Ehud Gazit

List of Publications by Year
in descending order

350 papers	30,737 citations	5558 82 h-index	5519 163 g-index
382 all docs	382 docs citations	382 times ranked	19545 citing authors

#	Article	IF	Citations
1	Casting Metal Nanowires Within Discrete Self-Assembled Peptide Nanotubes. Science, 2003, 300, 625-627.	6.0	2,321
2	A possible role for Ï€â€stacking in the selfâ€assembly of amyloid fibrils. FASEB Journal, 2002, 16, 77-83.	0.2	1,010
3	Self-assembled peptide nanostructures: the design of molecular building blocks and their technological utilization. Chemical Society Reviews, 2007, 36, 1263.	18.7	931
4	Inhibition of Amyloid Fibril Formation by Polyphenols: Structural Similarity and Aromatic Interactions as a Common Inhibition Mechanism. Chemical Biology and Drug Design, 2006, 67, 27-37.	1.5	859
5	Rigid, Self-Assembled Hydrogel Composed of a Modified Aromatic Dipeptide. Advanced Materials, 2006, 18, 1365-1370.	11.1	742
6	Self-assembling peptide and protein amyloids: from structure to tailored function in nanotechnology. Chemical Society Reviews, 2017, 46, 4661-4708.	18.7	670
7	The physical properties of supramolecular peptide assemblies: from building block association to technological applications. Chemical Society Reviews, 2014, 43, 6881-6893.	18.7	580
8	Controlled patterning of aligned self-assembled peptide nanotubes. Nature Nanotechnology, 2006, 1, 195-200.	15.6	529
9	Amyloids: Not Only Pathological Agents but Also Ordered Nanomaterials. Angewandte Chemie - International Edition, 2008, 47, 4062-4069.	7.2	521
10	Biomimetic peptide self-assembly for functional materials. Nature Reviews Chemistry, 2020, 4, 615-634.	13.8	411
11	Formation of Closed-Cage Nanostructures by Self-Assembly of Aromatic Dipeptides. Nano Letters, 2004, 4, 581-585.	4.5	401
12	Analysis of the Minimal Amyloid-forming Fragment of the Islet Amyloid Polypeptide. Journal of Biological Chemistry, 2001, 276, 34156-34161.	1.6	393
13	Self-Assembled Peptide Nanotubes Are Uniquely Rigid Bioinspired Supramolecular Structures. Nano Letters, 2005, 5, 1343-1346.	4.5	392
14	Self-assembly of short peptides to form hydrogels: Design of building blocks, physical properties and technological applications. Acta Biomaterialia, 2014, 10, 1671-1682.	4.1	384
15	Self-assembled arrays of peptide nanotubes by vapour deposition. Nature Nanotechnology, 2009, 4, 849-854.	15.6	372
16	Strong Piezoelectricity in Bioinspired Peptide Nanotubes. ACS Nano, 2010, 4, 610-614.	7.3	370
17	Fmoc-modified amino acids and short peptides: simple bio-inspired building blocks for the fabrication of functional materials. Chemical Society Reviews, 2016, 45, 3935-3953.	18.7	366
18	Self-assembling peptide semiconductors. Science, 2017, 358, .	6.0	357

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19	Phenylalanine assembly into toxic fibrils suggests amyloid etiology in phenylketonuria. Nature Chemical Biology, 2012, 8, 701-706.	3.9	354
20	Thermal and Chemical Stability of Diphenylalanine Peptide Nanotubes:â€‰ Implications for Nanotechnological Applications. Langmuir, 2006, 22, 1313-1320.	1.6	349
21	Half a century of amyloids: past, present and future. Chemical Society Reviews, 2020, 49, 5473-5509.	18.7	345
22	Hierarchically oriented organization inÂsupramolecular peptide crystals. Nature Reviews Chemistry, 2019, 3, 567-588.	13.8	326
23	Interaction of the Mammalian Antibacterial Peptide Cecropin P1 with Phospholipid Vesicles. Biochemistry, 1995, 34, 11479-11488.	1.2	316
24	Amyloid Fibril Formation by Pentapeptide and Tetrapeptide Fragments of Human Calcitonin. Journal of Biological Chemistry, 2002, 277, 35475-35480.	1.6	315
25	Self-assembling dipeptide antibacterial nanostructures with membrane disrupting activity. Nature Communications, 2017, 8, 1365.	5.8	299
26	Self-Assembled Fmoc-Peptides as a Platform for the Formation of Nanostructures and Hydrogels. Biomacromolecules, 2009, 10, 2646-2651.	2.6	297
27	Novel Electrochemical Biosensing Platform Using Self-Assembled Peptide Nanotubes. Nano Letters, 2005, 5, 183-186.	4.5	289
28	Structure and Orientation of the Mammalian Antibacterial Peptide Cecropin P1 within Phospholipid Membranes. Journal of Molecular Biology, 1996, 258, 860-870.	2.0	262
29	Peptide Nanotube-Modified Electrodes for Enzymeâˆ'Biosensor Applications. Analytical Chemistry, 2005, 77, 5155-5159.	3.2	252
30	Minimalistic peptide supramolecular co-assembly: expanding the conformational space for nanotechnology. Chemical Society Reviews, 2018, 47, 3406-3420.	18.7	241
31	Fabrication of Coaxial Metal Nanocables Using a Self-Assembled Peptide Nanotube Scaffold. Nano Letters, 2006, 6, 1594-1597.	4.5	231
32	Allostery and Intrinsic Disorder Mediate Transcription Regulation by Conditional Cooperativity. Cell, 2010, 142, 101-111.	13.5	226
33	Mechanisms of amyloid fibril self-assembly and inhibition. FEBS Journal, 2005, 272, 5971-5978.	2.2	223
34	Self-Assembly of Phenylalanine Oligopeptides: Insights from Experiments and Simulations. Biophysical Journal, 2009, 96, 5020-5029.	0.2	212
35	Inhibition of Islet Amyloid Polypeptide Fibril Formation:â€‰ A Potential Role for Heteroaromatic Interactions. Biochemistry, 2004, 43, 14454-14462.	1.2	208
36	The â€œCorrectly Foldedâ€•State of Proteins: Is It a Metastable State?. Angewandte Chemie - International Edition, 2002, 41, 257.	7.2	205

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37	Self-assembly of peptide nanotubes and amyloid-like structures by charged-termini-capped diphenylalanine peptide analogues. Israel Journal of Chemistry, 2005, 45, 363-371.	1.0	201
38	Ostwaldâ€™s rule of stages governs structural transitions and morphology of dipeptide supramolecular polymers. Nature Communications, 2014, 5, 5219.	5.8	197
39	Mode of Action of the Antibacterial Cecropin B2: A Spectrofluorometric Study. Biochemistry, 1994, 33, 10681-10692.	1.2	194
40	Blue Luminescence Based on Quantum Confinement at Peptide Nanotubes. Nano Letters, 2009, 9, 3111-3115.	4.5	187
41	Designed aromatic homo-dipeptides: formation of ordered nanostructures and potential nanotechnological applications. Physical Biology, 2006, 3, S10-S19.	0.8	182
42	Identification and Characterization of a Novel Molecular-recognition and Self-assembly Domain within the Islet Amyloid Polypeptide. Journal of Molecular Biology, 2002, 322, 1013-1024.	2.0	180
43	Elementary Building Blocks of Self-Assembled Peptide Nanotubes. Journal of the American Chemical Society, 2010, 132, 15632-15636.	6.6	174
44	The Human Islet Amyloid Polypeptide Forms Transient Membrane-Active Prefibrillar Assemblies. Biochemistry, 2003, 42, 10971-10977.	1.2	168
45	Molecular Self-Assembly of Peptide Nanostructures: Mechanism of Association and Potential Uses. Current Nanoscience, 2006, 2, 105-111.	0.7	168
46	Orally Administrated Cinnamon Extract Reduces Î²-Amyloid Oligomerization and Corrects Cognitive Impairment in Alzheimer's Disease Animal Models. PLoS ONE, 2011, 6, e16564.	1.1	160
47	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.	1.6	158
48	Photoactive properties of supramolecular assembled short peptides. Chemical Society Reviews, 2019, 48, 4387-4400.	18.7	150
49	A Self-Healing, All-Organic, Conducting, Composite Peptide Hydrogel as Pressure Sensor and Electrogenic Cell Soft Substrate. ACS Nano, 2019, 13, 163-175.	7.3	149
50	Expanding the Solvent Chemical Space for Self-Assembly of Dipeptide Nanostructures. ACS Nano, 2014, 8, 1243-1253.	7.3	146
51	Inhibition of Amyloid Fibril Formation and Cytotoxicity by Hydroxyindole Derivatives. Biochemistry, 2006, 45, 4727-4735.	1.2	145
52	Non-proteinaceous hydrolase comprised of a phenylalanine metallo-supramolecular amyloid-like structure. Nature Catalysis, 2019, 2, 977-985.	16.1	142
53	Why Are Diphenylalanine-Based Peptide Nanostructures so Rigid? Insights from First Principles Calculations. Journal of the American Chemical Society, 2014, 136, 963-969.	6.6	136
54	Light-emitting self-assembled peptide nucleic acids exhibit both stacking interactions and Watsonâ€“Crick base pairing. Nature Nanotechnology, 2015, 10, 353-360.	15.6	136

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55	Bioinspired Design of Nanocages by Self-Assembling Triskelion Peptide Elements. Angewandte Chemie - International Edition, 2007, 46, 2002-2004.	7.2	133
56	Peptide self-assembly at the nanoscale: a challenging target for computational and experimental biotechnology. Trends in Biotechnology, 2007, 25, 211-218.	4.9	133
57	Rigid helical-like assemblies from a self-aggregating tripeptide. Nature Materials, 2019, 18, 503-509.	13.3	133
58	Cognitiveâ€Performance Recovery of Alzheimer's Disease Model Mice by Modulation of Early Soluble Amyloidal Assemblies. Angewandte Chemie - International Edition, 2009, 48, 1981-1986.	7.2	131
59	Proteostasis of Islet Amyloid Polypeptide: A Molecular Perspective of Risk Factors and Protective Strategies for Type II Diabetes. Chemical Reviews, 2021, 121, 1845-1893.	23.0	129
60	Complete Phenotypic Recovery of an Alzheimer's Disease Model by a Quinone-Tryptophan Hybrid Aggregation Inhibitor. PLoS ONE, 2010, 5, e11101.	1.1	129
61	Selfâ€Assembled Organic Nanostructures with Metallicâ€Like Stiffness. Angewandte Chemie - International Edition, 2010, 49, 9939-9942.	7.2	128
62	Inhibition of Amyloid Fibril Formation by Peptide Analogues Modified withÎ±-Aminoisobutyric Acid. Angewandte Chemie - International Edition, 2004, 43, 4041-4044.	7.2	127
63	Recent Advances in Organic and Organicâ€"Inorganic Hybrid Materials for Piezoelectric Mechanical Energy Harvesting. Advanced Functional Materials, 2022, 32, .	7.8	124
64	Use of biomolecular templates for the fabrication of metal nanowires. FEBS Journal, 2007, 274, 317-322.	2.2	122
65	Quantum confined peptide assemblies with tunable visible to near-infrared spectral range. Nature Communications, 2018, 9, 3217.	5.8	122
66	Metal-Ion Modulated Structural Transformation of Amyloid-Like Dipeptide Supramolecular Self-Assembly. ACS Nano, 2019, 13, 7300-7309.	7.3	121
67	Peptide-based hydrogel nanoparticles as effective drug delivery agents. Bioorganic and Medicinal Chemistry, 2013, 21, 3517-3522.	1.4	119
68	Extension of the generic amyloid hypothesis to nonproteinaceous metabolite assemblies. Science Advances, 2015, 1, e1500137.	4.7	119
69	Self Assembly of Short Aromatic Peptides into Amyloid Fibrils and Related Nanostructures. Prion, 2007, 1, 32-35.	0.9	118
70	A model for the role of short selfâ€assembled peptides in the very early stages of the origin of life. FASEB Journal, 2005, 19, 1051-1055.	0.2	115
71	Direct Observation of the Release of Phenylalanine from Diphenylalanine Nanotubes. Journal of the American Chemical Society, 2006, 128, 6903-6908.	6.6	112
72	Energy landscape of amyloidogenic peptide oligomerization by parallel-tempering molecular dynamics simulation: Significant role of Asn ladder. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8174-8179.	3.3	109

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73	Tailorâ€Made Functional Peptide Selfâ€Assembling Nanostructures. Advanced Materials, 2018, 30, e1707083.	11.1	104
74	Formation of functional super-helical assemblies by constrained single heptad repeat. Nature Communications, 2015, 6, 8615.	5.8	101
75	Design of metalâ€binding sites onto selfâ€assembled peptide fibrils. Biopolymers, 2009, 92, 164-172.	1.2	95
76	Chiral modulation of amyloid beta fibrillation and cytotoxicity by enantiomeric carbon dots. Chemical Communications, 2018, 54, 7762-7765.	2.2	95
77	Inhibiting Î±-Synuclein Oligomerization by Stable Cell-Penetrating Î²-Synuclein Fragments Recovers Phenotype of Parkinson's Disease Model Flies. PLoS ONE, 2010, 5, e13863.	1.1	92
78	Controlled patterning of peptide nanotubes and nanospheres using inkjet printing technology. Journal of Peptide Science, 2008, 14, 217-223.	0.8	91
79	Controlling the Physical Dimensions of Peptide Nanotubes by Supramolecular Polymer Coassembly. ACS Nano, 2016, 10, 7436-7442.	7.3	91
80	Structural Transition in Peptide Nanotubes. Biomacromolecules, 2011, 12, 1349-1354.	2.6	90
81	Dynamic microfluidic control of supramolecular peptide self-assembly. Nature Communications, 2016, 7, 13190.	5.8	89
82	The Formation of Escherichia coli Curli Amyloid Fibrils is Mediated by Prion-like Peptide Repeats. Journal of Molecular Biology, 2005, 352, 245-252.	2.0	87
83	Quantum Confinement in Selfâ€Assembled Bioinspired Peptide Hydrogels. Advanced Materials, 2010, 22, 2311-2315.	11.1	86
84	Self-Assembly of Aromatic Amino Acid Enantiomers into Supramolecular Materials of High Rigidity. ACS Nano, 2020, 14, 1694-1706.	7.3	86
85	Interplay between protein glycosylation pathways in Alzheimerâ€™s disease. Science Advances, 2017, 3, e1601576.	4.7	85
86	Structural and functional characterization of the .alpha.5 segment of Bacillus thuringiensis .delta.-endotoxin. Biochemistry, 1993, 32, 3429-3436.	1.2	84
87	A Blood-Brain Barrier (BBB) Disrupter Is Also a Potent Î±-Synuclein (Î±-syn) Aggregation Inhibitor. Journal of Biological Chemistry, 2013, 288, 17579-17588.	1.6	84
88	Expanding the Nanoarchitectural Diversity Through Aromatic Di- and Tri-Peptide Coassembly: Nanostructures and Molecular Mechanisms. ACS Nano, 2016, 10, 8316-8324.	7.3	84
89	Amino Acid Based Selfâ€assembled Nanostructures: Complex Structures from Remarkably Simple Building Blocks. ChemNanoMat, 2018, 4, 730-740.	1.5	84
90	Self-organization of Short Peptide Fragments: From Amyloid Fibrils to Nanoscale Supramolecular Assemblies. Supramolecular Chemistry, 2005, 17, 87-92.	1.5	83

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91	Molecular Mapping of the Recognition Interface between the Islet Amyloid Polypeptide and Insulin. Angewandte Chemie - International Edition, 2006, 45, 6476-6480.	7.2	83
92	Peptide Sequence and Amyloid Formation. Structure, 2004, 12, 439-455.	1.6	82
93	Bioinspired Stable and Photoluminescent Assemblies for Power Generation. Advanced Materials, 2019, 31, e1807481.	11.1	82
94	The Assembly and Organization of the Î±5 and Î±7 Helices from the Pore-forming Domain of Bacillusthuringiensis Î´-Endotoxin. Journal of Biological Chemistry, 1995, 270, 2571-2578.	1.6	77
95	The YefM Antitoxin Defines a Family of Natively Unfolded Proteins. Journal of Biological Chemistry, 2004, 279, 8252-8261.	1.6	75
96	Characterization of Peptideâ€Nanostructureâ€Modified Electrodes and Their Application for Ultrasensitive Environmental Monitoring. Small, 2010, 6, 825-831.	5.2	75
97	Amyloidogenic hexapeptide fragment of medin: homology to functional islet amyloid polypeptide fragments. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2004, 11, 81-89.	1.4	74
98	Unusual Twoâ€Step Assembly of a Minimalistic Dipeptideâ€Based Functional Hypergelator. Advanced Materials, 2020, 32, e1906043.	11.1	73
99	Nanoengineered Peptideâ€Based Antimicrobial Conductive Supramolecular Biomaterial for Cardiac Tissue Engineering. Advanced Materials, 2021, 33, e2008715.	11.1	73
100	Structural Polymorphism in a Self-Assembled Tri-Aromatic Peptide System. ACS Nano, 2018, 12, 3253-3262.	7.3	72
101	Structural characterization, membrane interaction, and specific assembly within phospholipid membranes of hydrophobic segments from Bacillus thuringiensis var. israelensis cytolytic toxin. Biochemistry, 1993, 32, 12363-12371.	1.2	70
102	Selfâ€Assembled Peptide Nanoâ€Superstructure towards Enzyme Mimicking Hydrolysis. Angewandte Chemie - International Edition, 2021, 60, 17164-17170.	7.2	69
103	Seamless Metallic Coating and Surface Adhesion of Self-Assembled Bioinspired Nanostructures Based on Di-(3,4-dihydroxy-<scp>l</scp>-phenylalanine) Peptide Motif. ACS Nano, 2014, 8, 7220-7228.	7.3	68
104	Molecular engineering of piezoelectricity in collagen-mimicking peptide assemblies. Nature Communications, 2021, 12, 2634.	5.8	68
105	Apoptosis induced by islet amyloid polypeptide soluble oligomers is neutralized by diabetes-associated specific antibodies. Scientific Reports, 2014, 4, 4267.	1.6	67
106	Intrinsic Fluorescence of Metabolite Amyloids Allows Labelâ€Free Monitoring of Their Formation and Dynamics in Live Cells. Angewandte Chemie - International Edition, 2018, 57, 12444-12447.	7.2	67
107	The molecular mechanisms of the anti-amyloid effects of phenols. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2007, 14, 73-87.	1.4	66
108	Single amino acid bionanozyme for environmental remediation. Nature Communications, 2022, 13, 1505.	5.8	66

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109	Organization of Amino Acids into Layered Supramolecular Secondary Structures. Accounts of Chemical Research, 2018, 51, 2187-2197.	7.6	65
110	Green tea extracts interfere with the stressâ€protective activity of PrP^C and the formation of PrP^{Sc}. Journal of Neurochemistry, 2008, 107, 218-229.	2.1	64
111	Global analysis of tandem aromatic octapeptide repeats: The significance of the aromatic-glycine motif. Bioinformatics, 2002, 18, 880-883.	1.8	63
112	The yefM-yoeB Toxin-Antitoxin Systems of Escherichia coli and Streptococcus pneumoniae : Functional and Structural Correlation. Journal of Bacteriology, 2007, 189, 1266-1278.	1.0	63
113	Mechanistic Studies of the Process of Amyloid Fibrils Formation by the Use of Peptide Fragments and Analogues: Implications for the Design of Fibrillization Inhibitors. Current Medicinal Chemistry, 2002, 9, 1725-1735.	1.2	62
114	In vivo aggregation of a single enzyme limits growth of Escherichia coli at elevated temperatures. Molecular Microbiology, 2002, 46, 1391-1397.	1.2	62
115	Spontaneous structural transition and crystal formation in minimal supramolecular polymer model. Science Advances, 2016, 2, e1500827.	4.7	62
116	Diphenylalanine as a Reductionist Model for the Mechanistic Characterization of Î2<i>-</i>Amyloid Modulators. ACS Nano, 2017, 11, 5960-5969.	7.3	62
117	Stable and optoelectronic dipeptide assemblies for power harvesting. Materials Today, 2019, 30, 10-16.	8.3	62
118	Coassembly-Induced Transformation of Dipeptide Amyloid-Like Structures into Stimuli-Responsive Supramolecular Materials. ACS Nano, 2020, 14, 7181-7190.	7.3	62
119	Tunable Mechanical and Optoelectronic Properties of Organic Cocrystals by Unexpected Stacking Transformation from H- to J- and X-Aggregation. ACS Nano, 2020, 14, 10704-10715.	7.3	61
120	Bacoside-A, an Indian Traditional-Medicine Substance, Inhibits Î2-Amyloid Cytotoxicity, Fibrillation, and Membrane Interactions. ACS Chemical Neuroscience, 2017, 8, 884-891.	1.7	60
121	Stability and DNA Binding of the Phd Protein of the Phage P1 Plasmid Addiction System. Journal of Biological Chemistry, 1999, 274, 2652-2657.	1.6	59
122	Diphenylalanine-Derivative Peptide Assemblies with Increased Aromaticity Exhibit Metal-like Rigidity and High Piezoelectricity. ACS Nano, 2020, 14, 7025-7037.	7.3	59
123	Two Decades of Studying Functional Amyloids in Microorganisms. Trends in Microbiology, 2021, 29, 251-265.	3.5	58
124	Polyphenol-induced dissociation of various amyloid fibrils results in a methionine-independent formation of ROS. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2008, 1784, 1570-1577.	1.1	57
125	Expanding the Functional Scope of the Fmocâ€Diphenylalanine Hydrogelator by Introducing a Rigidifying and Chemically Active Urea Backbone Modification. Advanced Science, 2019, 6, 1900218.	5.6	57
126	Oligosaccharides Self-Assemble and Show Intrinsic Optical Properties. Journal of the American Chemical Society, 2019, 141, 4833-4838.	6.6	57

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127	Formation of Apoptosisâ€Inducing Amyloid Fibrils by Tryptophan. Israel Journal of Chemistry, 2017, 57, 729-737.	1.0	56
128	The self-assembling zwitterionic form of<scp>L</scp>-phenylalanine at neutral pH. Acta Crystallographica Section C, Structural Chemistry, 2014, 70, 326-331.	0.2	55
129	Targeting insulin amyloid assembly by small aromatic molecules: Toward rational design of aggregation inhibitors. Islets, 2009, 1, 210-215.	0.9	53
130	Differential inhibition of metabolite amyloid formation by generic fibrillation-modifying polyphenols. Communications Chemistry, 2018, 1, .	2.0	52
131	The Doc Toxin and Phd Antidote Proteins of the Bacteriophage P1 Plasmid Addiction System Form a Heterotrimeric Complex. Journal of Biological Chemistry, 1999, 274, 16813-16818.	1.6	51
132	Long-Range Spin-Selective Transport in Chiral Metalâ€"Organic Crystals with Temperature-Activated Magnetization. ACS Nano, 2020, 14, 16624-16633.	7.3	51
133	Molecular dynamics simulation of the aggregation of the core-recognition motif of the islet amyloid polypeptide in explicit water. Proteins: Structure, Function and Bioinformatics, 2005, 59, 519-527.	1.5	49
134	A minimal length rigid helical peptide motif allows rational design of modular surfactants. Nature Communications, 2017, 8, 14018.	5.8	49
135	Reductionist Approach in Peptide-Based Nanotechnology. Annual Review of Biochemistry, 2018, 87, 533-553.	5.0	49
136	The Inhibitory Effect of Hydroxylated Carbon Nanotubes on the Aggregation of Human Islet Amyloid Polypeptide Revealed by a Combined Computational and Experimental Study. ACS Chemical Neuroscience, 2018, 9, 2741-2752.	1.7	49
137	High-Efficiency Fluorescence through Bioinspired Supramolecular Self-Assembly. ACS Nano, 2020, 14, 2798-2807.	7.3	49
138	Guest Molecule-Mediated Energy Harvesting in a Conformationally Sensitive Peptideâ€"Metal Organic Framework. Journal of the American Chemical Society, 2022, 144, 3468-3476.	6.6	49
139	Functional Single-Chain Polymer Nanoparticles: Targeting and Imaging Pancreatic Tumors <i>in Vivo</i>. Biomacromolecules, 2016, 17, 3213-3221.	2.6	48
140	Rigid Tightly Packed Amino Acid Crystals as Functional Supramolecular Materials. ACS Nano, 2019, 13, 14477-14485.	7.3	48
141	Fibril formation and therapeutic targeting of amyloid-like structures in a yeast model of adenine accumulation. Nature Communications, 2019, 10, 62.	5.8	48
142	The minimal amyloid-forming fragment of the islet amyloid polypeptide is a glycolipid-binding domain. FEBS Journal, 2006, 273, 5724-5735.	2.2	47
143	Spectral Transition in Bioâ€Inspired Selfâ€Assembled Peptide Nucleic Acid Photonic Crystals. Advanced Materials, 2016, 28, 2195-2200.	11.1	47
144	Liquidâ€"Liquid Phase Separation of Tau Protein Is Encoded at the Monomeric Level. Journal of Physical Chemistry Letters, 2021, 12, 2576-2586.	2.1	47

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145	Expanding the Structural Diversity and Functional Scope of Diphenylalanine-Based Peptide Architectures by Hierarchical Coassembly. Journal of the American Chemical Society, 2021, 143, 17633-17645.	6.6	47
146	The Selfâ€Assembly of Helical Peptide Building Blocks. ChemNanoMat, 2016, 2, 323-332.	1.5	46
147	Purpurin modulates Tau-derived VQIVYK fibrillization and ameliorates Alzheimerâ€™s disease-like symptoms in animal model. Cellular and Molecular Life Sciences, 2020, 77, 2795-2813.	2.4	46
148	Completely different amyloidogenic potential of nearly identical peptide fragments. Biopolymers, 2003, 69, 161-164.	1.2	45
149	Generic inhibition of amyloidogenic proteins by two naphthoquinoneâ€"tryptophan hybrid molecules. Proteins: Structure, Function and Bioinformatics, 2012, 80, 1962-1973.	1.5	44
150	Piezoelectric Peptide and Metabolite Materials. Research, 2019, 2019, 9025939.	2.8	44
151	Controlled Assembly of Peptide Nanotubes Triggered by Enzymatic Activation of Self-Immolative Dendrimers. ChemBioChem, 2007, 8, 859-862.	1.3	43
152	Quinolinic Acid Amyloid-like Fibrillar Assemblies Seed Î±-Synuclein Aggregation. Journal of Molecular Biology, 2018, 430, 3847-3862.	2.0	43
153	Inhibition of amyloid oligomerization into different supramolecular architectures by small molecules: mechanistic insights and design rules. Future Medicinal Chemistry, 2017, 9, 797-810.	1.1	42
154	Novel Mannitol-Based Small Molecules for Inhibiting Aggregation of Î±-Synuclein Amyloids in Parkinson's Disease. Frontiers in Molecular Biosciences, 2019, 6, 16.	1.6	42
155	Mechanistic insights into remodeled Tau-derived PHF6 peptide fibrils by Naphthoquinone-Tryptophan hybrids. Scientific Reports, 2018, 8, 71.	1.6	41
156	Biological and Chemical Decoration of Peptide Nanostructures via Biotinâ€"Avidin Interactions. Journal of Nanoscience and Nanotechnology, 2007, 7, 2239-2245.	0.9	40
157	Molecular selfâ€assembly using peptide nucleic acids. Biopolymers, 2017, 108, e22930.	1.2	40
158	Stoichiometry-controlled secondary structure transition of amyloid-derived supramolecular dipeptide co-assemblies. Communications Chemistry, 2019, 2, .	2.0	40
159	Vertically Aligned Peptide Nanostructures Using Plasma-Enhanced Chemical Vapor Deposition. Biomacromolecules, 2014, 15, 533-540.	2.6	39
160	Naphthoquinone-Tryptophan Hybrid Inhibits Aggregation of the Tau-Derived Peptide PHF6 and Reduces Neurotoxicity. Journal of Alzheimer's Disease, 2016, 51, 165-178.	1.2	39
161	Accelerated charge transfer in water-layered peptide assemblies. Energy and Environmental Science, 2020, 13, 96-101.	15.6	39
162	Biocompatible Hybrid Organic/Inorganic Microhydrogels Promote Bacterial Adherence and Eradication <i>in Vitro</i> and <i>in Vivo</i>. Nano Letters, 2020, 20, 1590-1597.	4.5	38

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163	Phenolsulfonphthalein, but Not Phenolphthalein, Inhibits Amyloid Fibril Formation: Implications for the Modulation of Amyloid Self-Assembly. Biochemistry, 2008, 47, 5896-5904.	1.2	37
164	Selective Inhibition of Aggregation and Toxicity of a Tauâ€Derived Peptide using Its Glycosylated Analogues. Chemistry - A European Journal, 2016, 22, 5945-5952.	1.7	37
165	Composite of Peptideâ€Supramolecular Polymer and Covalent Polymer Comprises a New Multifunctional, Bioâ€Inspired Soft Material. Macromolecular Rapid Communications, 2019, 40, e1900175.	2.0	37
166	Exploring the self-assembly of glycopeptides using a diphenylalanine scaffold. Organic and Biomolecular Chemistry, 2011, 9, 5755.	1.5	36
167	Enhanced Nanoassembly-Incorporated Antibacterial Composite Materials. ACS Applied Materials & Interfaces, 2019, 11, 21334-21342.	4.0	36
168	The Role of the 14â€"20 Domain of the Islet Amyloid Polypeptide in Amyloid Formation. Experimental Diabetes Research, 2008, 2008, 1-8.	3.8	35
169	The generic amyloid formation inhibition effect of a designed small aromatic Î²-breaking peptide. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2011, 18, 119-127.	1.4	35
170	Mechanistic perspective and functional activity of insulin in amylin aggregation. Chemical Science, 2018, 9, 4244-4252.	3.7	35
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