Ronit Bitton

List of Publications by Year
in descending order

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72	2,471	218677	206112
papers	citations	26 h-index	48 g-index

74	74	74	3604
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A self-assembly pathway to aligned monodomain gels. Nature Materials, 2010, 9, 594-601.	27.5	576
2	Co-assembly, spatiotemporal control and morphogenesis of a hybrid proteinâ€“peptide system. Nature Chemistry, 2015, 7, 897-904.	13.6	142
3	A bioactive self-assembled membrane to promote angiogenesis. Biomaterials, 2011, 32, 1574-1582.	11.4	133
4	Switching of self-assembly in a peptide nanostructure with a specific enzyme. Soft Matter, 2011, 7, 9665.	2.7	132
5	Nanostructure-templated control of drug release from peptide amphiphile nanofiber gels. Soft Matter, 2012, 8, 3586.	2.7	95
6	Self-assembly of biomolecular soft matter. Faraday Discussions, 2013, 166, 9.	3.2	84
7	Electrostatic Control of Bioactivity. Angewandte Chemie - International Edition, 2011, 50, 6292-6295.	13.8	79
8	The Role of Nanoscale Architecture in Supramolecular Templating of Biomimetic Hydroxyapatite Mineralization. Small, 2012, 8, 2195-2202.	10.0	68
9	Self-Assembled Nanostructures Regulate H₂S Release from Constitutionally Isomeric Peptides. Journal of the American Chemical Society, 2018, 140, 14945-14951.	13.7	62
10	Physical properties of hierarchically ordered self-assembled planar and spherical membranes. Soft Matter, 2010, 6, 1816.	2.7	53
11	Self-Assembly of Model DNA-Binding Peptide Amphiphiles. Langmuir, 2005, 21, 11888-11895.	3.5	51
12	Electric Field Controlled Selfâ€Assembly of Hierarchically Ordered Membranes. Advanced Functional Materials, 2012, 22, 369-377.	14.9	51
13	Novel Biomimetic Adhesives Based on Algae Glue. Macromolecular Bioscience, 2008, 8, 393-400.	4.1	48
14	Structure of Algal-Born Phenolic Polymeric Adhesives. Macromolecular Bioscience, 2006, 6, 737-746.	4.1	43
15	Cation Diffusion Facilitators Transport Initiation and Regulation Is Mediated by Cation Induced Conformational Changes of the Cytoplasmic Domain. PLoS ONE, 2014, 9, e92141.	2.5	41
16	The dual role of MamB in magnetosome membrane assembly and magnetite biomineralization. Molecular Microbiology, 2018, 107, 542-557.	2.5	35
17	Physico-chemical characteristics of the sulfated polysaccharides of the red microalgae Dixoniella grisea and Porphyridium aerugineum. International Journal of Biological Macromolecules, 2020, 145, 1171-1179.	7.5	35
18	Phloroglucinol-based biomimetic adhesives for medical applications. Acta Biomaterialia, 2009, 5, 1582-1587.	8.3	34

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19	The sulfated polysaccharide from a marine red microalga as a platform for the incorporation of zinc ions. Carbohydrate Polymers, 2016, 152, 658-664.	10.2	34
20	Crescent-Shaped Supramolecular Tetrapeptide Nanostructures. Journal of the American Chemical Society, 2020, 142, 20058-20065.	13.7	33
21	Electrostatic Control of Structure in Selfâ€Assembled Membranes. Small, 2014, 10, 500-505.	10.0	32
22	Enzymatic activation of cell-penetrating peptides in self-assembled nanostructures triggers fibre-to-micelle morphological transition. Chemical Communications, 2017, 53, 7037-7040.	4.1	31
23	The effect of covalently linked RGD peptide on the conformation of polysaccharides in aqueous solutions. Colloids and Surfaces B: Biointerfaces, 2016, 137, 214-220.	5.0	29
24	Morphological Characterization of Self-Assembled Peptide Nucleic Acid Amphiphiles. Journal of Physical Chemistry B, 2006, 110, 9027-9033.	2.6	28
25	Distribution of guest molecules in Pluronic micelles studied by double electron electron spin resonance and small angle X-ray scattering. Physical Chemistry Chemical Physics, 2009, 11, 148-160.	2.8	28
26	Light-Controlled Hierarchical Self-Assembly of Polyelectrolytes and Supramolecular Polymers. ACS Macro Letters, 2015, 4, 43-47.	4.8	28
27	Curcumin Protects Skin against UVB-Induced Cytotoxicity via the Keap1-Nrf2 Pathway: The Use of a Microemulsion Delivery System. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-17.	4.0	28
28	Antimicrobial hydrogels composed of chitosan and sulfated polysaccharides of red microalgae. Polymer, 2021, 215, 123353.	3.8	27
29	Cooperative DNA binding and assembly by a bZip peptide-amphiphile. Soft Matter, 2010, 6, 1035.	2.7	26
30	Dendritic Elastin-like Peptides: The Effect of Branching on Thermoresponsiveness. Biomacromolecules, 2016, 17, 262-270.	5.4	24
31	Molecular design for growth of supramolecular membranes with hierarchical structure. Soft Matter, 2016, 12, 1401-1410.	2.7	24
32	Tuning the mechanical properties of alginateâ€“peptide hydrogels. Soft Matter, 2018, 14, 4364-4373.	2.7	24
33	Hydrogels composed of hyaluronic acid and dendritic ELPs: hierarchical structure and physical properties. Soft Matter, 2019, 15, 917-925.	2.7	23
34	The Influence of Halideâ€Mediated Oxidation on Algaeâ€Born Adhesives. Macromolecular Bioscience, 2007, 7, 1280-1289.	4.1	21
35	RGD-presenting peptides in amphiphilic and anionic Î²-sheet hydrogels for improved interactions with cells. RSC Advances, 2018, 8, 10072-10080.	3.6	19
36	Genetic manipulation of iron biomineralization enhances MR relaxivity in a ferritin-M6A chimeric complex. Scientific Reports, 2016, 6, 26550.	3.3	17

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37	Disease-Homologous Mutation in the Cation Diffusion Facilitator Protein MamM Causes Single-Domain Structural Loss and Signifies Its Importance. Scientific Reports, 2016, 6, 31933.	3.3	17
38	Elastinâ€Like Peptides (ELPs) â€“ Building Blocks for Stimuliâ€Responsive Selfâ€Assembled Materials. Israel Journal of Chemistry, 2016, 56, 581-589.	2.3	16
39	Multi-scale characterization of thermoresponsive dendritic elastin-like peptides. Colloids and Surfaces B: Biointerfaces, 2017, 153, 141-151.	5.0	16
40	A designer peptide as a template for growing Au nanoclusters. Chemical Communications, 2014, 50, 10648-10650.	4.1	15
41	Using small-angle X-ray scattering (SAXS) to study the structure of self-assembling biomaterials. , 2018, , 291-304.		14
42	Nitroxide delivery system for Nrf2 activation and skin protection. European Journal of Pharmaceutics and Biopharmaceutics, 2015, 94, 123-134.	4.3	13
43	CPAP3 proteins in the mineralized cuticle of a decapod crustacean. Scientific Reports, 2018, 8, 2430.	3.3	13
44	A combined experimental and computational approach reveals how aromatic peptide amphiphiles self-assemble to form ion-conducting nanohelices. Materials Chemistry Frontiers, 2020, 4, 3022-3031.	5.9	13
45	Effect of Crosslinker Topology on Enzymatic Degradation of Hydrogels. Biomacromolecules, 2020, 21, 3279-3286.	5.4	12
46	Environmentally responsive hydrogels with dynamically tunable properties as extracellular matrix mimetic. Reviews in Chemical Engineering, 2013, 29, .	4.4	11
47	The importance of the helical structure of a MamC-derived magnetite-interacting peptide for its function in magnetite formation. Acta Crystallographica Section D: Structural Biology, 2018, 74, 10-20.	2.3	10
48	Effect of peptide self-assembly on the rheological properties of alginate-peptide conjugates solutions. Polymer, 2017, 108, 87-96.	3.8	9
49	BtcA, A Class IA Type III Chaperone, Interacts with the BteA N-Terminal Domain through a Globular/Non-Globular Mechanism. PLoS ONE, 2013, 8, e81557.	2.5	8
50	Oligomerization and Auto-methylation of the Human Lysine Methyltransferase SETD6. Journal of Molecular Biology, 2018, 430, 4359-4368.	4.2	6
51	Time matters for macroscopic membranes formed by alginate and cationic Î²-sheet peptides. Soft Matter, 2020, 16, 10132-10142.	2.7	6
52	Spontaneous Alignment of Selfâ€Assembled Cationic and Amphiphilic Î²â€Sheet Peptides. Advanced Materials Interfaces, 2020, 7, 2000332.	3.7	6
53	Effect of the C-terminal amino acid of the peptide on the structure and mechanical properties of alginateâ€“peptide hydrogels across length-scales. Soft Matter, 2020, 16, 6155-6162.	2.7	6
54	Characterization of the N-Terminal Domain of BteA: A Bordetella Type III Secreted Cytotoxic Effector. PLoS ONE, 2013, 8, e55650.	2.5	5

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55	Short and Soft: Multidomain Organization, Tunable Dynamics, and Jamming in Suspensions of Grafted Colloidal Cylinders with a Small Aspect Ratio. Langmuir, 2019, 35, 17103-17113.	3.5	5
56	Hyaluronan (HA)-inspired glycopolymers as molecular tools for studying HA functions. RSC Chemical Biology, 2021, 2, 568-576.	4.1	4
57	Nano-to-meso structure of cellulose nanocrystal phases in ethyleneâ€“glycolâ€“water mixtures. Soft Matter, 2020, 16, 8444-8452.	2.7	3
58	Control over size, shape, and photonics of self-assembled organic nanocrystals. Beilstein Journal of Organic Chemistry, 2021, 17, 42-51.	2.2	3
59	Effect of heparin and peptide conjugation on structure and functional properties of alginate in solutions and hydrogels. Materials Advances, 2021, 2, 440-447.	5.4	3
60	Crystal structure of the magnetobacterial protein MtxA C-terminal domain reveals a new sequence-structure relationship. Frontiers in Molecular Biosciences, 2015, 2, 25.	3.5	2
61	Avidity observed between a bivalent inhibitor and an enzyme monomer with a single active site. PLoS ONE, 2021, 16, e0249616.	2.5	2
62	Effects of Non-Ionic Micelles on the Acid-Base Equilibria of a Weak Polyelectrolyte. Polymers, 2022, 14, 1926.	4.5	2
63	Biomimetic Mineralization: The Role of Nanoscale Architecture in Supramolecular Templating of Biomimetic Hydroxyapatite Mineralization (Small 14/2012). Small, 2012, 8, 2194-2194.	10.0	1
64	Selfâ€Assembly: Electric Field Controlled Selfâ€Assembly of Hierarchically Ordered Membranes (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	14.9	1
65	Sensing Exposure Time to Oxygen by Applying a Percolation-Induced Principle. Sensors, 2020, 20, 4465.	3.8	1
66	Surfactant-Mediated Co-Existence of Single-Walled Carbon Nanotube Networks and Cellulose Nanocrystal Mesophases. Nanomaterials, 2021, 11, 3059.	4.1	1
67	Emergent hybrid mesophases in ternary mixtures of cellulose nanocrystals â€•Pluronic micellesâ€•water. Polymers for Advanced Technologies, 2022, 33, 3800-3809.	3.2	1
68	Macroscopic membranes selfâ€assembled by alginate andÂaÂcationic and amphiphilic peptide for cell culture. Polymers for Advanced Technologies, 2022, 33, 3832-3841.	3.2	1
69	Hierarchical Membranes Selfâ€Assembled at the Interface between Peptides and Polymer Aqueous Solutions. Israel Journal of Chemistry, 2022, 62, .	2.3	1
70	RÃ¼cktitelbild: Electrostatic Control of Bioactivity (Angew. Chem. 28/2011). Angewandte Chemie, 2011, 123, 6308-6308.	2.0	0
71	Fibrin Sealants. , 2009, , .		0
72	Algal Glue Mimetics. , 2015, , 167-180.		0