

Meital Reches

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

7,530
citations

31
h-index

86
g-index

105
ext. papers

8,285
ext. citations

6.9
avg, IF

6.27
L-index

#	Paper	IF	Citations
95	Casting metal nanowires within discrete self-assembled peptide nanotubes. <i>Science</i> , 2003 , 300, 625-7	33.3	2002
94	Rigid, Self-Assembled Hydrogel Composed of a Modified Aromatic Dipeptide. <i>Advanced Materials</i> , 2006 , 18, 1365-1370	24	636
93	Low-cost printing of poly(dimethylsiloxane) barriers to define microchannels in paper. <i>Analytical Chemistry</i> , 2008 , 80, 3387-92	7.8	481
92	Controlled patterning of aligned self-assembled peptide nanotubes. <i>Nature Nanotechnology</i> , 2006 , 1, 195-200	28.7	464
91	Formation of Closed-Cage Nanostructures by Self-Assembly of Aromatic Dipeptides. <i>Nano Letters</i> , 2004 , 4, 581-585	11.5	358
90	Thermal and chemical stability of diphenylalanine peptide nanotubes: implications for nanotechnological applications. <i>Langmuir</i> , 2006 , 22, 1313-20	4	312
89	Amyloid fibril formation by pentapeptide and tetrapeptide fragments of human calcitonin. <i>Journal of Biological Chemistry</i> , 2002 , 277, 35475-80	5.4	274
88	Novel electrochemical biosensing platform using self-assembled peptide nanotubes. <i>Nano Letters</i> , 2005 , 5, 183-6	11.5	250
87	Peptide nanotube-modified electrodes for enzyme-biosensor applications. <i>Analytical Chemistry</i> , 2005 , 77, 5155-9	7.8	212
86	Thread as a matrix for biomedical assays. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1722-8	9.5	200
85	Self-assembly of phenylalanine oligopeptides: insights from experiments and simulations. <i>Biophysical Journal</i> , 2009 , 96, 5020-9	2.9	187
84	Self-assembly of peptide nanotubes and amyloid-like structures by charged-termini-capped diphenylalanine peptide analogues. <i>Israel Journal of Chemistry</i> , 2005 , 45, 363-371	3.4	167
83	Designed aromatic homo-dipeptides: formation of ordered nanostructures and potential nanotechnological applications. <i>Physical Biology</i> , 2006 , 3, S10-9	3	160
82	Molecular Self-Assembly of Peptide Nanostructures: Mechanism of Association and Potential Uses. <i>Current Nanoscience</i> , 2006 , 2, 105-111	1.4	153
81	Bioinspired design of nanocages by self-assembling triskelion peptide elements. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 2002-4	16.4	128
80	Energy landscape of amyloidogenic peptide oligomerization by parallel-tempering molecular dynamics simulation: significant role of Asn ladder. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 8174-9	11.5	106
79	Bio-inspired antifouling approaches: the quest towards non-toxic and non-biocidal materials. <i>Current Opinion in Biotechnology</i> , 2016 , 39, 48-55	11.4	86

78	Formation of Well-Organized Self-Assembled Films from Peptide Nanotubes. <i>Advanced Materials</i> , 2007 , 19, 1485-1488	24	73
77	Tailor-Made Functional Peptide Self-Assembling Nanostructures. <i>Advanced Materials</i> , 2018 , 30, e17070834	34	71
76	Amyloidogenic hexapeptide fragment of medin: homology to functional islet amyloid polypeptide fragments. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2004 , 11, 81-9	2.7	68
75	Coassembly of aromatic dipeptides into biomolecular necklaces. <i>ACS Nano</i> , 2012 , 6, 9559-66	16.7	66
74	Self-assembly of a tripeptide into a functional coating that resists fouling. <i>Chemical Communications</i> , 2014 , 50, 11154-7	5.8	56
73	Synthesis, coating, and drug-release of hydroxyapatite nanoparticles loaded with antibiotics. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 7819-7830	7.3	56
72	Peptide-Based Approaches to Fight Biofouling. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800073	4.6	52
71	Nanoscale kinetic segregation of TCR and CD45 in engaged microvilli facilitates early T cell activation. <i>Nature Communications</i> , 2018 , 9, 732	17.4	50
70	Probing the interaction of individual amino acids with inorganic surfaces using atomic force spectroscopy. <i>Langmuir</i> , 2013 , 29, 10102-9	4	43
69	Integrating peptide nanotubes in micro-fabrication processes. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 2360-2365	2	42
68	Evaluating Efficacy of Antimicrobial and Antifouling Materials for Urinary Tract Medical Devices: Challenges and Recommendations. <i>Macromolecular Bioscience</i> , 2019 , 19, e1800384	5.5	40
67	Dipeptide Nanotubes Containing Unnatural Fluorine-Substituted (2,3)-Diarylamino Acid and L-Alanine as Candidates for Biomedical Applications. <i>Organic Letters</i> , 2015 , 17, 4468-71	6.2	38
66	Biological and chemical decoration of peptide nanostructures via biotin-avidin interactions. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2239-45	1.3	38
65	The preferred conformation of the tripeptide Ala-Phe-Ala in water is an inverse gamma-turn: implications for protein folding and drug design. <i>Biochemistry</i> , 2005 , 44, 14170-8	3.2	34
64	Revealing the role of catechol moieties in the interactions between peptides and inorganic surfaces. <i>Nanoscale</i> , 2016 , 8, 15309-16	7.7	31
63	Inversion of Supramolecular Chirality by Sonication-Induced Organogelation. <i>Scientific Reports</i> , 2015 , 5, 16365	4.9	29
62	Elucidating the mechanism of interaction between peptides and inorganic surfaces. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 15305-15	3.6	29
61	Co-assembly of aromatic dipeptides into spherical structures that are similar in morphology to red and white blood cells. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 2583-2591	7.3	28

60	Bioinspired Design of Nanocages by Self-Assembling Triskelion Peptide Elements. <i>Angewandte Chemie</i> , 2007 , 119, 2048-2050	3.6	27
59	Sticky tubes and magnetic hydrogels co-assembled by a short peptide and melanin-like nanoparticles. <i>Chemical Communications</i> , 2015 , 51, 5432-5	5.8	26
58	Self-assembly of an amphipathic tripeptide into cationic spherical particles for intracellular delivery. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 6773-6779	3.9	26
57	AFM-Based Spin-Exchange Microscopy Using Chiral Molecules. <i>Advanced Materials</i> , 2019 , 31, e1904206	2.4	25
56	Electrochemical Approach for Effective Antifouling and Antimicrobial Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26503-26509	9.5	25
55	Bionanocomposite Films from Resilin-CBD Bound to Cellulose Nanocrystals. <i>Industrial Biotechnology</i> , 2015 , 11, 44-58	1.3	23
54	Preventing Biofilm Formation by Dairy-Associated Bacteria Using Peptide-Coated Surfaces. <i>Frontiers in Microbiology</i> , 2019 , 10, 1405	5.7	19
53	Phase separation of 2D meso-scale Coulombic crystals from meso-scale polarizable "solvent". <i>Soft Matter</i> , 2009 , 5, 1188-1191	3.6	19
52	Folding of electrostatically charged beads-on-a-string as an experimental realization of a theoretical model in polymer science. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 17644-9	11.5	18
51	Tailoring the self-assembly of a tripeptide for the formation of antimicrobial surfaces. <i>Nanoscale</i> , 2019 , 11, 8752-8759	7.7	17
50	T Cell Activation through Isolated Tight Contacts. <i>Cell Reports</i> , 2019 , 29, 3506-3521.e6	10.6	17
49	Resisting Bacteria and Attracting Cells: Spontaneous Formation of a Bifunctional Peptide-Based Coating by On-Surface Assembly Approach. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 4051-4061	5.5	17
48	Cell wall associated protein TasA provides an initial binding component to extracellular polysaccharides in dual-species biofilm. <i>Scientific Reports</i> , 2018 , 8, 9350	4.9	16
47	Review insights into the interactions of amino acids and peptides with inorganic materials using single molecule force spectroscopy. <i>Biopolymers</i> , 2015 , 104, 480-94	2.2	14
46	Analog modeling of Worm-Like Chain molecules using macroscopic beads-on-a-string. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 9041-6	3.6	14
45	Phase separation of two-dimensional Coulombic crystals of mesoscale dipolar particles from mesoscale polarizable solvent. <i>Applied Physics Letters</i> , 2009 , 94, 044102	3.4	14
44	Rational Design of Amphiphilic Peptides and Its Effect on Antifouling Performance. <i>Biomacromolecules</i> , 2018 , 19, 3620-3627	6.9	13
43	Self-assembly of a metallo-peptide into a drug delivery system using a "switch on" displacement strategy. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 8228-8237	7.3	12

42	Triangular correlation (TrC) between cancer aggressiveness, cell uptake capability, and cell deformability. <i>Science Advances</i> , 2020 , 6, eaax2861	14.3	11
41	The effects of fluid composition and shear conditions on bacterial adhesion to an antifouling peptide-coated surface. <i>MRS Communications</i> , 2018 , 8, 938-946	2.7	10
40	Amphiphilic Peptide with Dual Functionality Resists Biofouling. <i>Langmuir</i> , 2020 , 36, 4201-4206	4	9
39	Durable, Stable, and Functional Nanopores Decorated by Self-Assembled Dipeptides. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 14563-14568	9.5	9
38	Optimization of liganded polyethylenimine polyethylene glycol vector for nucleic acid delivery. <i>Bioconjugate Chemistry</i> , 2014 , 25, 1644-54	6.3	9
37	Fundamentals and Applications of FluidFM Technology in Single-Cell Studies. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001115	4.6	9
36	The role of hydrophobic, aromatic and electrostatic interactions between amino acid residues and a titanium dioxide surface. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 29811-29816	3.6	9
35	Single-stranded DNA detection by solvent-induced assemblies of a metallo-peptide-based complex. <i>Nanoscale</i> , 2016 , 8, 9527-36	7.7	8
34	Evidence for new enantiospecific interaction force in chiral biomolecules. <i>Chem</i> , 2021 ,	16.2	7
33	ForSDAT: an automated platform for analyzing force spectroscopy measurements. <i>Analytical Methods</i> , 2019 , 11, 4709-4718	3.2	6
32	Antifouling and antimicrobial coatings based on sol-gel films. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 95, 609-619	2.3	6
31	Combining chemistry and topography to fight biofilm formation: Fabrication of micropatterned surfaces with a peptide-based coating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 196, 111365	6	6
30	Nucleobase morpholino amino acids as molecular chimeras for the preparation of photoluminescent materials from ribonucleosides. <i>Scientific Reports</i> , 2020 , 10, 19331	4.9	6
29	Electrically Responsive, Nanopatterned Surfaces for Triggered Delivery of Biologically Active Molecules into Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1201-1208	9.5	6
28	A peptide coating preventing the attachment of Porphyromonas gingivalis on the surfaces of dental implants. <i>Journal of Periodontal Research</i> , 2020 , 55, 503-510	4.3	5
27	Nano-patterned polyelectrolyte multilayers assembled using block copolymer templates: The combined effect of ionic strength and nano-confinement. <i>Polymer</i> , 2017 , 126, 56-64	3.9	5
26	Electrochemical Cycling Induced Surface Segregation of AuPt Nanoparticles in HClO ₄ and H ₂ SO ₄ . <i>Journal of the Electrochemical Society</i> , 2016 , 163, F752-F760	3.9	5
25	Detection of Au Nanoparticles Using Peptide-Modified Si ₃ N ₄ Nanopores. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1000-1008	5.6	5

24	Quickly Manufactured, Drug Eluting, Calcium Phosphate Composite Coating. <i>ChemistrySelect</i> , 2017 , 2, 753-758	1.8	4
23	Miscibility, interactions and antimicrobial activity of poly(ϵ -caprolactone)/chloramphenicol blends. <i>European Polymer Journal</i> , 2018 , 102, 30-37	5.2	4
22	The effect of end-group substitution on surface self-assembly of peptides. <i>Journal of Peptide Science</i> , 2019 , 25, e3212	2.1	4
21	Electrochemical Triggered Dissolution of Hydroxyapatite/Doxorubicin Nanocarriers.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 1956-1966	4.1	3
20	Self-assembly of azide containing dipeptides. <i>Journal of Peptide Science</i> , 2014 , 20, 479-86	2.1	3
19	Formation of ordered biomolecular structures by the self-assembly of short peptides. <i>Journal of Visualized Experiments</i> , 2013 , e50946	1.6	3
18	Understanding the Adhesion Mechanism of Hydroxyapatite-Binding Peptide.. <i>Langmuir</i> , 2022 ,	4	3
17	Antiviral Activity of Peptide-Based Assemblies. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48469-48477	3.5	3
16	Fast and synchronized fluctuations of cortical actin negatively correlate with nucleoli liquid-liquid phase separation in T cells. <i>European Biophysics Journal</i> , 2020 , 49, 409-423	1.9	3
15	Nanoscale Topography-Rigidity Correlation at the Surface of T Cells. <i>ACS Nano</i> , 2019 , 13, 346-356	16.7	3
14	Covalent Inhibition of HIV-1 Integrase by N-Succinimidyl Peptides. <i>ChemMedChem</i> , 2016 , 11, 1987-94	3.7	2
13	Thread based devices for low-cost diagnostics. <i>Methods in Molecular Biology</i> , 2013 , 949, 197-205	1.4	1
12	Antiviral Polymers Based on -Halamine Polyurea. <i>Biomacromolecules</i> , 2021 , 22, 4357-4364	6.9	1
11	Peptide fibrils as monomer storage of the covalent HIV-1 integrase inhibitor. <i>Journal of Peptide Science</i> , 2017 , 23, 117-121	2.1	0
10	Biomaterials: Fundamentals and Applications of FluidFM Technology in Single-Cell Studies (Adv. Mater. Interfaces 23/2020). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2070129	4.6	0
9	A Novel Copper-Binding Peptide That Self-Assembles Into a Transparent Antibacterial and Antiviral Coating. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 736679	5.8	0
8	Structural preferences of an anti-fouling peptide: From single chain to small molecular assemblies. <i>Biophysical Chemistry</i> , 2021 , 272, 106555	3.5	0
7	Multiplex optical detection and quantification of DNA fragments by metallo-peptide assemblies. <i>Scientific Reports</i> , 2019 , 9, 8789	4.9	

6	Inside Cover: Bioinspired Design of Nanocages by Self-Assembling Triskelion Peptide Elements (Angew. Chem. Int. Ed. 12/2007). <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1928-1928	16.4
5	Innentitelbild: Bioinspired Design of Nanocages by Self-Assembling Triskelion Peptide Elements (Angew. Chem. 12/2007). <i>Angewandte Chemie</i> , 2007 , 119, 1972-1972	3.6
4	Non-covalently embedded oxytocin in alkanethiol monolayer as Zn selective biosensor. <i>Scientific Reports</i> , 2021 , 11, 7051	4.9
3	An Individual Amino Acid as a Possible Prebiotic Catalyst. <i>ChemSystemsChem</i> , 2021 , 3, e2100018	3.1
2	An Individual Amino Acid as a Possible Prebiotic Catalyst. <i>ChemSystemsChem</i> , 2021 , 3, e2100005	3.1
1	Interactions of Microorganisms with Lipid Langmuir Layers. <i>Langmuir</i> , 2021 , 37, 10340-10347	4