

# Nadav Amdursky

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

3,666  
citations

136740

32  
h-index

138251

58  
g-index

93  
all docs

93  
docs citations

93  
times ranked

4751  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-range light-modulated charge transport across the molecular heterostructure doped protein biopolymers. <i>Chemical Science</i> , 2021, 12, 8731-8739.	3.7	10
2	The role of the protein-water interface in dictating proton conduction across protein-based biopolymers. <i>Materials Advances</i> , 2021, 2, 1739-1746.	2.6	12
3	A Protein-Based Free-Standing Proton-Conducting Transparent Elastomer for Large-Scale Sensing Applications. <i>Advanced Materials</i> , 2021, 33, e2101208.	11.1	29
4	Bio-derived electronics: utilizing proteins for making large scale assemblies exhibiting superior electronic and optoelectronic properties. , 2021, , .		0
5	Light-Modulated Cationic and Anionic Transport across Protein Biopolymers**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24676-24685.	7.2	10
6	Light-Modulated cationic and anionic transport across protein biopolymers. <i>Angewandte Chemie</i> , 2021, 133, 24881.	1.6	0
7	Tailoring Quantum Dot Sizes for Optimal Photoinduced Catalytic Activation of Nitrogenase. <i>ChemSusChem</i> , 2021, 14, 5410-5416.	3.6	9
8	Self-Propulsion of Droplets via Light-Stimuli Rapid Control of Their Surface Tension. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100751.	1.9	13
9	Conductive Scaffolds for Cardiac and Neuronal Tissue Engineering: Governing Factors and Mechanisms. <i>Advanced Functional Materials</i> , 2020, 30, 1901369.	7.8	93
10	Nanoseconds-resolved transient FTIR spectroscopy as a tool for studying the photocatalytic behavior of various types of bismuth vanadate. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119351.	10.8	7
11	Enhanced Proton Conductivity across Protein Biopolymers Mediated by Doped Carbon Nanoparticles. <i>Small</i> , 2020, 16, e2005526.	5.2	9
12	The porphyrin ring rather than the metal ion dictates long-range electron transport across proteins suggesting coherence-assisted mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32260-32266.	3.3	23
13	Processable, Ion-Conducting Hydrogel for Flexible Electronic Devices with Self-Healing Capability. <i>Macromolecules</i> , 2020, 53, 11130-11141.	2.2	63
14	Exploring the inner environment of protein hydrogels with fluorescence spectroscopy towards understanding their drug delivery capabilities. <i>Journal of Materials Chemistry B</i> , 2020, 8, 6964-6974.	2.9	14
15	Exploring long-range proton conduction, the conduction mechanism and inner hydration state of protein biopolymers. <i>Chemical Science</i> , 2020, 11, 3547-3556.	3.7	27
16	Coherence-assisted electron diffusion across the multi-heme protein-based bacterial nanowire. <i>Nanotechnology</i> , 2020, 31, 314002.	1.3	24
17	Tracking Subtle Membrane Disruptions with a Tethered Photoacid. <i>ChemPhotoChem</i> , 2020, 4, 592-600.	1.5	4
18	Proton Conductivity: Enhanced Proton Conductivity across Protein Biopolymers Mediated by Doped Carbon Nanoparticles (Small 50/2020). <i>Small</i> , 2020, 16, 2070272.	5.2	0

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19	Efficient Photosensitizing Capabilities and Ultrafast Carrier Dynamics of Doped Carbon Dots. <i>Journal of the American Chemical Society</i> , 2019, 141, 15413-15422.	6.6	74
20	Exploring fast proton transfer events associated with lateral proton diffusion on the surface of membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2443-2451.	3.3	45
21	Use of Photoacids and Photobases To Control Dynamic Self-Assembly of Gold Nanoparticles in Aqueous and Nonaqueous Solutions. <i>Nano Letters</i> , 2019, 19, 3804-3810.	4.5	42
22	Bioinspired Amyloid Nanodots with Visible Fluorescence. <i>Advanced Optical Materials</i> , 2019, 7, 1801400.	3.6	26
23	Macroscale Biomolecular Electronics and Ionics. <i>Advanced Materials</i> , 2019, 31, e1802221.	11.1	80
24	Fabrication of Hemin-Doped Serum Albumin-Based Fibrous Scaffolds for Neural Tissue Engineering Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 5305-5317.	4.0	53
25	Elastic serum-albumin based hydrogels: mechanism of formation and application in cardiac tissue engineering. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5604-5612.	2.9	40
26	Plasmonic Chirality Imprinting on Nucleobase-Displaying Supramolecular Nanohelices by Metal-Nucleobase Recognition. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2361-2365.	7.2	32
27	Plasmonic Chirality Imprinting on Nucleobase-Displaying Supramolecular Nanohelices by Metal-Nucleobase Recognition. <i>Angewandte Chemie</i> , 2017, 129, 2401-2405.	1.6	10
28	Facet-Dependent Interactions of Islet Amyloid Polypeptide with Gold Nanoparticles: Implications for Fibril Formation and Peptide-Induced Lipid Membrane Disruption. <i>Chemistry of Materials</i> , 2017, 29, 1550-1560.	3.2	35
29	Probing amylin fibrillation at an early stage via a tetracysteine-recognising fluorophore. <i>Talanta</i> , 2017, 173, 44-50.	2.9	12
30	Electron Hopping Across Hemin-Doped Serum Albumin Mats on Centimeter-Length Scales. <i>Advanced Materials</i> , 2017, 29, 1700810.	11.1	26
31	Sequence-Dependent Self-Assembly and Structural Diversity of Islet Amyloid Polypeptide-Derived $\beta^2$ -Sheet Fibrils. <i>ACS Nano</i> , 2017, 11, 8579-8589.	7.3	48
32	Exploring the binding sites and proton diffusion on insulin amyloid fibril surfaces by naphthol-based photoacid fluorescence and molecular simulations. <i>Scientific Reports</i> , 2017, 7, 6245.	1.6	17
33	Abstract 342: Serum Albumin Hydrogels Alter Excitation-Contraction Coupling in Neonatal Rat Myocytes and Human Induced Pluripotent Stem Cell Derived Cardiomyocytes. <i>Circulation Research</i> , 2017, 121, .	2.0	2
34	Long-Range Proton Conduction across Free-Standing Serum Albumin Mats. <i>Advanced Materials</i> , 2016, 28, 2692-2698.	11.1	65
35	Noncovalent Interactions with Proteins Modify the Physicochemical Properties of a Molecular Switch. <i>ChemPlusChem</i> , 2016, 81, 44-48.	1.3	14
36	Circular Dichroism of Amino Acids: Following the Structural Formation of Phenylalanine. <i>ChemPhysChem</i> , 2015, 16, 2768-2774.	1.0	91

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37	Extracellular Stiffness Modulates the Expression of Functional Proteins and Growth Factors in Endothelial Cells. <i>Advanced Healthcare Materials</i> , 2015, 4, 2056-2063.	3.9	31
38	Electron Transfer across Helical Peptides. <i>ChemPlusChem</i> , 2015, 80, 1075-1095.	1.3	55
39	Acid effect on excited Auramine-O molecular rotor relaxations in solution and adsorbed on insulin fibrils. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 034005.	1.1	5
40	A structural and physical study of sol-gel methacrylate-silica hybrids: intermolecular spacing dictates the mechanical properties. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29124-29133.	1.3	27
41	Electron Transfer Proteins as Electronic Conductors: Significance of the Metal and Its Binding Site in the Blue Cu Protein, Azurin. <i>Advanced Science</i> , 2015, 2, 1400026.	5.6	39
42	Photoacids as a new fluorescence tool for tracking structural transitions of proteins: following the concentration-induced transition of bovine serum albumin. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32023-32032.	1.3	29
43	Strong Thermo-induced Single And Two-photon Green Luminescence In Self-Organized Peptide Microtubes. <i>Small</i> , 2015, 11, 1156-1160.	5.2	21
44	Excited-State Proton Transfer of Photoacids Adsorbed on Biomaterials. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13859-13869.	1.2	31
45	Electronic Transport via Proteins. <i>Advanced Materials</i> , 2014, 26, 7142-7161.	11.1	175
46	Solid-state electron transport via cytochrome <i>c</i> depends on electronic coupling to electrodes and across the protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5556-5561.	3.3	55
47	Apoptosis induced by islet amyloid polypeptide soluble oligomers is neutralized by diabetes-associated specific antibodies. <i>Scientific Reports</i> , 2014, 4, 4267.	1.6	67
48	Redox activity distinguishes solid-state electron transport from solution-based electron transfer in a natural and artificial protein: cytochrome C and hemin-doped human serum albumin. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17142.	1.3	44
49	Enhanced solid-state electron transport via tryptophan containing peptide networks. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13479.	1.3	27
50	Time-resolved emission of retinoic acid. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 258, 30-40.	2.0	8
51	Electron Transport via Cytochrome C on Si-H Surfaces: Roles of Fe and Heme. <i>Journal of the American Chemical Society</i> , 2013, 135, 6300-6306.	6.6	35
52	Marked changes in electron transport through the blue copper protein azurin in the solid state upon deuteration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 507-512.	3.3	51
53	Bioorganic nanodots for non-volatile memory devices. <i>APL Materials</i> , 2013, 1, .	2.2	12
54	Optical transition induced by molecular transformation in peptide nanostructures. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	11

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55	Doping Human Serum Albumin with Retinoate Markedly Enhances Electron Transport across the Protein. <i>Journal of the American Chemical Society</i> , 2012, 134, 18221-18224.	6.6	31
56	Formation of low-dimensional crystalline nucleus region during insulin amyloidogenesis process. <i>Biochemical and Biophysical Research Communications</i> , 2012, 419, 232-237.	1.0	23
57	Ferroelectric Properties and Phase Transition in Dipeptide Nanotubes. <i>Ferroelectrics</i> , 2012, 430, 84-91.	0.3	9
58	Bioinspired Peptide Nanotubes: Ferroelectricity at Nanoscale. <i>Integrated Ferroelectrics</i> , 2012, 134, 48-49.	0.3	5
59	Physics and engineering of peptide supramolecular nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6391.	1.3	67
60	Temperature and Force Dependence of Nanoscale Electron Transport <i>via</i> the Cu Protein Azurin. <i>ACS Nano</i> , 2012, 6, 10816-10824.	7.3	63
61	Molecular Rotors: What Lies Behind the High Sensitivity of the Thioflavin-T Fluorescent Marker. <i>Accounts of Chemical Research</i> , 2012, 45, 1548-1557.	7.6	319
62	Temperature and Viscosity Dependence of the Nonradiative Decay Rates of Auramine-O and Thioflavin-T in Glass-Forming Solvents. <i>Journal of Physical Chemistry A</i> , 2012, 116, 12056-12064.	1.1	18
63	Auramine-O as a Fluorescence Marker for the Detection of Amyloid Fibrils. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13389-13395.	1.2	35
64	Bioferroelectricity and biopiezoelectricity. <i>Physics of the Solid State</i> , 2012, 54, 1263-1268.	0.2	2
65	Study of Thioflavin-T Immobilized in Porous Silicon and the Effect of Different Organic Vapors on the Fluorescence Lifetime. <i>Langmuir</i> , 2011, 27, 7587-7594.	1.6	23
66	Temperature Dependence of the Fluorescence Properties of Thioflavin-T in Propanol, a Glass-Forming Liquid. <i>Journal of Physical Chemistry A</i> , 2011, 115, 2540-2548.	1.1	39
67	Modeling the Nonradiative Decay Rate of Electronically Excited Thioflavin T. <i>Journal of Physical Chemistry A</i> , 2011, 115, 8479-8487.	1.1	53
68	Structural Transition in Peptide Nanotubes. <i>Biomacromolecules</i> , 2011, 12, 1349-1354.	2.6	90
69	Adjustable Photoluminescence of Peptide Nanotubes Coatings. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 9282-9286.	0.9	13
70	Pressure Effect on the Nonradiative Process of Thioflavin-T. <i>Journal of Physical Chemistry A</i> , 2011, 115, 6481-6487.	1.1	28
71	Bioinspired peptide nanotubes: Deposition technology and physical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 169, 62-66.	1.7	27
72	Bioinspired peptide nanotubes as supercapacitor electrodes. <i>Journal of Materials Science</i> , 2010, 45, 6374-6378.	1.7	58

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73	Quantum Confinement in Self-Assembled Bioinspired Peptide Hydrogels. <i>Advanced Materials</i> , 2010, 22, 2311-2315.	11.1	86
74	Electron-induced adhesion and patterning of gold nanoparticles. <i>Applied Physics Letters</i> , 2010, 96, 093106.	1.5	7
75	Ferroelectric and Related Phenomena in Biological and Bioinspired Nanostructures. <i>Ferroelectrics</i> , 2010, 399, 107-117.	0.3	36
76	Strong Piezoelectricity in Bioinspired Peptide Nanotubes. <i>ACS Nano</i> , 2010, 4, 610-614.	7.3	370
77	Elementary Building Blocks of Self-Assembled Peptide Nanotubes. <i>Journal of the American Chemical Society</i> , 2010, 132, 15632-15636.	6.6	174
78	Probing the Inner Cavities of Hydrogels by Proton Diffusion. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19500-19505.	1.5	29
79	Blue Luminescence Based on Quantum Confinement at Peptide Nanotubes. <i>Nano Letters</i> , 2009, 9, 3111-3115.	4.5	187
80	Self-assembled bioinspired quantum dots: Optical properties. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	72
81	Radiationless Transitions of G4 Wires and dGMP. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12249-12258.	1.5	17
82	Casein proteins as building-blocks for making ion-conductive bioplastics. <i>Journal of Materials Chemistry A</i> , 0, , .	5.2	3