Danny Porath

List of Publications by Year
in descending order

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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	Detection of Au Nanoparticles Using Peptide-Modified Si₃N₄ Nanopores. ACS Applied Nano Materials, 2021, 4, 1000-1008.	5.0	13
2	Formation of Novel Octuplex DNA Molecules from Guanine Quadruplexes. Advanced Materials, 2021, 33, 2006932.	21.0	3
3	Direct monitoring of the stepwise condensation of kinetoplast DNA networks. Scientific Reports, 2021, 11, 1501.	3.3	5
4	Electronic Level Structure of Novel Guanine Octuplex DNA Single Molecules. Nano Letters, 2021, 21, 8987-8992.	9.1	0
5	n-Type Doping of Triethylenetetramine on Single-Wall Carbon Nanotubes for Transparent Conducting Cathodes. ACS Applied Nano Materials, 2021, 4, 13279-13287.	5.0	3
6	Temperature Dependence of the STM Morphology and Electronic Level Structure of Silverâ€Containing DNA. Small, 2020, 16, e1905901.	10.0	6
7	Backbone charge transport in double-stranded DNA. Nature Nanotechnology, 2020, 15, 836-840.	31.5	46
8	Electronic Level Structure of Silver-Intercalated Cytosine Nanowires. Nano Letters, 2020, 20, 4505-4511.	9.1	12
9	Durable, Stable, and Functional Nanopores Decorated by Self-Assembled Dipeptides. ACS Applied Materials & Interfaces, 2020, 12, 14563-14568.	8.0	19
10	Electrical Characterization of Individual Cesium Lead Halide Perovskite Nanowires Using Conductive AFM. Advanced Materials, 2020, 32, e1907812.	21.0	23
11	Metalâ€“Organic Nanomaterial: Temperature Dependence of the STM Morphology and Electronic Level Structure of Silverâ€Containing DNA (Small 5/2020). Small, 2020, 16, 2070025.	10.0	0
12	Scanning Tunneling Microscopy and Spectroscopy of Novel Silverâ€“Containing DNA Molecules. Advanced Materials, 2019, 31, 1902816.	21.0	18
13	Molecular Electronics: Scanning Tunneling Microscopy and Spectroscopy of Novel Silverâ€“Containing DNA Molecules (Adv. Mater. 35/2019). Advanced Materials, 2019, 31, 1970247.	21.0	0
14	Nano Ferromagnetism: Single Domain 10 nm Ferromagnetism Imprinted on Superparamagnetic Nanoparticles Using Chiral Molecules (Small 1/2019). Small, 2019, 15, 1970004.	10.0	4
15	Highly Conductive Thin Uniform Goldâ€Coated DNA Nanowires. Advanced Materials, 2018, 30, e1800433.	21.0	40
16	Single Nanoparticle Magnetic Spin Memristor. Small, 2018, 14, e1801249.	10.0	70
17	Advances in Synthesis and Measurement of Charge Transport in DNAâ€Based Derivatives. Advanced Materials, 2018, 30, e1706984.	21.0	21
18	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

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19	Tunable Length and Optical Properties of CsPbX₃ (X = Cl, Br, I) Nanowires with a Few Unit Cells. Nano Letters, 2017, 17, 1007-1013.	9.1	129
20	Magnetic Nanoplateletâ€Based Spin Memory Device Operating at Ambient Temperatures. Advanced Materials, 2017, 29, 1606748.	21.0	48
21	Magnetic Memory: Magnetic Nanoplateletâ€Based Spin Memory Device Operating at Ambient Temperatures (Adv. Mater. 17/2017). Advanced Materials, 2017, 29, .	21.0	1
22	Synthesis and Properties of Novel Silverâ€Containing DNA Molecules. Advanced Materials, 2016, 28, 4839-4844.	21.0	33
23	DNA-Metalization: Synthesis and Properties of Novel Silver-Containing DNA Molecules (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overl	21.0	3
24	Atomic force microscopy characterization of kinase-mediated phosphorylation of a peptide monolayer. Scientific Reports, 2016, 6, 36793.	3.3	10
25	Formation of bacterial pilus-like nanofibres by designed minimalistic self-assembling peptides. Nature Communications, 2016, 7, 13482.	12.8	27
26	Integrating proteomics with electrochemistry for identifying kinase biomarkers. Chemical Science, 2015, 6, 4756-4766.	7.4	30
27	Long-range charge transport in single G-quadruplex DNA molecules. Nature Nanotechnology, 2014, 9, 1040-1046.	31.5	218
28	DNA: Comparative Electrostatic Force Microscopy of Tetra- and Intra-Molecular G4-DNA (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	21.0	0
29	Comparative Electrostatic Force Microscopy of Tetraâ€and Intraâ€Molecular G4â€DNA. Advanced Materials, 2014, 26, 4981-4985.	21.0	20
30	High-Resolution Scanning Tunneling Microscopy Imaging of Biotinâ€“Avidinâ€“G4-DNA Molecules. Journal of Physical Chemistry C, 2013, 117, 22462-22465.	3.1	9
31	Monitoring the HIV-1 integrase enzymatic activity using atomic force microscopy in a 2LTR system. Chemical Communications, 2013, 49, 3113.	4.1	2
32	Quasi 3D imaging of DNAâ€“gold nanoparticle tetrahedral structures. Journal of Physics Condensed Matter, 2012, 24, 164203.	1.8	5
33	Wiring of Redox Enzymes on Three Dimensional Self-Assembled Molecular Scaffold. Langmuir, 2011, 27, 12606-12613.	3.5	17
34	Iâ€Motif Nanospheres: Unusual Selfâ€Assembly of Long Cytosine Strands. Small, 2011, 7, 1029-1034.	10.0	14
35	Self-Assembly: I-Motif Nanospheres: Unusual Self-Assembly of Long Cytosine Strands (Small 8/2011). Small, 2011, 7, 1028-1028.	10.0	2
36	Energy Gap Reduction in DNA by Complexation with Metal Ions. Advanced Materials, 2011, 23, 4290-4294.	21.0	19

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37	Logic implementations using a single nanoparticleâ€“protein hybrid. Nature Nanotechnology, 2010, 5, 451-457.	31.5	31
38	Electronic Structure of G4-DNA by Scanning Tunneling Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 22079-22084.	3.1	20
39	Innentitelbild: Protein Scaffold Engineering Towards Tunable Surface Attachment (Angew. Chem.) Tj ETQq1 1 0.784314 rgBT /Overloc	2.0	0
40	Inside Cover: Protein Scaffold Engineering Towards Tunable Surface Attachment (Angew. Chem. Int.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	13.8	0
41	A DNA sequence scanned. Nature Nanotechnology, 2009, 4, 476-477.	31.5	7
42	Scanning Tunneling Spectroscopy of Single DNA Molecules. ACS Nano, 2009, 3, 1651-1656.	14.6	27
43	Float and Compress: Honeycomb-like Array of a Highly Stable Protein Scaffold. Langmuir, 2009, 25, 5226-5229.	3.5	13
44	Formation of polyaniline layer on DNA by electrochemical polymerization. Polymer, 2008, 49, 2217-2222.	3.8	18
45	Efficient procedure of preparation and properties of long uniform G4â€“DNA nanowires. Analytical Biochemistry, 2008, 374, 71-78.	2.4	49
46	Electronic structure of single DNA molecules resolved by transverse scanning tunnelling spectroscopy. Nature Materials, 2008, 7, 68-74.	27.5	140
47	High-Resolution STM Imaging of Novel Single G4-DNA Molecules. Journal of Physical Chemistry B, 2008, 112, 9267-9269.	2.6	38
48	SP1 Protein-Based Nanostructures and Arrays. Nano Letters, 2008, 8, 473-477.	9.1	70
49	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
50	Specific and efficient adsorption of phosphorothioated DNA on Au-based surfaces and electrodes. Applied Physics Letters, 2007, 91, 173101.	3.3	6
51	The effect of the number of parallel DNA molecules on electric charge transport through â€˜standing DNAâ€™. Nanotechnology, 2007, 18, 424015.	2.6	25
52	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
53	Polarizability of G4-DNA Observed by Electrostatic Force Microscopy Measurements. Nano Letters, 2007, 7, 981-986.	9.1	83
54	Electrical characterization of self-assembled single- and double-stranded DNA monolayers using conductive AFM. Faraday Discussions, 2006, 131, 367-376.	3.2	66

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55	High-Resolution STM Imaging of Novel Poly(G)â˜Poly(C) DNA Molecules. Journal of Physical Chemistry B, 2006, 110, 4430-4433.	2.6	28
56	Charge Transport in DNA-based Devices. , 2006, , 411-444.		16
57	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
58	The Puzzle of Contrast Inversion in DNA STM Imaging. Journal of Physical Chemistry B, 2005, 109, 14270-14274.	2.6	29
59	Charge Transport in DNA-Based Devices. Topics in Current Chemistry, 2004, , 183-228.	4.0	227
60	Tight-Binding Description of the STM Image of Molecular Chains. Israel Journal of Chemistry, 2004, 44, 133-143.	2.3	13
61	Backbone-induced semiconducting behavior in shortDNAwires. Physical Review B, 2002, 65, .	3.2	195
62	Direct measurement of electrical transport through DNA molecules. Nature, 2000, 403, 635-638.	27.8	1,623
63	Energy level tunneling spectroscopy and single electron charging in individual CdSe quantum dots. Applied Physics Letters, 1999, 75, 1751-1753.	3.3	87
64	Single electron tunneling and level spectroscopy of isolated C60 molecules. Journal of Applied Physics, 1997, 81, 2241-2244.	2.5	90
65	Tunneling spectroscopy of isolatedC60molecules in the presence of charging effects. Physical Review B, 1997, 56, 9829-9833.	3.2	153
66	Formation of Dimers Composed of a Single Short dsDNA Connecting Two Gold Nanoparticles. Journal of Self-Assembly and Molecular Electronics (SAME), 0, , .	0.0	3