Friedrich C Simmel

List of Publications by Year
in descending order

170 papers	15,495 citations	25034 57 h-index	18130 120 g-index
209 all docs	209 docs citations	209 times ranked	12297 citing authors

#	Article	IF	Citations
1	A DNA-fuelled molecular machine made of DNA. Nature, 2000, 406, 605-608.	27.8	2,247
2	DNA-based self-assembly of chiral plasmonic nanostructures with tailored optical response. Nature, 2012, 483, 311-314.	27.8	1,868
3	Single-Molecule Kinetics and Super-Resolution Microscopy by Fluorescence Imaging of Transient Binding on DNA Origami. Nano Letters, 2010, 10, 4756-4761.	9.1	716
4	Synthetic Lipid Membrane Channels Formed by Designed DNA Nanostructures. Science, 2012, 338, 932-936.	12.6	659
5	Nucleic Acid Based Molecular Devices. Angewandte Chemie - International Edition, 2011, 50, 3124-3156.	13.8	527
6	Principles and Applications of Nucleic Acid Strand Displacement Reactions. Chemical Reviews, 2019, 119, 6326-6369.	47.7	506
7	DNA origami. Nature Reviews Methods Primers, 2021, 1, .	21.2	382
8	DNA Fuel for Free-Running Nanomachines. Physical Review Letters, 2003, 90, 118102.	7.8	338
9	A self-assembled nanoscale robotic arm controlled by electric fields. Science, 2018, 359, 296-301.	12.6	306
10	Distance Dependence of Single-Fluorophore Quenching by Gold Nanoparticles Studied on DNA Origami. ACS Nano, 2012, 6, 3189-3195.	14.6	274
11	DNA Origami as a Nanoscopic Ruler for Superâ€Resolution Microscopy. Angewandte Chemie - International Edition, 2009, 48, 8870-8873.	13.8	260
12	A DNA-Based Machine That Can Cyclically Bind and Release Thrombin. Angewandte Chemie - International Edition, 2004, 43, 3550-3553.	13.8	247
13	Anomalous Kondo Effect in a Quantum Dot at Nonzero Bias. Physical Review Letters, 1999, 83, 804-807.	7.8	228
14	DNA Nanodevices. Small, 2005, 1, 284-299.	10.0	225
15	Timing molecular motion and production with a synthetic transcriptional clock. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E784-93.	7.1	208
16	Diversity in the dynamical behaviour of a compartmentalized programmable biochemical oscillator. Nature Chemistry, 2014, 6, 295-302.	13.6	201
17	Switching the Conformation of a DNA Molecule with a Chemical Oscillator. Nano Letters, 2005, 5, 1894-1898.	9.1	200
18	Solving mazes with single-molecule DNA navigators. Nature Materials, 2019, 18, 273-279.	27.5	190

#	ARTICLE	IF	CITATIONS
19	Quantitative Analysis of Single Particle Trajectories: Mean Maximal Excursion Method. Biophysical Journal, 2010, 98, 1364-1372.	0.5	188
20	Molecular transport through large-diameter DNA nanopores. Nature Communications, 2016, 7, 12787.	12.8	160
21	Signalling and differentiation in emulsion-based multi-compartmentalized in vitro gene circuits. Nature Chemistry, 2019, 11, 32-39.	13.6	160
22	Surfaceâ€Assisted Largeâ€Scale Ordering of DNA Origami Tiles. Angewandte Chemie - International Edition, 2014, 53, 7665-7668.	13.8	152
23	Membrane-Assisted Growth of DNA Origami Nanostructure Arrays. ACS Nano, 2015, 9, 3530-3539.	14.6	151
24	Controlled Trapping and Release of Quantum Dots in a DNAâ€Switchable Hydrogel. Small, 2007, 3, 1688-1693.	10.0	148
25	Periodic DNA Nanotemplates Synthesized by Rolling Circle Amplification. Nano Letters, 2005, 5, 719-722.	9.1	146
26	DNA Nanostructures Interacting with Lipid Bilayer Membranes. Accounts of Chemical Research, 2014, 47, 1807-1815.	15.6	142
27	DNA-based nanodevices. Nano Today, 2007, 2, 36-41.	11.9	131
28	A large size-selective DNA nanopore with sensing applications. Nature Communications, 2019, 10, 5655.	12.8	126
29	Isothermal Assembly of DNA Origami Structures Using Denaturing Agents. Journal of the American Chemical Society, 2008, 130, 10062-10063.	13.7	123
30	Polyaniline nanowire synthesis templated by DNA. Nanotechnology, 2004, 15, 1524-1529.	2.6	117
31	A DNA-based molecular device switchable between three distinct mechanical states. Applied Physics Letters, 2002, 80, 883-885.	3.3	106
32	Using DNA to construct and power a nanoactuator. Physical Review E, 2001, 63, 041913.	2.1	104
33	A Surface-Bound DNA Switch Driven by a Chemical Oscillator. Angewandte Chemie - International Edition, 2006, 45, 5007-5010.	13.8	103
34	Long-range movement of large mechanically interlocked DNA nanostructures. Nature Communications, 2016, 7, 12414.	12.8	98
35	Hydrophobic Actuation of a DNA Origami Bilayer Structure. Angewandte Chemie - International Edition, 2014, 53, 4236-4239.	13.8	97
36	Statistics of conductance oscillations of a quantum dot in the Coulomb-blockade regime. Europhysics Letters, 1997, 38, 123-128.	2.0	96

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37	Switching the activity of Cas12a using guide RNA strand displacement circuits. Nature Communications, 2019, 10, 2092.	12.8	95
38	Threeâ€Dimensional Nanoconstruction with DNA. Angewandte Chemie - International Edition, 2008, 47, 5884-5887.	13.8	93
39	De novo-designed translation-repressing riboregulators for multi-input cellular logic. Nature Chemical Biology, 2019, 15, 1173-1182.	8.0	90
40	Transcriptional Control of DNA-Based Nanomachines. Nano Letters, 2004, 4, 689-691.	9.1	85
41	Towards biomedical applications for nucleic acid nanodevices. Nanomedicine, 2007, 2, 817-830.	3.3	85
42	DNA-based assembly lines and nanofactories. Current Opinion in Biotechnology, 2012, 23, 516-521.	6.6	85
43	DNA origami cryptography for secure communication. Nature Communications, 2019, 10, 5469.	12.8	84
44	Statistics of the Coulomb-blockade peak spacings of a silicon quantum dot. Physical Review B, 1999, 59, R10441-R10444.	3.2	83
45	Chemical communication between bacteria and cell-free gene expression systems within linear chains of emulsion droplets. Integrative Biology (United Kingdom), 2016, 8, 564-570.	1.3	83
46	Robustness of Localized DNA Strand Displacement Cascades. ACS Nano, 2014, 8, 8487-8496.	14.6	81
47	Single-Pair FRET Characterization of DNA Tweezers. Nano Letters, 2006, 6, 2814-2820.	9.1	78
48	A modular DNA signal translator for the controlled release of a protein by an aptamer. Nucleic Acids Research, 2006, 34, 1581-1587.	14.5	78
49	Communication and Computation by Bacteria Compartmentalized within Microemulsion Droplets. Journal of the American Chemical Society, 2014, 136, 72-75.	13.7	78
50	Towards synthetic cells using peptide-based reaction compartments. Nature Communications, 2018, 9, 3862.	12.8	75
51	Chains of semiconductor nanoparticles templated on DNA. Applied Physics Letters, 2004, 85, 633-635.	3.3	72
52	Quantum interference in a one-dimensional silicon nanowire. Physical Review B, 2003, 68, .	3.2	69
53	Structural DNA Nanotechnology: From Bases to Bricks, From Structure to Function. Journal of Physical Chemistry Letters, 2010, 1, 1994-2005.	4.6	63
54	Artificial Gelâ€Based Organelles for Spatial Organization of Cellâ€Free Gene Expression Reactions. Angewandte Chemie - International Edition, 2018, 57, 17245-17248.	13.8	63

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55	Electrotransfection of Polyamine Folded DNA Origami Structures. Nano Letters, 2016, 16, 6683-6690.	9.1	61
56	Fluorescent Nanocrystals as Colloidal Probes in Complex Fluids Measured by Fluorescence Correlation Spectroscopy. Small, 2005, 1, 997-1003.	10.0	60
57	Coulomb blockade in silicon nanostructures. Progress in Quantum Electronics, 2001, 25, 97-138.	7.0	59
58	DNA origami-based nanoribbons: assembly, length distribution, and twist. Nanotechnology, 2011, 22, 275301.	2.6	59
59	Comparison of four different particle sizing methods for siRNA polyplex characterization. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 84, 255-264.	4.3	55
60	Josephson junctions defined by a nanoplough. Applied Physics Letters, 1998, 73, 2051-2053.	3.3	54
61	Single Molecule Characterization of DNA Binding and Strand Displacement Reactions on Lithographic DNA Origami Microarrays. Nano Letters, 2014, 14, 1627-1633.	9.1	54
62	Electrophoretic Time-of-Flight Measurements of Single DNA Molecules with Two Stacked Nanopores. Nano Letters, 2011, 11, 5002-5007.	9.1	49
63	Diffusive Transport of Molecular Cargo Tethered to a DNA Origami Platform. Nano Letters, 2015, 15, 2693-2699.	9.1	46
64	Using Gene Regulation to Program DNA-Based Molecular Devices. Small, 2005, 1, 709-712.	10.0	45
65	Barcoded DNA origami structures for multiplexed optimization and enrichment of DNA-based protein-binding cavities. Nature Chemistry, 2020, 12, 852-859.	13.6	45
66	A low-cost fluorescence reader for in vitro transcription and nucleic acid detection with Cas13a. PLoS ONE, 2019, 14, e0220091.	2.5	44
67	DNA Origami as a Nanoscopic Ruler For Super-Resolution Microscopy. Biophysical Journal, 2010, 98, 184a.	0.5	43
68	Processive Motion of Bipedal DNA Walkers. ChemPhysChem, 2009, 10, 2593-2597.	2.1	42
69	Establishing Communication Between Artificial Cells. Chemistry - A European Journal, 2019, 25, 12659-12670.	3.3	42
70	Self-Assembled Active Plasmonic Waveguide with a Peptide-Based Thermomechanical Switch. ACS Nano, 2016, 10, 11377-11384.	14.6	40
71	Orthogonal Protein Assembly on DNA Nanostructures Using Relaxases. Angewandte Chemie - International Edition, 2016, 55, 4348-4352.	13.8	40
72	On-Chip Functionalization of Carbon Nanotubes with Photosystem I. Journal of the American Chemical Society, 2010, 132, 2872-2873.	13.7	37

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73	The optoelectronic properties of a photosystem Iâ€"carbon nanotube hybrid system. Nanotechnology, 2009, 20, 345701.	2.6	34
74	Nanopores Suggest a Negligible Influence of CpG Methylation on Nucleosome Packaging and Stability. Nano Letters, 2015, 15, 783-790.	9.1	32
75	Gene Expression on DNA Biochips Patterned with Strandâ€Displacement Lithography. Angewandte Chemie - International Edition, 2018, 57, 4783-4786.	13.8	27
76	Filamentation and restoration of normal growth in Escherichia coli using a combined CRISPRi sgRNA/antisense RNA approach. PLoS ONE, 2018, 13, e0198058.	2.5	27
77	Design Variations for an Aptamer-Based DNA Nanodevice. Journal of Biomedical Nanotechnology, 2005, 1, 96-101.	1.1	26
78	From DNA nanotechnology to synthetic biology. HFSP Journal, 2008, 2, 99-109.	2.5	25
79	DNA condensation in one dimension. Nature Nanotechnology, 2016, 11, 1076-1081.	31.5	24
80	Optimized Assembly of a Multifunctional RNA-Protein Nanostructure in a Cell-Free Gene Expression System. Nano Letters, 2018, 18, 2650-2657.	9.1	24
81	Assembly and melting of DNA nanotubes from single-sequence tiles. Journal of Physics Condensed Matter, 2009, 21, 034112.	1.8	23
82	Nanopore Force Spectroscopy of Aptamerâ€"Ligand Complexes. Biophysical Journal, 2013, 105, 1199-1207.	0.5	23
83	A synthetic tubular molecular transport system. Nature Communications, 2021, 12, 4393.	12.8	23
84	Cell-free production of personalized therapeutic phages targeting multidrug-resistant bacteria. Cell Chemical Biology, 2022, 29, 1434-1445.e7.	5.2	23
85	Programming the Dynamics of Biochemical Reaction Networks. ACS Nano, 2013, 7, 6-10.	14.6	22
86	A Compact DNA Cube with Side Length 10 nm. Small, 2015, 11, 5200-5205.	10.0	22
87	Single Cell Analysis of a Bacterial Sender-Receiver System. PLoS ONE, 2016, 11, e0145829.	2.5	21
88	Nanoscale imaging in DNA nanotechnology. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2012, 4, 66-81.	6.1	20
89	Enhanced Efficiency of an Enzyme Cascade on DNA-Activated Silica Surfaces. Langmuir, 2018, 34, 14780-14786.	3.5	20
90	Programming Diffusion and Localization of DNA Signals in 3Dâ€Printed DNAâ€Functionalized Hydrogels. Small, 2020, 16, e2001815.	10.0	20

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91	Nanopore Translocation and Force Spectroscopy Experiments in Microemulsion Droplets. Small, 2010, 6, 190-194.	10.0	19
92	Self-organizing materials built with DNA. MRS Bulletin, 2017, 42, 913-919.	3.5	19
93	Evaluation of an <i>E. coli</i> Cell Extract Prepared by Lysozymeâ€Assisted Sonication via Gene Expression, Phage Assembly and Proteomics. ChemBioChem, 2021, 22, 2805-2813.	2.6	19
94	Controlling DNA Polymerization with a Switchable Aptamer. ChemBioChem, 2007, 8, 1662-1666.	2.6	18
95	Quantitative Analysis of the Nanopore Translocation Dynamics of Simple Structured Polynucleotides. Biophysical Journal, 2012, 102, 85-95.	0.5	18
96	Controlling Gene Expression in Mammalian Cells Using Multiplexed Conditional Guide RNAs for Cas12a**. Angewandte Chemie - International Edition, 2021, 60, 23894-23902.	13.8	18
97	Towards molecular-scale electronics and biomolecular self-assembly. Superlattices and Microstructures, 2003, 33, 369-379.	3.1	17
98	Detection of lipid bilayer and peptide pore formation at gigahertz frequencies. Applied Physics Letters, 2006, 88, 013902.	3.3	17
99	Out-of-Plane Aptamer Functionalization of RNA Three-Helix Tiles. Nanomaterials, 2019, 9, 507.	4.1	17
100	A DNA Nanorobot Uprises against Cancer. Trends in Molecular Medicine, 2018, 24, 591-593.	6.7	16
101	Periodic Operation of a Dynamic DNA Origami Structure Utilizing the Hydrophilicâ€"Hydrophobic Phaseâ€Transition of Stimulusâ€Sensitive Polypeptides. Small, 2019, 15, 1903541.	10.0	16
102	Growth of Giant Peptide Vesicles Driven by Compartmentalized Transcriptionâ€"Translation Activity. Chemistry - A European Journal, 2020, 26, 17356-17360.	3.3	16
103	Controlling Chirality across Length Scales using DNA. Small, 2019, 15, e1805419.	10.0	15
104	Synthetic cellâ€"based materials extract positional information from morphogen gradients. Science Advances, 2022, 8, eabl9228.	10.3	15
105	Determination of DNA Melting Temperatures in Diffusion-Generated Chemical Gradients. Analytical Chemistry, 2007, 79, 5212-5216.	6.5	14
106	Bacterial Growth, Communication, and Guided Chemotaxis in 3D-Bioprinted Hydrogel Environments. ACS Applied Materials & Interfaces, 2022, 14, 15871-15880.	8.0	14
107	Spacing and width of Coulomb blockade peaks in a silicon quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 382-387.	2.7	13
108	Single Cell Characterization of a Synthetic Bacterial Clock with a Hybrid Feedback Loop Containing dCas9-sgRNA. ACS Synthetic Biology, 2020, 9, 3377-3387.	3.8	13

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109	Self-Propulsion Strategies for Artificial Cell-Like Compartments. Nanomaterials, 2019, 9, 1680.	4.1	12
110	Genetically Encoded Membranes for Bottomâ€Up Biology. ChemSystemsChem, 2019, 1, e1900016.	2.6	11
111	Emergence of Colloidal Patterns in ac Electric Fields. Physical Review Letters, 2022, 128, 058002.	7.8	11
112	Microwave spectroscopy on a double quantum dot with an on-chip Josephson oscillator. New Journal of Physics, 2000, 2, 2-2.	2.9	10
113	Operation Kinetics of a DNA-Based Molecular Switch. Journal of Nanoscience and Nanotechnology, 2002, 2, 383-390.	0.9	10
114	Kinetics of protein-release by an aptamer-based DNA nanodevice. European Physical Journal E, 2007, 22, 33-40.	1.6	10
115	Sequence-dependent unfolding kinetics of DNA hairpins studied by nanopore force spectroscopy. Journal of Physics Condensed Matter, 2010, 22, 454119.	1.8	10
116	Partitioning Variability of a Compartmentalized <i>In Vitro</i> Transcriptional Thresholding Circuit. ACS Synthetic Biology, 2015, 4, 1136-1143.	3.8	10
117	Preparative refolding of small monomeric outer membrane proteins. Protein Expression and Purification, 2017, 132, 171-181.	1.3	10
118	Synthetic organelles. Emerging Topics in Life Sciences, 2019, 3, 587-595.	2.6	10
119	Statistical measures for eigenfunctions of nonseparable quantum billiard systems. Physica D: Nonlinear Phenomena, 1996, 97, 517-530.	2.8	9
120	Nano-ploughed Josephson junctions as on-chip radiation sources. Superlattices and Microstructures, 1999, 25, 785-795.	3.1	9
121	Bacterial computing with engineered populations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140218.	3.4	9
122	Synthetic in vitro transcription circuits. Transcription, 2012, 3, 87-91.	3.1	8
123	Probing DNAâ€"Lipid Membrane Interactions with a Lipopeptide Nanopore. ACS Nano, 2012, 6, 3356-3363.	14.6	8
124	Building a Synthetic Transcriptional Oscillator. Methods in Molecular Biology, 2016, 1342, 185-199.	0.9	8
125	Riboswitch-inspired toehold riboregulators for gene regulation in <i>Escherichia coli</i>. Nucleic Acids Research, 2022, 50, 4784-4798.	14.5	8
126	Complex dynamics in a synchronized cell-free genetic clock. Nature Communications, 2022, 13, .	12.8	8

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127	Avoided crossings: Curvature distribution and behavior of eigenfunctions of pseudointegrable and chaotic billiards. Physical Review E, 1995, 51, 5435-5441.	2.1	7
128	Orthogonale Assemblierung von Proteinen auf DNAâ€Nanostrukturen mithilfe von Relaxasen. Angewandte Chemie, 2016, 128, 4421-4425.	2.0	7
129	Towards quantification and differentiation of protein aggregates and silicone oil droplets in the low micrometer and submicrometer size range by using oil-immersion flow imaging microscopy and convolutional neural networks. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 169, 97-102.	4.3	7
130	Transcriptional Interference in Toehold Switch-Based RNA Circuits. ACS Synthetic Biology, 2022, 11, 1735-1745.	3.8	7
131	Voltage-controlled insertion of single Î±-hemolysin and <i>Mycobacterium smegmatis</i> nanopores into lipid bilayer membranes. Applied Physics Letters, 2011, 98, .	3.3	6
132	KÃ¼nstliche, gelbasierte Organellen fÃ¼r die rÃumliche Organisation von zellfreien Genexpressionsreaktionen. Angewandte Chemie, 2018, 130, 17491-17495.	2.0	6
133	Small Antisense DNA-Based Gene Silencing Enables Cell-Free Bacteriophage Manipulation and Genome Replication. ACS Synthetic Biology, 2021, 10, 459-465.	3.8	6
134	Single DNA Origami Detection by Nanoimpact Electrochemistry. ChemElectroChem, 2022, 9, .	3.4	6
135	DNA origami â€" art, science, and engineering. Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences, 2012, 6, 3-9.	1.1	5
136	DNAâ€Nanotechnologie. Chemie in Unserer Zeit, 2013, 47, 164-173.	0.1	5
137	Probing whole cell currents in high-frequency electrical fields: Identification of thermal effects. Biosensors and Bioelectronics, 2008, 23, 872-878.	10.1	4
138	Wiring-up ion channels. Nature Physics, 2009, 5, 783-784.	16.7	4
139	Synthesis and Application of Functional Nucleic Acids. Journal of Nucleic Acids, 2011, 2011, 1-2.	1.2	4
140	Crowded genes perform differently. Nature Nanotechnology, 2013, 8, 545-546.	31.5	4
141	Synthetic Lipid Membrane Channels formed by Designed DNA Nanostructures. Biophysical Journal, 2013, 104, 545a.	0.5	4
142	Deadly DNA. Nature Chemistry, 2015, 7, 17-18.	13.6	4
143	Nanostructure evolution. Nature Materials, 2017, 16, 974-976.	27.5	4
144	Genexpression auf DNAâ€Biochips: Strukturierung durch StrangverdrÃngungsâ€Lithographie. Angewandte Chemie, 2018, 130, 4873-4876.	2.0	4

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145	Assembly and Microscopic Characterization of DNA Origami Structures. Advances in Experimental Medicine and Biology, 2012, 733, 87-96.	1.6	3
146	Kontrolle von Genexpression in SÃugetierzellen mithilfe von parallel schaltbaren Guideâ€RNAs fÃ¼r Cas12a**. Angewandte Chemie, 0, , .	2.0	2
147	Operation of a Purified DNA Nanoactuator. Lecture Notes in Computer Science, 2002, , 248-257.	1.3	2
148	Tiny robots made from biomolecules. Europhysics News, 2022, 53, 24-27.	0.3	2
149	<title>DNA molecular motors</title>. , 2001, , .		1
150	A pore-Cavity-Pore Device to Trap and Investigate Single Nano-Scale Objects in Femto-Liter Compartments: Confined Diffusion and Narrow Escape. Biophysical Journal, 2011, 100, 522a.	0.5	1
151	Molecular Transport through Large Diameter DNA Origami Channels. Biophysical Journal, 2017, 112, 416a.	0.5	1
152	In Vesiculo Synthesis of Peptide Membrane Precursors for Autonomous Vesicle Growth. Journal of Visualized Experiments, 2019, , .	0.3	1
153	Genetically Encoded Membranes for Bottomâ€Up Biology. ChemSystemsChem, 2019, 1, e1900055.	2.6	1
154	Protocols for Self-Assembly and Imaging of DNA Nanostructures. Methods in Molecular Biology, 2011, 749, 13-32.	0.9	1
155	Controlled Release of Thrombin Using Aptamer-Based Nanodevices. Advances in Science and Technology, 2006, 53, 116-121.	0.2	0
156	Towards <i>In Vivo</i> Nanomachines. Advances in Science and Technology, 0, , .	0.2	0
157	Artificial molecular switches made from DNA. Nucleic Acids Symposium Series, 2008, 52, 17-18.	0.3	0
158	Nanopore Translocation Experiments in Microemulsion Droplets. Biophysical Journal, 2010, 98, 600a-601a.	0.5	0
159	DNA Nanostructures for Electrophysiology. Biophysical Journal, 2013, 104, 517a-518a.	0.5	0
160	Nanopore Force Spectroscopy on Nucleic Acid Structures & their Target Complexes using Biological and Synthetic Ion Channels. Biophysical Journal, 2013, 104, 521a.	0.5	0
161	Real Time Actuation of a DNA Based Robotic Arm. Biophysical Journal, 2018, 114, 693a.	0.5	0
162	Functional Surface-immobilization of Genes Using Multistep Strand Displacement Lithography. Journal of Visualized Experiments, 2018, , .	0.3	0

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163	Frontispiece: Establishing Communication Between Artificial Cells. Chemistry - A European Journal, 2019, 25, .	3.3	0
164	Biomedical Applications for Nucleic Acid Nanodevices. , 2013, , 329-348.		0
165	Photon-induced transport through mesoscopic structures using nano-ploughed Josephson junctions. , 1999, , .		0
166	Artificial Organelles. , 2022, , 1-3.		0
167	A low-cost fluorescence reader for in vitro transcription and nucleic acid detection with Cas13a. , 2019, 14, e0220091.		0
168	A low-cost fluorescence reader for in vitro transcription and nucleic acid detection with Cas13a. , 2019, 14, e0220091.		0
169	A low-cost fluorescence reader for in vitro transcription and nucleic acid detection with Cas13a. , 2019, 14, e0220091.		0
170	A low-cost fluorescence reader for in vitro transcription and nucleic acid detection with Cas13a. , 2019, 14, e0220091.		0