Nadrian C Seeman

List of Publications by Year in Descending Order

248 papers	29,724 citations	72 h-index	171 g-index
263 ext. papers	32,578 ext. citations	11.9 avg, IF	7.72 L-index

#	Paper	IF	Citations
248	Powering a ~ 50-□n Motion by a Molecular Event in DNA Crystals.. *Advanced Materials*, **2022**, e2200441	24	6
247	Programming DNA Self-Assembly by Geometry□ *Journal of the American Chemical Society*, **2022**,	16.4	2
246	3D Hexagonal Arrangement of DNA Tensegrity Triangles. *ACS Nano*, **2021**, 15, 16788-16793	16.7	5
245	Microchemomechanical devices using DNA hybridization. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
244	5'-Phosphorylation Strengthens Sticky-End Cohesions. *Journal of the American Chemical Society*, **2021**, 143, 14987-14991	16.4	1
243	Reconfigurable Two-Dimensional DNA Lattices: Static and Dynamic Angle Control. *Angewandte Chemie*, **2021**, 133, 25985	3.6	2
242	Reconfigurable Two-Dimensional DNA Lattices: Static and Dynamic Angle Control. *Angewandte Chemie - International Edition*, **2021**, 60, 25781-25786	16.4	3
241	Mutations in artificial self-replicating tiles: A step toward Darwinian evolution. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
240	Designer DNA architecture offers precise and multivalent spatial pattern-recognition for viral sensing and inhibition. *Nature Chemistry*, **2020**, 12, 26-35	17.6	82
239	Mix and match-a versatile equilibrium approach for hybrid colloidal synthesis. *Soft Matter*, **2020**, 16, 4358-4365	3.4	4
238	Making Engineered 3D DNA Crystals Robust. *Journal of the American Chemical Society*, **2019**, 141, 15850-15855	16.4	29
237	Litters of self-replicating origami cross-tiles. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 1952-1957	11.5	9
236	Designing Higher Resolution Self-Assembled 3D DNA Crystals via Strand Terminus Modifications. *ACS Nano*, **2019**, 13, 7957-7965	16.7	27
235	Forum on Translational DNA Nanotechnology. *ACS Applied Materials & Interfaces*, **2019**, 11, 13833-13834	9.5	2
234	Paranemic Crossover DNA: There and Back Again. *Chemical Reviews*, **2019**, 119, 6273-6289	68.1	41
233	Organizing End-Site-Specific SWCNTs in Specific Loci Using DNA. *Journal of the American Chemical Society*, **2019**, 141, 11923-11928	16.4	27
232	Atomic structures of RNA nanotubes and their comparison with DNA nanotubes. *Nanoscale*, **2019**, 11, 14863-14878	7.7	13

231	The PX Motif of DNA Binds Specifically to Escherichia coli DNA Polymerase I. *Biochemistry*, **2019**, 58, 575-581	3.2	4
230	Charge splitters and charge transport junctions based on guanine quadruplexes. *Nature Nanotechnology*, **2018**, 13, 316-321	28.7	31
229	Construction of a DNA Origami Based Molecular Electro-optical Modulator. *Nano Letters*, **2018**, 18, 2112-2115	12.1	13
228	Design formalism for DNA self-assembly of polyhedral skeletons using rigid tiles. *Journal of Mathematical Chemistry*, **2018**, 56, 1365-1392	2.1	2
227	DNA Nanotechnology: From the Pub to Information-Based Chemistry. *Methods in Molecular Biology*, **2018**, 1811, 1-9	1.4	7
226	Multivalent, multiflavored droplets by design. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9086-9091	11.5	16
225	DNA nanotechnology. *Nature Reviews Materials*, **2018**, 3,	73.3	719
224	Modulating Self-Assembly of DNA Crystals with Rationally Designed Agents. *Angewandte Chemie - International Edition*, **2018**, 57, 16529-16532	16.4	15
223	Modulating Self-Assembly of DNA Crystals with Rationally Designed Agents. *Angewandte Chemie*, **2018**, 130, 16767-16770	3.6	2
222	An Organic Semiconductor Organized into 3D DNA Arrays by Bottom-up Rational Design. *Angewandte Chemie*, **2017**, 129, 6545-6548	3.6	4
221	An Organic Semiconductor Organized into 3D DNA Arrays by "Bottom-up" Rational Design. *Angewandte Chemie - International Edition*, **2017**, 56, 6445-6448	16.4	26
220	Sequential self-assembly of DNA functionalized droplets. *Nature Communications*, **2017**, 8, 21	17.4	43
219	A device that operates within a self-assembled 3D DNA crystal. *Nature Chemistry*, **2017**, 9, 824-827	17.6	47
218	Facilitation of DNA self-assembly by relieving the torsional strains between building blocks. *Organic and Biomolecular Chemistry*, **2017**, 15, 465-469	3.9	8
217	Self-assembled three-dimensional chiral colloidal architecture. *Science*, **2017**, 358, 633-636	33.3	85
216	Self-Assembly of 3D DNA Crystals Containing a Torsionally Stressed Component. *Cell Chemical Biology*, **2017**, 24, 1401-1406.e2	8.2	15
215	Exponential growth and selection in self-replicating materials from DNA origami rafts. *Nature Materials*, **2017**, 16, 993-997	27	32
214	Tuning the Cavity Size and Chirality of Self-Assembling 3D DNA Crystals. *Journal of the American Chemical Society*, **2017**, 139, 11254-11260	16.4	30

213	Time lapse microscopy of temperature control during self-assembly of 3D DNA crystals. *Journal of Crystal Growth*, **2017**, 476, 1-5	1.6	2
212	Three-dimensional molecular and nanoparticle crystallization by DNA nanotechnology. *MRS Bulletin* , **2017**, 42, 904-912	3.2	20
211	Designed 3D DNA Crystals. *Methods in Molecular Biology*, **2017**, 1500, 3-10	1.4	1
210	Design tools for reporter strands and DNA origami scaffold strands. *Theoretical Computer Science*, **2017**, 671, 69-78	1.1	7
209	Construction and Structure Determination of a Three-Dimensional DNA Crystal. *Journal of the American Chemical Society*, **2016**, 138, 10047-54	16.4	38
208	Nanoscale Structure and Elasticity of Pillared DNA Nanotubes. *ACS Nano*, **2016**, 10, 7780-91	16.7	24
207	Fluorescence and Energy Transfer in Dye-Labeled DNA Crystals. *Journal of Physical Chemistry B*, **2016**, 120, 12287-12292	3.4	7
206	Stabilisation of self-assembled DNA crystals by triplex-directed photo-cross-linking. *Chemical Communications*, **2016**, 52, 8014-7	5.8	30
205	3D DNA Crystals and Nanotechnology. *Crystals*, **2016**, 6, 97	2.3	14
204	A Signal-Passing DNA-Strand-Exchange Mechanism for Active Self-Assembly of DNA Nanostructures. *Angewandte Chemie - International Edition*, **2015**, 54, 5939-42	16.4	25
203	Topological Linkage of DNA Tiles Bonded by Paranemic Cohesion. *ACS Nano*, **2015**, 9, 10296-303	16.7	24
202	The unusual and dynamic character of PX-DNA. *Nucleic Acids Research*, **2015**, 43, 7201-6	20.1	4
201	Covalent Linkage of One-Dimensional DNA Arrays Bonded by Paranemic Cohesion. *ACS Nano*, **2015**, 9, 10304-12	16.7	26
200	Synthesising Topological Links. *Journal of Mathematical Chemistry*, **2015**, 53, 183-199	2.1	8
199	Post-Assembly Stabilization of Rationally Designed DNA Crystals. *Angewandte Chemie*, **2015**, 127, 10074-10077	3.6	7
198	A Signal-Passing DNA-Strand-Exchange Mechanism for Active Self-Assembly of DNA Nanostructures. *Angewandte Chemie*, **2015**, 127, 6037-6040	3.6	1
197	Post-Assembly Stabilization of Rationally Designed DNA Crystals. *Angewandte Chemie - International Edition*, **2015**, 54, 9936-9	16.4	42
196	Nanomaterials. Programmable materials and the nature of the DNA bond. *Science*, **2015**, 347, 1260901	33.3	924

195	Structural DNA Nanotechnology **2015**,		29
194	Art as a Stimulus for Structural DNA Nanotechnology. *Leonardo*, **2014**, 47, 142-149	0.1	3
193	Templated DNA ligation with thiol chemistry. *Organic and Biomolecular Chemistry*, **2014**, 12, 8823-7	3.9	8
192	Amyloid fibrils nucleated and organized by DNA origami constructions. *Nature Nanotechnology*, **2014**, 9, 537-41	28.7	70
191	Functionalizing Designer DNA Crystals with a Triple-Helical Veneer. *Angewandte Chemie*, **2014**, 126, 4060-4063	3.6	15
190	ASYNCHRONOUS SIGNAL PASSING FOR TILE SELF-ASSEMBLY: FUEL EFFICIENT COMPUTATION AND EFFICIENT ASSEMBLY OF SHAPES. *International Journal of Foundations of Computer Science*, **2014**, 25, 459-488	0.6	30
189	Functionalizing designer DNA crystals with a triple-helical veneer. *Angewandte Chemie - International Edition*, **2014**, 53, 3979-82	16.4	51
188	Self-assembled DNA crystals: the impact on resolution of 5'-phosphates and the DNA source. *Nano Letters*, **2013**, 13, 793-7	11.5	37
187	Site-specific inter-strand cross-links of DNA duplexes. *Chemical Science*, **2013**, 4, 1319-1329	9.4	13
186	Cinnamate-based DNA photolithography. *Nature Materials*, **2013**, 12, 747-53	27	40
185	Kinetics of DNA-coated sticky particles. *Physical Review E*, **2013**, 88, 022304	2.4	19
184	Asynchronous Signal Passing for Tile Self-assembly: Fuel Efficient Computation and Efficient Assembly of Shapes. *Lecture Notes in Computer Science*, **2013**, 174-185	0.9	24
183	ON THE CHEMICAL SYNTHESIS OF NEW TOPOLOGICAL STRUCTURES. *Journal of Mathematical Chemistry*, **2012**, 50, 220-232	2.1	12
182	Templated synthesis of nylon nucleic acids and characterization by nuclease digestion. *Chemical Science*, **2012**, 3, 1930-1937	9.4	12
181	A DNA-based nanomechanical device used to characterize the distortion of DNA by Apo-SoxR protein. *Biochemistry*, **2012**, 51, 937-43	3.2	7
180	Design and characterization of 1D nanotubes and 2D periodic arrays self-assembled from DNA multi-helix bundles. *Journal of the American Chemical Society*, **2012**, 134, 1606-16	16.4	62
179	The absence of tertiary interactions in a self-assembled DNA crystal structure. *Journal of Molecular Recognition*, **2012**, 25, 234-7	2.6	25
178	Computing by molecular self-assembly. *Interface Focus*, **2012**, 2, 504-11	3.9	9

177	Hierarchical Self Assembly of Patterns from the Robinson Tilings: DNA Tile Design in an Enhanced Tile Assembly Model. *Natural Computing*, **2012**, 11, 323-338	1.3	26
176	Polygamous particles. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 18731-6	11.5	30
175	Linear birefringence magnitude of artificial self-assembled DNA crystals. *Optical Materials Express*, **2011**, 1, 936-942	2.6	1
174	Crystalline Two-Dimensional DNA-Origami Arrays. *Angewandte Chemie*, **2011**, 123, 278-281	3.6	72
173	Automatic Molecular Weaving Prototyped by Using Single-Stranded DNA. *Angewandte Chemie*, **2011**, 123, 4511-4514	3.6	10
172	Crystalline two-dimensional DNA-origami arrays. *Angewandte Chemie - International Edition*, **2011**, 50, 264-7	16.4	286
171	Automatic molecular weaving prototyped by using single-stranded DNA. *Angewandte Chemie - International Edition*, **2011**, 50, 4419-22	16.4	34
170	Self-replication of information-bearing nanoscale patterns. *Nature*, **2011**, 478, 225-8	50.4	93
169	The label-free unambiguous detection and symbolic display of single nucleotide polymorphisms on DNA origami. *Nano Letters*, **2011**, 11, 910-3	11.5	120
168	Finite State Automata by DNA Self-assembly. *Communications in Computer and Information Science*, **2011**, 1-4	0.3	
167	A proximity-based programmable DNA nanoscale assembly line. *Nature*, **2010**, 465, 202-5	50.4	657
166	Double-stranded DNA homology produces a physical signature. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 12547-52	11.5	30
165	Aggregation-disaggregation transition of DNA-coated colloids: experiments and theory. *Physical Review E*, **2010**, 81, 041404	2.4	77
164	Structural DNA nanotechnology: growing along with Nano Letters. *Nano Letters*, **2010**, 10, 1971-8	11.5	128
163	A DNA crystal designed to contain two molecules per asymmetric unit. *Journal of the American Chemical Society*, **2010**, 132, 15471-3	16.4	55
162	DNA scissors device used to measure MutS binding to DNA mis-pairs. *Journal of the American Chemical Society*, **2010**, 132, 4352-7	16.4	47
161	THz Characterization of DNA Four-Way Junction and Its Components. *IEEE Nanotechnology Magazine*, **2010**, 9, 610-617	2.6	8
160	Blunt-ended DNA stacking interactions in a 3-helix motif. *Chemical Communications*, **2010**, 46, 4905-7	5.8	32

159	Nanomaterials based on DNA. *Annual Review of Biochemistry*, **2010**, 79, 65-87	29.1	848
158	TRANSDUCER GENERATED ARRAYS OF ROBOTIC NANO-ARMS. *Natural Computing*, **2010**, 9, 437-455	1.3	5
157	DNA: Not Merely the Secret of Life. *Journal of Cosmetic Science*, **2010**, 61, 62-63	0.7	
156	Simple quantitative model for the reversible association of DNA coated colloids. *Physical Review Letters*, **2009**, 102, 048301	7.4	115
155	From molecular to macroscopic via the rational design of a self-assembled 3D DNA crystal. *Nature*, **2009**, 461, 74-7	50.4	726
154	Dynamic patterning programmed by DNA tiles captured on a DNA origami substrate. *Nature Nanotechnology*, **2009**, 4, 245-8	28.7	128
153	On existence of reporter strands in DNA-based graph structures. *Theoretical Computer Science*, **2009**, 410, 1448-1460	1.1	11
152	Prototyping nanorod control: A DNA double helix sheathed within a DNA six-helix bundle. *Chemistry and Biology*, **2009**, 16, 862-7		26
151	Construction of a DNA nano-object directly demonstrates computation. *BioSystems*, **2009**, 98, 80-4	1.9	18
150	Reciprocal DNA nanomechanical devices controlled by the same set strands. *Nano Letters*, **2009**, 9, 2641-7	11.5	19
149	A bipedal DNA Brownian motor with coordinated legs. *Science*, **2009**, 324, 67-71	33.3	488
148	Towards self-replicating materials of DNA-functionalized colloids. *Soft Matter*, **2009**, 5, 2422	3.6	78
147	Synthetic single-stranded DNA topology. *Proceedings of Symposia in Applied Mathematics*, **2009**, 121-153		4
146	The Perils of Polynucleotides Revisited. *Natural Computing Series*, **2009**, 205-214	2.5	
145	Molecular-dynamics simulations of insertion of chemically modified DNA nanostructures into a water-chloroform interface. *Biophysical Journal*, **2008**, 95, 1099-107	2.9	5
144	Metallic nanoparticles used to estimate the structural integrity of DNA motifs. *Biophysical Journal*, **2008**, 95, 3340-8	2.9	13
143	Morphology Change of Calcium Carbonate in the Presence of Two-Dimensional DNA Lattices. *Crystal Growth and Design*, **2008**, 8, 1200-1202	3.5	18
142	Coupling across a DNA helical turn yields a hybrid DNA/organic catenane doubly tailed with functional termini. *Journal of the American Chemical Society*, **2008**, 130, 10882-3	16.4	48

141	PX DNA triangle oligomerized using a novel three-domain motif. *Nano Letters*, **2008**, 8, 317-22	11.5	25
140	A DNA-based nanomechanical device with three robust states. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 17245-9	11.5	67
139	Thermodynamic analysis of nylon nucleic acids. *ChemBioChem*, **2008**, 9, 1641-8	3.8	14
138	2?,2?-Ligation demonstrates the thermal dependence of DNA-directed positional control. *Tetrahedron*, **2008**, 64, 8417-8422	2.4	11
137	In vivo cloning of artificial DNA nanostructures. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 17626-31	11.5	99
136	2',2'-Ligation Demonstrates the Thermal Dependence of DNA-Directed Positional Control. *Tetrahedron*, **2008**, 64, 8417-8422	2.4	7
135	Six-helix and eight-helix DNA nanotubes assembled from half-tubes. *Nano Letters*, **2007**, 7, 1757-63	11.5	101
134	Assembly and characterization of 8-arm and 12-arm DNA branched junctions. *Journal of the American Chemical Society*, **2007**, 129, 8169-76	16.4	112
133	Rolling circle enzymatic replication of a complex multi-crossover DNA nanostructure. *Journal of the American Chemical Society*, **2007**, 129, 14475-81	16.4	59
132	An overview of structural DNA nanotechnology. *Molecular Biotechnology*, **2007**, 37, 246-57	3	360
131	A simple DNA-based translation system. *Nano Letters*, **2007**, 7, 480-3	11.5	20
130	Design of minimally strained nucleic Acid nanotubes. *Biophysical Journal*, **2006**, 90, 4546-57	2.9	31
129	Double cohesion in structural DNA nanotechnology. *Organic and Biomolecular Chemistry*, **2006**, 4, 3414-9	3.9	38
128	Two-dimensional nanoparticle arrays show the organizational power of robust DNA motifs. *Nano Letters*, **2006**, 6, 1502-4	11.5	385
127	Operation of a DNA robot arm inserted into a 2D DNA crystalline substrate. *Science*, **2006**, 314, 1583-5	33.3	199
126	Functional DNAzymes organized into two-dimensional arrays. *Nano Letters*, **2006**, 6, 1505-7	11.5	43
125	RNA used to control a DNA rotary nanomachine. *Nano Letters*, **2006**, 6, 2899-903	11.5	43
124	Architecture with GIDEON, a program for design in structural DNA nanotechnology. *Journal of Molecular Graphics and Modelling*, **2006**, 25, 470-80	2.8	68

123	Multiplying with DNA. *Natural Computing*, **2006**, 5, 427-441	1.3	5
122	Experiments in Structural DNA Nanotechnology: Arrays and Devices. *Proceedings of SPIE*, **2005**, 5592, 71	1.7	1
121	Nucleic Acid Nanostructures: Bottom-Up Control of Geometry on the Nanoscale. *Reports on Progress in Physics*, **2005**, 68, 237-270	14.4	149
120	DNA enables nanoscale control of the structure of matter. *Quarterly Reviews of Biophysics*, **2005**, 38, 363-71	7	33
119	Sequence-encoded self-assembly of multiple-nanocomponent arrays by 2D DNA scaffolding. *Nano Letters*, **2005**, 5, 2399-402	11.5	176
118	DNA Nanostructures for Mechanics and Computing: Nonlinear Thinking with Life's Central Molecule **2005**, 308-318		3
117	Six-helix bundles designed from DNA. *Nano Letters*, **2005**, 5, 661-5	11.5	252
116	The Challenge of Structural Control on the Nanoscale: Bottom-Up Self-Assembly of Nucleic Acids in 3D. *International Journal of Nanotechnology*, **2005**, 2, 348-370	1.5	9
115	From genes to machines: DNA nanomechanical devices. *Trends in Biochemical Sciences*, **2005**, 30, 119-25	10.3	320
114	DNA tube structures controlled by a four-way-branched DNA connector. *Angewandte Chemie - International Edition*, **2005**, 44, 6074-7	16.4	84
113	DNA Tube Structures Controlled by a Four-Way-Branched DNA Connector. *Angewandte Chemie*, **2005**, 117, 6228-6231	3.6	22
112	Structural DNA nanotechnology: an overview. *Methods in Molecular Biology*, **2005**, 303, 143-66	1.4	65
111	Translation of DNA signals into polymer assembly instructions. *Science*, **2004**, 306, 2072-4	33.3	151
110	Nanotechnology and the double helix. *Scientific American*, **2004**, 290, 64-9, 72-5	0.5	105
109	A protein-driven DNA device that measures the excess binding energy of proteins that distort DNA. *Angewandte Chemie - International Edition*, **2004**, 43, 4750-2	16.4	57
108	A Protein-Driven DNA Device That Measures the Excess Binding Energy of Proteins That Distort DNA. *Angewandte Chemie*, **2004**, 116, 4854-4856	3.6	12
107	Crystal structure of a continuous three-dimensional DNA lattice. *Chemistry and Biology*, **2004**, 11, 1119-26		103
106	Two dimensional PNA/DNA arrays: estimating the helicity of unusual nucleic acid polymers. *Chemical Communications*, **2004**, 1694-5	5.8	44

105	A Precisely Controlled DNA Biped Walking Device. *Nano Letters*, **2004**, 4, 1203-1207	11.5	495
104	Pseudohexagonal 2D DNA crystals from double crossover cohesion. *Journal of the American Chemical Society*, **2004**, 126, 10230-1	16.4	192
103	Self-assembly of irregular graphs whose edges are DNA helix axes. *Journal of the American Chemical Society*, **2004**, 126, 6648-57	16.4	42
102	DNA-Templated Self-Assembly of Metallic Nanocomponent Arrays on a Surface. *Nano Letters*, **2004**, 4, 2343-2347	11.5	418
101	3D Fractal DNA Assembly from Coding, Geometry and Protection. *Natural Computing*, **2004**, 3, 235-252	1.3	14
100	Paranemic crossover DNA: a generalized Holliday structure with applications in nanotechnology. *Journal of the American Chemical Society*, **2004**, 126, 1666-74	16.4	152
99	DNA: beyond the double helix. *Macromolecular Symposia*, **2003**, 201, 237-244	0.8	1
98	Computation by Self-assembly of DNA Graphs. *Genetic Programming and Evolvable Machines*, **2003**, 4, 123-137	2	23
97	Coding and geometrical shapes in nanostructures: A fractal DNA-assembly. *Natural Computing*, **2003**, 2, 133-151	1.3	14
96	Self-assembling DNA graphs. *Natural Computing*, **2003**, 2, 427-438	1.3	12
95	At the crossroads of chemistry, biology, and materials: structural DNA nanotechnology. *Chemistry and Biology*, **2003**, 10, 1151-9		154
94	DNA nanotechnology. *Materials Today*, **2003**, 6, 24-29	21.8	21
93	DNA in a material world. *Nature*, **2003**, 421, 427-31	50.4	2261
92	Biochemistry and structural DNA nanotechnology: an evolving symbiotic relationship. *Biochemistry*, **2003**, 42, 7259-69	3.2	147
91	The flexibility of DNA double crossover molecules. *Biophysical Journal*, **2003**, 84, 3829-37	2.9	119
90	Nylon/DNA: Single-stranded DNA with a covalently stitched nylon lining. *Journal of the American Chemical Society*, **2003**, 125, 10178-9	16.4	45
89	The eternal molecule **2003**, 82-139		
88	Transducers with Programmable Input by DNA Self-assembly. *Lecture Notes in Computer Science*, **2003**, 219-240	0.9	5

87	Molecular Tiling and DNA Self-assembly. *Lecture Notes in Computer Science*, **2003**, 61-83	0.9	5
86	A robust DNA mechanical device controlled by hybridization topology. *Nature*, **2002**, 415, 62-5	50.4	670
85	It started with Watson and Crick, but it sure didn't end there: Pitfalls and possibilities beyond the classic double helix. *Natural Computing*, **2002**, 1, 53-84	1.3	10
84	Selfassembly of Metallic Nanoparticle Arrays by DNA Scaffolding. *Journal of Nanoparticle Research*, **2002**, 4, 313-317	2.3	120
83	A route to fractal DNA-assembly. *Natural Computing*, **2002**, 1, 469-480	1.3	9
82	Circuits and programmable self-assembling DNA structures. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 12577-82	11.5	60
81	Paranemic cohesion of topologically-closed DNA molecules. *Journal of the American Chemical Society*, **2002**, 124, 12940-1	16.4	84
80	Parallel symmetric immobile DNA junctions as substrates for E. coli RuvC Holliday junction resolvase. *Biochemistry*, **2002**, 41, 10985-93	3.2	7
79	Emulating biology: building nanostructures from the bottom up. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99 Suppl 2, 6451-5	11.5	343
78	Key experimental approaches in DNA nanotechnology. *Current Protocols in Nucleic Acid Chemistry*, **2002**, Chapter 12, Unit 12.1	0.5	7
77	Reaction of N3-benzoyl-3',5'-O-(di-tert-butylsilanediyl)uridine with hindered electrophiles: intermolecular N3 to 2'-O protecting group transfer. *Nucleosides, Nucleotides and Nucleic Acids*, **2002**, 21, 723-35	1.4	7
76	Atomic force microscopic measurement of the interdomain angle in symmetric Holliday junctions. *Biochemistry*, **2002**, 41, 5950-5	3.2	45
75	Edge-sharing motifs in structural DNA nanotechnology. *Journal of Supramolecular Chemistry*, **2001**, 1, 229-237		12
74	DNA Nicks and Nodes and Nanotechnology. *Nano Letters*, **2001**, 1, 22-26	11.5	139
73	Challenges and applications for self-assembled DNA nanostructures?. *Lecture Notes in Computer Science*, **2001**, 173-198	0.9	19
72	Atomic force microscopy of parallel DNA branched junction arrays. *Chemistry and Biology*, **2000**, 7, 743-51		63
71	Logical computation using algorithmic self-assembly of DNA triple-crossover molecules. *Nature*, **2000**, 407, 493-6	50.4	580
70	Two dimensions and two States in DNA nanotechnology. *Journal of Biomolecular Structure and Dynamics*, **2000**, 17 Suppl 1, 253-62	3.6	10

69	Construction, Analysis, Ligation, and Self-Assembly of DNA Triple Crossover Complexes. *Journal of the American Chemical Society*, **2000**, 122, 1848-1860	16.4	568
68	Direct evidence for spontaneous branch migration in antiparallel DNA Holliday junctions. *Biochemistry*, **2000**, 39, 11514-22	3.2	19
67	Nicks, Nodes, and New Motifs for DNA Nanotechnology **2000**, 177-197		
66	A nanomechanical device based on the B-Z transition of DNA. *Nature*, **1999**, 397, 144-6	50.4	726
65	DNA Nanotechnology. *Nature Biotechnology*, **1999**, 17, 11-11	44.5	2
64	DNA engineering and its application to nanotechnology. *Trends in Biotechnology*, **1999**, 17, 437-43	15.1	227
63	Designed Two-Dimensional DNA Holliday Junction Arrays Visualized by Atomic Force Microscopy. *Journal of the American Chemical Society*, **1999**, 121, 5437-5443	16.4	431
62	Modifying the Surface Features of Two-Dimensional DNA Crystals. *Journal of the American Chemical Society*, **1999**, 121, 917-922	16.4	118
61	Parallel helical domains in DNA branched junctions containing 5',5' and 3',3' linkages. *Biochemistry*, **1999**, 38, 2832-41	3.2	19
60	No braiding of Holliday junctions in positively supercoiled DNA molecules. *Journal of Molecular Biology*, **1999**, 294, 683-99	6.5	9
59	Synthetic DNA Topology **1999**, 323-356		7
58	Design and self-assembly of two-dimensional DNA crystals. *Nature*, **1998**, 394, 539-44	50.4	2279
57	Torsional control of double-stranded DNA branch migration. *Biopolymers*, **1998**, 45, 69-83	2.2	56
56	Nanostrukturen und Topologien von Nucleins□ren. *Angewandte Chemie*, **1998**, 110, 3408-3428	3.6	82
55	Nucleic Acid Nanostructures and Topology. *Angewandte Chemie - International Edition*, **1998**, 37, 3220-3238	11.4	273
54	Sequence dependence of branch migratory minima. *Journal of Molecular Biology*, **1998**, 282, 59-70	6.5	29
53	DNA nanotechnology: novel DNA constructions. *Annual Review of Biophysics and Biomolecular Structure*, **1998**, 27, 225-48		325
52	Ligation of DNA Triangles Containing Double Crossover Molecules. *Journal of the American Chemical Society*, **1998**, 120, 9779-9786	16.4	105

51	Torsional control of double-stranded DNA branch migration **1998**, 45, 69		1
50	Nanostrukturen und Topologien von Nucleinsäuren **1998**, 110, 3408		1
49	Direct evidence for Holliday junction crossover isomerization. *Biochemistry*, **1997**, 36, 4240-7	3.2	30
48	DNA Components for Molecular Architecture. *Accounts of Chemical Research*, **1997**, 30, 357-363	24.3	133
47	A DNA decamer with a sticky end: the crystal structure of d-CGACGATCGT. *Journal of Molecular Biology*, **1997**, 267, 881-98	6.5	88
46	Assembly of Borromean rings from DNA. *Nature*, **1997**, 386, 137-8	50.4	266
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