

# Tobias Pirzer

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

910  
citations

567281

15  
h-index

610901

24  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1345  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface-Assisted Large-Scale Ordering of DNA Origami Tiles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7665-7668.	13.8	152
2	Peptide adsorption on a hydrophobic surface results from an interplay of solvation, surface, and intrapeptide forces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 2842-2847.	7.1	147
3	Towards synthetic cells using peptide-based reaction compartments. <i>Nature Communications</i> , 2018, 9, 3862.	12.8	75
4	On the Relationship between Peptide Adsorption Resistance and Surface Contact Angle: A Combined Experimental and Simulation Single-Molecule Study. <i>Journal of the American Chemical Society</i> , 2012, 134, 19628-19638.	13.7	72
5	Polymer Carpets. <i>Small</i> , 2010, 6, 1623-1630.	10.0	59
6	Hydrophobic and Hofmeister Effects on the Adhesion of Spider Silk Proteins onto Solid Substrates: An AFM-Based Single-Molecule Study. <i>Langmuir</i> , 2008, 24, 1350-1355.	3.5	55
7	Atomic force microscopy spring constant determination in viscous liquids. <i>Review of Scientific Instruments</i> , 2009, 80, 035110.	1.3	52
8	Diffusive Transport of Molecular Cargo Tethered to a DNA Origami Platform. <i>Nano Letters</i> , 2015, 15, 2693-2699.	9.1	46
9	Self-Assembled Active Plasmonic Waveguide with a Peptide-Based Thermomechanical Switch. <i>ACS Nano</i> , 2016, 10, 11377-11384.	14.6	40
10	Orthogonal Protein Assembly on DNA Nanostructures Using Relaxases. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4348-4352.	13.8	40
11	Single molecule force measurements delineate salt, pH and surface effects on biopolymer adhesion. <i>Physical Biology</i> , 2009, 6, 025004.	1.8	33
12	Enhanced Efficiency of an Enzyme Cascade on DNA-Activated Silica Surfaces. <i>Langmuir</i> , 2018, 34, 14780-14786.	3.5	20
13	Periodic Operation of a Dynamic DNA Origami Structure Utilizing the Hydrophilic-Hydrophobic Phase Transition of Stimulus-Sensitive Polypeptides. <i>Small</i> , 2019, 15, 1903541.	10.0	16
14	Growth of Giant Peptide Vesicles Driven by Compartmentalized Transcription-Translation Activity. <i>Chemistry - A European Journal</i> , 2020, 26, 17356-17360.	3.3	16
15	Adsorption Mechanism of Polypeptides and Their Location at Hydrophobic Interfaces. <i>ChemPhysChem</i> , 2009, 10, 2795-2799.	2.1	15
16	Genetically Encoded Membranes for Bottom-Up Biology. <i>ChemSystemsChem</i> , 2019, 1, e1900016.	2.6	11
17	Magnetic Drug Targeting as New Therapeutic Option for the Treatment of Biomaterial Infections. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 2321-2336.	3.5	10
18	Imbibition of polystyrene melts in aligned carbon nanotube arrays. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	10

#	ARTICLE	IF	CITATIONS
19	Measuring the interaction between ions, biopolymers and interfaces “one polymer at a time. Faraday Discussions, 2013, 160, 329-340.	3.2	7
20	Orthogonale Assemblierung von Proteinen auf DNA-Nanostrukturen mithilfe von Relaxasen. Angewandte Chemie, 2016, 128, 4421-4425.	2.0	7
21	Small Antisense DNA-Based Gene Silencing Enables Cell-Free Bacteriophage Manipulation and Genome Replication. ACS Synthetic Biology, 2021, 10, 459-465.	3.8	6
22	In Vesiculo Synthesis of Peptide Membrane Precursors for Autonomous Vesicle Growth. Journal of Visualized Experiments, 2019, , .	0.3	1
23	Genetically Encoded Membranes for Bottom-Up Biology. ChemSystemsChem, 2019, 1, e1900055.	2.6	1
24	Polymeric materials: Polymer Carpets (Small 15/2010). Small, 2010, 6, n/a-n/a.	10.0	0