

# Tim Liedl

## List of Publications by Year in descending order

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116  
papers

16,685  
citations

25034

57  
h-index

28297

105  
g-index

124  
all docs

124  
docs citations

124  
times ranked

16031  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible wavelength spectral tuning of absorption and circular dichroism of DNA-assembled Au/Ag core-shell nanorod assemblies. <i>Materials Advances</i> , 2022, 3, 3438-3445.	5.4	4
2	Chiral Bioinspired Plasmonics: A Paradigm Shift for Optical Activity and Photochemistry. <i>ACS Photonics</i> , 2022, 9, 2219-2236.	6.6	26
3	DNA Origami-Enabled Plasmonic Sensing. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5969-5981.	3.1	44
4	Unraveling the interaction between doxorubicin and DNA origami nanostructures for customizable chemotherapeutic drug release. <i>Nucleic Acids Research</i> , 2021, 49, 3048-3062.	14.5	95
5	Programmable Design and Performance of Modular Magnetic Microswimmers. <i>Advanced Materials</i> , 2021, 33, e2006237.	21.0	14
6	Long- and short-ranged chiral interactions in DNA-assembled plasmonic chains. <i>Nature Communications</i> , 2021, 12, 2025.	12.8	47
7	The Art of Designing DNA Nanostructures with CAD Software. <i>Molecules</i> , 2021, 26, 2287.	3.8	19
8	Nanoscale FasL Organization on DNA Origami to Decipher Apoptosis Signal Activation in Cells. <i>Small</i> , 2021, 17, e2101678.	10.0	48
9	DNA Origami Meets Bottom-Up Nanopatterning. <i>ACS Nano</i> , 2021, 15, 10769-10774.	14.6	24
10	Chiral Photomelting of DNA-Nanocrystal Assemblies Utilizing Plasmonic Photoheating. <i>Nano Letters</i> , 2021, 21, 7298-7308.	9.1	20
11	Double- to Single-Strand Transition Induces Forces and Motion in DNA Origami Nanostructures. <i>Advanced Materials</i> , 2021, 33, e2101986.	21.0	22
12	Photophysical Effects behind the Efficiency of Hot Electron Injection in Plasmon-Assisted Catalysis: The Joint Role of Morphology and Composition. <i>ACS Energy Letters</i> , 2020, 5, 395-402.	17.4	36
13	A DNA Origami Platform for Single-Pair Förster Resonance Energy Transfer Investigation of DNA-DNA Interactions and Ligation. <i>Journal of the American Chemical Society</i> , 2020, 142, 815-825.	13.7	21
14	DNA Origami Nano-Sheets and Nano-Rods Alter the Orientational Order in a Lyotropic Chromonic Liquid Crystal. <i>Nanomaterials</i> , 2020, 10, 1695.	4.1	3
15	Chiral Assembly of Gold-Silver Core-Shell Plasmonic Nanorods on DNA Origami with Strong Optical Activity. <i>ACS Nano</i> , 2020, 14, 7454-7461.	14.6	63
16	DNA origami-based single-molecule force spectroscopy elucidates RNA Polymerase III pre-initiation complex stability. <i>Nature Communications</i> , 2020, 11, 2828.	12.8	36
17	Cryopreservation of DNA Origami Nanostructures. <i>Small</i> , 2020, 16, e1905959.	10.0	37
18	Enzymatic degradation of liquid droplets of DNA is modulated near the phase boundary. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16160-16166.	7.1	45

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19	Siliciumdioxidwachstum auf DNA-Origamitemplaten durch Sol-Gel-Chemie. <i>Angewandte Chemie</i> , 2019, 131, 924-928.	2.0	8
20	Dual Aptamer-Functionalized 3D Plasmonic Metamolecule for Thrombin Sensing. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3006.	2.5	28
21	From DNA Tiles to Functional DNA Materials. <i>Trends in Chemistry</i> , 2019, 1, 799-814.	8.5	43
22	Directing Single-Molecule Emission with DNA Origami-Assembled Optical Antennas. <i>Nano Letters</i> , 2019, 19, 6629-6634.	9.1	37
23	Chiral Plasmonic Nanocrystals for Generation of Hot Electrons: Toward Polarization-Sensitive Photochemistry. <i>Nano Letters</i> , 2019, 19, 1395-1407.	9.1	83
24	Clocking growth and collapse. <i>Nature Chemistry</i> , 2019, 11, 497-499.	13.6	2
25	DNA nanostructures in vitro, in vivo and on membranes. <i>Nano Today</i> , 2019, 26, 98-107.	11.9	35
26	DNA-Based Assembly of Quantum Dots into Dimers and Helices. <i>Nanomaterials</i> , 2019, 9, 339.	4.1	14
27	DNA-Mediated Self-Assembly of Plasmonic Antennas with a Single Quantum Dot in the Hot Spot. <i>Small</i> , 2019, 15, e1804418.	10.0	29
28	Single Particle Tracking and Super-Resolution Imaging of Membrane-Assisted Stop-and-Go Diffusion and Lattice Assembly of DNA Origami. <i>ACS Nano</i> , 2019, 13, 996-1002.	14.6	28
29	DNA-Origami-Templated Silica Growth by Sol-Gel Chemistry. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 912-916.	13.8	103
30	Long-Range Plasmon-Assisted Chiral Interactions in Nanocrystal Assemblies. <i>ACS Photonics</i> , 2019, 6, 749-756.	6.6	15
31	Position Accuracy of Gold Nanoparticles on DNA Origami Structures Studied with Small-Angle X-ray Scattering. <i>Nano Letters</i> , 2018, 18, 2609-2615.	9.1	43
32	DNA-Assembled Advanced Plasmonic Architectures. <i>Chemical Reviews</i> , 2018, 118, 3032-3053.	47.7	313
33	Circular Dichroism of Chiral Molecules in DNA-Assembled Plasmonic Hotspots. <i>ACS Nano</i> , 2018, 12, 9110-9115.	14.6	110
34	3D DNA Origami Crystals. <i>Advanced Materials</i> , 2018, 30, e1800273.	21.0	150
35	Force-Induced Unravelling of DNA Origami. <i>ACS Nano</i> , 2018, 12, 6734-6747.	14.6	55
36	Sensing Picomolar Concentrations of RNA Using Switchable Plasmonic Chirality. <i>Angewandte Chemie</i> , 2018, 130, 13683-13686.	2.0	33

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37	Sensing Picomolar Concentrations of RNA Using Switchable Plasmonic Chirality. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13495-13498.	13.8	118
38	Self-Assembled DNA Tubes Forming Helices of Controlled Diameter and Chirality. <i>ACS Nano</i> , 2017, 11, 1301-1306.	14.6	52
39	Hotspot-mediated non-dissipative and ultrafast plasmon passage. <i>Nature Physics</i> , 2017, 13, 761-765.	16.7	97
40	Dexamethasone-conjugated DNA nanotubes as anti-inflammatory agents in vivo. <i>Biomaterials</i> , 2017, 134, 78-90.	11.4	37
41	Molecular Tools and Nanodevices Built from DNA. <i>Biophysical Journal</i> , 2017, 112, 341a.	0.5	1
42	Establishing a DNA Origami Platform for Single-Molecule Fluorescence Studies of DNA Double-Strand Break Repair. <i>Biophysical Journal</i> , 2017, 112, 515a.	0.5	1
43	Directional Photonic Wire Mediated by Homo-Förster Resonance Energy Transfer on a DNA Origami Platform. <i>ACS Nano</i> , 2017, 11, 11264-11272.	14.6	61
44	Sculpting light by arranging optical components with DNA nanostructures. <i>MRS Bulletin</i> , 2017, 42, 936-942.	3.5	32
45	Proximity-Induced H-Aggregation of Cyanine Dyes on DNA-Duplexes. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9941-9947.	2.5	66
46	DNA Origami Force Balance. <i>Biophysical Journal</i> , 2016, 110, 563a.	0.5	0
47	Shape and Interhelical Spacing of DNA Origami Nanostructures Studied by Small-Angle X-ray Scattering. <i>Nano Letters</i> , 2016, 16, 4282-4287.	9.1	70
48	Liquid Crystals: Alignment and Graphene-Assisted Decoration of Lyotropic Chromonic Liquid Crystals Containing DNA Origami Nanostructures (Small 12/2016). <i>Small</i> , 2016, 12, 1542-1542.	10.0	0
49	Alignment and Graphene-Assisted Decoration of Lyotropic Chromonic Liquid Crystals Containing DNA Origami Nanostructures. <i>Small</i> , 2016, 12, 1658-1666.	10.0	11
50	Quantitative Single-Molecule Surface-Enhanced Raman Scattering by Optothermal Tuning of DNA Origami-Assembled Plasmonic Nanoantennas. <i>ACS Nano</i> , 2016, 10, 9809-9815.	14.6	127
51	DNA Origami Seesaws as Comparative Binding Assay. <i>ChemBioChem</i> , 2016, 17, 1093-1096.	2.6	14
52	Plasmon-Exciton Coupling Using DNA Templates. <i>Nano Letters</i> , 2016, 16, 5962-5966.	9.1	94
53	Molecular force spectroscopy with a DNA origami-based nanoscopic force clamp. <i>Science</i> , 2016, 354, 305-307.	12.6	234
54	Magnetic Propulsion of Microswimmers with DNA-Based Flagellar Bundles. <i>Nano Letters</i> , 2016, 16, 906-910.	9.1	122

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55	Eintopfsynthese von "Kettenhemd"-stabilisierten DNA-Nanostrukturen. <i>Angewandte Chemie</i> , 2015, 127, 7905-7909.	2.0	21
56	One-Step Formation of "Chain-Armor"-Stabilized DNA Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7795-7798.	13.8	123
57	DNA-Assembled Nanoparticle Rings Exhibit Electric and Magnetic Resonances at Visible Frequencies. <i>Nano Letters</i> , 2015, 15, 1368-1373.	9.1	105
58	DNA-Based Self-Assembly of Fluorescent Nanodiamonds. <i>Journal of the American Chemical Society</i> , 2015, 137, 9776-9779.	13.7	66
59	Pathfinder for DNA constructs. <i>Nature</i> , 2015, 523, 412-413.	27.8	3
60	DNA-linked superlattices get into shape. <i>Nature Materials</i> , 2015, 14, 746-749.	27.5	11
61	DNA-Tile Structures Induce Ionic Currents through Lipid Membranes. <i>Nano Letters</i> , 2015, 15, 3134-3138.	9.1	125
62	Membrane-Assisted Growth of DNA Origami Nanostructure Arrays. <i>ACS Nano</i> , 2015, 9, 3530-3539.	14.6	151
63	DNA nanotubes as intracellular delivery vehicles in vivo. <i>Biomaterials</i> , 2015, 53, 453-463.	11.4	98
64	DNA origami based assembly of gold nanoparticle dimers for SERS detection. <i>Proceedings of SPIE</i> , 2015, , ,	0.8	1
65	Cellular Uptake of Tile-Assembled DNA Nanotubes. <i>Nanomaterials</i> , 2015, 5, 47-60.	4.1	53
66	DNA Origami Structures Directly Assembled from Intact Bacteriophages. <i>Small</i> , 2014, 10, 1765-1769.	10.0	39
67	DNA origami based assembly of gold nanoparticle dimers for surface-enhanced Raman scattering. <i>Nature Communications</i> , 2014, 5, 3448.	12.8	377
68	Plasmonic DNA-Origami Nanoantennas for Surface-Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2014, 14, 2914-2919.	9.1	187
69	Hierarchical assembly of metal nanoparticles, quantum dots and organic dyes using DNA origami scaffolds. <i>Nature Nanotechnology</i> , 2014, 9, 74-78.	31.5	417
70	Reconfigurable 3D plasmonic metamolecules. <i>Nature Materials</i> , 2014, 13, 862-866.	27.5	585
71	Dynamic DNA Origami-Based Nanoparticle Assemblies. <i>Biophysical Journal</i> , 2014, 106, 23a.	0.5	0
72	Wireframe and Tensegrity DNA Nanostructures. <i>Accounts of Chemical Research</i> , 2014, 47, 1691-1699.	15.6	72

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73	Chiral Nanostructures with Plasmon and Exciton Resonances. , 2014, , 1-55.		1
74	A Reconfigurable 3D Plasmonic Nanomachine. , 2014, , .		0
75	Nanoscale Structure and Microscale Stiffness of DNA Nanotubes. ACS Nano, 2013, 7, 6700-6710.	14.6	100
76	Nucleic acid nanostructures for biomedical applications. Nanomedicine, 2013, 8, 105-121.	3.3	67
77	M1.3 " a small scaffold for DNA origami". Nanoscale, 2013, 5, 284-290.	5.6	63
78	Single Molecule Mechanical Measurements using 3D DNA-Origami Nanostructures. Biophysical Journal, 2013, 104, 1a.	0.5	0
79	DNA Origami Nanopores. Biophysical Journal, 2013, 104, 517a.	0.5	0
80	DNA Origami Nanopillars as Standards for Three-Dimensional Superresolution Microscopy. Nano Letters, 2013, 13, 781-785.	9.1	76
81	Multiplexed ionic current sensing with glass nanopores. Lab on A Chip, 2013, 13, 1859.	6.0	63
82	Chiral plasmonic DNA nanostructures with switchable circular dichroism. Nature Communications, 2013, 4, 2948.	12.8	289
83	Bifunctional Immunoactive siRNAs as an Approach to Personalized AML Therapy. Blood, 2013, 122, 5036-5036.	1.4	0
84	Distance Dependence of Single-Fluorophore Quenching by Gold Nanoparticles Studied on DNA Origami. ACS Nano, 2012, 6, 3189-3195.	14.6	274
85	Design and Optical Trapping of a Biocompatible Propeller-like Nanoscale Hybrid. Nano Letters, 2012, 12, 5008-5013.	9.1	23
86	Direct Mechanical Measurements Reveal the Material Properties of 3D DNA-Origami. Biophysical Journal, 2012, 102, 421a.	0.5	0
87	Single-Molecule Fluorescence Meets DNA Origami. Biophysical Journal, 2012, 102, 388a.	0.5	0
88	DNA Origami Nanopores. Nano Letters, 2012, 12, 512-517.	9.1	267
89	DNA-based self-assembly of chiral plasmonic nanostructures with tailored optical response. Nature, 2012, 483, 311-314.	27.8	1,868
90	Direct Mechanical Measurements Reveal the Material Properties of Three-Dimensional DNA Origami. Nano Letters, 2011, 11, 5558-5563.	9.1	183

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91	A Structurally Variable Hinged Tetrahedron Framework from DNA Origami. <i>Journal of Nucleic Acids</i> , 2011, 2011, 1-9.	1.2	26
92	Cellular Immunostimulation by CpG-Sequence-Coated DNA Origami Structures. <i>ACS Nano</i> , 2011, 5, 9696-9702.	14.6	433
93	DNA Origami-templated Growth of Arbitrarily Shaped Metal Nanoparticles. <i>Small</i> , 2011, 7, 1795-1799.	10.0	133
94	Single-Molecule FRET Ruler Based on Rigid DNA Origami Blocks. <i>ChemPhysChem</i> , 2011, 12, 689-695.	2.1	129
95	Self-assembly of three-dimensional prestressed tensegrity structures from DNA. <i>Nature Nanotechnology</i> , 2010, 5, 520-524.	31.5	354
96	Design and self-assembly of DNA into nanoscale 3D shapes. , 2009, , .		0
97	Self-assembly of DNA into nanoscale three-dimensional shapes. <i>Nature</i> , 2009, 459, 414-418.	27.8	2,222
98	Folding DNA Origami from a Double-Stranded Source of Scaffold. <i>Journal of the American Chemical Society</i> , 2009, 131, 9154-9155.	13.7	107
99	Pre-stressed Tensegrity Structures built from DNA. <i>Biophysical Journal</i> , 2009, 96, 20a.	0.5	0
100	Single-Molecule Cut-and-Paste Surface Assembly. <i>Science</i> , 2008, 319, 594-596.	12.6	259
101	Isothermal Assembly of DNA Origami Structures Using Denaturing Agents. <i>Journal of the American Chemical Society</i> , 2008, 130, 10062-10063.	13.7	123
102	Bioanalytics and biolabeling with semiconductor nanoparticles (quantum dots). <i>Journal of Materials Chemistry</i> , 2007, 17, 1343-1346.	6.7	108
103	Size Determination of (Bio)conjugated Water-Soluble Colloidal Nanoparticles: A Comparison of Different Techniques. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11552-11559.	3.1	164
104	Determination of DNA Melting Temperatures in Diffusion-Generated Chemical Gradients. <i>Analytical Chemistry</i> , 2007, 79, 5212-5216.	6.5	14
105	DNA-based nanodevices. <i>Nano Today</i> , 2007, 2, 36-41.	11.9	131
106	Controlled Trapping and Release of Quantum Dots in a DNA-switchable Hydrogel. <i>Small</i> , 2007, 3, 1688-1693.	10.0	148
107	Multiple particle tracking in 3-D+t microscopy: method and application to the tracking of endocytosed quantum dots. <i>IEEE Transactions on Image Processing</i> , 2006, 15, 1062-1070.	9.8	164
108	A Surface-Bound DNA Switch Driven by a Chemical Oscillator. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5007-5010.	13.8	103

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109	Cytotoxicity of Colloidal CdSe and CdSe/ZnS Nanoparticles. Nano Letters, 2005, 5, 331-338.	9.1	1,527
110	Nanoengineered Polymer Capsules: Tools for Detection, Controlled Delivery, and Site-Specific Manipulation. Small, 2005, 1, 194-200.	10.0	271
111	Fluorescent Nanocrystals as Colloidal Probes in Complex Fluids Measured by Fluorescence Correlation Spectroscopy. Small, 2005, 1, 997-1003.	10.0	60
112	Switching the Conformation of a DNA Molecule with a Chemical Oscillator. Nano Letters, 2005, 5, 1894-1898.	9.1	200
113	On the Development of Colloidal Nanoparticles towards Multifunctional Structures and their Possible Use for Biological Applications. Small, 2004, 1, 48-63.	10.0	353
114	Hydrophobic Nanocrystals Coated with an Amphiphilic Polymer Shell: A General Route to Water Soluble Nanocrystals. Nano Letters, 2004, 4, 703-707.	9.1	1,003
115	Liquid crystals and precious metal: from nanoparticle dispersions to functional plasmonic nanostructures. Liquid Crystals, 0, , 1-19.	2.2	14
116	Hotspot-mediated non-dissipative and ultrafast plasmon passage. , 0, .		1