

# Danny Porath

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

4,301  
citations

236925

25  
h-index

128289

60  
g-index

69  
all docs

69  
docs citations

69  
times ranked

3801  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct measurement of electrical transport through DNA molecules. Nature, 2000, 403, 635-638.	27.8	1,623
2	Direct measurement of electrical transport through single DNA molecules of complex sequence. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11589-11593.	7.1	286
3	Charge Transport in DNA-Based Devices. Topics in Current Chemistry, 2004, , 183-228.	4.0	227
4	Long-range charge transport in single G-quadruplex DNA molecules. Nature Nanotechnology, 2014, 9, 1040-1046.	31.5	218
5	Backbone-induced semiconducting behavior in shortDNAwires. Physical Review B, 2002, 65, .	3.2	195
6	Tunneling spectroscopy of isolatedC60molecules in the presence of charging effects. Physical Review B, 1997, 56, 9829-9833.	3.2	153
7	Electronic structure of single DNA molecules resolved by transverse scanning tunnelling spectroscopy. Nature Materials, 2008, 7, 68-74.	27.5	140
8	Tunable Length and Optical Properties of CsPbX <sub>3</sub> (X = Cl, Br, I) Nanowires with a Few Unit Cells. Nano Letters, 2017, 17, 1007-1013.	9.1	129
9	Single electron tunneling and level spectroscopy of isolated C60 molecules. Journal of Applied Physics, 1997, 81, 2241-2244.	2.5	90
10	Energy level tunneling spectroscopy and single electron charging in individual CdSe quantum dots. Applied Physics Letters, 1999, 75, 1751-1753.	3.3	87
11	Polarizability of G4-DNA Observed by Electrostatic Force Microscopy Measurements. Nano Letters, 2007, 7, 981-986.	9.1	83
12	SP1 Protein-Based Nanostructures and Arrays. Nano Letters, 2008, 8, 473-477.	9.1	70
13	Single Nanoparticle Magnetic Spin Memristor. Small, 2018, 14, e1801249.	10.0	70
14	Electrical characterization of self-assembled single- and double-stranded DNA monolayers using conductive AFM. Faraday Discussions, 2006, 131, 367-376.	3.2	66
15	Assembling of G-strands into novel tetra-molecular parallel G4-DNA nanostructures using avidin-biotin recognition. Nucleic Acids Research, 2008, 36, 5050-5060.	14.5	57
16	Efficient procedure of preparation and properties of long uniform G4-DNA nanowires. Analytical Biochemistry, 2008, 374, 71-78.	2.4	49
17	Magnetic Nanoplatelet-Based Spin Memory Device Operating at Ambient Temperatures. Advanced Materials, 2017, 29, 1606748.	21.0	48
18	Backbone charge transport in double-stranded DNA. Nature Nanotechnology, 2020, 15, 836-840.	31.5	46

#	ARTICLE	IF	CITATIONS
19	Highly Conductive Thin Uniform Gold-Coated DNA Nanowires. <i>Advanced Materials</i> , 2018, 30, e1800433.	21.0	40
20	High-Resolution STM Imaging of Novel Single G4-DNA Molecules. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9267-9269.	2.6	38
21	Synthesis and Properties of Novel Silver-Containing DNA Molecules. <i>Advanced Materials</i> , 2016, 28, 4839-4844.	21.0	33
22	Logic implementations using a single nanoparticle-protein hybrid. <i>Nature Nanotechnology</i> , 2010, 5, 451-457.	31.5	31
23	Integrating proteomics with electrochemistry for identifying kinase biomarkers. <i>Chemical Science</i> , 2015, 6, 4756-4766.	7.4	30
24	The Puzzle of Contrast Inversion in DNA STM Imaging. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14270-14274.	2.6	29
25	High-Resolution STM Imaging of Novel Poly(G)-Poly(C) DNA Molecules. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4430-4433.	2.6	28
26	Scanning Tunneling Spectroscopy of Single DNA Molecules. <i>ACS Nano</i> , 2009, 3, 1651-1656.	14.6	27
27	Formation of bacterial pilus-like nanofibres by designed minimalistic self-assembling peptides. <i>Nature Communications</i> , 2016, 7, 13482.	12.8	27
28	The effect of the number of parallel DNA molecules on electric charge transport through $\pi$ -standing DNA. <i>Nanotechnology</i> , 2007, 18, 424015.	2.6	25
29	Electrical Characterization of Individual Cesium Lead Halide Perovskite Nanowires Using Conductive AFM. <i>Advanced Materials</i> , 2020, 32, e1907812.	21.0	23
30	Advances in Synthesis and Measurement of Charge Transport in DNA-Based Derivatives. <i>Advanced Materials</i> , 2018, 30, e1706984.	21.0	21
31	Electronic Structure of G4-DNA by Scanning Tunneling Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22079-22084.	3.1	20
32	Comparative Electrostatic Force Microscopy of Tetra- and Intra-Molecular G4-DNA. <i>Advanced Materials</i> , 2014, 26, 4981-4985.	21.0	20
33	Energy Gap Reduction in DNA by Complexation with Metal Ions. <i>Advanced Materials</i> , 2011, 23, 4290-4294.	21.0	19
34	Durable, Stable, and Functional Nanopores Decorated by Self-Assembled Dipeptides. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 14563-14568.	8.0	19
35	Formation of polyaniline layer on DNA by electrochemical polymerization. <i>Polymer</i> , 2008, 49, 2217-2222.	3.8	18
36	Scanning Tunneling Microscopy and Spectroscopy of Novel Silver-Containing DNA Molecules. <i>Advanced Materials</i> , 2019, 31, 1902816.	21.0	18

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37	Wiring of Redox Enzymes on Three Dimensional Self-Assembled Molecular Scaffold. Langmuir, 2011, 27, 12606-12613.	3.5	17
38	Charge Transport in DNA-based Devices. , 2006, , 411-444.		16
39	â€Motif Nanospheres: Unusual Selfâ€Assembly of Long Cytosine Strands. Small, 2011, 7, 1029-1034.	10.0	14
40	Conductivity Enhancement of Transparent 2D Carbon Nanotube Networks Occurs by Resistance Reduction in All Junctions. Journal of Physical Chemistry C, 2018, 122, 14872-14876.	3.1	14
41	Tight-Binding Description of the STM Image of Molecular Chains. Israel Journal of Chemistry, 2004, 44, 133-143.	2.3	13
42	Float and Compress: Honeycomb-like Array of a Highly Stable Protein Scaffold. Langmuir, 2009, 25, 5226-5229.	3.5	13
43	Detection of Au Nanoparticles Using Peptide-Modified Si<sub>3</sub>N<sub>4</sub> Nanopores. ACS Applied Nano Materials, 2021, 4, 1000-1008.	5.0	13
44	Poly(dG)â€poly(dC) DNA appears shorter than poly(dA)â€poly(dT) and possibly adopts an Aâ€related conformation on a mica surface under ambient conditions. FEBS Letters, 2007, 581, 5843-5846.	2.8	12
45	Electronic Level Structure of Silver-Intercalated Cytosine Nanowires. Nano Letters, 2020, 20, 4505-4511.	9.1	12
46	Atomic force microscopy characterization of kinase-mediated phosphorylation of a peptide monolayer. Scientific Reports, 2016, 6, 36793.	3.3	10
47	High-Resolution Scanning Tunneling Microscopy Imaging of Biotinâ€Avidinâ€G4-DNA Molecules. Journal of Physical Chemistry C, 2013, 117, 22462-22465.	3.1	9
48	A DNA sequence scanned. Nature Nanotechnology, 2009, 4, 476-477.	31.5	7
49	Specific and efficient adsorption of phosphorothioated DNA on Au-based surfaces and electrodes. Applied Physics Letters, 2007, 91, 173101.	3.3	6
50	Temperature Dependence of the STM Morphology and Electronic Level Structure of Silverâ€Containing DNA. Small, 2020, 16, e1905901.	10.0	6
51	Quasi 3D imaging of DNAâ€gold nanoparticle tetrahedral structures. Journal of Physics Condensed Matter, 2012, 24, 164203.	1.8	5
52	Direct monitoring of the stepwise condensation of kinetoplast DNA networks. Scientific Reports, 2021, 11, 1501.	3.3	5
53	Nano Ferromagnetism: Single Domain 10 nm Ferromagnetism Imprinted on Superparamagnetic Nanoparticles Using Chiral Molecules (Small 1/2019). Small, 2019, 15, 1970004.	10.0	4
54	DNA-Metalization: Synthesis and Properties of Novel Silver-Containing DNA Molecules (Adv. Mater.) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 5	21.0	3

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55	Formation of Novel Octuplex DNA Molecules from Guanine Quadruplexes. <i>Advanced Materials</i> , 2021, 33, 2006932.	21.0	3
56	Formation of Dimers Composed of a Single Short dsDNA Connecting Two Gold Nanoparticles. <i>Journal of Self-Assembly and Molecular Electronics (SAME)</i> , 0, , .	0.0	3
57	n-Type Doping of Triethylenetetramine on Single-Wall Carbon Nanotubes for Transparent Conducting Cathodes. <i>ACS Applied Nano Materials</i> , 2021, 4, 13279-13287.	5.0	3
58	Self-Assembly: I-Motif Nanospheres: Unusual Self-Assembly of Long Cytosine Strands ( <i>Small</i> 8/2011). <i>Small</i> , 2011, 7, 1028-1028.	10.0	2
59	Monitoring the HIV-1 integrase enzymatic activity using atomic force microscopy in a 2LTR system. <i>Chemical Communications</i> , 2013, 49, 3113.	4.1	2
60	Magnetic Memory: Magnetic Nanoplatelet-Based Spin Memory Device Operating at Ambient Temperatures ( <i>Adv. Mater.</i> 17/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1
61	Innentitelbild: Protein Scaffold Engineering Towards Tunable Surface Attachment ( <i>Angew. Chem.</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 2.0	2.0	0
62	Inside Cover: Protein Scaffold Engineering Towards Tunable Surface Attachment ( <i>Angew. Chem. Int.</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 18.8	18.8	0
63	DNA: Comparative Electrostatic Force Microscopy of Tetra- and Intra-Molecular G4-DNA ( <i>Adv. Mater.</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 21.0	21.0	0
64	Molecular Electronics: Scanning Tunneling Microscopy and Spectroscopy of Novel Silver-Containing DNA Molecules ( <i>Adv. Mater.</i> 35/2019). <i>Advanced Materials</i> , 2019, 31, 1970247.	21.0	0
65	Metal-Organic Nanomaterial: Temperature Dependence of the STM Morphology and Electronic Level Structure of Silver-Containing DNA ( <i>Small</i> 5/2020). <i>Small</i> , 2020, 16, 2070025.	10.0	0
66	Electronic Level Structure of Novel Guanine Octuplex DNA Single Molecules. <i>Nano Letters</i> , 2021, 21, 8987-8992.	9.1	0