

Hendrik Dietz

List of Publications by Year in descending order

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86
papers

12,687
citations

61984

43
h-index

48315

88
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93
all docs

93
docs citations

93
times ranked

7900
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic virions reveal fatty acid-coupled adaptive immunogenicity of SARS-CoV-2 spike glycoprotein. <i>Nature Communications</i> , 2022, 13, 868.	12.8	20
2	Phage-free production of artificial ssDNA with <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2022, 119, 2878-2889.	3.3	7
3	Reversible membrane deformations by straight DNA origami filaments. <i>Soft Matter</i> , 2021, 17, 276-287.	2.7	38
4	Cryo-Electron Microscopy and Mass Analysis of Oligolysine-Coated DNA Nanostructures. <i>ACS Nano</i> , 2021, 15, 9391-9403.	14.6	18
5	Membrane Remodeling by DNA Origami Nanorods: Experiments Exploring the Parameter Space for Vesicle Remodeling. <i>Langmuir</i> , 2021, 37, 6219-6231.	3.5	5
6	Advancing Biophysics Using DNA Origami. <i>Annual Review of Biophysics</i> , 2021, 50, 469-492.	10.0	36
7	Reconstitution of Ultrawide DNA Origami Pores in Liposomes for Transmembrane Transport of Macromolecules. <i>ACS Nano</i> , 2021, 15, 12768-12779.	14.6	44
8	Programmable icosahedral shell system for virus trapping. <i>Nature Materials</i> , 2021, 20, 1281-1289.	27.5	116
9	A synthetic tubular molecular transport system. <i>Nature Communications</i> , 2021, 12, 4393.	12.8	23
10	Nanopore electro-osmotic trap for the label-free study of single proteins and their conformations. <i>Nature Nanotechnology</i> , 2021, 16, 1244-1250.	31.5	67
11	A nanoscale reciprocating rotary mechanism with coordinated mobility control. <i>Nature Communications</i> , 2021, 12, 7138.	12.8	14
12	Antigen-Triggered Logic-Gating of DNA Nanodevices. <i>Journal of the American Chemical Society</i> , 2021, 143, 21630-21636.	13.7	26
13	Dynamic Vesicles Formed By Dissipative Self-Assembly. <i>ChemSystemsChem</i> , 2020, 2, e1900044.	2.6	53
14	Building machines with DNA molecules. <i>Nature Reviews Genetics</i> , 2020, 21, 5-26.	16.3	198
15	Biphasic Packing of DNA and Internal Proteins in Bacteriophage T4 Heads Revealed by Bubblegram Imaging. <i>Viruses</i> , 2020, 12, 1282.	3.3	2
16	Reciprocal Coupling in Chemically Fueled Assembly: A Reaction Cycle Regulates Self-Assembly and Vice Versa. <i>Journal of the American Chemical Society</i> , 2020, 142, 20837-20844.	13.7	42
17	Revealing the structures of megadalton-scale DNA complexes with nucleotide resolution. <i>Nature Communications</i> , 2020, 11, 6229.	12.8	43
18	Thermoresponsive Molecular Brushes with Propylene Oxide/Ethylene Oxide Copolymer Side Chains in Aqueous Solution. <i>Macromolecules</i> , 2020, 53, 4068-4081.	4.8	10

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19	Reversible Covalent Stabilization of Stacking Contacts in DNA Assemblies. <i>Angewandte Chemie</i> , 2019, 131, 2706-2710.	2.0	11
20	Reversible Covalent Stabilization of Stacking Contacts in DNA Assemblies. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2680-2684.	13.8	39
21	Cellular uptake of self-assembled phytantriol-based hexosomes is independent of major endocytic machineries. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 820-833.	9.4	21
22	Iron-Sequestering Nanocompartments as Multiplexed Electron Microscopy Gene Reporters. <i>ACS Nano</i> , 2019, 13, 8114-8123.	14.6	33
23	The sequence of events during folding of a DNA origami. <i>Science Advances</i> , 2019, 5, eaaw1412.	10.3	43
24	Custom-Size, Functional, and Durable DNA Origami with Design-Specific Scaffolds. <i>ACS Nano</i> , 2019, 13, 5015-5027.	14.6	103
25	Quantification of the three-dimensional nanoparticle distribution in polymer nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2019, 26, 601-609.	2.9	9
26	Dissecting FOXP2 Oligomerization and DNA Binding. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7662-7667.	13.8	26
27	Tailored Peptide Phenyl Esters Block ClpXP Proteolysis by an Unusual Breakdown into a Heptamer-Hexamer Assembly. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7127-7132.	13.8	10
28	Dissecting FOXP2 Oligomerization and DNA Binding. <i>Angewandte Chemie</i> , 2019, 131, 7744-7749.	2.0	6
29	High Bandwidth Sensing of Single Protein Dynamics using Nanopores and DNA Origami. <i>Biophysical Journal</i> , 2019, 116, 341a-342a.	0.5	1
30	Membrane sculpting by curved DNA origami scaffolds. <i>Nature Communications</i> , 2018, 9, 811.	12.8	173
31	DNA origami scaffold for studying intrinsically disordered proteins of the nuclear pore complex. <i>Nature Communications</i> , 2018, 9, 902.	12.8	109
32	Time-Resolved Small-Angle X-ray Scattering Reveals Millisecond Transitions of a DNA Origami Switch. <i>Nano Letters</i> , 2018, 18, 2672-2676.	9.1	42
33	Immune responses induced by nano-self-assembled lipid adjuvants based on a monomycoloyl glycerol analogue after vaccination with the <i>Chlamydia trachomatis</i> major outer membrane protein. <i>Journal of Controlled Release</i> , 2018, 285, 12-22.	9.9	17
34	Tethered multifluorophore motion reveals equilibrium transition kinetics of single DNA double helices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7512-E7521.	7.1	33
35	Structure and mechanism of the two-component \pm -helical pore-forming toxin YaxAB. <i>Nature Communications</i> , 2018, 9, 1806.	12.8	46
36	Sequence-programmable covalent bonding of designed DNA assemblies. <i>Science Advances</i> , 2018, 4, eaau1157.	10.3	174

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37	Molecular engineering of chiral colloidal liquid crystals using DNA origami. <i>Nature Materials</i> , 2017, 16, 849-856.	27.5	85
38	Self-assembly of genetically encoded DNA-protein hybrid nanoscale shapes. <i>Science</i> , 2017, 355, .	12.6	137
39	Single-Molecule Observation of the Photoregulated Conformational Dynamics of DNA Origami Nanoscissors. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15324-15328.	13.8	63
40	How We Make DNA Origami. <i>ChemBioChem</i> , 2017, 18, 1873-1885.	2.6	134
41	DNA origami devices for molecular-scale precision measurements. <i>MRS Bulletin</i> , 2017, 42, 925-929.	3.5	27
42	Specific growth rate and multiplicity of infection affect high-cell-density fermentation with bacteriophage M13 for ssDNA production. <i>Biotechnology and Bioengineering</i> , 2017, 114, 777-784.	3.3	32
43	Biotechnological mass production of DNA origami. <i>Nature</i> , 2017, 552, 84-87.	27.8	374
44	Gigadalton-scale shape-programmable DNA assemblies. <i>Nature</i> , 2017, 552, 78-83.	27.8	350
45	Conformational Changes and Flexibility of DNA Devices Observed by Small-Angle X-ray Scattering. <i>Nano Letters</i> , 2016, 16, 4871-4879.	9.1	33
46	Uncovering the forces between nucleosomes using DNA origami. <i>Science Advances</i> , 2016, 2, e1600974.	10.3	179
47	Nanoscale rotary apparatus formed from tight-fitting 3D DNA components. <i>Science Advances</i> , 2016, 2, e1501209.	10.3	138
48	Impact of Heterogeneity and Lattice Bond Strength on DNA Triangle Crystal Growth. <i>ACS Nano</i> , 2016, 10, 9156-9164.	14.6	31
49	Single-molecule dissection of stacking forces in DNA. <i>Science</i> , 2016, 353, .	12.6	180
50	Characterization of Lipid-Based Hexosomes as Versatile Vaccine Carriers. <i>Molecular Pharmaceutics</i> , 2016, 13, 3945-3954.	4.6	31
51	Exploring Nucleosome Unwrapping Using DNA Origami. <i>Nano Letters</i> , 2016, 16, 7891-7898.	9.1	52
52	Molecular transport through large-diameter DNA nanopores. <i>Nature Communications</i> , 2016, 7, 12787.	12.8	160
53	Design of a molecular support for cryo-EM structure determination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7456-E7463.	7.1	93
54	Placing molecules with Bohr radius resolution using DNA origami. <i>Nature Nanotechnology</i> , 2016, 11, 47-52.	31.5	175

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55	Efficient Production of Single-Stranded Phage DNA as Scaffolds for DNA Origami. <i>Nano Letters</i> , 2015, 15, 4672-4676.	9.1	100
56	Velocity of DNA during Translocation through a Solid-State Nanopore. <i>Nano Letters</i> , 2015, 15, 732-737.	9.1	98
57	Dielectrophoretic trapping of multilayer DNA origami nanostructures and DNA origami-induced local destruction of silicon dioxide. <i>Electrophoresis</i> , 2015, 36, 255-262.	2.4	31
58	Nucleosome Spacing Generated by ISWI and CHD1 Remodelers Is Constant Regardless of Nucleosome Density. <i>Molecular and Cellular Biology</i> , 2015, 35, 1588-1605.	2.3	52
59	Exploiting shape complementarity. <i>Nature Materials</i> , 2015, 14, 752-754.	27.5	3
60	Dynamic DNA devices and assemblies formed by shape-complementary, non-C base pairing 3D components. <i>Science</i> , 2015, 347, 1446-1452.	12.6	577
61	Nanoscale cable tacking. <i>Nature Nanotechnology</i> , 2015, 10, 829-830.	31.5	3
62	Facile and Scalable Preparation of Pure and Dense DNA Origami Solutions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12735-12740.	13.8	220
63	Quantifying quality in DNA self-assembly. <i>Nature Communications</i> , 2014, 5, 3691.	12.8	37
64	Ionic Permeability and Mechanical Properties of DNA Origami Nanoplates on Solid-State Nanopores. <i>ACS Nano</i> , 2014, 8, 35-43.	14.6	78
65	Facile and Scalable Preparation of Pure and Dense DNA Origami Solutions. <i>Angewandte Chemie</i> , 2014, 126, 12949-12954.	2.0	41
66	Synthetic Lipid Membrane Channels formed by Designed DNA Nanostructures. <i>Biophysical Journal</i> , 2013, 104, 545a.	0.5	4
67	The enabled state of DNA nanotechnology. <i>Current Opinion in Biotechnology</i> , 2013, 24, 555-561.	6.6	152
68	Rigid DNA Beams for High-Resolution Single-Molecule Mechanics. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7766-7771.	13.8	104
69	Quantitative prediction of 3D solution shape and flexibility of nucleic acid nanostructures. <i>Nucleic Acids Research</i> , 2012, 40, 2862-2868.	14.5	327
70	Rapid Folding of DNA into Nanoscale Shapes at Constant Temperature. <i>Science</i> , 2012, 338, 1458-1461.	12.6	252
71	Cryo-EM structure of a 3D DNA-origami object. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20012-20017.	7.1	219
72	DNA Origami Gatekeepers for Solid-State Nanopores. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4864-4867.	13.8	168

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73	Synthetic Lipid Membrane Channels Formed by Designed DNA Nanostructures. <i>Science</i> , 2012, 338, 932-936.	12.6	659
74	Magnesium-free self-assembly of multi-layer DNA objects. <i>Nature Communications</i> , 2012, 3, 1103.	12.8	147
75	A primer to scaffolded DNA origami. <i>Nature Methods</i> , 2011, 8, 221-229.	19.0	824
76	Self-assembly of DNA into nanoscale three-dimensional shapes. <i>Nature</i> , 2009, 459, 414-418.	27.8	2,222
77	Folding DNA into Twisted and Curved Nanoscale Shapes. <i>Science</i> , 2009, 325, 725-730.	12.6	1,189
78	Programming protein self assembly with coiled coils. <i>New Journal of Physics</i> , 2007, 9, 424-424.	2.9	9
79	Detecting Molecular Fingerprints in Single Molecule Force Spectroscopy Using Pattern Recognition. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 5540.	1.5	12
80	Revealing the bifurcation in the unfolding pathways of GFP by using single-molecule experiments and simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 20268-20273.	7.1	145
81	Controlled Trapping and Release of Quantum Dots in a DNA-switchable Hydrogel. <i>Small</i> , 2007, 3, 1688-1693.	10.0	148
82	Cysteine engineering of polyproteins for single-molecule force spectroscopy. <i>Nature Protocols</i> , 2006, 1, 80-84.	12.0	71
83	Protein structure by mechanical triangulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1244-1247.	7.1	162
84	Anisotropic deformation response of single protein molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12724-12728.	7.1	280
85	Covalent immobilization of recombinant fusion proteins with hAGT for single molecule force spectroscopy. <i>European Biophysics Journal</i> , 2005, 35, 72-78.	2.2	47
86	Exploring the energy landscape of GFP by single-molecule mechanical experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16192-16197.	7.1	321