## Robert H Riehn

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The potential and challenges of nanopore sequencing. Nature Biotechnology, 2008, 26, 1146-1153.	17.5	2,201
2	In Vivo and Scanning Electron Microscopy Imaging of Upconverting Nanophosphors inCaenorhabditiselegans. Nano Letters, 2006, 6, 169-174.	9.1	520
3	Statics and Dynamics of Single DNA Molecules Confined in Nanochannels. Physical Review Letters, 2005, 94, 196101.	7.8	480
4	The dynamics of genomic-length DNA molecules in 100-nm channels. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 10979-10983.	7.1	458
5	Continuous microfluidic immunomagnetic cell separation. Applied Physics Letters, 2004, 85, 5093-5095.	3.3	321
6	Restriction mapping in nanofluidic devices. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10012-10016.	7.1	194
7	Single-molecule studies of repressor-DNA interactions show long-range interactions. Proceedings of the United States of America, 2005, 102, 9796-9801.	7.1	120
8	Near-field optical lithography of a conjugated polymer. Applied Physics Letters, 2003, 82, 526-528.	3.3	114
9	Microfluidic high gradient magnetic cell separation. Journal of Applied Physics, 2006, 99, 08K101.	2.5	112
10	Diffusion mechanisms of localised knots along a polymer. Europhysics Letters, 2006, 76, 696-702.	2.0	67
11	Upconverting nanophosphors for bioimaging. Nanotechnology, 2009, 20, 405701.	2.6	59
12	A Nanofluidic Railroad Switch for DNA. Nano Letters, 2006, 6, 1973-1976.	9.1	47
13	DNA methylation profiling in nanochannels. Biomicrofluidics, 2011, 5, 34106-341068.	2.4	47
14	Cohesin SA1 and SA2 are RNA binding proteins that localize to RNA containing regions on DNA. Nucleic Acids Research, 2020, 48, 5639-5655.	14.5	47
15	Near-field enhanced ultraviolet resonance Raman spectroscopy using aluminum bow-tie nano-antenna. Applied Physics Letters, 2012, 101, 113116.	3.3	46
16	Ultraviolet–visible near-field microscopy of phase-separated blends of polyfluorene-based conjugated semiconductors. Applied Physics Letters, 2001, 79, 833-835.	3.3	41
17	Cohesin SA2 is a sequence-independent DNA-binding protein that recognizes DNA replication and repair intermediates. Journal of Biological Chemistry, 2018, 293, 1054-1069.	3.4	41
18	Stretching chromatin through confinement. Lab on A Chip, 2009, 9, 2772.	6.0	37

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19	Enhanced electrostatic force microscopy reveals higher-order DNA looping mediated by the telomeric protein TRF2. Scientific Reports, 2016, 6, 20513.	3.3	30
20	Functional interplay between SA1 and TRF1 in telomeric DNA binding and DNA–DNA pairing. Nucleic Acids Research, 2016, 44, 6363-6376.	14.5	30
21	Local Probing of Photocurrent and Photoluminescence in a Phase-Separated Conjugated-Polymer Blend by Means of Near-Field Excitation. Advanced Functional Materials, 2006, 16, 469-476.	14.9	27
22	Collapse of DNA in ac Electric Fields. Physical Review Letters, 2011, 106, 248103.	7.8	26
23	CpG and methylation-dependent DNA binding and dynamics of the methylcytosine binding domain 2 protein at the single-molecule level. Nucleic Acids Research, 2017, 45, 9164-9177.	14.5	25
24	Efficient blue–green light emitting poly(1,4-phenylene vinylene) copolymers. Chemical Communications, 2000, , 291-292.	4.1	23
25	The potential and challenges of nanopore sequencing. , 2009, , 261-268.		23
26	Electrochemical and Electroluminescent Properties of Random Copolymers of Fluorine- and Alkoxy-Substituted Poly(p-phenylene vinylene)s. Macromolecules, 2000, 33, 3337-3341.	4.8	22
27	Fabrication of conjugated polymers nanostructures via direct near-field optical lithography. Ultramicroscopy, 2004, 100, 449-455.	1.9	22
28	Single molecule correlation spectroscopy in continuous flow mixers with zero-mode waveguides. Optics Express, 2008, 16, 10077.	3.4	22
29	Fluctuation modes of nanoconfined DNA. Journal of Applied Physics, 2012, 111, 24701-247018.	2.5	21
30	DNA Methylation Detection Using Resonance andÂNanobowtie-Antenna-Enhanced Raman Spectroscopy. Biophysical Journal, 2018, 114, 2498-2506.	0.5	21
31	Versatile synthesis of various conjugated aromatic homo- and copolymers. Synthetic Metals, 2001, 122, 1-5.	3.9	20
32	Wetting Micro- and Nanofluidic Devices Using Supercritical Water. Analytical Chemistry, 2006, 78, 5933-5934.	6.5	18
33	Chromatin modification mapping in nanochannels. Biomicrofluidics, 2013, 7, 064105.	2.4	18
34	Probing transient protein-mediated DNA linkages using nanoconfinement. Biomicrofluidics, 2014, 8, 034113.	2.4	13
35	Density fluctuations dispersion relationship for a polymer confined to a nanotube. Applied Physics Letters, 2011, 98, 253704.	3.3	12
36	Flow-driven formation of solid-like microsphere heaps. Soft Matter, 2013, 9, 543-549.	2.7	12

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37	Fluorine-substituted poly(p-phenylenes vinylenes) copolymers. Synthetic Metals, 2001, 124, 67-69.	3.9	11
38	DNA looping by two 5-methylcytosine-binding proteins quantified using nanofluidic devices. Epigenetics and Chromatin, 2020, 13, 18.	3.9	11
39	A two-dimensional photonic structure made from a conjugated, fluorescent polymer. Journal of Optics, 2005, 7, S207-S212.	1.5	8
40	DNA Condensation by Fieldâ€Induced Nonâ€Equilibrium Noise. ChemPhysChem, 2009, 10, 2871-2875.	2.1	8
41	Collapse of DNA under alternating electric fields. Physical Review E, 2015, 92, 012714.	2.1	8
42	Structure, dynamics, and regulation of TRF1-TIN2-mediated trans- and cis-interactions on telomeric DNA. Journal of Biological Chemistry, 2021, 297, 101080.	3.4	8
43	Efficient electroluminescent poly(p-phenylene vinylene) copolymers for application in LEDs. Synthetic Metals, 2001, 119, 43-44.	3.9	7
44	Nanochannels for Genomic DNA Analysis: The Long and the Short of It. , 2007, , 151-186.		7
45	DNA Brushing Shoulders: Targeted Looping and Scanning of Large DNA Strands. Nano Letters, 2015, 15, 5641-5646.	9.1	7
46	Nonlinear elasticity of microsphere heaps. Physical Review E, 2014, 90, 022304.	2.1	6
47	Motor-like DNA motion due to an ATP-hydrolyzing protein under nanoconfinement. Scientific Reports, 2018, 8, 10036.	3.3	6
48	TIN2 is an architectural protein that facilitates TRF2-mediated <i>trans</i> - and <i>cis-</i> interactions on telomeric DNA. Nucleic Acids Research, 2021, 49, 13000-13018.	14.5	6
49	Complementary metal oxide semiconductor compatible fabrication and characterization of parylene-C covered nanofluidic channels with integrated nanoelectrodes. Biomicrofluidics, 2009, 3, 031101.	2.4	5
50	SENSING DNA WITH ALTERNATING CURRENTS USING A NANOGAP SENSOR EMBEDDED IN A NANOCHANNEL DEVICE. Nano LIFE, 2013, 03, 1340007.	0.9	2
51	Interference of ATP with the fluorescent probes YOYO-1 and YOYO-3 modifies the mechanical properties of intercalator-stained DNA confined in nanochannels. Mikrochimica Acta, 2015, 182, 1561-1565.	5.0	1
52	Nonaffine deformation under compression and decompression of a flow-stabilized solid. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 084003.	2.3	1
53	Manipulation and control of the electrokinetic motion of a non-conductive micro-particle in microchannel by generating lateral temperature gradient. International Journal of Heat and Mass Transfer, 2018, 126, 861-870.	4.8	1
54	Direct observation of confinement-induced diffusophoresis. Nanotechnology, 2019, 30, 41LT01.	2.6	1

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55	DNA statics and dynamics in nanoscale confinement. , 2005, , .		Ο
56	Use of sub-10 nm Diameter Upconversion Nanophosphors as Bio-labels. Materials Research Society Symposia Proceedings, 2006, 950, 1.	0.1	0
57	Epigenetic Analysis of Chromatin in Nanochannels. Biophysical Journal, 2010, 98, 600a.	0.5	0
58	DNA Looping Induced by Tubular Confinement. Biophysical Journal, 2013, 104, 253a-254a.	0.5	0
59	Dynamics of Large DNA Loops. Biophysical Journal, 2016, 110, 565a.	0.5	0
60	Cohesin SA2 and EWSR1 in R-Loop Regulation. Biophysical Journal, 2019, 116, 505a.	0.5	0
61	TIN2 is an Architectural Protein Stabilizing TRF1 at Telomere. Biophysical Journal, 2019, 116, 211a-212a.	0.5	0
62	Single-Molecule Study of TRF2 Mediated DNA Compaction using Physiologically Relevant Long Telomeric DNA. Biophysical Journal, 2019, 116, 505a.	0.5	0
63	Nanoplumbing with 2D Metamaterials. Small, 2019, 15, 1803478.	10.0	0
64	DNA methylation detection using UV nano bowtie antenna enhanced Raman spectroscopy. , 2018, , .		0