

Joachim Raedler

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179
papers

11,822
citations

56
h-index

105
g-index

202
ext. papers

12,784
ext. citations

5.8
avg, IF

6.14
L-index

#	Paper	IF	Citations
179	Structure of DNA-cationic liposome complexes: DNA intercalation in multilamellar membranes in distinct interhelical packing regimes. <i>Science</i> , 1997 , 275, 810-4	33.3	1274
178	An inverted hexagonal phase of cationic liposome-DNA complexes related to DNA release and delivery. <i>Science</i> , 1998 , 281, 78-81	33.3	1042
177	Hydrophobic Nanocrystals Coated with an Amphiphilic Polymer Shell: A General Route to Water Soluble Nanocrystals. <i>Nano Letters</i> , 2004 , 4, 703-707	11.5	930
176	Reversible versus irreversible binding of transferrin to polystyrene nanoparticles: soft and hard corona. <i>ACS Nano</i> , 2012 , 6, 2532-41	16.7	361
175	Conformation and Self-Diffusion of Single DNA Molecules Confined to Two Dimensions. <i>Physical Review Letters</i> , 1999 , 82, 1911-1914	7.4	323
174	Phenomenology and Kinetics of Lipid Bilayer Spreading on Hydrophilic Surfaces. <i>Langmuir</i> , 1995 , 11, 4539-4548	4	267
173	Local measurements of viscoelastic moduli of entangled actin networks using an oscillating magnetic bead micro-rheometer. <i>Biophysical Journal</i> , 1994 , 66, 2210-6	2.9	263
172	Two-Dimensional Smectic Ordering of Linear DNA Chains in Self-Assembled DNA-Cationic Liposome Mixtures. <i>Physical Review Letters</i> , 1997 , 79, 2582-2585	7.4	192
171	Understanding the Kinetics of Protein-Nanoparticle Corona Formation. <i>ACS Nano</i> , 2016 , 10, 10842-10850	6.7	165
170	Uptake of Colloidal Polyelectrolyte-Coated Particles and Polyelectrolyte Multilayer Capsules by Living Cells. <i>Advanced Materials</i> , 2008 , 20, 4281-4287	24	162
169	Imparting Functionality to MOF Nanoparticles by External Surface Selective Covalent Attachment of Polymers. <i>Chemistry of Materials</i> , 2016 , 28, 3318-3326	9.6	157
168	DNA on Fluid Membranes: A Model Polymer in Two Dimensions. <i>Macromolecules</i> , 2000 , 33, 7185-7194	5.5	154
167	Temporal analysis of active and passive transport in living cells. <i>Physical Review Letters</i> , 2008 , 101, 248103	10.34	153
166	MOF nanoparticles coated by lipid bilayers and their uptake by cancer cells. <i>Chemical Communications</i> , 2015 , 51, 15752-5	5.8	152
165	Direct Evidence for Counterion Release upon Cationic Lipid-DNA Condensation. <i>Langmuir</i> , 2000 , 16, 303-306	4	148
164	Fluctuation analysis of tension-controlled undulation forces between giant vesicles and solid substrates. <i>Physical Review E</i> , 1995 , 51, 4526-4536	2.4	138
163	Wetting of phospholipid membranes on hydrophilic surfaces - Concepts towards self-healing membranes. <i>European Physical Journal B</i> , 1999 , 10, 335-344	1.2	137

162	Colchicine-loaded lipid bilayer-coated 50 nm mesoporous nanoparticles efficiently induce microtubule depolymerization upon cell uptake. <i>Nano Letters</i> , 2010 , 10, 2484-92	11.5	134
161	Membrane Mediated Attraction and Ordered Aggregation of Colloidal Particles Bound to Giant Phospholipid Vesicles. <i>Physical Review Letters</i> , 1999 , 82, 1991-1994	7.4	133
160	Multifunctional Nanoparticles by Coordinative Self-Assembly of His-Tagged Units with Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2359-2368	16.4	127
159	Controlled nanometric phase transitions of phospholipid membranes by plasmonic heating of single gold nanoparticles. <i>Nano Letters</i> , 2009 , 9, 2903-8	11.5	124
158	Structure and Interfacial Aspects of Self-Assembled Cationic Lipid-DNA Gene Carrier Complexes. <i>Langmuir</i> , 1998 , 14, 4272-4283	4	123
157	Thermotropic Phase Behavior of Cationic Lipid-DNA Complexes Compared to Binary Lipid Mixtures. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 10300-10310	3.4	119
156	Combined atomic force microscopy and optical microscopy measurements as a method to investigate particle uptake by cells. <i>Small</i> , 2006 , 2, 394-400	11	118
155	Fluorescence correlation spectroscopy studies of Peptide and protein binding to phospholipid vesicles. <i>Biophysical Journal</i> , 2004 , 87, 1044-53	2.9	116
154	Nanosized multifunctional polyplexes for receptor-mediated siRNA delivery. <i>ACS Nano</i> , 2012 , 6, 5198-2006.7	16.7	112
153	Does Calcium Turn a Zwitterionic Lipid Cationic?. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9869-9875	3.4	107
152	Imaging optical thicknesses and separation distances of phospholipid vesicles at solid surfaces. <i>Journal De Physique II</i> , 1993 , 3, 727-748		105
151	Structural investigations of DNA-polycation complexes. <i>European Physical Journal E</i> , 2005 , 16, 17-28	1.5	104
150	Membrane-bound basic peptides sequester multivalent (PIP ₂), but not monovalent (PS), acidic lipids. <i>Biophysical Journal</i> , 2006 , 91, 588-99	2.9	95
149	Timing and dynamics of single cell gene expression in the arabinose utilization system. <i>Biophysical Journal</i> , 2008 , 95, 2103-15	2.9	93
148	Observation of a Rectangular Columnar Phase in Condensed Lamellar Cationic Lipid-DNA Complexes. <i>Physical Review Letters</i> , 1998 , 81, 5015-5018	7.4	93
147	A phase of liposomes with entangled tubular vesicles. <i>Science</i> , 1994 , 266, 1222-5	33.3	88
146	On the measurement of weak repulsive and frictional colloidal forces by reflection interference contrast microscopy. <i>Langmuir</i> , 1992 , 8, 848-853	4	87
145	Real-time imaging of DNA ejection from single phage particles. <i>Current Biology</i> , 2005 , 15, 430-5	6.3	82

144	Flow profiling of a surface-acoustic-wave nanopump. <i>Physical Review E</i> , 2004 , 70, 056311	2.4	81
143	Self-assembled DNAcationic-lipid complexes: Two-dimensional smectic ordering, correlations, and interactions. <i>Physical Review E</i> , 1998 , 58, 889-904	2.4	81
142	Synthesis and self-assembly of perylene diimide-oligonucleotide conjugates. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3967-70	16.4	80
141	Exploration of MOF nanoparticle sizes using various physical characterization methods [Is what you measure what you get?]. <i>CrystEngComm</i> , 2016 , 18, 4359-4368	3.3	79
140	Development of anomalous diffusion among crowding proteins. <i>Soft Matter</i> , 2010 , 6, 2648	3.6	77
139	Controlled solvent-exchange deposition of phospholipid membranes onto solid surfaces. <i>Biointerphases</i> , 2010 , 5, 1-8	1.8	76
138	Observation of a rectangular columnar phase in a DNA-calcium-zwitterionic lipid complex. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15966-7	16.4	73
137	Phase Behavior of DPPC in a DNA-calcium-zwitterionic Lipid Complex Studied by Small-Angle X-ray Scattering. <i>Langmuir</i> , 2003 , 19, 9630-9637	4	73
136	Emergence and Persistence of Collective Cell Migration on Small Circular Micropatterns. <i>Physical Review Letters</i> , 2015 , 114, 228102	7.4	71
135	Single-cell mRNA transfection studies: delivery, kinetics and statistics by numbers. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 679-88	6	71
134	Interaction of liposomal and polycationic transfection complexes with pulmonary surfactant. <i>Journal of Gene Medicine</i> , 1999 , 1, 331-40	3.5	69
133	Experiment and mathematical modeling of gene expression dynamics in a cell-free system. <i>Integrative Biology (United Kingdom)</i> , 2012 , 4, 494-501	3.7	68
132	Flow profile near a wall measured by double-focus fluorescence cross-correlation. <i>Physical Review E</i> , 2003 , 67, 056313	2.4	68
131	Dynamics of large semiflexible chains probed by fluorescence correlation spectroscopy. <i>Physical Review Letters</i> , 2003 , 90, 218301	7.4	61
130	Nucleic acid nanostructures for biomedical applications. <i>Nanomedicine</i> , 2013 , 8, 105-21	5.6	60
129	Monomolecular assembly of siRNA and poly(ethylene glycol)-peptide copolymers. <i>Biomacromolecules</i> , 2008 , 9, 724-32	6.9	60
128	Light-induced dielectrophoretic manipulation of DNA. <i>Biophysical Journal</i> , 2007 , 93, 1032-8	2.9	58
127	Fluorescent nanocrystals as colloidal probes in complex fluids measured by fluorescence correlation spectroscopy. <i>Small</i> , 2005 , 1, 997-1003	11	58

126	Discrimination of Escherichia coli strains using glycan cantilever array sensors. <i>Nano Letters</i> , 2012 , 12, 420-3	11.5	57
125	Intramolecular dynamics of linear macromolecules by fluorescence correlation spectroscopy. <i>Physical Review E</i> , 2006 , 73, 041919	2.4	57
124	Microelectrophoresis of a bilayer-coated silica bead in an optical trap: application to enzymology. <i>Biophysical Journal</i> , 2001 , 80, 2298-309	2.9	57
123	Chemotactic cell trapping in controlled alternating gradient fields. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 11417-22	11.5	56
122	Thermotropic structural changes of saturated-cationic-lipid-DNA complexes. <i>Europhysics Letters</i> , 1999 , 45, 90-96	1.6	50
121	Comparison of four different particle sizing methods for siRNA polyplex characterization. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 84, 255-64	5.7	49
120	Shape and Interhelical Spacing of DNA Origami Nanostructures Studied by Small-Angle X-ray Scattering. <i>Nano Letters</i> , 2016 , 16, 4282-7	11.5	48
119	Interface dynamics of lipid membrane spreading on solid surfaces. <i>Physical Review Letters</i> , 2001 , 86, 1904-7	4.7	47
118	Structure and dynamics of crystalline protein layers bound to supported lipid bilayers. <i>Langmuir</i> , 2007 , 23, 6263-9	4	46
117	A polyphenylene dendrimer-detergent complex as a highly fluorescent probe for bioassays. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5832-8	16.4	46
116	Shear-Induced Unfolding and Enzymatic Cleavage of Full-Length VWF Multimers. <i>Biophysical Journal</i> , 2016 , 110, 545-554	2.9	42
115	Basal expression rate of comK sets a switching-window into the K-state of Bacillus subtilis. <i>Molecular Microbiology</i> , 2007 , 63, 1806-16	4.1	42
114	Elastic response of DNA to external electric fields in two dimensions. <i>Europhysics Letters</i> , 2002 , 60, 622-628	6.28	42
113	Microfluidic self-assembly of folate-targeted monomolecular siRNA-lipid nanoparticles. <i>Nanoscale</i> , 2017 , 9, 7442-7453	7.7	41
112	Inter-laboratory comparison of nanoparticle size measurements using dynamic light scattering and differential centrifugal sedimentation. <i>NanoImpact</i> , 2018 , 10, 97-107	5.6	41
111	Flow and diffusion in channel-guided cell migration. <i>Biophysical Journal</i> , 2014 , 107, 1054-1064	2.9	41
110	Horizontal ToF-neutron reflectometer REFSANS at FRM-II Munich/Germany: First tests and status. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 1161-1163	2.8	40
109	Using gene regulation to program DNA-based molecular devices. <i>Small</i> , 2005 , 1, 709-12	11	40

108	Collective membrane motions of high and low amplitude, studied by dynamic light scattering and micro-interferometry. <i>Faraday Discussions</i> , 1998 , 17-30; discussion 69-78	3.6	40
107	FTIR spectroscopic characterization of a cationic lipidDNA complex and its components. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 4642-4650	3.6	39
106	Tumoral gene silencing by receptor-targeted combinatorial siRNA polyplexes. <i>Journal of Controlled Release</i> , 2016 , 244, 280-291	11.7	37
105	Heparin-coated colloidal mesoporous silica nanoparticles efficiently bind to antithrombin as an anticoagulant drug-delivery system. <i>Chemistry - A European Journal</i> , 2012 , 18, 428-32	4.8	37
104	Structure and mobility of lipid membranes on a thermoplastic substrate. <i>Langmuir</i> , 2006 , 22, 538-45	4	37
103	Transport, separation, and accumulation of proteins on supported lipid bilayers. <i>Nano Letters</i> , 2010 , 10, 2903-8	11.5	36
102	Decorated rods: a "bottom-up" self-assembly of monomolecular DNA complexes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 4548-54	3.4	36
101	DNA at membrane surfaces: An experimental overview. <i>Current Opinion in Colloid and Interface Science</i> , 1998 , 3, 69-77	7.6	35
100	Single cell kinetics of phenotypic switching in the arabinose utilization system of E. coli. <i>PLoS ONE</i> , 2014 , 9, e89532	3.7	35
99	Predictive modeling of non-viral gene transfer. <i>Biotechnology and Bioengineering</i> , 2010 , 105, 805-13	4.9	34
98	von Willebrand factor is dimerized by protein disulfide isomerase. <i>Blood</i> , 2016 , 127, 1183-91	2.2	33
97	pH-Reversible Cationic RNase A Conjugates for Enhanced Cellular Delivery and Tumor Cell Killing. <i>Biomacromolecules</i> , 2016 , 17, 173-82	6.9	33
96	Asymmetric distribution of anionic phospholipids in supported lipid bilayers. <i>Langmuir</i> , 2012 , 28, 10818-21	4	33
95	Systemic Delivery of Folate-PEG siRNA Lipopolyplexes with Enhanced Intracellular Stability for In Vivo Gene Silencing in Leukemia. <i>Bioconjugate Chemistry</i> , 2017 , 28, 2393-2409	6.3	32
94	Controlling loading and optical properties of gold nanoparticles on liposome membranes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 342, 92-96	5.1	32
93	Kinetics of genetic switching into the state of bacterial competence. <i>Biophysical Journal</i> , 2009 , 96, 1178-83	3.8	32
92	Exponential size distribution of von Willebrand factor. <i>Biophysical Journal</i> , 2013 , 105, 1208-16	2.9	31
91	Asymmetric structural features in single supported lipid bilayers containing cholesterol and GM1 resolved with synchrotron X-Ray reflectivity. <i>Biophysical Journal</i> , 2008 , 95, 657-68	2.9	31

90	Microscopy-based high-throughput assays enable multi-parametric analysis to assess adverse effects of nanomaterials in various cell lines. <i>Archives of Toxicology</i> , 2018 , 92, 633-649	5.8	31
89	Stochastic nonlinear dynamics of confined cell migration in two-state systems. <i>Nature Physics</i> , 2019 , 15, 595-601	16.2	30
88	The defined presentation of nanoparticles to cells and their surface controlled uptake. <i>Biomaterials</i> , 2009 , 30, 3766-70	15.6	29
87	Shape of Self-Avoiding Walks in Two Dimensions. <i>Macromolecules</i> , 2001 , 34, 5723-5724	5.5	29
86	Stability analysis of chemically modified mRNA using micropattern-based single-cell arrays. <i>Lab on A Chip</i> , 2015 , 15, 3561-71	7.2	25
85	Dynamics of AHL mediated quorum sensing under flow and non-flow conditions. <i>Physical Biology</i> , 2012 , 9, 026007	3	25
84	DNA localization and stretching on periodically microstructured lipid membranes. <i>Physical Review Letters</i> , 2006 , 96, 038103	7.4	25
83	Cell type determines the light-induced endosomal escape kinetics of multifunctional mesoporous silica nanoparticles. <i>Nano Letters</i> , 2013 , 13, 1047-52	11.5	24
82	Dynamic patterns in a supported lipid bilayer driven by standing surface acoustic waves. <i>Lab on A Chip</i> , 2009 , 9, 3050-3	7.2	24
81	Guiding 3D cell migration in deformed synthetic hydrogel microstructures. <i>Soft Matter</i> , 2018 , 14, 2816-2826	8.26	23
80	Intracellular Delivery of Nanobodies for Imaging of Target Proteins in Live Cells. <i>Pharmaceutical Research</i> , 2017 , 34, 161-174	4.5	23
79	Kinetic Analysis of the Uptake and Release of Fluorescein by Metal-Organic Framework Nanoparticles. <i>Materials</i> , 2017 , 10,	3.5	23
78	Structural characterization of an elevated lipid bilayer obtained by stepwise functionalization of a self-assembled alkenyl silane film. <i>Biointerphases</i> , 2007 , 2, 109-18	1.8	23
77	Transport of nucleosome core particles in semidilute DNA solutions. <i>Biophysical Journal</i> , 2003 , 85, 1817-25	2.5	23
76	Multi-level kinetic model of mRNA delivery via transfection of lipoplexes. <i>PLoS ONE</i> , 2014 , 9, e107148	3.7	23
75	Multi-experiment nonlinear mixed effect modeling of single-cell translation kinetics after transfection. <i>Npj Systems Biology and Applications</i> , 2019 , 5, 1	5	23
74	Cellular self-organization on micro-structured surfaces. <i>Soft Matter</i> , 2014 , 10, 2397-404	3.6	21
73	Manning free counterion fraction for a rodlike polyeion: aqueous solutions of short DNA fragments in presence of very low added salt. <i>Physical Review E</i> , 2011 , 83, 041803	2.4	20

72	Refining in vitro models for nanomaterial exposure to cells and tissues. <i>NanoImpact</i> , 2018 , 10, 121-142	5.6	19
71	Simultaneous measurement of a range of particle sizes during A β -42 fibrillogenesis quantified using fluorescence correlation spectroscopy. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 448, 195-9	3.4	18
70	Automated tracking in live-cell time-lapse movies. <i>Integrative Biology (United Kingdom)</i> , 2011 , 3, 1095-103	3.7	18
69	Controllable Acoustic Mixing of Fluids in Microchannels for the Fabrication of Therapeutic Nanoparticles. <i>Micromachines</i> , 2016 , 7,	3.3	18
68	Functionalization of solids by ultrathin soft polymer films and polymer/lipid film composites: modeling of cell surfaces and cell recognition processes. <i>Current Opinion in Solid State and Materials Science</i> , 1997 , 2, 330-336	12	17
67	Phenomenological approaches to collective behavior in epithelial cell migration. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015 , 1853, 3143-52	4.9	16
66	Micropatterning as a tool to identify regulatory triggers and kinetics of actin-mediated endothelial mechanosensing. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	16
65	Impact of plasma protein binding on cargo release by thermosensitive liposomes probed by fluorescence correlation spectroscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017 , 119, 215-223	5.7	16
64	Self-assembly of stable monomolecular nucleic acid lipid particles with a size of 30 nm. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11652-8	16.4	16
63	Diffusion and molecular binding in crowded vesicle solutions measured by fluorescence correlation spectroscopy. <i>Soft Matter</i> , 2009 , 5, 4283	3.6	16
62	Charge and size dependence of liposome diffusion in semidilute biopolymer solutions. <i>Macromolecular Bioscience</i> , 2010 , 10, 1465-72	5.5	15
61	Bio-selective surfaces by chemically amplified constructive microlithography. <i>Surface Science</i> , 2007 , 601, 4984-4992	1.8	15
60	Area and Geometry Dependence of Cell Migration in Asymmetric Two-State Micropatterns. <i>Biophysical Journal</i> , 2020 , 118, 552-564	2.9	15
59	Non-Markovian data-driven modeling of single-cell motility. <i>Physical Review E</i> , 2020 , 101, 032408	2.4	14
58	Modeling nanoparticle uptake and intracellular distribution using stochastic process algebras. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	14
57	SANS studies of liquid crystalline microemulsion gels. <i>Physica B: Condensed Matter</i> , 1989 , 156-157, 398-403	4.8	14
56	Versatile method to generate multiple types of micropatterns. <i>Biointerphases</i> , 2016 , 11, 011005	1.8	14
55	Heavy water reduces GFP expression in prokaryotic cell-free assays at the translation level while stimulating its transcription. <i>BioMed Research International</i> , 2013 , 2013, 592745	3	13

54	Biophysical characterization of copolymer-protected gene vectors. <i>Biomacromolecules</i> , 2010 , 11, 1802-96.9		13
53	Conformational dynamics of DNA-electrophoresis on cationic membranes. <i>Electrophoresis</i> , 2009 , 30, 1276-81	3.6	13
52	Influence of Defined Hydrophilic Blocks within Oligoaminoamide Copolymers: Compaction versus Shielding of pDNA Nanoparticles. <i>Polymers</i> , 2017 , 9,	4.5	12
51	Arraying cell cultures using PEG-DMA micromolding in standard culture dishes. <i>Macromolecular Bioscience</i> , 2013 , 13, 595-602	5.5	12
50	Phase behavior and the partitioning of caveolin-1 scaffolding domain peptides in model lipid bilayers. <i>Journal of Colloid and Interface Science</i> , 2006 , 304, 67-76	9.3	12
49	Nanoscale FasL Organization on DNA Origami to Decipher Apoptosis Signal Activation in Cells. <i>Small</i> , 2021 , 17, e2101678	11	12
48	Parameter estimation for dynamical systems with discrete events and logical operations. <i>Bioinformatics</i> , 2017 , 33, 1049-1056	7.2	12
47	Diffusion of a single semiflexible charged polymer. <i>Europhysics Letters</i> , 2006 , 76, 346-352	1.6	11
46	DNA molecules on periodically microstructured lipid membranes: localization and coil stretching. <i>Physical Review E</i> , 2007 , 75, 021901	2.4	11
45	Single-cell characterization of metabolic switching in the sugar phosphotransferase system of <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2016 , 100, 472-85	4.1	11
44	Age related changes in cell stiffness of tendon stem/progenitor cells and a rejuvenating effect of ROCK-inhibition. <i>Biochemical and Biophysical Research Communications</i> , 2019 , 509, 839-844	3.4	11
43	Disentangling the behavioural variability of confined cell migration. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20190689	4.1	10
42	Alignment of cell division axes in directed epithelial cell migration. <i>New Journal of Physics</i> , 2014 , 16, 115005	10.5	10
41	Probing GFP-actin diffusion in living cells using fluorescence correlation spectroscopy. <i>Physical Biology</i> , 2010 , 7, 046014	3	10
40	Chains, dimers, and sandwiches: melting behavior of DNA nanoassemblies. <i>Nano Letters</i> , 2005 , 5, 497-501	11.5	10
39	Ring-Shaped Microlanes and Chemical Barriers as a Platform for Probing Single-Cell Migration. <i>Scientific Reports</i> , 2016 , 6, 26858	4.9	9
38	Contractility as a global regulator of cellular morphology, velocity, and directionality in low-adhesive fibrillary micro-environments. <i>Biomaterials</i> , 2016 , 102, 137-47	15.6	9
37	Internal tension in a collapsed polymer under shear flow and the connection to enzymatic cleavage of von Willebrand factor. <i>European Physical Journal E</i> , 2016 , 39, 32	1.5	9

36	DNA concentration modulation on supported lipid bilayers switched by surface acoustic waves. <i>Langmuir</i> , 2011 , 27, 14721-5	4	9
35	DNA microelectrophoresis using double focus fluorescence correlation spectroscopy. <i>Electrophoresis</i> , 2006 , 27, 3952-63	3.6	9
34	Learning the dynamics of cell-cell interactions in confined cell migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
33	A high-throughput microscopy method for single-cell analysis of event-time correlations in nanoparticle-induced cell death. <i>Communications Biology</i> , 2019 , 2, 35	6.7	8
32	Nanostructures in n-Octanol Equilibrated with Additives and/or Water. <i>Langmuir</i> , 2018 , 34, 6285-6295	4	8
31	FVIII binding to PS membranes differs in the activated and non-activated form and can be shielded by annexin A5. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12963-70	3.4	8
30	Wormlike lipid/DNA micelles in a non-polar solvent. <i>European Physical Journal E</i> , 2006 , 21, 41-8	1.5	8
29	Time-Resolved Study of Nanoparticle Induced Apoptosis Using Microfabricated Single Cell Arrays. <i>Microarrays (Basel, Switzerland)</i> , 2016 , 5,		8
28	Inducible microRNA-200c decreases motility of breast cancer cells and reduces filamin A. <i>PLoS ONE</i> , 2019 , 14, e0224314	3.7	8
27	Mutation G1629E Increases von Willebrand Factor Cleavage via a Cooperative Destabilization Mechanism. <i>Biophysical Journal</i> , 2017 , 112, 57-65	2.9	7
26	Tuning the Morphological Appearance of Iron(III) Fumarate: Impact on Material Characteristics and Biocompatibility. <i>Chemistry of Materials</i> , 2020 , 32, 2253-2263	9.6	7
25	Rapid Analysis of Cell-Nanoparticle Interactions using Single-Cell Raman Trapping Microscopy. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4946-4950	16.4	7
24	Chip-based platform for dynamic analysis of NK cell cytotoxicity mediated by a triplebody. <i>Analyst, The</i> , 2016 , 141, 2284-95	5	7
23	DNA binds to a specific site of the adhesive blood-protein von Willebrand factor guided by electrostatic interactions. <i>Nucleic Acids Research</i> , 2020 , 48, 7333-7344	20.1	6
22	Cell motility on polyethylene glycol block copolymers correlates to fibronectin surface adsorption. <i>Macromolecular Bioscience</i> , 2014 , 14, 1755-63	5.5	6
21	On shape transformations and shape fluctuations of cellular compartments and vesicles. <i>Physica Scripta</i> , 1993 , T49A, 111-118	2.6	6
20	Evidence for interleaflet slip during spreading of single lipid bilayers at hydrophilic solids. <i>ChemPhysChem</i> , 2009 , 10, 2787-90	3.2	5
19	Microelectrophoresis in a laser trap: a platform for measuring electrokinetic interactions and flow properties within microstructures. <i>Review of Scientific Instruments</i> , 2009 , 80, 073704	1.7	5

18	Improving Quality in Nanoparticle-Induced Cytotoxicity Testing by a Tiered Inter-Laboratory Comparison Study. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
17	Interference Disturbance Analysis Enables Single-Cell Level Growth and Mobility Characterization for Rapid Antimicrobial Susceptibility Testing. <i>Nano Letters</i> , 2019 , 19, 643-651	11.5	5
16	Single Cell Microarrays Fabricated by Microscale Plasma-Initiated Protein Patterning (BIPP). <i>Methods in Molecular Biology</i> , 2018 , 1771, 41-54	1.4	4
15	Supported membranes on polyelectrolyte layers studied by X-ray reflectometry. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 3463-3467	1.6	4
14	Correlative two-color two-photon (2C2P) excitation STED microscopy. <i>Biomedical Optics Express</i> , 2019 , 10, 4516-4530	3.5	4
13	A microfluidic approach for sequential assembly of siRNA polyplexes with a defined structure-activity relationship ¹ , e1		4
12	On the adhesion-velocity relation and length adaptation of motile cells on stepped fibronectin lanes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
11	Quasi-periodic migration of single cells on short microlanes. <i>PLoS ONE</i> , 2020 , 15, e0230679	3.7	3
10	Marker-free detection of progenitor cell differentiation by analysis of Brownian motion in micro-wells. <i>Integrative Biology (United Kingdom)</i> , 2015 , 7, 178-83	3.7	3
9	A single-cell micro-trench platform for automatic monitoring of cell division and apoptosis after chemotherapeutic drug administration. <i>Scientific Reports</i> , 2018 , 8, 18042	4.9	3
8	Single-cell kinetics of siRNA-mediated mRNA degradation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 21, 102077	6	2
7	Rapid Analysis of Cell-Nanoparticle Interactions using Single-Cell Raman Trapping Microscopy. <i>Angewandte Chemie</i> , 2018 , 130, 5040-5044	3.6	2
6	Single-Cell Optical Distortion Correction and Label-Free 3D Cell Shape Reconstruction on Lattices of Nanostructures. <i>Nano Letters</i> , 2017 , 17, 8018-8023	11.5	2
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4	Probing the Interface Structure of Adhering Cells by Contrast Variation Neutron Reflectometry. <i>Langmuir</i> , 2019 , 35, 513-521	4	2
3	Peptide Self-Assembly Measured Using Fluorescence Correlation Spectroscopy. <i>Methods in Molecular Biology</i> , 2018 , 1777, 159-171	1.4	2
2	Controlling Nanoparticle Formulation: A Low-Budget Prototype for the Automation of a Microfluidic Platform. <i>Processes</i> , 2021 , 9, 129	2.9	2
1	Structure and Phasebehavior of Cationic-Lipid DNA Complexes 2001 , 441-460		1

