

Kerstin Gäßpfrich

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,934
citations

361413

20
h-index

302126

39
g-index

54
all docs

54
docs citations

54
times ranked

1567
citing authors

#	ARTICLE	IF	CITATIONS
1	Mastering Complexity: Towards Bottom-up Construction of Multifunctional Eukaryotic Synthetic Cells. Trends in Biotechnology, 2018, 36, 938-951.	9.3	205
2	Lipid-Bilayer-Spanning DNA Nanopores with a Bifunctional Porphyrin Anchor. Angewandte Chemie - International Edition, 2013, 52, 12069-12072.	13.8	190
3	Large-Conductance Transmembrane Porin Made from DNA Origami. ACS Nano, 2016, 10, 8207-8214.	14.6	171
4	DNA-Tile Structures Induce Ionic Currents through Lipid Membranes. Nano Letters, 2015, 15, 3134-3138.	9.1	125
5	Ion Channels Made from a Single Membrane-Spanning DNA Duplex. Nano Letters, 2016, 16, 4665-4669.	9.1	124
6	DNA Origami Nanopores for Controlling DNA Translocation. ACS Nano, 2013, 7, 6024-6030.	14.6	118
7	Bilayer-Spanning DNA Nanopores with Voltage-Switching between Open and Closed State. ACS Nano, 2015, 9, 1117-1126.	14.6	118
8	One-Pot Assembly of Complex Giant Unilamellar Vesicle-Based Synthetic Cells. ACS Synthetic Biology, 2019, 8, 937-947.	3.8	114
9	A synthetic enzyme built from DNA flips 107 lipids per second in biological membranes. Nature Communications, 2018, 9, 2426.	12.8	101
10	Division and Regrowth of Phase-Separated Giant Unilamellar Vesicles**. Angewandte Chemie - International Edition, 2021, 60, 10661-10669.	13.8	66
11	Charge-controlled microfluidic formation of lipid-based single- and multicompartiment systems. Lab on A Chip, 2018, 18, 2665-2674.	6.0	63
12	Controlling aggregation of cholesterol-modified DNA nanostructures. Nucleic Acids Research, 2019, 47, 11441-11451.	14.5	60
13	Functional DNA-based cytoskeletons for synthetic cells. Nature Chemistry, 2022, 14, 958-963.	13.6	55
14	Bottom-Up Assembly of Synthetic Cells with a DNA Cytoskeleton. ACS Nano, 2022, 16, 7233-7241.	14.6	38
15	Programmable Functionalization of Surfactant-Stabilized Microfluidic Droplets via DNA-Tags. Advanced Functional Materials, 2019, 29, 1808647.	14.9	34
16	Proton gradients from light-harvesting E. coli control DNA assemblies for synthetic cells. Nature Communications, 2021, 12, 3967.	12.8	32
17	Lipid-Bilayer-Spanning DNA Nanopores with a Bifunctional Porphyrin Anchor. Angewandte Chemie, 2013, 125, 12291-12294.	2.0	28
18	Building a community to engineer synthetic cells and organelles from the bottom-up. ELife, 2021, 10, .	6.0	27

#	ARTICLE	IF	CITATIONS
19	Dynamic Actuation of DNA-Assembled Plasmonic Nanostructures in Microfluidic Cell-Sized Compartments. <i>Nano Letters</i> , 2020, 20, 1571-1577.	9.1	26
20	Two-Photon 3D Laser Printing Inside Synthetic Cells. <i>Advanced Materials</i> , 2022, 34, e2106709.	21.0	25
21	Lipid Nanobilayers to Host Biological Nanopores for DNA Translocations. <i>Langmuir</i> , 2013, 29, 355-364.	3.5	24
22	Light-Triggered Cargo Loading and Division of DNA-Containing Giant Unilamellar Lipid Vesicles. <i>Nano Letters</i> , 2021, 21, 5952-5957.	9.1	24
23	Choice of fluorophore affects dynamic DNA nanostructures. <i>Nucleic Acids Research</i> , 2021, 49, 4186-4195.	14.5	20
24	Functionalization of Cellular Membranes with DNA Nanotechnology. <i>Trends in Biotechnology</i> , 2021, 39, 1208-1220.	9.3	19
25	DNA-Based Assembly of Multi-Compartment Polymersome Networks. <i>Advanced Functional Materials</i> , 2020, 30, 2003480.	14.9	18
26	Engineering Light-Responsive Contractile Actomyosin Networks with DNA Nanotechnology. <i>Advanced Biology</i> , 2020, 4, 2000102.	3.0	17
27	Evolution and Single-Droplet Analysis of Fuel-Driven Compartments by Droplet-Based Microfluidics. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	15
28	Droplet-Based Combinatorial Assay for Cell Cytotoxicity and Cytokine Release Evaluation. <i>Advanced Functional Materials</i> , 2020, 30, 2003479.	14.9	12
29	Division and Regrowth of Phase-Separated Giant Unilamellar Vesicles**. <i>Angewandte Chemie</i> , 2021, 133, 10756-10764.	2.0	10
30	Tuning Epithelial Cell-Cell Adhesion and Collective Dynamics with Functional DNA-E-Cadherin Hybrid Linkers. <i>Nano Letters</i> , 2022, 22, 302-310.	9.1	9
31	Autonomous Directional Motion of Actin-Containing Cell-Sized Droplets. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000190.	6.1	8
32	Electrocoalescence of Water-in-Oil Droplets with a Continuous Aqueous Phase: Implementation of Controlled Content Release. <i>ACS Omega</i> , 2020, 5, 7529-7536.	3.5	7
33	DNA Nanotechnology for Building Sensors, Nanopores and Ion-Channels. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1174, 331-370.	1.6	6
34	Printing and Erasing of DNA-Based Photoresists Inside Synthetic Cells. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	6
35	Evolution and Single-Droplet Analysis of Fuel-Driven Compartments by Droplet-Based Microfluidics. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	6
36	Nondeterministic self-assembly with asymmetric interactions. <i>Physical Review E</i> , 2016, 94, 022404.	2.1	4

#	ARTICLE	IF	CITATIONS
37	Ring-a-Scientist – der direkte Draht ins Labor. BioSpektrum, 2018, 24, 463-463.	0.0	1
38	Design and Assembly of Membrane-Spanning DNA Nanopores. Methods in Molecular Biology, 2021, 2186, 33-48.	0.9	1
39	Actomyosin-Assisted Pulling of Lipid Nanotubes from Lipid Vesicles and Cells. Nano Letters, 2022, 22, 1145-1150.	9.1	1
40	Membrane-Spanning DNA Nanopores. Biomimetic Chemical Structures for Single-Molecule Research and Nanotechnology. Biophysical Journal, 2014, 106, 632a.	0.5	0
41	From Ion-Channels to Porins: Engineering DNA-Based Synthetic Counterparts. Biophysical Journal, 2016, 110, 351a.	0.5	0
42	Outperforming Nature: Synthetic Enzyme Built from DNA Flips Lipids of Biological Membranes at Record Rates. Biophysical Journal, 2018, 114, 15a.	0.5	0
43	Forschende im Klassenzimmer – live per Webcam. Biologie in Unserer Zeit, 2019, 49, 155-155.	0.2	0
44	DNA Nanotechnology: Engineering Light-Responsive Contractile Actomyosin Networks with DNA Nanotechnology (Adv. Biosys. 9/2020). Advanced Biology, 2020, 4, 2070093.	3.0	0