

Lihi Adler-Abramovich

List of Publications by Year in descending order

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105
papers

7,557
citations

61984

43
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53230

85
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112
all docs

112
docs citations

112
times ranked

6598
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Co-Assembly of Two Building Blocks Harnesses Both their Attributes into a Functional Supramolecular Hydrogel. <i>Macromolecular Bioscience</i> , 2022, 22, e2100439.	4.1	10
2	Disordered Protein Stabilization by Co-Assembly of Short Peptides Enables Formation of Robust Membranes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 464-473.	8.0	8
3	Atomic insight into short helical peptide comprised of consecutive multiple aromatic residues. <i>Chemical Communications</i> , 2022, 58, 6445-6448.	4.1	2
4	Stabilizing gelatin-based bioinks under physiological conditions by incorporation of ethylene-glycol-conjugated Fmoc-FF peptides. <i>Nanoscale</i> , 2022, 14, 8525-8533.	5.6	9
5	Thixotropic Red Microalgae Sulfated Polysaccharide-Peptide Composite Hydrogels as Scaffolds for Tissue Engineering. <i>Biomedicines</i> , 2022, 10, 1388.	3.2	12
6	Directed Enzyme Evolution and Encapsulation in Peptide Nanospheres of Quorum Quenching Lactonase as an Antibacterial Treatment against Plant Pathogen. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2179-2188.	8.0	14
7	Hyaluronic Acid and a Short Peptide Improve the Performance of a PCL Electrospun Fibrous Scaffold Designed for Bone Tissue Engineering Applications. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2425.	4.1	19
8	Protection of Oxygen-Sensitive Enzymes by Peptide Hydrogel. <i>ACS Nano</i> , 2021, 15, 6530-6539.	14.6	26
9	From Folding to Assembly: Functional Supramolecular Architectures of Peptides Comprised of Non-Canonical Amino Acids. <i>Macromolecular Bioscience</i> , 2021, 21, e2100090.	4.1	19
10	Resilient Women and the Resiliency of Science. <i>Chemistry of Materials</i> , 2021, 33, 6585-6588.	6.7	3
11	Mechanical Enhancement and Kinetics Regulation of Fmoc-Diphenylalanine Hydrogels by Thioflavin-T. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25339-25345.	13.8	16
12	Modification of a Single Atom Affects the Physical Properties of Double Fluorinated Fmoc-Phe Derivatives. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9634.	4.1	9
13	The Effects of a Short Self-Assembling Peptide on the Physical and Biological Properties of Biopolymer Hydrogels. <i>Pharmaceutics</i> , 2021, 13, 1602.	4.5	13
14	Dipeptide Nanostructure Assembly and Dynamics <i>in Situ</i> Liquid-Phase Electron Microscopy. <i>ACS Nano</i> , 2021, 15, 16542-16551.	14.6	21
15	Sonochemical Functionalization of Cotton and Non-Woven Fabrics with Bio-Inspired Self-Assembled Nanostructures. <i>Israel Journal of Chemistry</i> , 2020, 60, 1190-1196.	2.3	8
16	Surface Modification by Nano-Structures Reduces Viable Bacterial Biofilm in Aerobic and Anaerobic Environments. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7370.	4.1	7
17	Phase Transition and Crystallization Kinetics of a Supramolecular System in a Microfluidic Platform. <i>Chemistry of Materials</i> , 2020, 32, 8342-8349.	6.7	22
18	Formation of peptide-based oligomers in dimethylsulfoxide: identifying the precursor of fibril formation. <i>Soft Matter</i> , 2020, 16, 7860-7868.	2.7	12

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19	Collagen-Inspired Helical Peptide Coassembly Forms a Rigid Hydrogel with Twisted Polyproline II Architecture. <i>ACS Nano</i> , 2020, 14, 9990-10000.	14.6	25
20	The retinal toxicity profile towards assemblies of Amyloid- β^2 indicate the predominant pathophysiological activity of oligomeric species. <i>Scientific Reports</i> , 2020, 10, 20954.	3.3	11
21	Structural Transformation and Morphology of Dipeptide Supramolecular Assemblies by Liquid-phase TEM. <i>Microscopy and Microanalysis</i> , 2020, 26, 1442-1443.	0.4	0
22	Bi-functional peptide-based 3D hydrogel-scaffolds. <i>Soft Matter</i> , 2020, 16, 7006-7017.	2.7	20
23	Induction of retinopathy by fibrillar oxalate assemblies. <i>Communications Chemistry</i> , 2020, 3, .	4.5	14
24	Rheological analysis of the interplay between the molecular weight and concentration of hyaluronic acid in formulations of supramolecular HA/FmocFF hybrid hydrogels. <i>Polymer Journal</i> , 2020, 52, 1007-1012.	2.7	13
25	Composite of Peptide-Supramolecular Polymer and Covalent Polymer Comprises a New Multifunctional, Bio-Inspired Soft Material. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900175.	3.9	37
26	Fmoc-FF and hexapeptide-based multicomponent hydrogels as scaffold materials. <i>Soft Matter</i> , 2019, 15, 487-496.	2.7	70
27	Enhanced Nanoassembly-Incorporated Antibacterial Composite Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21334-21342.	8.0	36
28	Injectable Alginate-Peptide Composite Hydrogel as a Scaffold for Bone Tissue Regeneration. <i>Nanomaterials</i> , 2019, 9, 497.	4.1	94
29	A Self-Healing, All-Organic, Conducting, Composite Peptide Hydrogel as Pressure Sensor and Electrogenic Cell Soft Substrate. <i>ACS Nano</i> , 2019, 13, 163-175.	14.6	149
30	Transition of Metastable Cross- β Crystals into Cross- β^2 Fibrils by β^2 -Turn Flipping. <i>Journal of the American Chemical Society</i> , 2019, 141, 363-369.	13.7	22
31	Bio Mimicking of Extracellular Matrix. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1174, 371-399.	1.6	10
32	Amyloid-Like Fibrillary Morphology Originated by Tyrosine-Containing Aromatic Hexapeptides. <i>Chemistry - A European Journal</i> , 2018, 24, 6804-6817.	3.3	28
33	Bionanostructures: Bioinspired Flexible and Tough Layered Peptide Crystals (<i>Adv. Mater.</i> 5/2018). <i>Advanced Materials</i> , 2018, 30, 1870035.	21.0	0
34	Differential inhibition of metabolite amyloid formation by generic fibrillation-modifying polyphenols. <i>Communications Chemistry</i> , 2018, 1, .	4.5	52
35	Structural Polymorphism in a Self-Assembled Tri-Aromatic Peptide System. <i>ACS Nano</i> , 2018, 12, 3253-3262.	14.6	72
36	Bioinspired Flexible and Tough Layered Peptide Crystals. <i>Advanced Materials</i> , 2018, 30, 1704551.	21.0	28

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37	UV Light-Responsive Peptide-Based Supramolecular Hydrogel for Controlled Drug Delivery. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800588.	3.9	85
38	Pillararene-Based Two-Component Thixotropic Supramolecular Organogels: Complementarity and Multivalency as Prominent Motifs. <i>Chemistry - A European Journal</i> , 2018, 24, 15695-15695.	3.3	1
39	Improving the Mechanical Rigidity of Hyaluronic Acid by Integration of a Supramolecular Peptide Matrix. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41883-41891.	8.0	65
40	Opal-like Multicolor Appearance of Self-Assembled Photonic Array. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20783-20789.	8.0	17
41	Rosmarinic Acid Restores Complete Transparency of Sonicated Human Cataract Ex Vivo and Delays Cataract Formation In Vivo. <i>Scientific Reports</i> , 2018, 8, 9341.	3.3	25
42	Pillararene-Based Two-Component Thixotropic Supramolecular Organogels: Complementarity and Multivalency as Prominent Motifs. <i>Chemistry - A European Journal</i> , 2018, 24, 15750-15755.	3.3	14
43	Self-Assembly-Mediated Release of Peptide Nanoparticles through Jets Across Microdroplet Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27578-27583.	8.0	14
44	A minimal length rigid helical peptide motif allows rational design of modular surfactants. <i>Nature Communications</i> , 2017, 8, 14018.	12.8	49
45	Diphenylalanine as a Reductionist Model for the Mechanistic Characterization of β -Amyloid Modulators. <i>ACS Nano</i> , 2017, 11, 5960-5969.	14.6	62
46	Cathepsin nanofiber substrates as potential agents for targeted drug delivery. <i>Journal of Controlled Release</i> , 2017, 257, 60-67.	9.9	28
47	Advantages of Self-assembled Supramolecular Polymers Toward Biological Applications. , 2017, , 9-35.		2
48	Arginine-Presenting Peptide Hydrogels Decorated with Hydroxyapatite as Biomimetic Scaffolds for Bone Regeneration. <i>Biomacromolecules</i> , 2017, 18, 3541-3550.	5.4	78
49	Molecular co-assembly as a strategy for synergistic improvement of the mechanical properties of hydrogels. <i>Chemical Communications</i> , 2017, 53, 9586-9589.	4.1	78
50	Self-assembling dipeptide antibacterial nanostructures with membrane disrupting activity. <i>Nature Communications</i> , 2017, 8, 1365.	12.8	299
51	Formation of Apoptosis-Inducing Amyloid Fibrils by Tryptophan. <i>Israel Journal of Chemistry</i> , 2017, 57, 729-737.	2.3	56
52	Molecular Engineering of Somatostatin Analogue with Minimal Dipeptide Motif Induces the Formation of Functional Nanoparticles. <i>ChemNanoMat</i> , 2017, 3, 27-32.	2.8	3
53	Controlling the Physical Dimensions of Peptide Nanotubes by Supramolecular Polymer Coassembly. <i>ACS Nano</i> , 2016, 10, 7436-7442.	14.6	91
54	Elastic instability-mediated actuation by a supra-molecular polymer. <i>Nature Physics</i> , 2016, 12, 926-930.	16.7	32

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55	Spectral Transition in Bio-Inspired Self-Assembled Peptide Nucleic Acid Photonic Crystals. <i>Advanced Materials</i> , 2016, 28, 2195-2200.	21.0	47
56	Fmoc-modified amino acids and short peptides: simple bio-inspired building blocks for the fabrication of functional materials. <i>Chemical Society Reviews</i> , 2016, 45, 3935-3953.	38.1	366
57	Expanding the Nanoarchitectural Diversity Through Aromatic Di- and Tri-Peptide Coassembly: Nanostructures and Molecular Mechanisms. <i>ACS Nano</i> , 2016, 10, 8316-8324.	14.6	84
58	Disruption of diphenylalanine assembly by a Boc-modified variant. <i>Soft Matter</i> , 2016, 12, 9451-9457.	2.7	23
59	Spontaneous structural transition and crystal formation in minimal supramolecular polymer model. <i>Science Advances</i> , 2016, 2, e1500827.	10.3	62
60	Formation of bacterial pilus-like nanofibres by designed minimalistic self-assembling peptides. <i>Nature Communications</i> , 2016, 7, 13482.	12.8	27
61	Dynamic microfluidic control of supramolecular peptide self-assembly. <i>Nature Communications</i> , 2016, 7, 13190.	12.8	89
62	Molecular Engineering of Self-Assembling Diphenylalanine Analogues Results in the Formation of Distinctive Microstructures. <i>Chemistry of Materials</i> , 2016, 28, 4341-4348.	6.7	27
63	Photonic Crystals: Spectral Transition in Bio-Inspired Self-Assembled Peptide Nucleic Acid Photonic Crystals (<i>Adv. Mater.</i> 11/2016). <i>Advanced Materials</i> , 2016, 28, 2276-2276.	21.0	3
64	Doxycycline hinders phenylalanine fibril assemblies revealing a potential novel therapeutic approach in phenylketonuria. <i>Scientific Reports</i> , 2015, 5, 15902.	3.3	33
65	Controllable Phase Separation by Boc-Modified Lipophilic Acid as a Multifunctional Extractant. <i>Scientific Reports</i> , 2015, 5, 17509.	3.3	4
66	FtsZ Cytoskeletal Filaments as a Template for Metallic Nanowire Fabrication. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 556-561.	0.9	2
67	Solvent-Induced Self-Assembly of Highly Hydrophobic Tetra- and Pentaphenylalanine Peptides. <i>Israel Journal of Chemistry</i> , 2015, 55, 756-762.	2.3	11
68	Light-emitting self-assembled peptide nucleic acids exhibit both stacking interactions and Watson-Crick base pairing. <i>Nature Nanotechnology</i> , 2015, 10, 353-360.	31.5	136
69	Synergetic functional properties of two-component single amino acid-based hydrogels. <i>CrystEngComm</i> , 2015, 17, 8105-8112.	2.6	34
70	Spontaneous Structural Transition in Phospholipid-Inspired Aromatic Phosphopeptide Nanostructures. <i>ACS Nano</i> , 2015, 9, 4085-4095.	14.6	19
71	Extension of the generic amyloid hypothesis to nonproteinaceous metabolite assemblies. <i>Science Advances</i> , 2015, 1, e1500137.	10.3	119
72	Formation of functional super-helical assemblies by constrained single heptad repeat. <i>Nature Communications</i> , 2015, 6, 8615.	12.8	101

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73	Optical property modulation of Fmoc group by pH-dependent self-assembly. RSC Advances, 2015, 5, 73914-73918.	3.6	25
74	The Use of the Calcitonin Minimal Recognition Module for the Design of DOPA-Containing Fibrillar Assemblies. Nanomaterials, 2014, 4, 726-740.	4.1	9
75	The self-assembling zwitterionic form of L-phenylalanine at neutral pH. Acta Crystallographica Section C, Structural Chemistry, 2014, 70, 326-331.	0.5	55
76	Expanding the Solvent Chemical Space for Self-Assembly of Dipeptide Nanostructures. ACS Nano, 2014, 8, 1243-1253.	14.6	146
77	The physical properties of supramolecular peptide assemblies: from building block association to technological applications. Chemical Society Reviews, 2014, 43, 6881-6893.	38.1	580
78	Ostwald's rule of stages governs structural transitions and morphology of dipeptide supramolecular polymers. Nature Communications, 2014, 5, 5219.	12.8	197
79	Correction: The physical properties of supramolecular peptide assemblies: from building block association to technological applications. Chemical Society Reviews, 2014, 43, 7236-7236.	38.1	14
80	Why Are Diphenylalanine-Based Peptide Nanostructures so Rigid? Insights from First Principles Calculations. Journal of the American Chemical Society, 2014, 136, 963-969.	13.7	136
81	Seamless Metallic Coating and Surface Adhesion of Self-Assembled Bioinspired Nanostructures Based on Di-(3,4-dihydroxy-L-phenylalanine) Peptide Motif. ACS Nano, 2014, 8, 7220-7228.	14.6	68
82	Spacer driven morphological twist in Phe-Phe dipeptide conjugates. Tetrahedron, 2013, 69, 2004-2009.	1.9	11
83	Peptide-based hydrogel nanoparticles as effective drug delivery agents. Bioorganic and Medicinal Chemistry, 2013, 21, 3517-3522.	3.0	119
84	Effect of peptide nanotube filler on structural and ion-transport properties of solid polymer electrolytes. Solid State Ionics, 2012, 220, 39-46.	2.7	10
85	The Rheological and Structural Properties of Fmoc-Peptide-Based Hydrogels: The Effect of Aromatic Molecular Architecture on Self-Assembly and Physical Characteristics. Langmuir, 2012, 28, 2015-2022.	3.5	158
86	Phenylalanine assembly into toxic fibrils suggests amyloid etiology in phenylketonuria. Nature Chemical Biology, 2012, 8, 701-706.	8.0	354
87	Diphenylalanine Peptide Nanotube: Charge Transport, Band Gap And Its Relevance To Potential Biomedical Applications. Advanced Materials Letters, 2011, 2, 100-105.	0.6	27
88	Exploring the self-assembly of glycopeptides using a diphenylalanine scaffold. Organic and Biomolecular Chemistry, 2011, 9, 5755.	2.8	36
89	Improvement of the Mechanical Properties of Epoxy by Peptide Nanotube Fillers. Small, 2011, 7, 1007-1011.	10.0	29
90	Self-Assembled Organic Nanostructures with Metallic-Like Stiffness. Angewandte Chemie - International Edition, 2010, 49, 9939-9942.	13.8	128

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91	Inside Cover: Self-Assembled Organic Nanostructures with Metallic-Like Stiffness (Angew. Chem. Int.) Tj ETQq1 1 0.784314 rgBT /Ove	13.8	9
92	Characterization of Peptideâ€Nanostuctureâ€Modified Electrodes and Their Application for Ultrasensitive Environmental Monitoring. Small, 2010, 6, 825-831.	10.0	75
93	Patterned Arrays of Ordered Peptide Nanostructures. Journal of Nanoscience and Nanotechnology, 2009, 9, 1701-1708.	0.9	13
94	Design of metalâ€binding sites onto selfâ€assembled peptide fibrils. Biopolymers, 2009, 92, 164-172.	2.4	95
95	Self-assembled arrays of peptide nanotubes by vapour deposition. Nature Nanotechnology, 2009, 4, 849-854.	31.5	372
96	Blue Luminescence Based on Quantum Confinement at Peptide Nanotubes. Nano Letters, 2009, 9, 3111-3115.	9.1	187
97	Self-Assembly of Phenylalanine Oligopeptides: Insights from Experiments and Simulations. Biophysical Journal, 2009, 96, 5020-5029.	0.5	212
98	Self-Assembled Fmoc-Peptides as a Platform for the Formation of Nanostructures and Hydrogels. Biomacromolecules, 2009, 10, 2646-2651.	5.4	297
99	Controlled patterning of peptide nanotubes and nanospheres using inkjet printing technology. Journal of Peptide Science, 2008, 14, 217-223.	1.4	91
100	Controlled Assembly of Peptide Nanotubes Triggered by Enzymatic Activation of Self-Immolative Dendrimers. ChemBioChem, 2007, 8, 859-862.	2.6	43
101	Alignment of Aromatic Peptide Tubes in Strong Magnetic Fields. Advanced Materials, 2007, 19, 4474-4479.	21.0	87
102	Direct Observation of the Release of Phenylalanine from Diphenylalanine Nanotubes. Journal of the American Chemical Society, 2006, 128, 6903-6908.	13.7	112
103	Thermal and Chemical Stability of Diphenylalanine Peptide Nanotubes:â€ Implications for Nanotechnological Applications. Langmuir, 2006, 22, 1313-1320.	3.5	349
104	Self-Assembled Peptide Nanotubes Are Uniquely Rigid Bioinspired Supramolecular Structures. Nano Letters, 2005, 5, 1343-1346.	9.1	392
105	Mechanical Enhancement and Kinetics Regulation of Fmocâ€Diphenylalanine Hydrogels by Thioflavin T. Angewandte Chemie, 0, , .	2.0	3