

Samuel I Stupp

List of Publications by Year in descending order

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282
papers

35,871
citations

2669
95
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293
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docs citations

293
times ranked

26296
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembly and Mineralization of Peptide-Amphiphile Nanofibers. <i>Science</i> , 2001, 294, 1684-1688.	6.0	3,460
2	Selective Differentiation of Neural Progenitor Cells by High-Epitope Density Nanofibers. <i>Science</i> , 2004, 303, 1352-1355.	6.0	2,062
3	Self-assembly of peptide amphiphiles: From molecules to nanostructures to biomaterials. <i>Biopolymers</i> , 2010, 94, 1-18.	1.2	1,317
4	Peptide-amphiphile nanofibers: A versatile scaffold for the preparation of self-assembling materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5133-5138.	3.3	1,170
5	Self-Assembling Nanofibers Inhibit Glial Scar Formation and Promote Axon Elongation after Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2008, 28, 3814-3823.	1.7	644
6	A self-assembly pathway to aligned monodomain gels. <i>Nature Materials</i> , 2010, 9, 594-601.	13.3	576
7	Self-Assembly of Large and Small Molecules into Hierarchically Ordered Sacs and Membranes. <i>Science</i> , 2008, 319, 1812-1816.	6.0	568
8	Semiconducting superlattices templated by molecular assemblies. <i>Nature</i> , 1996, 380, 325-328.	13.7	525
9	Supramolecular design of self-assembling nanofibers for cartilage regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3293-3298.	3.3	487
10	A Naphthodithiophene-Diketopyrrolopyrrole Donor Molecule for Efficient Solution-Processed Solar Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 8142-8145.	6.6	474
11	Room-temperature ferroelectricity in supramolecular networks of charge-transfer complexes. <i>Nature</i> , 2012, 488, 485-489.	13.7	446
12	Self-assembling peptide scaffolds for regenerative medicine. <i>Chemical Communications</i> , 2012, 48, 26-33.	2.2	446
13	Self-Assembly Combining Two Bioactive Peptide-Amphiphile Molecules into Nanofibers by Electrostatic Attraction. <i>Journal of the American Chemical Society</i> , 2003, 125, 7146-7147.	6.6	439
14	From Molecules to Materials: Current Trends and Future Directions. <i>Advanced Materials</i> , 1998, 10, 1297-1336.	11.1	429
15	Supramolecular Chemistry and Self-Assembly in Organic Materials Design. <i>Chemistry of Materials</i> , 2014, 26, 507-518.	3.2	421
16	Supramolecular Assembly of Peptide Amphiphiles. <i>Accounts of Chemical Research</i> , 2017, 50, 2440-2448.	7.6	414
17	Self-Assembly of Giant Peptide Nanobelts. <i>Nano Letters</i> , 2009, 9, 945-951.	4.5	412
18	Heparin Binding Nanostructures to Promote Growth of Blood Vessels. <i>Nano Letters</i> , 2006, 6, 2086-2090.	4.5	404

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19	Self-assembling hydrogel scaffolds for photocatalytic hydrogen production. <i>Nature Chemistry</i> , 2014, 6, 964-970.	6.6	394
20	Supramolecular ferroelectrics. <i>Nature Chemistry</i> , 2015, 7, 281-294.	6.6	379
21	Tuning Supramolecular Rigidity of Peptide Fibers through Molecular Structure. <i>Journal of the American Chemical Society</i> , 2010, 132, 6041-6046.	6.6	367
22	Energy landscapes and functions of supramolecular systems. <i>Nature Materials</i> , 2016, 15, 469-476.	13.3	348
23	Coassembly of Amphiphiles with Opposite Peptide Polarities into Nanofibers. <i>Journal of the American Chemical Society</i> , 2005, 127, 1193-1200.	6.6	303
24	Supramolecular nanostructures that mimic VEGF as a strategy for ischemic tissue repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 13438-13443.	3.3	288
25	Development of bioactive peptide amphiphiles for therapeutic cell delivery. <i>Acta Biomaterialia</i> , 2010, 6, 3-11.	4.1	286
26	Self-assembling peptide amphiphile nanofiber matrices for cell entrapment. <i>Acta Biomaterialia</i> , 2005, 1, 387-397.	4.1	285
27	Direct Observation of Morphological Transformation from Twisted Ribbons into Helical Ribbons. <i>Journal of the American Chemical Society</i> , 2010, 132, 8819-8821.	6.6	285
28	25th Anniversary Article: Supramolecular Materials for Regenerative Medicine. <i>Advanced Materials</i> , 2014, 26, 1642-1659.	11.1	285
29	Enhanced Out-of-Plane Conductivity and Photovoltaic Performance in $n = 1$ Layered Perovskites through Organic Cation Design. <i>Journal of the American Chemical Society</i> , 2018, 140, 7313-7323.	6.6	260
30	Self-Assembly of Dendron Rodcoil Molecules into Nanoribbons. <i>Journal of the American Chemical Society</i> , 2001, 123, 4105-4106.	6.6	256
31	Semiconductor Nanohelices Templated by Supramolecular Ribbons. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1705-1709.	7.2	256
32	Synthesis, Self-Assembly, and Characterization of Supramolecular Polymers from Electroactive Dendron Rodcoil Molecules. <i>Journal of the American Chemical Society</i> , 2004, 126, 14452-14458.	6.6	256
33	Peptide self-assembly for crafting functional biological materials. <i>Current Opinion in Solid State and Materials Science</i> , 2011, 15, 225-235.	5.6	251
34	Amino Acid Sequence in Constitutionally Isomeric Tetrapeptide Amphiphiles Dictates Architecture of One-Dimensional Nanostructures. <i>Journal of the American Chemical Society</i> , 2014, 136, 12461-12468.	6.6	249
35	Reversible self-assembly of superstructured networks. <i>Science</i> , 2018, 362, 808-813.	6.0	249
36	Bone regeneration with low dose BMP-2 amplified by biomimetic supramolecular nanofibers within collagen scaffolds. <i>Biomaterials</i> , 2013, 34, 452-459.	5.7	244

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37	Self-Assembled Peptide Amphiphile Nanofibers Conjugated to MRI Contrast Agents. <i>Nano Letters</i> , 2005, 5, 1-4.	4.5	243
38	Bone regeneration mediated by biomimetic mineralization of a nanofiber matrix. <i>Biomaterials</i> , 2010, 31, 6004-6012.	5.7	241
39	Nanostructure Templating in Inorganic Solids with Organic Lyotropic Liquid Crystals. <i>Journal of the American Chemical Society</i> , 1999, 121, 7302-7309.	6.6	230
40	Pathway Selection in Peptide Amphiphile Assembly. <i>Journal of the American Chemical Society</i> , 2014, 136, 8540-8543.	6.6	221
41	Antitumor Activity of Peptide Amphiphile Nanofiber-Encapsulated Camptothecin. <i>ACS Nano</i> , 2011, 5, 9113-9121.	7.3	219
42	Controlled release of dexamethasone from peptide nanofiber gels to modulate inflammatory response. <i>Biomaterials</i> , 2012, 33, 6823-6832.	5.7	214
43	Supramolecular crafting of cell adhesion. <i>Biomaterials</i> , 2007, 28, 4608-4618.	5.7	213
44	Self-assembly for the synthesis of functional biomaterials. <i>Acta Materialia</i> , 2013, 61, 912-930.	3.8	209
45	Peptide supramolecular materials for therapeutics. <i>Chemical Society Reviews</i> , 2018, 47, 7539-7551.	18.7	208
46	Molecular Simulation Study of Peptide Amphiphile Self-Assembly. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2326-2334.	1.2	201
47	Tunable Mechanics of Peptide Nanofiber Gels. <i>Langmuir</i> , 2010, 26, 3641-3647.	1.6	197
48	Atomistic Molecular Dynamics Simulations of Peptide Amphiphile Self-Assembly into Cylindrical Nanofibers. <i>Journal of the American Chemical Society</i> , 2011, 133, 3677-3683.	6.6	195
49	Self-Assembly and Biomaterials. <i>Nano Letters</i> , 2010, 10, 4783-4786.	4.5	191
50	Light-Driven Expansion of Spiropyran Hydrogels. <i>Journal of the American Chemical Society</i> , 2020, 142, 8447-8453.	6.6	190
51	Supramolecular "covalent hybrid polymers for light-activated mechanical actuation. <i>Nature Materials</i> , 2020, 19, 900-909.	13.3	186
52	Light-Triggered Bioactivity in Three Dimensions. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5946-5949.	7.2	185
53	Induction of Cancer Cell Death by Self-assembling Nanostructures Incorporating a Cytotoxic Peptide. <i>Cancer Research</i> , 2010, 70, 3020-3026.	0.4	182
54	A synergistic assembly of nanoscale lamellar photoconductor hybrids. <i>Nature Materials</i> , 2009, 8, 68-75.	13.3	174

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55	Aligned neurite outgrowth and directed cell migration in self-assembled monodomain gels. <i>Biomaterials</i> , 2014, 35, 185-195.	5.7	173
56	Simultaneous covalent and noncovalent hybrid polymerizations. <i>Science</i> , 2016, 351, 497-502.	6.0	164
57	Peptide Amphiphile Nanofibers with Conjugated Polydiacetylene Backbones in Their Core. <i>Journal of the American Chemical Society</i> , 2008, 130, 3892-3899.	6.6	163
58	Integration of Enzymes and Photosensitizers in a Hierarchical Mesoporous Metal-Organic Framework for Light-Driven CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 1768-1773.	6.6	163
59	Fast and programmable locomotion of hydrogel-metal hybrids under light and magnetic fields. <i>Science Robotics</i> , 2020, 5, .	9.9	163
60	pH and Amphiphilic Structure Direct Supramolecular Behavior in Biofunctional Assemblies. <i>Journal of the American Chemical Society</i> , 2014, 136, 14746-14752.	6.6	161
61	Spontaneous and X-ray-Triggered Crystallization at Long Range in Self-Assembling Filament Networks. <i>Science</i> , 2010, 327, 555-559.	6.0	159
62	Internal dynamics of a supramolecular nanofibre. <i>Nature Materials</i> , 2014, 13, 812-816.	13.3	154
63	Gel Scaffolds of BMP-2-Binding Peptide Amphiphile Nanofibers for Spinal Arthrodesis. <i>Advanced Healthcare Materials</i> , 2015, 4, 131-141.	3.9	154
64	Sulfated glycopeptide nanostructures for multipotent protein activation. <i>Nature Nanotechnology</i> , 2017, 12, 821-829.	15.6	148
65	Organoapatites: Materials for artificial bone. I. Synthesis and microstructure. <i>Journal of Biomedical Materials Research Part B</i> , 1992, 26, 169-183.	3.0	146
66	Bioactive scaffolds with enhanced supramolecular motion promote recovery from spinal cord injury. <i>Science</i> , 2021, 374, 848-856.	6.0	144
67	Self-Assembling peptide amphiphile promotes plasticity of serotonergic fibers following spinal cord injury. <i>Journal of Neuroscience Research</i> , 2010, 88, 3161-3170.	1.3	141
68	Encapsulation of Carbon Nanotubes by Self-Assembling Peptide Amphiphiles. <i>Langmuir</i> , 2005, 21, 4705-4709.	1.6	139
69	Micropatterning of bioactive self-assembling gels. <i>Soft Matter</i> , 2009, 5, 1228.	1.2	137
70	Cell death versus cell survival instructed by supramolecular cohesion of nanostructures. <i>Nature Communications</i> , 2014, 5, 3321.	5.8	135
71	Synthesis of nanocomposites: Organoceramics. <i>Journal of Materials Research</i> , 1992, 7, 2599-2611.	1.2	134
72	CdS mineralization of hexagonal, lamellar, and cubic lyotropic liquid crystals. <i>Materials Research Bulletin</i> , 1999, 34, 463-469.	2.7	133

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73	A bioactive self-assembled membrane to promote angiogenesis. <i>Biomaterials</i> , 2011, 32, 1574-1582.	5.7	133
74	Switching of self-assembly in a peptide nanostructure with a specific enzyme. <i>Soft Matter</i> , 2011, 7, 9665.	1.2	132
75	One-Dimensional Assembly of Lipophilic Inorganic Nanoparticles Templated by Peptide-Based Nanofibers with Binding Functionalities. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1833-1836.	7.2	130
76	Drug release from hydrazone-containing peptide amphiphiles. <i>Chemical Communications</i> , 2011, 47, 7962.	2.2	128
77	Nucleation and Growth of Ordered Arrays of Silver Nanoparticles on Peptide Nanofibers: Hybrid Nanostructures with Antimicrobial Properties. <i>Journal of the American Chemical Society</i> , 2016, 138, 5507-5510.	6.6	128
78	A Torsional Strain Mechanism To Tune Pitch in Supramolecular Helices. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5873-5876.	7.2	124
79	The internal structure of self-assembled peptide amphiphiles nanofibers. <i>Soft Matter</i> , 2007, 3, 454.	1.2	123
80	Bioactive Nanofibers Instruct Cells to Proliferate and Differentiate During Enamel Regeneration. <i>Journal of Bone and Mineral Research</i> , 2008, 23, 1995-2006.	3.1	123
81	Regeneration of the cavernous nerve by Sonic hedgehog using aligned peptide amphiphile nanofibers. <i>Biomaterials</i> , 2011, 32, 1091-1101.	5.7	123
82	Bioactive DNA-Peptide Nanotubes Enhance the Differentiation of Neural Stem Cells Into Neurons. <i>Nano Letters</i> , 2015, 15, 603-609.	4.5	123
83	Presentation and Recognition of Biotin on Nanofibers Formed by Branched Peptide Amphiphiles. <i>Nano Letters</i> , 2005, 5, 249-252.	4.5	122
84	Super-resolution microscopy reveals structural diversity in molecular exchange among peptide amphiphile nanofibers. <i>Nature Communications</i> , 2016, 7, 11561.	5.8	121
85	A bioengineered peripheral nerve construct using aligned peptide amphiphile nanofibers. <i>Biomaterials</i> , 2014, 35, 8780-8790.	5.7	120
86	Tunable exciton binding energy in 2D hybrid layered perovskites through donor-acceptor interactions within the organic layer. <i>Nature Chemistry</i> , 2020, 12, 672-682.	6.6	120
87	The Powerful Functions of Peptide-Based Bioactive Matrices for Regenerative Medicine. <i>Annals of Biomedical Engineering</i> , 2015, 43, 501-514.	1.3	118
88	Peptide amphiphile nanostructure-heparin interactions and their relationship to bioactivity. <i>Biomaterials</i> , 2008, 29, 3298-3305.	5.7	114
89	Dynamic Display of Bioactivity through Host-Guest Chemistry. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12077-12080.	7.2	114
90	Tubular hydrogels of circumferentially aligned nanofibers to encapsulate and orient vascular cells. <i>Biomaterials</i> , 2012, 33, 5713-5722.	5.7	110

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91	Encapsulation of pyrene within self-assembled peptide amphiphile nanofibers. <i>Journal of Materials Chemistry</i> , 2005, 15, 4507.	6.7	108
92	Mirror Image Nanostructures. <i>Journal of the American Chemical Society</i> , 2005, 127, 7992-7993.	6.6	107
93	Supramolecular Packing Controls H ₂ Photocatalysis in Chromophore Amphiphile Hydrogels. <i>Journal of the American Chemical Society</i> , 2015, 137, 15241-15246.	6.6	107
94	Covalent-supramolecular hybrid polymers as muscle-inspired anisotropic actuators. <i>Nature Communications</i> , 2018, 9, 2395.	5.8	102
95	Supramolecular Energy Materials. <i>Advanced Materials</i> , 2020, 32, e1907247.	11.1	101
96	Self-assembling quinquethiophene-oligopeptide hydrogelators. <i>Soft Matter</i> , 2009, 5, 1990.	1.2	100
97	Supramolecular Materials from Triblock Rodcoil Molecules Containing Phenylene Vinylene. <i>Journal of the American Chemical Society</i> , 1999, 121, 9852-9866.	6.6	98
98	Probing the Interior of Peptide Amphiphile Supramolecular Aggregates. <i>Journal of the American Chemical Society</i> , 2005, 127, 7337-7345.	6.6	96
99	Cholesteryl-(L-Lactic Acid) _n , Building Blocks for Self-Assembling Biomaterials. <i>Macromolecules</i> , 2002, 35, 746-759.	2.2	95
100	Nanostructure-templated control of drug release from peptide amphiphile nanofiber gels. <i>Soft Matter</i> , 2012, 8, 3586.	1.2	95
101	Tuning supramolecular mechanics to guide neuron development. <i>Biomaterials</i> , 2013, 34, 4749-4757.	5.7	93
102	Semiconductor-Encapsulated Peptide Amphiphile Nanofibers. <i>Journal of the American Chemical Society</i> , 2004, 126, 12756-12757.	6.6	92
103	Magnetic Resonance Imaging of Self-Assembled Biomaterial Scaffolds. <i>Bioconjugate Chemistry</i> , 2005, 16, 1343-1348.	1.8	92
104	Supramolecular Materials with Electroactive Chemical Functions. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 517-521.	7.2	91
105	Extended-Charge-Transfer Excitons in Crystalline Supramolecular Photocatalytic Scaffolds. <i>Journal of the American Chemical Society</i> , 2016, 138, 11762-11774.	6.6	91
106	Coassembled Cytotoxic and Pegylated Peptide Amphiphiles Form Filamentous Nanostructures with Potent Antitumor Activity in Models of Breast Cancer. <i>ACS Nano</i> , 2012, 6, 7956-7965.	7.3	90
107	Precision Templating with DNA of a Virus-like Particle with Peptide Nanostructures. <i>Journal of the American Chemical Society</i> , 2013, 135, 6211-6219.	6.6	90
108	Instructing cells with programmable peptide DNA hybrids. <i>Nature Communications</i> , 2017, 8, 15982.	5.8	87

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109	A hybrid nanofiber matrix to control the survival and maturation of brain neurons. <i>Biomaterials</i> , 2012, 33, 545-555.	5.7	86
110	Shape-Dependent Targeting of Injured Blood Vessels by Peptide Amphiphile Supramolecular Nanostructures. <i>Small</i> , 2015, 11, 2750-2755.	5.2	81
111	Injectable biomimetic liquid crystalline scaffolds enhance muscle stem cell transplantation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7919-E7928.	3.3	81
112	Effects of Pore Morphology and Bone Ingrowth on Mechanical Properties of Microporous Titanium as an Orthopaedic Implant Material. <i>Materials Transactions</i> , 2004, 45, 1124-1131.	0.4	79
113	A Templating Approach for Monodisperse Self-Assembled Organic Nanostructures. <i>Journal of the American Chemical Society</i> , 2008, 130, 2742-2743.	6.6	79
114	Electrostatic Control of Bioactivity. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6292-6295.	7.2	79
115	Supramolecular Nanostructure Activates TrkB Receptor Signaling of Neuronal Cells by Mimicking Brain-Derived Neurotrophic Factor. <i>Nano Letters</i> , 2018, 18, 6237-6247.	4.5	79
116	Tuning Nanostructure Dimensions with Supramolecular Twisting. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4604-4610.	1.2	76
117	Co-assembly of Peptide Amphiphiles and Lipids into Supramolecular Nanostructures Driven by Anion-π Interactions. <i>Journal of the American Chemical Society</i> , 2017, 139, 7823-7830.	6.6	75
118	Quantum Dot-Sensitized Photoreduction of CO ₂ in Water with Turnover Number > 80,000. <i>Journal of the American Chemical Society</i> , 2021, 143, 18131-18138.	6.6	75
119	Semiconducting Nanowires from Hairpin-Shaped Self-Assembling Sexithiophenes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14778-14786.	1.2	74
120	A tenascin-C mimetic peptide amphiphile nanofiber gel promotes neurite outgrowth and cell migration of neurosphere-derived cells. <i>Acta Biomaterialia</i> , 2016, 37, 50-58.	4.1	74
121	Ferroelectric Polarization and Second Harmonic Generation in Supramolecular Cocrystals with Two Axes of Charge-Transfer. <i>Journal of the American Chemical Society</i> , 2017, 139, 9186-9191.	6.6	73
122	Semiconductor Quantum Dots Are Efficient and Recyclable Photocatalysts for Aqueous PET-RAFT Polymerization. <i>ACS Macro Letters</i> , 2020, 9, 7-13.	2.3	73
123	Tissue-Factor Targeted Peptide Amphiphile Nanofibers as an Injectable Therapy To Control Hemorrhage. <i>ACS Nano</i> , 2016, 10, 899-909.	7.3	72
124	Phase Diagram for Assembly of Biologically-Active Peptide Amphiphiles. <i>Journal of Physical Chemistry B</i> , 2008, 112, 441-447.	1.2	71
125	Improving Solar Cell Efficiency through Hydrogen Bonding: A Method for Tuning Active Layer Morphology. <i>Chemistry of Materials</i> , 2015, 27, 1201-1209.	3.2	71
126	Supramolecular Templating of Single and Double Nanohelices of Cadmium Sulfide. <i>Small</i> , 2005, 1, 694-697.	5.2	70

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127	Alginate-peptide amphiphile core-shell microparticles as a targeted drug delivery system. RSC Advances, 2015, 5, 8753-8756.	1.7	68
128	Programmable Assembly of Peptide Amphiphile via Noncovalent-to-Covalent Bond Conversion. Journal of the American Chemical Society, 2017, 139, 8995-9000.	6.6	68
129	Lock-Arm Supramolecular Ordering: A Molecular Construction Set for Cocrystallizing Organic Charge Transfer Complexes. Journal of the American Chemical Society, 2014, 136, 17224-17235.	6.6	66
130	Supramolecular Nanofibers of Peptide Amphiphiles for Medicine. Israel Journal of Chemistry, 2013, 53, 530-554.	1.0	63
131	Assembling a lasing hybrid material with supramolecular polymers and nanocrystals. Nature Materials, 2003, 2, 689-694.	13.3	61
132	Design of materials with supramolecular polymers. Progress in Polymer Science, 2020, 111, 101310.	11.8	61
133	Crystal-Phase Transitions and Photocatalysis in Supramolecular Scaffolds. Journal of the American Chemical Society, 2017, 139, 6120-6127.	6.6	60
134	Structure and chemical stability in perovskite-polymer hybrid photovoltaic materials. Journal of Materials Chemistry A, 2019, 7, 1687-1699.	5.2	60
135	Semiconducting Single Crystals Comprising Segregated Arrays of Complexes of C ₆₀ . Journal of the American Chemical Society, 2015, 137, 2392-2399.	6.6	59
136	Î²1-Integrin and Integrin Linked Kinase Regulate Astrocytic Differentiation of Neural Stem Cells. PLoS ONE, 2014, 9, e104335.	1.1	58
137	Self-Assembly and Orientation of Hydrogen-Bonded Oligothiophene Polymorphs at Liquid-Membrane-Liquid Interfaces. Journal of the American Chemical Society, 2011, 133, 16486-16494.	6.6	57
138	Self-Assembly of Cytotoxic Peptide Amphiphiles into Supramolecular Membranes for Cancer Therapy. Advanced Healthcare Materials, 2013, 2, 126-133.	3.9	57
139	Synergistic photoactuation of bilayered spiropyran hydrogels for predictable origami-like shape change. Matter, 2021, 4, 1377-1390.	5.0	57
140	Polar and Luminescent Supramolecular Films. Journal of the American Chemical Society, 1998, 120, 5601-5602.	6.6	56
141	Molecular Crystallization Controlled by pH Regulates Mesoscopic Membrane Morphology. ACS Nano, 2012, 6, 10901-10909.	7.3	56
142	Grooved Nanowires from Self-Assembling Hairpin Molecules for Solar Cells. ACS Nano, 2012, 6, 2032-2040.	7.3	55
143	3D Printing of Supramolecular Polymer Hydrogels with Hierarchical Structure. Small, 2021, 17, e2005743.	5.2	54
144	Physical properties of hierarchically ordered self-assembled planar and spherical membranes. Soft Matter, 2010, 6, 1816.	1.2	53

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145	Peptide Amphiphile Nanofiber Delivery of Sonic Hedgehog Protein to Reduce Smooth Muscle Apoptosis in the Penis After Cavernous Nerve Resection. <i>Journal of Sexual Medicine</i> , 2011, 8, 78-89.	0.3	53
146	Water Dynamics from the Surface to the Interior of a Supramolecular Nanostructure. <i>Journal of the American Chemical Society</i> , 2017, 139, 8915-8921.	6.6	53
147	Supramolecular Tessellations by a Rigid Naphthalene Diimide Triangle. <i>Journal of the American Chemical Society</i> , 2019, 141, 17783-17795.	6.6	52
148	Electric Field Controlled Self-Assembly of Hierarchically Ordered Membranes. <i>Advanced Functional Materials</i> , 2012, 22, 369-377.	7.8	51
149	Mimicking the Bioactivity of Fibroblast Growth Factor-2 Using Supramolecular Nanoribbons. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2166-2175.	2.6	51
150	Gd(III)-Labeled Peptide Nanofibers for Reporting on Biomaterial Localization <i>in Vivo</i> . <i>ACS Nano</i> , 2014, 8, 7325-7332.	7.3	50
151	Targeted Nitric Oxide Delivery by Supramolecular Nanofibers for the Prevention of Restenosis After Arterial Injury. <i>Antioxidants and Redox Signaling</i> , 2016, 24, 401-418.	2.5	50
152	Piezoelectricity in Polar Supramolecular Materials. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 1486-1489.	7.2	49
153	Biopolymers and supramolecular polymers as biomaterials for biomedical applications. <i>MRS Bulletin</i> , 2015, 40, 1089-1101.	1.7	49
154	Proapoptotic Peptide Brush Polymer Nanoparticles via Photoinitiated Polymerization-Induced Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19136-19142.	7.2	49
155	Organoapatites: Materials for artificial bone. II. Hardening reactions and properties. <i>Journal of Biomedical Materials Research Part B</i> , 1993, 27, 289-299.	3.0	48
156	¹⁹ F Magnetic Resonance Imaging Signals from Peptide Amphiphile Nanostructures Are Strongly Affected by Their Shape. <i>ACS Nano</i> , 2016, 10, 7376-7384.	7.3	48
157	Surface Engineered Polymersomes for Enhanced Modulation of Dendritic Cells During Cardiovascular Immunotherapy. <i>Advanced Functional Materials</i> , 2019, 29, 1904399.	7.8	47
158	A Donor-Acceptor [2]Catenane for Visible Light Photocatalysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 8000-8010.	6.6	47
159	Chromophore Dipole Directs Morphology and Photocatalytic Hydrogen Generation. <i>Journal of the American Chemical Society</i> , 2018, 140, 4965-4968.	6.6	46
160	Molecular Control of Internal Crystallization and Photocatalytic Function in Supramolecular Nanostructures. <i>CheM</i> , 2018, 4, 1596-1608.	5.8	46
161	Bioactive peptide amphiphile nanofiber gels enhance burn wound healing. <i>Burns</i> , 2019, 45, 1112-1121.	1.1	44
162	Supramolecular Exchange among Assemblies of Opposite Charge Leads to Hierarchical Structures. <i>Journal of the American Chemical Society</i> , 2020, 142, 12216-12225.	6.6	44

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