

Jonathan Bath

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

4,115
citations

26
h-index

49
g-index

49
ext. papers

4,533
ext. citations

15.8
avg, IF

5.53
L-index

#	Paper	IF	Citations
47	A DNA molecular printer capable of programmable positioning and patterning in two dimensions.. <i>Science Robotics</i> , 2022 , 7, eabn5459	18.6	1
46	Strategies for Constructing and Operating DNA Origami Linear Actuators. <i>Small</i> , 2021 , 17, e2007704	11	3
45	DNA origami signposts for identifying proteins on cell membranes by electron cryotomography. <i>Cell</i> , 2021 , 184, 1110-1121.e16	56.2	11
44	Reconfigurable T-junction DNA Origami. <i>Angewandte Chemie</i> , 2020 , 132, 16076-16080	3.6	
43	Reconfigurable T-junction DNA Origami. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15942-15946	16.4	0
42	Design of hidden thermodynamic driving for non-equilibrium systems via mismatch elimination during DNA strand displacement. <i>Nature Communications</i> , 2020 , 11, 2562	17.4	31
41	Controlling the Bioreceptor Spatial Distribution at the Nanoscale for Single Molecule Counting in Microwell Arrays. <i>ACS Sensors</i> , 2019 , 4, 2327-2335	9.2	5
40	Peptide Assembly Directed and Quantified Using Megadalton DNA Nanostructures. <i>ACS Nano</i> , 2019 , 13, 9927-9935	16.7	28
39	Chiral DNA Origami Nanotubes with Well-Defined and Addressable Inside and Outside Surfaces. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7687-7690	16.4	18
38	Chiral DNA Origami Nanotubes with Well-Defined and Addressable Inside and Outside Surfaces. <i>Angewandte Chemie</i> , 2018 , 130, 7813-7816	3.6	6
37	Dimensions and Global Twist of Single-Layer DNA Origami Measured by Small-Angle X-ray Scattering. <i>ACS Nano</i> , 2018 , 12, 5791-5799	16.7	25
36	An autonomous molecular assembler for programmable chemical synthesis. <i>Nature Chemistry</i> , 2016 , 8, 542-8	17.6	103
35	Guiding the folding pathway of DNA origami. <i>Nature</i> , 2015 , 525, 82-6	50.4	110
34	Modelling DNA origami self-assembly at the domain level. <i>Journal of Chemical Physics</i> , 2015 , 143, 165103	3.9	20
33	Programmable energy landscapes for kinetic control of DNA strand displacement. <i>Nature Communications</i> , 2014 , 5, 5324	17.4	121
32	A clocked finite state machine built from DNA. <i>Chemical Communications</i> , 2013 , 49, 237-9	5.8	20
31	Combinatorial displacement of DNA strands: application to matrix multiplication and weighted sums. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1189-92	16.4	59

30	Combinatorial Displacement of DNA Strands: Application to Matrix Multiplication and Weighted Sums. <i>Angewandte Chemie</i> , 2013 , 125, 1227-1230	3.6	7
29	Optimizing DNA nanotechnology through coarse-grained modeling: a two-footed DNA walker. <i>ACS Nano</i> , 2013 , 7, 2479-90	16.7	78
28	Molecular machinery built from DNA 2013 ,		1
27	Sequence-specific synthesis of macromolecules using DNA-templated chemistry. <i>Chemical Communications</i> , 2012 , 48, 5614-6	5.8	67
26	Small molecule signals that direct the route of a molecular cargo. <i>Small</i> , 2012 , 8, 3593-7	11	26
25	A DNA-based molecular motor that can navigate a network of tracks. <i>Nature Nanotechnology</i> , 2012 , 7, 169-73	28.7	286
24	Programmable one-pot multistep organic synthesis using DNA junctions. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1446-9	16.4	71
23	A DNA network as an information processing system. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 5125-37	6.3	12
22	Reversible logic circuits made of DNA. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20080-3	16.4	137
21	A programmable molecular robot. <i>Nano Letters</i> , 2011 , 11, 982-7	11.5	132
20	Remote toehold: a mechanism for flexible control of DNA hybridization kinetics. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2177-82	16.4	206
19	Direct observation of stepwise movement of a synthetic molecular transporter. <i>Nature Nanotechnology</i> , 2011 , 6, 166-9	28.7	308
18	Multistep DNA-Templated Reactions for the Synthesis of Functional Sequence Controlled Oligomers. <i>Angewandte Chemie</i> , 2010 , 122, 8120-8123	3.6	23
17	Multistep DNA-templated reactions for the synthesis of functional sequence controlled oligomers. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7948-51	16.4	123
16	A Geometrical Allosteric DNA Switch. <i>Lecture Notes in Computer Science</i> , 2010 , 189-189	0.9	
15	DNA monofunctionalization of quantum dots. <i>ChemBioChem</i> , 2009 , 10, 1781-3	3.8	21
14	Mechanism for a directional, processive, and reversible DNA motor. <i>Small</i> , 2009 , 5, 1513-6	11	101
13	DNA nanomachines 2009 , 124-133		2

12	Coordinated chemomechanical cycles: a mechanism for autonomous molecular motion. <i>Physical Review Letters</i> , 2008 , 101, 238101	7.4	163
11	Templated self-assembly of wedge-shaped DNA arrays. <i>Tetrahedron</i> , 2008 , 64, 8530-8534	2.4	9
10	DNA nanomachines. <i>Nature Nanotechnology</i> , 2007 , 2, 275-84	28.7	836
9	A free-running DNA motor powered by a nicking enzyme. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4358-61	16.4	275
8	A Free-Running DNA Motor Powered by a Nicking Enzyme. <i>Angewandte Chemie</i> , 2005 , 117, 4432-4435	3.6	80
7	Design and assembly of double-crossover linear arrays of micrometre length using rolling circle replication. <i>Nanotechnology</i> , 2005 , 16, 1574-1577	3.4	12
6	Self-assembly of chiral DNA nanotubes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16342-3	16.4	187
5	DNA transport in bacteria. <i>Nature Reviews Molecular Cell Biology</i> , 2001 , 2, 538-45	48.7	104
4	Role of Bacillus subtilis SpoIIIE in DNA transport across the mother cell-prespore division septum. <i>Science</i> , 2000 , 290, 995-7	33.3	156
3	Topology of Xer recombination on catenanes produced by lambda integrase. <i>Journal of Molecular Biology</i> , 1999 , 289, 873-83	6.5	26
2	Topological selectivity in Xer site-specific recombination. <i>Cell</i> , 1997 , 88, 855-64	56.2	102
1	Rational design of hidden thermodynamic driving through DNA mismatch repair		2