Nurit Ashkenasy

List of Publications by Year
in descending order

53 papers	1,842 citations	279798 23 h-index	265206 42 g-index
55 all docs	55 docs citations	55 times ranked	2691 citing authors

#	Article	IF	Citations
1	Design of Self-Assembling Peptide Nanotubes with Delocalized Electronic States. Small, 2006, 2, 99-102.	10.0	189
2	Recognizing a Single Base in an Individual DNA Strand: A Step Toward DNA Sequencing in Nanopores. Angewandte Chemie - International Edition, 2005, 44, 1401-1404.	13.8	181
3	Modulating Charge Transfer through CyclicD,L-?-Peptide Self-Assembly. Chemistry - A European Journal, 2005, 11, 1137-1144.	3.3	116
4	Tailorâ€Made Functional Peptide Selfâ€Assembling Nanostructures. Advanced Materials, 2018, 30, e1707083.	21.0	104
5	Transient Fibril Structures Facilitating Nonenzymatic Self-Replication. ACS Nano, 2012, 6, 7893-7901.	14.6	79
6	STM/AFM studies of the evolution of morphology of electroplated Ni/W alloys. Applied Surface Science, 2002, 200, 1-14.	6.1	77
7	Quantitative evaluation of chemisorption processes on semiconductors. Journal of Applied Physics, 2002, 92, 7090-7097.	2.5	64
8	Electronic and transport properties of reduced and oxidized nanocrystalline TiO2 films. Applied Physics Letters, 2003, 82, 574-576.	3.3	64
9	Charge transport in vertically aligned, self-assembled peptidenanotube junctions. Nanoscale, 2012, 4, 518-524.	5.6	58
10	Hybrid Proton and Electron Transport in Peptide Fibrils. Advanced Functional Materials, 2014, 24, 5873-5880.	14.9	58
11	De Novo Designed Coiled-Coil Proteins with Variable Conformations as Components of Molecular Electronic Devices. Journal of the American Chemical Society, 2010, 132, 5070-5076.	13.7	51
12	Building Logic into Peptide Networks: Bottomâ€Up and Topâ€Down. Israel Journal of Chemistry, 2011, 51, 106-117.	2.3	49
13	Conductance of amyloid Î² based peptide filaments: structureâ€"function relations. Soft Matter, 2012, 8, 8690.	2.7	49
14	The Strong Influence of Structure Polymorphism on the Conductivity of Peptide Fibrils. Angewandte Chemie - International Edition, 2016, 55, 9988-9992.	13.8	44
15	Sequence dependent proton conduction in self-assembled peptide nanostructures. Nanoscale, 2016, 8, 2358-2366.	5.6	44
16	The controlled fabrication of nanopores by focused electron-beam-induced etching. Nanotechnology, 2009, 20, 245302.	2.6	43
17	Significant Enhancement of Proton Transport in Bioinspired Peptide Fibrils by Single Acidic or Basic Amino Acid Mutation. Advanced Functional Materials, 2017, 27, 1604624.	14.9	38
18	Protonâ€Conductive Melaninâ€Like Fibers through Enzymatic Oxidation of a Selfâ€Assembling Peptide. Advanced Materials, 2020, 32, e2003511.	21.0	38

#	Article	IF	Citations
19	Recognizing a Single Base in an Individual DNA Strand: A Step Toward DNA Sequencing in Nanopores. Angewandte Chemie, 2005, 117, 1425-1428.	2.0	37
20	Introducing charge transfer functionality into prebiotically relevant Î²-sheet peptide fibrils. Chemical Communications, 2014, 50, 6733.	4.1	35
21	Reconstructing solid state nanopore shape from electrical measurements. Applied Physics Letters, 2010, 97, .	3.3	27
22	Catalytic and Electron Conducting Carbon Nanotubeâ€"Reinforced Lysozyme Crystals. Advanced Functional Materials, 2019, 29, 1807351.	14.9	25
23	Amplification of Single Molecule Translocation Signal Using Î²-Strand Peptide Functionalized Nanopores. ACS Nano, 2014, 8, 6822-6832.	14.6	24
24	Surface photovoltage spectroscopy of an InGaAs/GaAs/AlGaAs single quantum well laser structure. Journal of Applied Physics, 1998, 83, 1146-1149.	2.5	23
25	Bioassisted multi-nanoparticle patterning using single-layer peptide templates. Nanotechnology, 2010, 21, 145305.	2.6	23
26	Electrical Performance of Silicon-on-Insulator Field-Effect Transistors with Multiple Top-Gate Organic Layers in Electrolyte Solution. ACS Nano, 2010, 4, 4601-4608.	14.6	23
27	Surface Termination Control in Chemically Deposited PbS Films: Nucleation and Growth on GaAs(111)A and GaAs(111)B. Journal of Physical Chemistry C, 2011, 115, 16501-16508.	3.1	21
28	Self-assembly and Self-replication of Short Amphiphilic Î²-sheet Peptides. Origins of Life and Evolution of Biospheres, 2011, 41, 563-567.	1.9	20
29	Porphyrins as ITO photosensitizers: substituents control photo-induced electron transfer direction. Journal of Materials Chemistry, 2012, 22, 20334.	6.7	19
30	Influence of Solvent in Controlling Peptideâ€"Surface Interactions. Journal of Physical Chemistry Letters, 2015, 6, 3944-3949.	4.6	19
31	Measuring Proton Currents of Bioinspired Materials with Metallic Contacts. ACS Applied Materials & Interfaces, 2018, 10, 1933-1938.	8.0	17
32	Peptide directed growth of gold films. Journal of Materials Chemistry, 2011, 21, 968-974.	6.7	15
33	Electronic Properties of Amyloid Î²â€Based Peptide Filaments with Different Nonâ€Natural Heterocyclic Side Chains. Israel Journal of Chemistry, 2014, 54, 703-707.	2.3	15
34	Modulating Semiconductor Surface Electronic Properties by Inorganic Peptideâ€"Binders Sequence Design. Journal of the American Chemical Society, 2012, 134, 20403-20411.	13.7	14
35	Filling the Green Gap of a Megadalton Photosystem I Complex by Conjugation of Organic Dyes. Bioconjugate Chemistry, 2016, 27, 36-41.	3.6	14
36	Effects of electrons on the shape of nanopores prepared by focused electron beam induced etching. Nanotechnology, 2011, 22, 285303.	2.6	13

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37	GaAs/AlGaAs single quantum well p-i-n structures: A surface photovoltage study. Journal of Applied Physics, 1999, 86, 6902-6907.	2.5	11
38	Force modulated conductance of artificial coiledâ€coil protein monolayers. Biopolymers, 2013, 100, 93-99.	2.4	11
39	Fabrication of nanopores in multi-layered silicon-based membranes using focused electron beam induced etching with XeF2 gas. Mikrochimica Acta, 2016, 183, 987-994.	5.0	10
40	Self-Assembled Peptide Nanotube Films with High Proton Conductivity. Journal of Physical Chemistry B, 2019, 123, 9882-9888.	2.6	10
41	The Strong Influence of Structure Polymorphism on the Conductivity of Peptide Fibrils. Angewandte Chemie, 2016, 128, 10142-10146.	2.0	9
42	Peptide-functionalized semiconductor surfaces: strong surface electronic effects from minor alterations to backbone composition. Physical Chemistry Chemical Physics, 2017, 19, 5709-5714.	2.8	9
43	Characterization methodology for pseudomorphic high electron mobility transistors using surface photovoltage spectroscopy. Journal of Applied Physics, 2000, 88, 6775-6780.	2.5	8
44	Characterization of quantum well structures using surface photovoltage spectroscopy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 74, 125-132.	3.5	7
45	Systematic modification of the indium tin oxide work function <i>via</i> side-chain modulation of an amino-acid functionalization layer. Physical Chemistry Chemical Physics, 2019, 21, 21875-21881.	2.8	6
46	Dynamic Surface Layer Coiled Coil Proteins Processing Analog-to-Digital Information. Journal of the American Chemical Society, 2021, 143, 17441-17451.	13.7	6
47	Photoconductance of ITO/Conductive Polymer Junctions in the UV and Visible Ranges. Journal of Physical Chemistry C, 2018, 122, 7288-7295.	3.1	4
48	The role of CdS doping in improving SWIR photovoltaic and photoconductive responses in solution grown CdS/PbS heterojunctions. Nanotechnology, 2020, 31, 255502.	2.6	4
49	Complex investigation of electronic structure transformations in Lead Sulphide nanoparticles using a set of electron spectroscopy techniques. Vacuum, 2012, 86, 638-642.	3.5	3
50	Modular modification of the two-dimensional electronic properties of graphene by bio-inspired functionalization. Applied Surface Science, 2022, 574, 151642.	6.1	3
51	Mechanism of Side Chain-Controlled Proton Conductivity in Bioinspired Peptidic Nanostructures. Journal of Physical Chemistry B, 2021, 125, 12741-12752.	2.6	3
52	Controlling Fieldâ€Effect Transistor Biosensor Electrical Characteristics Using Immunosorbent Assay. Electroanalysis, 2011, 23, 2327-2334.	2.9	2
53	Functional Peptide and Protein Nanostructures. Israel Journal of Chemistry, 2015, 55, 621-621.	2.3	1