

Nadrian C Seeman

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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	Design and self-assembly of two-dimensional DNA crystals. <i>Nature</i> , 1998 , 394, 539-44	50.4	2279
247	DNA in a material world. <i>Nature</i> , 2003 , 421, 427-31	50.4	2261
246	Nucleic acid junctions and lattices. <i>Journal of Theoretical Biology</i> , 1982 , 99, 237-47	2.3	1692
245	Synthesis from DNA of a molecule with the connectivity of a cube. <i>Nature</i> , 1991 , 350, 631-3	50.4	1084
244	Nanomaterials. Programmable materials and the nature of the DNA bond. <i>Science</i> , 2015 , 347, 1260901	33.3	924
243	Nanomaterials based on DNA. <i>Annual Review of Biochemistry</i> , 2010 , 79, 65-87	29.1	848
242	From molecular to macroscopic via the rational design of a self-assembled 3D DNA crystal. <i>Nature</i> , 2009 , 461, 74-7	50.4	726
241	A nanomechanical device based on the B-Z transition of DNA. <i>Nature</i> , 1999 , 397, 144-6	50.4	726
240	DNA nanotechnology. <i>Nature Reviews Materials</i> , 2018 , 3,	73.3	719
239	A robust DNA mechanical device controlled by hybridization topology. <i>Nature</i> , 2002 , 415, 62-5	50.4	670
238	A proximity-based programmable DNA nanoscale assembly line. <i>Nature</i> , 2010 , 465, 202-5	50.4	657
237	DNA double-crossover molecules. <i>Biochemistry</i> , 1993 , 32, 3211-20	3.2	635
236	Logical computation using algorithmic self-assembly of DNA triple-crossover molecules. <i>Nature</i> , 2000 , 407, 493-6	50.4	580
235	Construction, Analysis, Ligation, and Self-Assembly of DNA Triple Crossover Complexes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1848-1860	16.4	568
234	A Precisely Controlled DNA Biped Walking Device. <i>Nano Letters</i> , 2004 , 4, 1203-1207	11.5	495
233	A bipedal DNA Brownian motor with coordinated legs. <i>Science</i> , 2009 , 324, 67-71	33.3	488
232	Construction of a DNA-Truncated Octahedron. <i>Journal of the American Chemical Society</i> , 1994 , 116, 1661-1669	16.6	487

231	An immobile nucleic acid junction constructed from oligonucleotides. <i>Nature</i> , 1983 , 305, 829-831	50.4	479
230	Designed Two-Dimensional DNA Holliday Junction Arrays Visualized by Atomic Force Microscopy. <i>Journal of the American Chemical Society</i> , 1999 , 121, 5437-5443	16.4	431
229	DNA-Templated Self-Assembly of Metallic Nanocomponent Arrays on a Surface. <i>Nano Letters</i> , 2004 , 4, 2343-2347	11.5	418
228	Two-dimensional nanoparticle arrays show the organizational power of robust DNA motifs. <i>Nano Letters</i> , 2006 , 6, 1502-4	11.5	385
227	An overview of structural DNA nanotechnology. <i>Molecular Biotechnology</i> , 2007 , 37, 246-57	3	360
226	Emulating biology: building nanostructures from the bottom up. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99 Suppl 2, 6451-5	11.5	343
225	RNA double-helical fragments at atomic resolution. I. The crystal and molecular structure of sodium adenylyl-3',5'-uridine hexahydrate. <i>Journal of Molecular Biology</i> , 1976 , 104, 109-44	6.5	341
224	DNA nanotechnology: novel DNA constructions. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 1998 , 27, 225-48		325
223	From genes to machines: DNA nanomechanical devices. <i>Trends in Biochemical Sciences</i> , 2005 , 30, 119-25	10.3	320
222	Crystalline two-dimensional DNA-origami arrays. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 264-7	16.4	286
221	Nucleic Acid Nanostructures and Topology. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 3220-3238	16.4	273
220	De novo design of sequences for nucleic acid structural engineering. <i>Journal of Biomolecular Structure and Dynamics</i> , 1990 , 8, 573-81	3.6	273
219	Assembly of Borromean rings from DNA. <i>Nature</i> , 1997 , 386, 137-8	50.4	266
218	Six-helix bundles designed from DNA. <i>Nano Letters</i> , 2005 , 5, 661-5	11.5	252
217	DNA engineering and its application to nanotechnology. <i>Trends in Biotechnology</i> , 1999 , 17, 437-43	15.1	227
216	Antiparallel DNA Double Crossover Molecules As Components for Nanoconstruction. <i>Journal of the American Chemical Society</i> , 1996 , 118, 6131-6140	16.4	223
215	Operation of a DNA robot arm inserted into a 2D DNA crystalline substrate. <i>Science</i> , 2006 , 314, 1583-5	33.3	199
214	Pseudo-hexagonal 2D DNA crystals from double crossover cohesion. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10230-1	16.4	192

213	Three-arm nucleic acid junctions are flexible. <i>Nucleic Acids Research</i> , 1986 , 14, 9745-53	20.1	189
212	Assembly and characterization of five-arm and six-arm DNA branched junctions. <i>Biochemistry</i> , 1991 , 30, 5667-74	3.2	182
211	Sequence-encoded self-assembly of multiple-nanocomponent arrays by 2D DNA scaffolding. <i>Nano Letters</i> , 2005 , 5, 2399-402	11.5	176
210	At the crossroads of chemistry, biology, and materials: structural DNA nanotechnology. <i>Chemistry and Biology</i> , 2003 , 10, 1151-9		154
209	Paranemic crossover DNA: a generalized Holliday structure with applications in nanotechnology. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1666-74	16.4	152
208	Translation of DNA signals into polymer assembly instructions. <i>Science</i> , 2004 , 306, 2072-4	33.3	151
207	Nucleic Acid Nanostructures: Bottom-Up Control of Geometry on the Nanoscale. <i>Reports on Progress in Physics</i> , 2005 , 68, 237-270	14.4	149
206	Biochemistry and structural DNA nanotechnology: an evolving symbiotic relationship. <i>Biochemistry</i> , 2003 , 42, 7259-69	3.2	147
205	DNA Nicks and Nodes and Nanotechnology. <i>Nano Letters</i> , 2001 , 1, 22-26	11.5	139
204	DNA Components for Molecular Architecture. <i>Accounts of Chemical Research</i> , 1997 , 30, 357-363	24.3	133
203	The design of a biochip: a self-assembling molecular-scale memory device. <i>Protein Engineering, Design and Selection</i> , 1987 , 1, 295-300	1.9	129
202	Structural DNA nanotechnology: growing along with Nano Letters. <i>Nano Letters</i> , 2010 , 10, 1971-8	11.5	128
201	Dynamic patterning programmed by DNA tiles captured on a DNA origami substrate. <i>Nature Nanotechnology</i> , 2009 , 4, 245-8	28.7	128
200	The label-free unambiguous detection and symbolic display of single nucleotide polymorphisms on DNA origami. <i>Nano Letters</i> , 2011 , 11, 910-3	11.5	120
199	Selfassembly of Metallic Nanoparticle Arrays by DNA Scaffolding. <i>Journal of Nanoparticle Research</i> , 2002 , 4, 313-317	2.3	120
198	The flexibility of DNA double crossover molecules. <i>Biophysical Journal</i> , 2003 , 84, 3829-37	2.9	119
197	Modifying the Surface Features of Two-Dimensional DNA Crystals. <i>Journal of the American Chemical Society</i> , 1999 , 121, 917-922	16.4	118
196	Simple quantitative model for the reversible association of DNA coated colloids. <i>Physical Review Letters</i> , 2009 , 102, 048301	7.4	115

195	Assembly and characterization of 8-arm and 12-arm DNA branched junctions. <i>Journal of the American Chemical Society</i> , 2007 , 129, 8169-76	16.4	112
194	Nanotechnology and the double helix. <i>Scientific American</i> , 2004 , 290, 64-9, 72-5	0.5	105
193	Ligation of DNA Triangles Containing Double Crossover Molecules. <i>Journal of the American Chemical Society</i> , 1998 , 120, 9779-9786	16.4	105
192	The ligation and flexibility of four-arm DNA junctions. <i>Biopolymers</i> , 1988 , 27, 1337-52	2.2	105
191	Crystal structure of a continuous three-dimensional DNA lattice. <i>Chemistry and Biology</i> , 2004 , 11, 1119-26		103
190	A synthetic DNA molecule in three knotted topologies. <i>Journal of the American Chemical Society</i> , 1995 , 117, 1194-1200	16.4	102
189	Six-helix and eight-helix DNA nanotubes assembled from half-tubes. <i>Nano Letters</i> , 2007 , 7, 1757-63	11.5	101
188	In vivo cloning of artificial DNA nanostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17626-31	11.5	99
187	Design and synthesis of a knot from single-stranded DNA. <i>Journal of the American Chemical Society</i> , 1991 , 113, 6306-6308	16.4	97
186	Self-replication of information-bearing nanoscale patterns. <i>Nature</i> , 2011 , 478, 225-8	50.4	93
185	A DNA decamer with a sticky end: the crystal structure of d-CGACGATCGT. <i>Journal of Molecular Biology</i> , 1997 , 267, 881-98	6.5	88
184	Self-assembled three-dimensional chiral colloidal architecture. <i>Science</i> , 2017 , 358, 633-636	33.3	85
183	Construction of three-dimensional stick figures from branched DNA. <i>DNA and Cell Biology</i> , 1991 , 10, 475-86	3.6	85
182	DNA tube structures controlled by a four-way-branched DNA connector. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6074-7	16.4	84
181	Paranemic cohesion of topologically-closed DNA molecules. <i>Journal of the American Chemical Society</i> , 2002 , 124, 12940-1	16.4	84
180	Nanostrukturen und Topologien von Nucleinsäuren. <i>Angewandte Chemie</i> , 1998 , 110, 3408-3428	3.6	82
179	Designer DNA architecture offers precise and multivalent spatial pattern-recognition for viral sensing and inhibition. <i>Nature Chemistry</i> , 2020 , 12, 26-35	17.6	82
178	Towards self-replicating materials of DNA-functionalized colloids. <i>Soft Matter</i> , 2009 , 5, 2422	3.6	78

177	Aggregation-disaggregation transition of DNA-coated colloids: experiments and theory. <i>Physical Review E</i> , 2010 , 81, 041404	2.4	77
176	Crystalline Two-Dimensional DNA-Origami Arrays. <i>Angewandte Chemie</i> , 2011 , 123, 278-281	3.6	72
175	Amyloid fibrils nucleated and organized by DNA origami constructions. <i>Nature Nanotechnology</i> , 2014 , 9, 537-41	28.7	70
174	Holliday junction crossover topology. <i>Journal of Molecular Biology</i> , 1994 , 236, 91-105	6.5	70
173	Architecture with GIDEON, a program for design in structural DNA nanotechnology. <i>Journal of Molecular Graphics and Modelling</i> , 2006 , 25, 470-80	2.8	68
172	The design and engineering of nucleic acid nanoscale assemblies. <i>Current Opinion in Structural Biology</i> , 1996 , 6, 519-26	8.1	68
171	A DNA-based nanomechanical device with three robust states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17245-9	11.5	67
170	Structural DNA nanotechnology: an overview. <i>Methods in Molecular Biology</i> , 2005 , 303, 143-66	1.4	65
169	Synthesis of a DNA knot containing both positive and negative nodes. <i>Journal of the American Chemical Society</i> , 1992 , 114, 9652-9655	16.4	64
168	Atomic force microscopy of parallel DNA branched junction arrays. <i>Chemistry and Biology</i> , 2000 , 7, 743-51		63
167	Design and characterization of 1D nanotubes and 2D periodic arrays self-assembled from DNA multi-helix bundles. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1606-16	16.4	62
166	Circuits and programmable self-assembling DNA structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 12577-82	11.5	60
165	Rolling circle enzymatic replication of a complex multi-crossover DNA nanostructure. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14475-81	16.4	59
164	A protein-driven DNA device that measures the excess binding energy of proteins that distort DNA. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 4750-2	16.4	57
163	DNA junctions, antijunctions, and mesojunctions. <i>Biochemistry</i> , 1992 , 31, 10955-63	3.2	57
162	Torsional control of double-stranded DNA branch migration. <i>Biopolymers</i> , 1998 , 45, 69-83	2.2	56
161	A DNA crystal designed to contain two molecules per asymmetric unit. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15471-3	16.4	55
160	Thermodynamics of DNA branching. <i>Journal of Molecular Biology</i> , 1992 , 223, 781-9	6.5	55

159	A solid-support methodology for the construction of geometrical objects from DNA. <i>Journal of the American Chemical Society</i> , 1992 , 114, 2656-2663	16.4	54
158	Functionalizing designer DNA crystals with a triple-helical veneer. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3979-82	16.4	51
157	The design of single-stranded nucleic acid knots. <i>Molecular Engineering</i> , 1992 , 2, 297-307		51
156	Coupling across a DNA helical turn yields a hybrid DNA/organic catenane doubly tailed with functional termini. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10882-3	16.4	48
155	A device that operates within a self-assembled 3D DNA crystal. <i>Nature Chemistry</i> , 2017 , 9, 824-827	17.6	47
154	DNA scissors device used to measure MutS binding to DNA mis-pairs. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4352-7	16.4	47
153	Nylon/DNA: Single-stranded DNA with a covalently stitched nylon lining. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10178-9	16.4	45
152	Atomic force microscopic measurement of the interdomain angle in symmetric Holliday junctions. <i>Biochemistry</i> , 2002 , 41, 5950-5	3.2	45
151	A specific quadrilateral synthesized from DNA branched junctions. <i>Journal of the American Chemical Society</i> , 1989 , 111, 6402-6407	16.4	45
150	Macromolecular design, nucleic acid junctions, and crystal formation. <i>Journal of Biomolecular Structure and Dynamics</i> , 1985 , 3, 11-34	3.6	45
149	Two dimensional PNA/DNA arrays: estimating the helicity of unusual nucleic acid polymers. <i>Chemical Communications</i> , 2004 , 1694-5	5.8	44
148	Ligation of Triangles Built from Bulged 3-Arm DNA Branched Junctions. <i>Journal of the American Chemical Society</i> , 1996 , 118, 6121-6130	16.4	44
147	Sequential self-assembly of DNA functionalized droplets. <i>Nature Communications</i> , 2017 , 8, 21	17.4	43
146	Functional DNAzymes organized into two-dimensional arrays. <i>Nano Letters</i> , 2006 , 6, 1505-7	11.5	43
145	RNA used to control a DNA rotary nanomachine. <i>Nano Letters</i> , 2006 , 6, 2899-903	11.5	43
144	Post-Assembly Stabilization of Rationally Designed DNA Crystals. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9936-9	16.4	42
143	Self-assembly of irregular graphs whose edges are DNA helix axes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6648-57	16.4	42
142	Symmetric Holliday junction crossover isomers. <i>Journal of Molecular Biology</i> , 1994 , 238, 658-68	6.5	42

141	Paranemic Crossover DNA: There and Back Again. <i>Chemical Reviews</i> , 2019 , 119, 6273-6289	68.1	41
140	Topological transformations of synthetic DNA knots. <i>Biochemistry</i> , 1995 , 34, 673-82	3.2	41
139	Cinnamate-based DNA photolithography. <i>Nature Materials</i> , 2013 , 12, 747-53	27	40
138	Construction and Structure Determination of a Three-Dimensional DNA Crystal. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10047-54	16.4	38
137	Double cohesion in structural DNA nanotechnology. <i>Organic and Biomolecular Chemistry</i> , 2006 , 4, 3414-9	3.9	38
136	Physical models for exploring DNA topology. <i>Journal of Biomolecular Structure and Dynamics</i> , 1988 , 5, 997-1004	3.6	38
135	Self-assembled DNA crystals: the impact on resolution of 5'-phosphates and the DNA source. <i>Nano Letters</i> , 2013 , 13, 793-7	11.5	37
134	Symmetric immobile DNA branched junctions. <i>Biochemistry</i> , 1993 , 32, 8062-7	3.2	37
133	Automatic molecular weaving prototyped by using single-stranded DNA. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4419-22	16.4	34
132	The construction of a trefoil knot from a DNA branched junction motif. <i>Biopolymers</i> , 1994 , 34, 31-7	2.2	34
131	DNA enables nanoscale control of the structure of matter. <i>Quarterly Reviews of Biophysics</i> , 2005 , 38, 363-71	7	33
130	Exponential growth and selection in self-replicating materials from DNA origami rafts. <i>Nature Materials</i> , 2017 , 16, 993-997	27	32
129	Blunt-ended DNA stacking interactions in a 3-helix motif. <i>Chemical Communications</i> , 2010 , 46, 4905-7	5.8	32
128	Charge splitters and charge transport junctions based on guanine quadruplexes. <i>Nature Nanotechnology</i> , 2018 , 13, 316-321	28.7	31
127	Design of minimally strained nucleic Acid nanotubes. <i>Biophysical Journal</i> , 2006 , 90, 4546-57	2.9	31
126	Stabilisation of self-assembled DNA crystals by triplex-directed photo-cross-linking. <i>Chemical Communications</i> , 2016 , 52, 8014-7	5.8	30
125	Tuning the Cavity Size and Chirality of Self-Assembling 3D DNA Crystals. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11254-11260	16.4	30
124	ASYNCHRONOUS SIGNAL PASSING FOR TILE SELF-ASSEMBLY: FUEL EFFICIENT COMPUTATION AND EFFICIENT ASSEMBLY OF SHAPES. <i>International Journal of Foundations of Computer Science</i> , 2014 , 25, 459-488	0.6	30

123	Double-stranded DNA homology produces a physical signature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12547-52	11.5	30
122	Polygamous particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 18731-6	11.5	30
121	Direct evidence for Holliday junction crossover isomerization. <i>Biochemistry</i> , 1997 , 36, 4240-7	3.2	30
120	Making Engineered 3D DNA Crystals Robust. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15850-15855	16.4	29
119	Sequence dependence of branch migratory minima. <i>Journal of Molecular Biology</i> , 1998 , 282, 59-70	6.5	29
118	Structural DNA Nanotechnology 2015 ,		29
117	Cleavage of double-crossover molecules by T4 endonuclease VII. <i>Biochemistry</i> , 1994 , 33, 3896-905	3.2	28
116	Designing Higher Resolution Self-Assembled 3D DNA Crystals via Strand Terminus Modifications. <i>ACS Nano</i> , 2019 , 13, 7957-7965	16.7	27
115	Organizing End-Site-Specific SWCNTs in Specific Loci Using DNA. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11923-11928	16.4	27
114	Tight single-stranded DNA knots. <i>Journal of Biomolecular Structure and Dynamics</i> , 1993 , 10, 853-63	3.6	27
113	An Organic Semiconductor Organized into 3D DNA Arrays by "Bottom-up" Rational Design. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6445-6448	16.4	26
112	Covalent Linkage of One-Dimensional DNA Arrays Bonded by Paranemic Cohesion. <i>ACS Nano</i> , 2015 , 9, 10304-12	16.7	26
111	Hierarchical Self Assembly of Patterns from the Robinson Tilings: DNA Tile Design in an Enhanced Tile Assembly Model. <i>Natural Computing</i> , 2012 , 11, 323-338	1.3	26
110	Prototyping nanorod control: A DNA double helix sheathed within a DNA six-helix bundle. <i>Chemistry and Biology</i> , 2009 , 16, 862-7		26
109	A Signal-Passing DNA-Strand-Exchange Mechanism for Active Self-Assembly of DNA Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5939-42	16.4	25
108	The absence of tertiary interactions in a self-assembled DNA crystal structure. <i>Journal of Molecular Recognition</i> , 2012 , 25, 234-7	2.6	25
107	PX DNA triangle oligomerized using a novel three-domain motif. <i>Nano Letters</i> , 2008 , 8, 317-22	11.5	25
106	The electrophoretic properties of a DNA cube and its substructure catenanes. <i>Electrophoresis</i> , 1991 , 12, 607-11	3.6	25

105	Topological Linkage of DNA Tiles Bonded by Paranemic Cohesion. <i>ACS Nano</i> , 2015 , 9, 10296-303	16.7	24
104	Nanoscale Structure and Elasticity of Pillared DNA Nanotubes. <i>ACS Nano</i> , 2016 , 10, 7780-91	16.7	24
103	Asynchronous Signal Passing for Tile Self-assembly: Fuel Efficient Computation and Efficient Assembly of Shapes. <i>Lecture Notes in Computer Science</i> , 2013 , 174-185	0.9	24
102	Computation by Self-assembly of DNA Graphs. <i>Genetic Programming and Evolvable Machines</i> , 2003 , 4, 123-137	2	23
101	DNA Tube Structures Controlled by a Four-Way-Branched DNA Connector. <i>Angewandte Chemie</i> , 2005 , 117, 6228-6231	3.6	22
100	DNA nanotechnology. <i>Materials Today</i> , 2003 , 6, 24-29	21.8	21
99	Three-dimensional molecular and nanoparticle crystallization by DNA nanotechnology. <i>MRS Bulletin</i> , 2017 , 42, 904-912	3.2	20
98	A simple DNA-based translation system. <i>Nano Letters</i> , 2007 , 7, 480-3	11.5	20
97	Kinetics of DNA-coated sticky particles. <i>Physical Review E</i> , 2013 , 88, 022304	2.4	19
96	Reciprocal DNA nanomechanical devices controlled by the same set strands. <i>Nano Letters</i> , 2009 , 9, 2641-2645	11.5	19
95	Direct evidence for spontaneous branch migration in antiparallel DNA Holliday junctions. <i>Biochemistry</i> , 2000 , 39, 11514-22	3.2	19
94	Parallel helical domains in DNA branched junctions containing 5',5' and 3',3' linkages. <i>Biochemistry</i> , 1999 , 38, 2832-41	3.2	19
93	Structural domains of DNA mesojunctions. <i>Biochemistry</i> , 1995 , 34, 920-9	3.2	19
92	Interactive design and manipulation of macro-molecular architecture utilizing nucleic acid junctions. <i>Journal of Molecular Graphics</i> , 1985 , 3, 34-39		19
91	Challenges and applications for self-assembled DNA nanostructures?. <i>Lecture Notes in Computer Science</i> , 2001 , 173-198	0.9	19
90	Construction of a DNA nano-object directly demonstrates computation. <i>BioSystems</i> , 2009 , 98, 80-4	1.9	18
89	Morphology Change of Calcium Carbonate in the Presence of Two-Dimensional DNA Lattices. <i>Crystal Growth and Design</i> , 2008 , 8, 1200-1202	3.5	18
88	A topological rubber glove obtained from a synthetic single-stranded DNA molecule. <i>Journal of the Chemical Society Chemical Communications</i> , 1995 , 2249		18

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86	Multivalent, multiflavored droplets by design. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9086-9091	11.5	16
85	Self-Assembly of 3D DNA Crystals Containing a Torsionally Stressed Component. <i>Cell Chemical Biology</i> , 2017 , 24, 1401-1406.e2	8.2	15
84	Functionalizing Designer DNA Crystals with a Triple-Helical Veneer. <i>Angewandte Chemie</i> , 2014 , 126, 4060-4063	5.15	15
83	Modulating Self-Assembly of DNA Crystals with Rationally Designed Agents. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16529-16532	16.4	15
82	Thermodynamic analysis of nylon nucleic acids. <i>ChemBioChem</i> , 2008 , 9, 1641-8	3.8	14
81	3D Fractal DNA Assembly from Coding, Geometry and Protection. <i>Natural Computing</i> , 2004 , 3, 235-252	1.3	14
80	Coding and geometrical shapes in nanostructures: A fractal DNA-assembly. <i>Natural Computing</i> , 2003 , 2, 133-151	1.3	14
79	3D DNA Crystals and Nanotechnology. <i>Crystals</i> , 2016 , 6, 97	2.3	14
78	Construction of a DNA Origami Based Molecular Electro-optical Modulator. <i>Nano Letters</i> , 2018 , 18, 2112-2115	15	13
77	Atomic structures of RNA nanotubes and their comparison with DNA nanotubes. <i>Nanoscale</i> , 2019 , 11, 14863-14878	7.7	13
76	Site-specific inter-strand cross-links of DNA duplexes. <i>Chemical Science</i> , 2013 , 4, 1319-1329	9.4	13
75	Metallic nanoparticles used to estimate the structural integrity of DNA motifs. <i>Biophysical Journal</i> , 2008 , 95, 3340-8	2.9	13
74	ON THE CHEMICAL SYNTHESIS OF NEW TOPOLOGICAL STRUCTURES. <i>Journal of Mathematical Chemistry</i> , 2012 , 50, 220-232	2.1	12
73	Templated synthesis of nylon nucleic acids and characterization by nuclease digestion. <i>Chemical Science</i> , 2012 , 3, 1930-1937	9.4	12
72	A Protein-Driven DNA Device That Measures the Excess Binding Energy of Proteins That Distort DNA. <i>Angewandte Chemie</i> , 2004 , 116, 4854-4856	3.6	12
71	Self-assembling DNA graphs. <i>Natural Computing</i> , 2003 , 2, 427-438	1.3	12
70	Edge-sharing motifs in structural DNA nanotechnology. <i>Journal of Supramolecular Chemistry</i> , 2001 , 1, 229-237		12

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68	2',2'-Ligation demonstrates the thermal dependence of DNA-directed positional control. <i>Tetrahedron</i> , 2008 , 64, 8417-8422	2.4	11
67	Automatic Molecular Weaving Prototyped by Using Single-Stranded DNA. <i>Angewandte Chemie</i> , 2011 , 123, 4511-4514	3.6	10
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