Eckart Bindewald

List of Publications by Year
in descending order

38 papers	1,800 citations	331670 21 h-index	345221 36 g-index
38 all docs	38 docs citations	38 times ranked	1348 citing authors

#	Article	IF	Citations
1	In vitro assembly of cubic RNA-based scaffolds designed in silico. Nature Nanotechnology, 2010, 5, 676-682.	31.5	330
2	Bridging the gap in RNA structure prediction. Current Opinion in Structural Biology, 2007, 17, 157-165.	5.7	180
3	Design and self-assembly of siRNA-functionalized RNA nanoparticles for use in automated nanomedicine. Nature Protocols, 2011, 6, 2022-2034.	12.0	177
4	RNAJunction: a database of RNA junctions and kissing loops for three-dimensional structural analysis and nanodesign. Nucleic Acids Research, 2008, 36, D392-D397.	14.5	141
5	Computational strategies for the automated design of RNA nanoscale structures from building blocks using NanoTiler. Journal of Molecular Graphics and Modelling, 2008, 27, 299-308.	2.4	82
6	In Silico Design and Enzymatic Synthesis of Functional RNA Nanoparticles. Accounts of Chemical Research, 2014, 47, 1731-1741.	15.6	80
7	RNA secondary structure prediction from sequence alignments using a network of k-nearest neighbor classifiers. Rna, 2006, 12, 342-352.	3.5	74
8	Multistrand RNA Secondary Structure Prediction and Nanostructure Design Including Pseudoknots. ACS Nano, 2011, 5, 9542-9551.	14.6	73
9	Functionally-interdependent shape-switching nanoparticles with controllable properties. Nucleic Acids Research, 2017, 45, gkx008.	14.5	71
10	Computational and experimental characterization of RNA cubic nanoscaffolds. Methods, 2014, 67, 256-265.	3.8	55
11	Co-transcriptional production of RNAâ€“DNA hybrids for simultaneous release of multiple split functionalities. Nucleic Acids Research, 2014, 42, 2085-2097.	14.5	54
12	Multistrand Structure Prediction of Nucleic Acid Assemblies and Design of RNA Switches. Nano Letters, 2016, 16, 1726-1735.	9.1	53
13	Cellular Delivery of RNA Nanoparticles. ACS Combinatorial Science, 2016, 18, 527-547.	3.8	47
14	Correlating SHAPE signatures with three-dimensional RNA structures. Rna, 2011, 17, 1688-1696.	3.5	40
15	The Use of Minimal RNA Toeholds to Trigger the Activation of Multiple Functionalities. Nano Letters, 2016, 16, 1746-1753.	9.1	40
16	The SSEA server for protein secondary structure alignment. Bioinformatics, 2005, 21, 393-395.	4.1	35
17	Ring Catalog: A resource for designing self-assembling RNA nanostructures. Methods, 2016, 103, 128-137.	3.8	33
18	CorreLogo: an online server for 3D sequence logos of RNA and DNA alignments. Nucleic Acids Research, 2006, 34, W405-W411.	14.5	32

#	Article	IF	Citations
19	Protocols for the In Silico Design of RNA Nanostructures. Methods in Molecular Biology, 2008, 474, 93-115.	0.9	30
20	Use of RNA structure flexibility data in nanostructure modeling. Methods, 2011, 54, 239-250.	3.8	28
21	Structural polymorphism of the HIV-1 leader region explored by computational methods. Nucleic Acids Research, 2005, 33, 7151-7163.	14.5	25
22	Role of 3â€²UTRs in the Translation of mRNAs Regulated by Oncogenic eIF4Eâ€”A Computational Inference. PLoS ONE, 2009, 4, e4868.	2.5	19
23	RiboSketch: versatile visualization of multi-stranded RNA and DNA secondary structure. Bioinformatics, 2018, 34, 4297-4299.	4.1	15
24	Truncated tetrahedral RNA nanostructures exhibit enhanced features for delivery of RNAi substrates. Nanoscale, 2020, 12, 2555-2568.	5.6	14
25	Visualization of fast energy flow and solvent caging in unimolecular dynamics. Nature, 1995, 375, 129-131.	27.8	13
26	Computational and Experimental Studies of Reassociating RNA/DNA Hybrids Containing Split Functionalities. Methods in Enzymology, 2015, 553, 313-334.	1.0	12
27	Preparation of a Conditional RNA Switch. Methods in Molecular Biology, 2017, 1632, 303-324.	0.9	11
28	Computational and Experimental RNA Nanoparticle Design. , 0, , 193-220.		9
29	A Suite of Therapeutically-Inspired Nucleic Acid Logic Systems for Conditional Generation of Single-Stranded and Double-Stranded Oligonucleotides. Nanomaterials, 2019, 9, 615.	4.1	7
30	Computational detection of abundant long-range nucleotide covariation in Drosophila genomes. Rna, 2013, 19, 1171-1182.	3.5	6
31	Computational Generation of RNA Nanorings. Methods in Molecular Biology, 2017, 1632, 19-32.	0.9	4
32	Achieving multiple goals via voluntary efforts and motivation asymmetry. Ecological Modelling, 2017, 354, 37-48.	2.5	3
33	RNA Toehold Interactions Initiate Conditional Gene Silencing. DNA and RNA Nanotechnology, 2016, 3, 11-13.	0.7	2
34	Predicting RNA SHAPE scores with deep learning. RNA Biology, 2020, 17, 1324-1330.	3.1	2
35	Align: a C++ Class Library and Web Server for Rapid Sequence Alignment Prototyping. Current Drug Discovery Technologies, 2006, 3, 167-173.	1.2	1
36	A survey suggests individual priorities are virtually unique: Implications for group dynamics, goal achievement and ecology. Ecological Modelling, 2017, 362, 69-79.	2.5	1

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37	Triggerable RNA nanodevices. RNA & Disease (Houston, Tex), 2017, 4, .	1.0	1
38	RNAâ€“Protein Interactions Prevent Long RNA Duplex Formation: Implications for the Design of RNA-Based Therapeutics. Molecules, 2018, 23, 3329.	3.8	0