tip. **2022**, 130, 109473	0
170	Grazing incidence neutron scattering for the study of solid□quid interfaces. **2023**,	0
169	Characterization and RST control of a nonlinear piezoelectric actuator for a robotic hand. **2022**, 55, 375-380	1

168	A high-throughput microfluidic device inspired by the Wheatstone bridge principle for characterizing the mechanical properties of single cells.	0
167	Urinary exosomes: Diagnostic impact with a bioinformatic approach. **2022**,	0
166	Non-contact base excited AFM: Modeling and simulation. **2022**,	0
165	Perspectives on weak interactions in complex materials at different length scales.	0
164	Fabrication of high aspect ratio atomic force microscope probes using focused ion beam milled etch mask. **2023**, 267-268, 111909	0
163	Influence of Imaging Parameters on AFM Surface Potential Measurements in Aqueous Solutions. **2022**,	1
162	Discrete-time Implementation of Adaptive Estimation in the Transverse Dynamic Force Microscope. **2022**,	0
161	Chaos prediction in trolling mode atomic force microscopy: analytical approach.	0
160	Microsensor for Cancer Detection and MEMS Actuator for Cancer Therapy.	0
159	A DNA origami fiducial for accurate 3D AFM imaging.	0
158	In Situ Kinetic Observations on Crystal Nucleation and Growth.	8
157	Atomic-Scale Friction Study by EC-AFM: Underpotential Deposition (UPD) of Ag on I-Modified Au(111) and Its Tip Penetration.	0
156	Advances in the Fabrication and Characterization of Superhydrophobic Surfaces Inspired by the Lotus Leaf. **2022**, 7, 196	0
155	Tip-scan high-speed atomic force microscopy with a uniaxial substrate stretching device for studying dynamics of biomolecules under mechanical stress. **2022**, 93, 113703	0
154	Experimental Techniques. **2023**, 41-89	0
153	A 3D-printed Microcantilever Holder for Atomic Force Microscopes Using a Mounted Microcantilever.	0
152	Evaluation of dosimetric characteristics of a ternary nanocomposite based on High Density Polyethylene/Bismuth Oxide/Graphene Oxide for gamma-rays. **2022**, 12,	0
151	A Digital Observer-Based Repetitive Learning Composite Control Method for Large Range Piezo-Driven Nanopositioning Systems. **2022**, 10, 1092	0

150	Finite Element Analysis of Squeezed Film Damping on Trapezoidal Microcantilever Resonators at Different Pressure Levels. **2023**, 223-231	0
149	Microstructure study of YBa₂Cu₃O_{7-δ} thin film with Synchrotron-based Three-dimensional Reciprocal Space Mapping. **2023**, 0	0
148	Expression of Tumor Suppressors PTEN and TP53 in Isogenic Glioblastoma U-251MG Cells Affects Cellular Mechanical Properties—An AFM-Based Quantitative Investigation. **2013**, 1, 011002-011002	0
147	Half-wet nanomechanical sensors for cellular dynamics investigations. **2023**, 144, 213222	0
146	Nano-apertures vs. nano-barriers: Surface scanning through obstacles and super-resolution in AFM-NSOM dual-mode. **2023**, 33, 100933	0
145	Dahl hysteresis modeling and position control of piezoelectric digital manipulator. **2022**, 1-1	0
144	Combining Electrothermal Actuation with Piezoelectric Actuation and Sensing in a Dynamic Mode AFM Microcantilever. **2022**,	0
143	Atomic force and infrared spectroscopic studies on the role of surface charge for the anti-biofouling properties of polydopamine films.	0
142	Study on Gelatin Biomaterial for Embryonic Stem Cell Culture by Measuring Young's Modulus via Atomic Force Microscopy. **2022**, 31, 171-174	0
141	Visualizing Intramolecular Dynamics of Membrane Proteins. **2022**, 23, 14539	0
140	Cellulose Nanocrystals Examined by Atomic Force Microscopy: Applications and Fundamentals. **2022**, 2, 1789-1818	2
139	MEMS-Based Atomic Force Microscope: Nonlinear Dynamics Analysis and Its Control.	0
138	Nanomechanical insights into hydrophobic interactions of mineral surfaces in interfacial adsorption, aggregation and flotation processes. **2022**, 140642	0
137	Measurement Science and Technology starts its second century by looking back as well as forward. **2023**, 34, 020101	0
136	Structural Characterization of Defects in the Topological Insulator Bi2Se3 at the Picometer Scale.	0
135	Hepatoprotective Effect of Millettia dielsiana: In Vitro and In Silico Study. **2022**, 27, 8978	0
134	Single-Molecule Methods for Characterizing Different DNA Higher-Order Structures. **2022**,	0
133	Experimental and Numerical Analyses of a Novel Magnetostatic Force Sensor for Defect Inspection in Ferromagnetic Materials. **2022**, 8, 182	0

132	Correlating the Interfacial Polar-Phase Structure to the Local Chemistry in Ferroelectric Polymer Nanocomposites by Combined Scanning Probe Microscopy. **2023**, 15,	0
131	Thermal Treatment Impact on the Mechanical Properties of Mg3Si2O5(OH)4 Nanoscrolls. **2022**, 15, 9023	1
130	Effects of Vitamin E and D on the Stiffness of MCF-7.	0
129	Methods for Surface Imaging and Combined Structural and Chemical Surface Analysis: Atomic Force Microscopy. **2023**, 119-157	0
128	Frequency-dependent nanomechanical profiling for medical diagnosis. 13, 1483-1489	0
127	Dual-bias modulation heterodyne Kelvin probe force microscopy in FM mode. **2022**, 121, 241602	0
126	From Conventional to Microfluidic: Progress in Extracellular Vesicle Separation and Individual Characterization. 2202437	0
125	Methods for the Visualization of Multispecies Biofilms. **2023**, 35-78	0
124	The trend of structured light-induced force microscopy: a review.	0
123	The Effects of Cetuximab and Cisplatin Anti-Cancer Drugs on the Mechanical Properties of the Lung Cancerous Cells Using Atomic Force Microscope.	0
122	Study of the Structure and Elastic Properties of Ethylene-Propylene-Diene Elastomers by Atomic Force Microscopy.	0
121	A single-atom mechano-optical transducer for sensing sub-attonewton vector DC force. **2022**, 121, 254002	0
120	Review: Advanced Atomic Force Microscopy Modes for Biomedical Research. **2022**, 12, 1116	1
119	Correction of AFM data artifacts using a convolutional neural network trained with synthetically generated data. **2022**, 113666	0
118	Measurement of Nanometric Heights by Modal Decomposition. **2022**, 18,	0
117	AtomAI framework for deep learning analysis of image and spectroscopy data in electron and scanning probe microscopy. **2022**, 4, 1101-1112	2
116	Investigation of the Effects of Pulse-Atomic Force Nanolithography Parameters on 2.5D Nanostructures Morphology. **2022**, 12, 4421	0
115	Force Probe Molecular Dynamics Simulations. **2005**, 493-515	6

114	Measurement and Control System for Atomic Force Microscope Based on Quartz Tuning Fork Self-Induction Probe. **2023**, 14, 227	0
113	Mathematical model for adhesion between particles and rough walls with large RMS roughness. **2023**, 118239	0
112	Regulators, functions, and mechanotransduction pathways of matrix stiffness in hepatic disease. 14,	0
111	Determining Spatial Variability of Elastic Properties for Biological Samples Using AFM. **2023**, 14, 182	1
110	High-Precision Tribometer for Studies of Adhesive Contacts. **2023**, 23, 456	1
109	The Effects of Cetuximab and Cisplatin Anti-Cancer Drugs on the Mechanical Properties of the Lung Cancerous Cells Using Atomic Force Microscope.	0
108	3D structure of ring-shaped microtubule swarms revealed by high-speed atomic force microscopy.	0
107	The Effects of Cetuximab and Cisplatin Anti-Cancer Drugs on the Mechanical Properties of the Breast Cancerous Cells Using Atomic Force Microscope.	0
106	Beyond biology: alternative uses of cantilever-based technologies.	0
105	Introduction to Nanomedicine. **2023**, 3-16	0
104	Fabrication and Evaluation of YBa2Cu3O7-□Probe for Scanning Probe Microscopy. **2023**, 1-4	0
103	End-to-end differentiable blind tip reconstruction for noisy atomic force microscopy images. **2023**, 13,	0
102	Surface forces apparatus (SFA): instrumentation and current development. **2023**,	0
101	Electrochemical scanning probe microscopies for artificial photosynthesis.	0
100	Application of atomic force microscopy in conservative dentistry and endodontics - A short review. **2023**, 7, 160-162	0
99	Single-cell extracellular vesicle analysis by microfluidics and beyond. **2023**, 159, 116930	0
98	Optical trapping with holographically structured light for single-cell studies. **2023**, 4, 011302	0
97	Bimodal Atomic Force Microscopy in Liquid Environment for Nanotribology. **2022**, 73, 359-363	0

96	A Micro-Robotic Approach for The Correction of Angular Deviations in AFM Samples From Generic Topographic Data. **2022**,	0
95	Low-noise analysis and design for the sensing system of the nanomanipulation robot by AFM. **2022**,	0
94	Atomic Force Microscope Vertical Feedback Control Strategy for Semi-Automated Long-Range Probe Landing. **2022**,	0
93	An AFM Scanning Method with a Rotating Probe and an Adaptive Scanning Speed Strategy. **2022**,	0
92	Development of hidden Markov modeling method for molecular orientations and structure estimation from high-speed atomic force microscopy time-series images. **2022**, 18, e1010384	0
91	Recent Advances in In Situ/Operando Surface/Interface Characterization Techniques for the Study of Artificial Photosynthesis. **2023**, 11, 16	0
90	Phosphorylation alters the mechanical stiffness of a model fragment of the dystrophin homologue utrophin. **2022**, 102847	0
89	Position-Sensitive Measurements of a Single-Mode Laser Beam Spot Using the Dividing Plate Method. **2022**, 19, 765-783	0
88	High-Yield Characterization of Single Molecule Interactions with DeepTipTM Atomic Force Microscopy Probes. **2023**, 28, 226	0
87	Ana lisis de membranas polime ricas compuestas por Microscopi a de Fuerza Ato mica. **2018**, 1, 18-26	0
86	Quantifying stiffness and forces of tumor colonies and embryos using a magnetic microrobot. **2023**, 8,	1
85	Instruments. **2023**, 635-747	0
84	Temperature dependent model for the quasi-static stick-slip process on a soft substrate.	0
83	DNA Origami Nanostructure Detection and Yield Estimation Using Deep Learning.	0
82	Bioinspired chiral inorganic nanomaterials.	0
81	An overview of nanoscale device fabrication technology: Part I. **2023**, 193-214	0
80	Characterization of 2D transition metal dichalcogenides. **2023**, 97-139	0
79	Deciphering plausible role of DNA nanostructures in drug delivery. **2023**, 215-251	0

78	Circulating Tumor Cells in Cancer Diagnostics and Prognostics by Single-Molecule and Single-Cell Characterization.	2
77	Quantum tunneling nanoelectromechanical system devices for biomedical applications. **2023**, 215-241	0
76	Frequency response of cantilevered plates of small aspect ratio immersed in viscous fluids. **2023**, 133, 034501	0
75	Biobased Nanomaterials-The Role of Interfacial Interactions for Advanced Materials.	0
74	High□ow Kelvin probe force spectroscopy for measuring the interface state density. 14, 175-189	0
73	Siloxane Molecules: Nonlinear Elastic Behavior and Fracture Characteristics.	0
72	The Application of Scanning Microscopies to Optical Materials. **1990**,	0
71	The 3D structures of interfaces between solid electrodes and liquid electrolytes probed by atomic force measurements. **2023**,	0
70	Atomic force microscopy bending tests of a suspended rod-shaped object: Accounting for object fixing conditions. **2023**, 107,	0
69	Probe Microscopy is All You Need.	0
68	Advanced in-situ electrochemical scanning probe microscopies in electrocatalysis. **2023**, 47, 93-120	0
67	Examination of Polymer Blends by AFM Phase Images. **2023**, 11, 56	0
66	Recent advances in sensing the inter-biomolecular interactions at the nanoscale □A comprehensive review of AFM-based force spectroscopy. **2023**, 238, 124089	1
65	Synthesis, spectroscopic analysis and electrochemical studies of novel organic compound based on N-alkylphthalazinone chemistry as corrosion inhibitor for carbon steel in 1M HCl. **2023**, 18, 100121	0
64	Influence of local chemical environment and external perturbations of porphyrins on surfaces. **2023**, 41, 030801	0
63	Effects of Lactiplantibacillus plantarum fermentation on hydrolysis and immunoreactivity of Siberian apricot (Prunus sibirica L.) kernel. **2023**, 53, 102585	0
62	A new insight into the mechanical properties of nanobiofibers and vibrational behavior of atomic force microscope beam considering them as the samples. **2023**, 142, 105842	0
61	Critical analysis of adhesion work measurements from AFM-based techniques for soft contact. **2023**, 642, 216-226	0

60	Mechanics of Leukemic T-Cell.	0
59	Application of Saccharomyces cerevisiae yeast in biofuel cells.	0
58	Exploring how lignin structure influences the interaction between carbohydrate-binding module and lignin using AFM. **2023**, 232, 123313	0
57	Novel paradigm in AFM probe fabrication: Broadened range of stiffness, materials, and tip shapes. **2023**, 180, 108308	0
56	Experimental Guides for Metallic Materials: 1. Microstructural Observation: 1-9 Other Microstructural Observation Techniques. **2023**, 62, 113-121	0
55	Biophysical Reviews Issue Focus call: Computational biophysics of atomic force microscopy. **2023**, 15, 17-18	0
54	The effect of sample viscoelastic properties and cantilever amplitudes on maximum repulsive force, indentation, and energy dissipation in bimodal AFM. **2023**, 98, 035708	0
53	DNA Origami Fiducial for Accurate 3D Atomic Force Microscopy Imaging. **2023**, 23, 1236-1243	0
52	Characterization of structures and molecular interactions of RNA and lipid carriers using atomic force microscopy. **2023**, 313, 102855	0
51	Atomic Force Microscopy Micro-Indentation Methods for Determining the Elastic Modulus of Murine Articular Cartilage. **2023**, 23, 1835	0
50	Advantages of using nanobiotechnology in enhancing the economic status of the country. **2023**, 369-392	0
49	Envision and Appraisal of Biomolecules and Their Interactions through Scanning Probe Microscopy. 2200273	0
48	Fabrication, Characterization, and Design of Facilitated Transport Membranes (FTMs). **2023**, 47-91	0
47	Synthesis of atomically thin sheets by the intercalation-based exfoliation of layered materials. **2023**, 2, 101-118	1
46	Measurements of optical tweezers stiffness. **2001**,	0
45	Dynamic morphology imaging of cardiomyocytes based on AFM. **2023**, 34, 245702	0
44	A review of piezoelectric MEMS sensors and actuators for gas detection application. **2023**, 18,	0
43	Immobilized GPCRs in Drug-Receptor Interaction Analysis. **2023**, 71-82	0

42	Interaction of the fundamental frequencies of a torsional cantilever nanobeam and spring mass system single degree of freedom (SDOF) under axial load, including buckling. **2023**, 5,	0
41	Fourier ptychographic topography. **2023**, 31, 11007	0
40	Investigation of Soft Matter Nanomechanics by Atomic Force Microscopy and Optical Tweezers: A Comprehensive Review. **2023**, 13, 963	4
39	Visualization of Electrolyte Reaction Field Near the Negative Electrode of a Lead Acid Battery by Means of Amplitude/Frequency Modulation Atomic Force Microscopy. **2023**, 16, 2146	0
38	Optimization of somatic embryogenesis inEuterpe edulisMartius using auxin analogs and atomic force microscopy.	0
37	A polyelectrolyte handle for single-molecule force spectroscopy.	0
36	Molecular Imaging of Isolated Escherichia coli DH5Peptidoglycan Sacculi Identifies the Mechanism of Action of Cell Wall-Inhibiting Antibiotics. **2023**, 18, 848-860	0
35	Switching Quantum Interference in Single-Molecule Junctions by Mechanical Tuning.	0
34	Switching Quantum Interference in Single-Molecule Junctions by Mechanical Tuning.	0
33	Accurate Electrostatic Force Measurements by Atomic Force Microscopy Using Proper Distance Control. **2023**, 72, 1-8	0
32	Deformation- and rupture-controlled friction between PDMS and a nanometer-scale SiOx single-asperity.	0
31	Introduction. **2023**, 1-17	0
30	Breakdown of Thin-Film Dielectrics. **2022**, 39-52	0
29	Label-Free Long-Term Methods for Live Cell Imaging of Neurons: New Opportunities. **2023**, 13, 404	0
28	Influence of Surface Chemistry of Fiber and Lignocellulosic Materials on Adhesion Properties with Polybutylene Succinate at Nanoscale. **2023**, 16, 2440	0
27	Artificial-intelligence-assisted mass fabrication of nanocantilevers from randomly positioned single carbon nanotubes. **2023**, 9,	0
26	Stiffness Considerations for a MEMS-Based Weighing Cell. **2023**, 23, 3342	0
25	Accelerating the Heat Diffusion: Fast Thermal Relaxation of a Microcantilever. **2023**, 19,	0

24	Recent advances in in situ and operando characterization techniques for Li7La3Zr2O12-based solid-state lithium batteries.	0
23	Operando Scanning Electrochemical Probe Microscopy during Electrocatalysis.	0
22	Ag Thin Films from Pelargonium Zonale Leaves via Green Chemistry. **2023**, 17, 133-140	0
21	Toward the Next Frontiers of Vibrational Bioimaging.	0
20	Congenital Defects with Impaired Red Blood Cell Deformability The Role of Next-Generation Ektacytometry.	0
19	Viscoelastic Properties of Zona Pellucida of Oocytes Characterized by Transient Electrical Impedance Spectroscopy. **2023**, 13, 442	0
18	Nanotechnology and Medicine: The Interphase. **2023**, 1-31	0
17	Synthesis and Ring-Opening Metathesis Polymerization of a Strained trans-Silacycloheptene and Single-Molecule Mechanics of Its Polymer.	0
16	Single molecule techniques. **2023**, 101-123	0
15	Bibliography. **2023**, 215-239	0
14	Insights in Cell Biomechanics through Atomic Force Microscopy. **2023**, 16, 2980	0
13	Recent advances in the application of scanning probe microscopy in interfacial electroanalytical chemistry. **2023**, 938, 117443	0
12	Recent advances in the application of atomic force microscopy to structural biology. **2023**, 215, 107963	0
11	Colloidal interactions for a polystyrene particle and a smooth silicon surface: atomic force microscopy, XDLVO theory, and surface element integration.. **2023**, 131315	0
10	Equivalent Electromechanical Model for Quartz Tuning Fork Used in Atomic Force Microscopy. **2023** , 23, 3923	0
9	Recent Developments in Microscale Temperature Measurement Techniques. **2023**,	0
8	Combining AFM, XPS and chemical hydrolysis to understand the complexity and dynamics of C. vulgaris cell wall composition and architecture. **2023**, 72, 103102	0
7	Progress in the applications of atomic force microscope (AFM) for mineralogical research. **2023**, 103460	0

6	Atomic Force Microscopy and Its Spectroscopic Combinations for Studying Self-Assembled Nanostructures. **2023**, 823-844	0
5	Profilometry and atomic force microscopy for surface characterization. **2023**, 2, e9130017	0
4	Sensor principles and basic designs. **2023**, 17-43	0
3	Radio frequency cantilever-free scanning probe microscopy. **2023**, 133,	0
2	A monolithically integrated microcantilever biosensor based on partially depleted SOI CMOS technology. **2023**, 9,	0
1	Ionic liquids modified CNTs and graphene as additive in vegetable lubricating oil: A route for sustainable tribology. **2023**, 100119	0