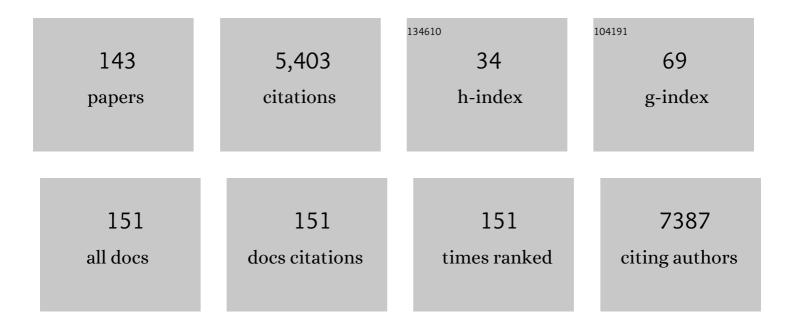
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Temperature-induced response in algal cell surface properties and behaviour: an experimental approach. Journal of Applied Phycology, 2022, 34, 243-259.	1.5	17
2	Salinity-induced chemical, mechanical, and behavioral changes in marine microalgae. Journal of Applied Phycology, 2022, 34, 1293-1309.	1.5	12
3	From fixed-dried to wet-fixed to live– comparative super-resolution microscopy of liver sinusoidal endothelial cell fenestrations. Nanophotonics, 2022, .	2.9	3
4	<scp>miR</scp> â€218 affects the <scp>ECM</scp> composition and cell biomechanical properties of glioblastoma cells. Journal of Cellular and Molecular Medicine, 2022, 26, 3913-3930.	1.6	3
5	Foreword to the special issue on different approaches to force spectroscopy in the research of cell pathologies. Micron, 2022, 161, 103325.	1.1	Ο
6	Impact of Polypyridyl Ru Complexes on Angiogenesis—Contribution to Their Antimetastatic Activity. International Journal of Molecular Sciences, 2022, 23, 7708.	1.8	2
7	On the Determination of Mechanical Properties of Aqueous Microgels—Towards High-Throughput Characterization. Gels, 2021, 7, 64.	2.1	6
8	Single-molecule force spectroscopy reveals structural differences of heparan sulfate chains during binding to vitronectin. Physical Review E, 2021, 104, 024409.	0.8	2
9	The emerging role of mechanical and topographical factors in the development and treatment of nervous system disorders: dark and light sides of the force. Pharmacological Reports, 2021, 73, 1626-1641.	1.5	6
10	Rheological properties of skeletal muscles in a Duchenne muscular dystrophy murine model before and after autologous cell therapy. Journal of Biomechanics, 2021, 128, 110770.	0.9	4
11	Specific Binding of Novel SPION-Based System Bearing Anti-N-Cadherin Antibodies to Prostate Tumor Cells. International Journal of Nanomedicine, 2021, Volume 16, 6537-6552.	3.3	2
12	Traction force microscopy – Measuring the forces exerted by cells. Micron, 2021, 150, 103138.	1.1	40
13	Stiffening of DU145 prostate cancer cells driven by actin filaments – microtubule crosstalk conferring resistance to microtubule-targeting drugs. Nanoscale, 2021, 13, 6212-6226.	2.8	21
14	Small-molecule inhibitor - tyrphostin AG1296 regulates proliferation, survival and migration of rhabdomyosarcoma cells Journal of Physiology and Pharmacology, 2021, 72, .	1.1	0
15	Changes in spinal cord stiffness in the course of experimental autoimmune encephalomyelitis, a mouse model of multiple sclerosis. Archives of Biochemistry and Biophysics, 2020, 680, 108221.	1.4	12
16	Nanomechanics in Monitoring the Effectiveness of Drugs Targeting the Cancer Cell Cytoskeleton. International Journal of Molecular Sciences, 2020, 21, 8786.	1.8	25
17	The stiffnessâ€controlled release of interleukinâ€6 by cardiac fibroblasts is dependent on integrin α2β1. Journal of Cellular and Molecular Medicine, 2020, 24, 13853-13862.	1.6	11
18	Indenting soft samples (hydrogels and cells) with cantilevers possessing various shapes of probing tip. European Biophysics Journal, 2020, 49, 485-495.	1.2	36

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19	Imaging of Cell Structures Using Optimized Soft X-ray Contact Microscopy. Applied Sciences (Switzerland), 2020, 10, 6895.	1.3	4
20	Effect of Substrate Stiffness on Physicochemical Properties of Normal and Fibrotic Lung Fibroblasts. Materials, 2020, 13, 4495.	1.3	6
21	Biophysical nanocharacterization of liver sinusoidal endothelial cells through atomic force microscopy. Biophysical Reviews, 2020, 12, 625-636.	1.5	12
22	Probing the recognition specificity of $\hat{I}\pm\hat{I}^2$ integrin and syndecan-4 using force spectroscopy. Micron, 2020, 137, 102888.	1.1	4
23	Biophysical and Biochemical Characteristics as Complementary Indicators of Melanoma Progression. Analytical Chemistry, 2019, 91, 9885-9892.	3.2	17
24	How Complex Is the Concanavalin A–Carboxypeptidase Y Interaction?. ACS Chemical Biology, 2019, 14, 1611-1618.	1.6	4
25	AFM-based Analysis of Wharton's Jelly Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2019, 20, 4351.	1.8	9
26	Dihydrotestosterone increases the risk of bladder cancer in men. Human Cell, 2019, 32, 379-389.	1.2	12
27	Assessment of phase stability and in vitro biological properties of hydroxyapatite coatings composed of hexagonal rods. Surface and Coatings Technology, 2019, 364, 298-305.	2.2	8
28	Morphological and mechanical stability of bladder cancer cells in response to substrate rigidity. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 1006-1014.	1.1	24
29	Fifteen years of <i>Servitude et Grandeur</i> to the application of a biophysical technique in medicine: The tale of AFMBioMed. Journal of Molecular Recognition, 2019, 32, e2773.	1.1	4
30	Effect of pulse current on wear behavior of Ni matrix micro-and nano-SiC composite coatings at room and elevated temperature. Tribology International, 2019, 132, 50-61.	3.0	57
31	Measuring Elastic Properties of Single Cancer Cells by AFM. Methods in Molecular Biology, 2019, 1886, 315-324.	0.4	19
32	Unbinding Kinetics of Syndecans by Single-Molecule Force Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 1509-1515.	2.1	12
33	Autologous Cell Therapy Approach for Duchenne Muscular Dystrophy using PiggyBac Transposons and Mesoangioblasts. Molecular Therapy, 2018, 26, 1093-1108.	3.7	23
34	Fibroblasts change spreading capability and mechanical properties in a direct interaction with keratinocytes in conditions mimicking wound healing. Journal of Biomechanics, 2018, 74, 134-142.	0.9	12
35	Atomic force microscopy as a tool for assessing the cellular elasticity and adhesiveness to identify cancer cells and tissues. Seminars in Cell and Developmental Biology, 2018, 73, 115-124.	2.3	84
36	AFM assessing of nanomechanical fingerprints for cancer early diagnosis and classification: from single cell to tissue level. Nanoscale, 2018, 10, 20930-20945.	2.8	108

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37	Adaptability of single melanoma cells to surfaces with distinct hydrophobicity and roughness. Applied Surface Science, 2018, 457, 881-890.	3.1	6
38	AFMâ€based nanomechanical characterization of bronchoscopic samples in asthma patients. Journal of Molecular Recognition, 2018, 31, e2752.	1.1	12
39	Electrochemical Deposition of Composite Coatings. , 2018, , 54-67.		5
40	Modification of Polymer Substrates with Extreme Ultraviolet - Potential Application in Cancer Cell Identification. Acta Physica Polonica A, 2018, 133, 283-285.	0.2	1
41	Production and microstructural characterization of Ni matrix composite electrodeposits containing either micro- or nano-particles of Al. Surface and Coatings Technology, 2017, 309, 242-248.	2.2	14
42	Patterning of cancerous cells driven by a combined modification of mechanical and chemical properties of the substrate. European Polymer Journal, 2017, 93, 726-732.	2.6	5
43	Temperature-responsive grafted polymer brushes obtained from renewable sources with potential application as substrates for tissue engineering. Applied Surface Science, 2017, 407, 546-554.	3.1	29
44	Polysulphone composite membranes modified with two types of carbon additives as a potential material for bone tissue regeneration. Bulletin of Materials Science, 2017, 40, 201-212.	0.8	3
45	Standardized Nanomechanical Atomic Force Microscopy Procedure (SNAP) for Measuring Soft and Biological Samples. Scientific Reports, 2017, 7, 5117.	1.6	195
46	Stiffening of bacteria cells as a first manifestation of bactericidal attack. Micron, 2017, 101, 95-102.	1.1	11
47	AFM and QCM-D as tools for the distinction of melanoma cells with a different metastatic potential. Biosensors and Bioelectronics, 2017, 93, 274-281.	5.3	31
48	The Methods of Choice for Extracellular Vesicles (EVs) Characterization. International Journal of Molecular Sciences, 2017, 18, 1153.	1.8	351
49	Late Breaking Abstract - Nano-mechanical properties of bronchial wall biopsies as a potential remodeling marker in obstructive lung disease - preliminary findings. , 2017, , .		0
50	Data on step-by-step atomic force microscopy monitoring of changes occurring in single melanoma cells undergoing ToF SIMS specialized sample preparation protocol. Data in Brief, 2016, 8, 1322-1332.	0.5	1
51	Comparing surface properties of melanoma cells using time of flight secondary ions mass spectrometry. Analyst, The, 2016, 141, 6217-6225.	1.7	5
52	Protocol of single cells preparation for time of flight secondary ionÂmass spectrometry. Analytical Biochemistry, 2016, 511, 52-60.	1.1	19
53	Physico-chemical properties of PDMS surfaces suitable as substrates for cell cultures. Applied Surface Science, 2016, 389, 247-254.	3.1	34
54	Discrimination Between Normal and Cancerous Cells Using AFM. BioNanoScience, 2016, 6, 65-80.	1.5	311

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#	Article	IF	CITATIONS
55	The stiffening of the cell walls observed during physiological softening of pears. Planta, 2016, 243, 519-529.	1.6	55
56	Contact Microscopy using a Compact Laser Produced Plasma Soft X-Ray Source. Acta Physica Polonica A, 2016, 129, 237-240.	0.2	13
57	6 Conclusions. , 2016, , 217-220.		Ο
58	Probing fibronectin–antibody interactions using AFM force spectroscopy and lateral force microscopy. Beilstein Journal of Nanotechnology, 2015, 6, 1164-1175.	1.5	9
59	Differentiation between Single Bladder Cancer Cells Using Principal Component Analysis of Time-of-Flight Secondary Ion Mass Spectrometry. Analytical Chemistry, 2015, 87, 3195-3201.	3.2	19
60	Nano-characterization of two closely related melanoma cell lines with different metastatic potential. European Biophysics Journal, 2015, 44, 49-55.	1.2	15
61	PDMS substrate stiffness affects the morphology and growth profiles of cancerous prostate and melanoma cells. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 41, 13-22.	1.5	62
62	The softening of human bladder cancer cells happens at an early stage of the malignancy process. Beilstein Journal of Nanotechnology, 2014, 5, 447-457.	1.5	99
63	Age-Related Changes in the Mechanical Properties of Human Fibroblasts and Its Prospective Reversal After Anti-Wrinkle Tripeptide Treatment. International Journal of Peptide Research and Therapeutics, 2014, 20, 77-85.	0.9	32
64	Assessing dystrophies and other muscle diseases at the nanometer scale by atomic force microscopy. Nanomedicine, 2014, 9, 393-406.	1.7	29
65	Mechanical properties of Callitriche cophocarpa leaves under Cr(VI)/Cr(III) influence. Acta Physiologiae Plantarum, 2014, 36, 2025-2032.	1.0	2
66	The influence of surfactants and hydrolyzed proteins on keratinocytes viability and elasticity. Skin Research and Technology, 2013, 19, e200-8.	0.8	14
67	MAR-mediated integration of plasmid vectors for in vivo gene transfer and regulation. BMC Molecular Biology, 2013, 14, 26.	3.0	10
68	Surface properties of polyurethane composites for biomedical applications. Applied Surface Science, 2013, 270, 553-560.	3.1	24
69	Photocatalytic and phototoxic properties of TiO2-based nanofilaments: ESR and AFM assays. Nanotoxicology, 2012, 6, 813-824.	1.6	13
70	A tip for diagnosing cancer. Nature Nanotechnology, 2012, 7, 691-692.	15.6	63
71	Cancer cell recognition – Mechanical phenotype. Micron, 2012, 43, 1259-1266.	1.1	243
72	Cancer cell detection in tissue sections using AFM. Archives of Biochemistry and Biophysics, 2012, 518, 151-156.	1.4	298

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73	Reaction pathway and free energy profile determined for specific recognition of oligosaccharide moiety of carboxypeptidase Y. Biosensors and Bioelectronics, 2012, 36, 103-109.	5.3	15
74	Rfâ€GDOES analysis of composite metal/ceramic electroplated coatings with nano―to microceramic particles' size: issues in plasma sputtering of Ni/microâ€SiC coatings. Surface and Interface Analysis, 2012, 44, 48-55.	0.8	6
75	Polymer blends spinâ€cast into films with complementary elements for electronics and biotechnology. Journal of Applied Polymer Science, 2012, 125, 4275-4284.	1.3	16
76	Reverse contrast and substructures in protein micro-patterns on 3D polymer surfaces. Colloids and Surfaces B: Biointerfaces, 2012, 90, 144-151.	2.5	3
77	Depth-sensing analysis of cytoskeleton organization based on AFM data. European Biophysics Journal, 2012, 41, 79-87.	1.2	118
78	Implementation of NSOM to Biological Samples. Acta Physica Polonica A, 2012, 121, 533-538.	0.2	4
79	Global architecture of human poly(A)-specific ribonuclease by atomic force microscopy in liquid and dynamic light scattering. Biophysical Chemistry, 2011, 158, 141-149.	1.5	15
80	Characterization of Nâ€cadherin unbinding properties in nonâ€malignant (HCV29) and malignant (T24) bladder cells. Journal of Molecular Recognition, 2011, 24, 833-842.	1.1	14
81	Polymeric sensing system molecularly imprinted towards enhanced adhesion of Saccharomyces cerevisiae. Biosensors and Bioelectronics, 2010, 26, 50-54.	5.3	9
82	Scaling-up of the electrodeposition process of nano-composite coating for corrosion and wear protection. Electrochimica Acta, 2010, 55, 7876-7883.	2.6	38
83	Chromium(VI) bioremediation by aquatic macrophyte Callitriche cophocarpa Sendtn Chemosphere, 2010, 79, 1077-1083.	4.2	67
84	Quantitative Nanomechanical Measurements in Biology. , 2010, , 239-273.		0
85	Gene-mediated Restoration of Normal Myofiber Elasticity in Dystrophic Muscles. Molecular Therapy, 2009, 17, 19-25.	3.7	48
86	Influence of the particle size on the mechanical and electrochemical behaviour of micro- and nano-nickel matrix composite coatings. Journal of Applied Electrochemistry, 2009, 39, 31-38.	1.5	74
87	Applicability of AFM in cancer detection. Nature Nanotechnology, 2009, 4, 72-72.	15.6	139
88	Selective Protein Adsorption on Polymer Patterns Formed by Self-Organization and Soft Lithography. Biomacromolecules, 2009, 10, 2101-2109.	2.6	41
89	Intracellular nanomanipulation by a photonic-force microscope with real-time acquisition of a 3D stiffness matrix. Nanotechnology, 2009, 20, 285709.	1.3	10
90	G.O.1 Diagnosis of muscular dystrophies at the nanometer scale. Neuromuscular Disorders, 2009, 19, 544-545.	0.3	0

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91	Biomedical applications of AFM. Journal of Physics: Conference Series, 2009, 146, 012023.	0.3	13
92	Structures in Multicomponent Polymer Films: Their Formation, Observation and Applications in Electronics and Biotechnology. Acta Physica Polonica A, 2009, 115, 435-440.	0.2	10
93	Energy Dissipation in the AFM Elasticity Measurements. Acta Physica Polonica A, 2009, 115, 548-551.	0.2	27
94	AFM Force Spectroscopy and Steered Molecular Dynamics Simulation of Protein Contactin 4. Acta Physica Polonica A, 2009, 116, S-156-S-159.	0.2	13
95	Integral Geometry Analysis of Fluorescence Micrographs for Quantitative Relative Comparison of Protein Adsorption onto Polymer Surfaces. Langmuir, 2008, 24, 10253-10258.	1.6	24
96	Rheological properties of erythrocytes in patients with high risk of cardiovascular disease. Clinical Hemorheology and Microcirculation, 2008, 39, 213-219.	0.9	13
97	Statins Impair Antitumor Effects of Rituximab by Inducing Conformational Changes of CD20. PLoS Medicine, 2008, 5, e64.	3.9	115
98	The Increase in Protein Contour Length Depends on Mechanical Unfolding Conditions. Acta Physica Polonica A, 2008, 113, 753-762.	0.2	1
99	Rheological properties of erythrocytes in patients with high risk of cardiovascular disease. Clinical Hemorheology and Microcirculation, 2008, 39, 213-9.	0.9	2
100	Stiffness Alterations of Single Cells Induced by UV in the Presence of NanoTiO2. Environmental Science & amp; Technology, 2007, 41, 5149-5153.	4.6	51
101	Atomic Force Microscopy and Quartz Crystal Microbalance Study of the Lectin-Carbohydrate Interaction Kinetics. Acta Physica Polonica A, 2007, 111, 273-286.	0.2	10
102	Direct Detection of Ligand-Protein Interaction Using AFM. Nanoscience and Technology, 2007, , 165-203.	1.5	0
103	Photo-oxidative Stress in the Presence of a Water-soluble Derivative of C60: ESR and AFM Assays. , 2007, , 153-180.		0
104	Statins Impair Antitumor Effects of CD20 mAb by Inducing Conformational Changes of CD20 Blood, 2007, 110, 2341-2341.	0.6	0
105	A comparison between the unfolding of fibronectin and contactin. Journal of Physics Condensed Matter, 2006, 18, 10157-10164.	0.7	6
106	Specific Detection of Glycans on a Plasma Membrane of Living Cells with Atomic Force Microscopy. Chemistry and Biology, 2006, 13, 505-512.	6.2	24
107	Lectin–carbohydrate affinity measured using a quartz crystal microbalance. Journal of Colloid and Interface Science, 2006, 299, 41-48.	5.0	43
108	Stiffness of normal and pathological erythrocytes studied by means of atomic force microscopy. Journal of Proteomics, 2006, 66, 1-11.	2.4	257

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109	Spectroscopic and Photophysical Properties of a Highly Derivatized C60 Fullerol. Advanced Functional Materials, 2006, 16, 120-128.	7.8	122
110	Quantitative Nanomechanical Measurements in Biology. Nanoscience and Technology, 2006, , 205-239.	1.5	1
111	Erythrocyte stiffness in diabetes mellitus studied with atomic force microscope. Clinical Hemorheology and Microcirculation, 2006, 35, 273-6.	0.9	30
112	Pattern replication examined with integral geometry approach: application to ion milling of polymer blend films. Thin Solid Films, 2005, 476, 358-365.	0.8	13
113	PAC Studies of BSA Conformational Changes. Hyperfine Interactions, 2005, 159, 323-329.	0.2	8
114	Singlet oxygen (1î"g)-mediated oxidation of cellular and subcellular components: ESR and AFM assays. Journal of Physics Condensed Matter, 2005, 17, S1471-S1482.	0.7	17
115	Binding activity of patterned concanavalin A studied by atomic force microscopy. Journal of Physics Condensed Matter, 2005, 17, S1447-S1458.	0.7	13
116	Friction force microscopy as an alternative method to probe molecular interactions. Journal of Chemical Physics, 2005, 123, 014702.	1.2	13
117	Probing local water contents of in vitro protein films by ultrasonic force microscopy. Applied Physics Letters, 2005, 86, 123901.	1.5	23
118	Expression of prostate specific membrane antigen in androgen-independent prostate cancer cell line PC-3. Archives of Biochemistry and Biophysics, 2005, 435, 1-14.	1.4	61
119	Erythrocyte stiffness probed using atomic force microscope. Biorheology, 2005, 42, 307-17.	1.2	70
120	In vitro assay of singlet oxygen generation in the presence of water-soluble derivatives of C60. Carbon, 2004, 42, 1195-1198.	5.4	48
121	Probing molecular interaction between concanavalin A and mannose ligands by means of SFM. European Biophysics Journal, 2004, 33, 644-650.	1.2	20
122	Hydrogel Microspheres:Â Influence of Chemical Composition on Surface Morphology, Local Elastic Properties, and Bulk Mechanical Characteristics. Langmuir, 2004, 20, 9968-9977.	1.6	38
123	Structures Formed in Spin-Cast Films of Polystyrene Blends with Poly(butyl methacrylate) Isomers. Macromolecules, 2004, 37, 7308-7315.	2.2	38
124	Study of Adhesion Interaction Using Atomic Force Microscopy. Acta Physica Polonica A, 2004, 105, 501-510.	0.2	1
125	Surface Patterns in Solvent-Cast Polymer Blend Films Analyzed with an Integral-Geometry Approach. Macromolecules, 2003, 36, 2419-2427.	2.2	59
126	Molecular mechanism of haemolysis induced by triphenyltin chloride. Applied Organometallic Chemistry, 2002, 16, 148-154.	1.7	17

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127	Single-Bond Force Measured by Means of Scanning Force Microscopy. Acta Physica Polonica A, 2002, 102, 355-364.	0.2	4
128	Morphological patterns in polystyrene/polyisoprene blend films cast onto hydrophobic and hydrophilic substrates. Acta Crystallographica Section A: Foundations and Advances, 2002, 58, c361-c361.	0.3	0
129	The effect of chitosan on stiffness and glycolytic activity of human bladder cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2001, 1540, 127-136.	1.9	74
130	Correlation between chloroplast motility and elastic properties of tobacco mesophyll protoplasts. Acta Physiologiae Plantarum, 2001, 23, 291-302.	1.0	20
131	Hydrodynamic-flow-driven phase evolution in a polymer blend film modified by diblock copolymers. European Physical Journal E, 2001, 5, 207-219.	0.7	16
132	Phase decomposition in polymer blend films cast on homogeneous substrates modified by self-assembled monolayers. Vacuum, 2001, 63, 297-305.	1.6	21
133	Phase decomposition in polymer blend films cast on substrates patterned with self-assembled monolayers. Vacuum, 2001, 63, 307-313.	1.6	47
134	Depth profiling studies of the surface directed phase decomposition in thin polymer films. Vacuum, 1999, 54, 303-307.	1.6	17
135	Local elastic properties of cells studied by SFM. Applied Surface Science, 1999, 141, 345-349.	3.1	45
136	Surface roughness of thin layers—a comparison of XRR and SFM measurements. Applied Surface Science, 1999, 141, 357-365.	3.1	30
137	Elasticity of normal and cancerous human bladder cells studied by scanning force microscopy. European Biophysics Journal, 1999, 28, 312-316.	1.2	628
138	Local Adhesive Surface Properties Studied by Force Microscopy. Acta Physica Polonica A, 1998, 93, 421-424.	0.2	2
139	Sample preparation procedure for PIXE elemental analysis on soft tissues. Journal of Radioanalytical and Nuclear Chemistry, 1997, 223, 247-249.	0.7	2
140	Investigation of trace elements in cancer kidney tissues by SRIXE and PIXE. Nuclear Instruments & Methods in Physics Research B, 1996, 109-110, 284-288.	0.6	14
141	Scanning Force Microscopy Studies of Implanted Silicon Crystals. Acta Physica Polonica A, 1996, 89, 315-322.	0.2	6
142	Scanning force microscopy of biological samples. Polish Journal of Pathology, 1996, 47, 51-5.	0.1	4
143	Atomic force microscopy and spectroscopy 0		0