

Jeffrey D Hartgerink

List of Publications by Year in Descending Order

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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.

103
papers

13,239
citations

53
h-index

112
g-index

112
ext. papers

14,324
ext. citations

11.1
avg, IF

6.62
L-index

#	Paper	IF	Citations
103	Selective covalent capture of collagen triple helices with a minimal protecting group strategy.. <i>Chemical Science</i> , 2022 , 13, 2789-2796	9.4	
102	Evaluating the physicochemical effects of conjugating peptides into thermogelling hydrogels for regenerative biomaterials applications.. <i>International Journal of Energy Production and Management</i> , 2021 , 8, rbab073	5.3	2
101	Charge-Free, Stabilizing Amide-Interactions Can Be Used to Control Collagen Triple-Helix Self-Assembly. <i>Biomacromolecules</i> , 2021 , 22, 2137-2147	6.9	1
100	Local Anti-PD-1 Delivery Prevents Progression of Premalignant Lesions in a 4NQO-Oral Carcinogenesis Mouse Model. <i>Cancer Prevention Research</i> , 2021 , 14, 767-778	3.2	5
99	Self-assembling multidomain peptide hydrogels accelerate peripheral nerve regeneration after crush injury. <i>Biomaterials</i> , 2021 , 265, 120401	15.6	19
98	Influence of injection technique, drug formulation and tumor microenvironment on intratumoral immunotherapy delivery and efficacy 2021 , 9,		13
97	Predicting the stability of homotrimeric and heterotrimeric collagen helices. <i>Nature Chemistry</i> , 2021 , 13, 260-269	17.6	11
96	Biomaterial-Facilitated Immunotherapy for Established Oral Cancers. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 415-421	5.5	6
95	Chain alignment of collagen I deciphered using computationally designed heterotrimers. <i>Nature Chemical Biology</i> , 2020 , 16, 423-429	11.7	12
94	Chemical functionality of multidomain peptide hydrogels governs early host immune response. <i>Biomaterials</i> , 2020 , 231, 119667	15.6	44
93	Covalent Capture of Collagen Triple Helices Using Lysine-Aspartate and Lysine-Glutamate Pairs. <i>Biomacromolecules</i> , 2020 , 21, 3772-3781	6.9	6
92	Covalent Capture of a Heterotrimeric Collagen Helix. <i>Organic Letters</i> , 2019 , 21, 5480-5484	6.2	9
91	Advances in immunotherapy delivery from implantable and injectable biomaterials. <i>Acta Biomaterialia</i> , 2019 , 88, 15-31	10.8	79
90	Drug-Mimicking Nanofibrous Peptide Hydrogel for Inhibition of Inducible Nitric Oxide Synthase. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 6755-6765	5.5	10
89	Self-Assembling Multidomain Peptides: Design and Characterization of Neutral Peptide-Based Materials with pH and Ionic Strength Independent Self-Assembly. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 977-985	5.5	23
88	Nanofibrous peptide hydrogel elicits angiogenesis and neurogenesis without drugs, proteins, or cells. <i>Biomaterials</i> , 2018 , 161, 154-163	15.6	66
87	STINGel: Controlled release of a cyclic dinucleotide for enhanced cancer immunotherapy. <i>Biomaterials</i> , 2018 , 163, 67-75	15.6	100

86	Multidomain Peptide Hydrogel Accelerates Healing of Full-Thickness Wounds in Diabetic Mice. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1386-1396	5.5	66
85	Glycine Substitutions in Collagen Heterotrimers Alter Triple Helical Assembly. <i>Biomacromolecules</i> , 2017 , 18, 617-624	6.9	16
84	Control of Collagen Triple Helix Stability by Phosphorylation. <i>Biomacromolecules</i> , 2017 , 18, 1157-1161	6.9	11
83	Self-Assembling Multidomain Peptide Nanofibers for Delivery of Bioactive Molecules and Tissue Regeneration. <i>Accounts of Chemical Research</i> , 2017 , 50, 714-722	24.3	158
82	Covalent Capture of Aligned Self-Assembling Nanofibers. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8044-8050	16.4	36
81	"Missing Tooth" Multidomain Peptide Nanofibers for Delivery of Small Molecule Drugs. <i>Biomacromolecules</i> , 2016 , 17, 2087-95	6.9	42
80	Synthetic, Register-Specific, AAB Heterotrimers to Investigate Single Point Glycine Mutations in Osteogenesis Imperfecta. <i>Biomacromolecules</i> , 2016 , 17, 914-21	6.9	12
79	Treatment of hind limb ischemia using angiogenic peptide nanofibers. <i>Biomaterials</i> , 2016 , 98, 113-9	15.6	73
78	Highly angiogenic peptide nanofibers. <i>ACS Nano</i> , 2015 , 9, 860-8	16.7	109
77	Self-assembling multidomain peptides tailor biological responses through biphasic release. <i>Biomaterials</i> , 2015 , 52, 71-8	15.6	89
76	Drug-triggered and cross-linked self-assembling nanofibrous hydrogels. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4823-30	16.4	97
75	Controlled Angiogenesis in Peptide Nanofiber Composite Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 845-854	5.5	28
74	Nanofibrous Snake Venom Hemostat. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 1300-1305	5.5	38
73	Ex Vivo Modeling of Multidomain Peptide Hydrogels with Intact Dental Pulp. <i>Journal of Dental Research</i> , 2015 , 94, 1773-81	8.1	14
72	Comparative NMR analysis of collagen triple helix organization from N- to C-termini. <i>Biomacromolecules</i> , 2015 , 16, 145-55	6.9	9
71	A nanostructured synthetic collagen mimic for hemostasis. <i>Biomacromolecules</i> , 2014 , 15, 1484-90	6.9	98
70	Sequence effects of self-assembling multidomain peptide hydrogels on encapsulated SHED cells. <i>Biomacromolecules</i> , 2014 , 15, 2004-11	6.9	44
69	Self-assembly of fiber-forming collagen mimetic peptides controlled by triple-helical nucleation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14417-24	16.4	77

68	Rational design of a non-canonical "sticky-ended" collagen triple helix. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7535-8	16.4	27
67	Scaffolds to control inflammation and facilitate dental pulp regeneration. <i>Journal of Endodontics</i> , 2014 , 40, S6-12	4.7	46
66	Two-step self-assembly of liposome-multidomain peptide nanofiber hydrogel for time-controlled release. <i>Biomacromolecules</i> , 2014 , 15, 3587-95	6.9	61
65	Hydroxyproline-free single composition ABC collagen heterotrimer. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6014-7	16.4	37
64	Pairwise interactions in collagen and the design of heterotrimeric helices. <i>Current Opinion in Chemical Biology</i> , 2013 , 17, 960-7	9.7	25
63	Self-assembling multidomain peptide fibers with aromatic cores. <i>Biomacromolecules</i> , 2013 , 14, 1370-8	6.9	69
62	Simultaneous control of composition and register of an AAB-type collagen heterotrimer. <i>Biomacromolecules</i> , 2013 , 14, 179-85	6.9	17
61	Rational design of single-composition ABC collagen heterotrimers. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1430-3	16.4	30
60	Computational design of self-assembling register-specific collagen heterotrimers. <i>Nature Communications</i> , 2012 , 3, 1087	17.4	40
59	A customized self-assembling peptide hydrogel for dental pulp tissue engineering. <i>Tissue Engineering - Part A</i> , 2012 , 18, 176-84	3.9	201
58	Sequence position and side chain length dependence of charge pair interactions in collagen triple helices. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 1445-52	4.8	4
57	Structural insights into charge pair interactions in triple helical collagen-like proteins. <i>Journal of Biological Chemistry</i> , 2012 , 287, 8039-47	5.4	61
56	Multi-hierarchical self-assembly of a collagen mimetic peptide from triple helix to nanofibre and hydrogel. <i>Nature Chemistry</i> , 2011 , 3, 821-8	17.6	468
55	Injectable multidomain peptide nanofiber hydrogel as a delivery agent for stem cell secretome. <i>Biomacromolecules</i> , 2011 , 12, 1651-7	6.9	154
54	Lyotropic liquid crystals formed from ACHC-rich β peptides. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13604-13	16.4	51
53	Dentin conditioning codetermines cell fate in regenerative endodontics. <i>Journal of Endodontics</i> , 2011 , 37, 1536-41	4.7	202
52	Scaffolds for dental pulp tissue engineering. <i>Advances in Dental Research</i> , 2011 , 23, 333-9	2.3	136
51	Enzymatic cross-linking of a nanofibrous peptide hydrogel. <i>Biomacromolecules</i> , 2011 , 12, 82-7	6.9	83

50	Positive and negative design leads to compositional control in AAB collagen heterotrimers. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5432-43	16.4	40
49	Peptide nanofibers preconditioned with stem cell secretome are renoprotective. <i>Journal of the American Society of Nephrology: JASN</i> , 2011 , 22, 704-17	12.7	35
48	Selective assembly of a high stability AAB collagen heterotrimer. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3242-3	16.4	42
47	Self-assembling multidomain peptide hydrogels: designed susceptibility to enzymatic cleavage allows enhanced cell migration and spreading. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3217-23	16.4	273
46	Synthetic collagen mimics: self-assembly of homotrimers, heterotrimers and higher order structures. <i>Chemical Society Reviews</i> , 2010 , 39, 3510-27	58.5	137
45	Biomaterials and their potential applications for dental tissue engineering. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8730		37
44	Solution structure of an ABC collagen heterotrimer reveals a single-register helix stabilized by electrostatic interactions. <i>Journal of Biological Chemistry</i> , 2009 , 284, 26851-9	5.4	69
43	Inhibition of cancer cell proliferation by designed peptide amphiphiles. <i>Acta Biomaterialia</i> , 2009 , 5, 842-53	53.8	40
42	Multidomain peptides as single-walled carbon nanotube surfactants in cell culture. <i>Biomacromolecules</i> , 2009 , 10, 2201-6	6.9	30
41	Self-assembly of multidomain peptides: sequence variation allows control over cross-linking and viscoelasticity. <i>Biomacromolecules</i> , 2009 , 10, 2694-8	6.9	198
40	Gold nanoparticles can induce the formation of protein-based aggregates at physiological pH. <i>Nano Letters</i> , 2009 , 9, 666-71	11.5	317
39	Self-assembly of alpha-helical coiled coil nanofibers. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13691-5	16.4	146
38	Self-assembling peptide amphiphile nanofibers as a scaffold for dental stem cells. <i>Tissue Engineering - Part A</i> , 2008 , 14, 2051-8	3.9	147
37	Self-assembling peptide coatings designed for highly luminescent suspension of single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17134-40	16.4	66
36	Synthetic collagen heterotrimers: structural mimics of wild-type and mutant collagen type I. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7509-15	16.4	74
35	Aromatic amino acids providing characteristic motifs in the Raman and SERS spectroscopy of peptides. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 9158-64	3.4	108
34	Tuning the mechanical and bioresponsive properties of peptide-amphiphile nanofiber networks. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 665-76	3.5	28
33	Nanofibers and lyotropic liquid crystals from a class of self-assembling beta-peptides. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1241-4	16.4	89

32	Peptides that non-covalently functionalize single-walled carbon nanotubes to give controlled solubility characteristics. <i>Journal of Materials Chemistry</i> , 2007 , 17, 1909		69
31	Self-assembled heterotrimeric collagen triple helices directed through electrostatic interactions. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2683-90	16.4	134
30	Surprisingly high stability of collagen ABC heterotrimer: evaluation of side chain charge pairs. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15034-41	16.4	80
29	Self-assembly of multidomain peptides: balancing molecular frustration controls conformation and nanostructure. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12468-72	16.4	281
28	Synthesis and in vitro hydroxyapatite binding of peptides conjugated to calcium-binding moieties. <i>Biomacromolecules</i> , 2007 , 8, 2237-43	6.9	76
27	Fullerene-derivatized amino acids: synthesis, characterization, antioxidant properties, and solid-phase peptide synthesis. <i>Chemistry - A European Journal</i> , 2007 , 13, 2530-45	4.8	74
26	Peptide amphiphile nanofibers template and catalyze silica nanotube formation. <i>Langmuir</i> , 2007 , 23, 5033-8	4	148
25	Role of hydrophobic clusters in the stability of alpha-helical coiled coils and their conversion to amyloid-like beta-sheets. <i>Biomacromolecules</i> , 2007 , 8, 617-23	6.9	48
24	Recent Advances in Supramolecular Polymers 2007 , 715-722		1
23	Biomimetic self-assembled nanofibers. <i>Soft Matter</i> , 2006 , 2, 177-181	3.6	68
22	Modulation of peptide-amphiphile nanofibers via phospholipid inclusions. <i>Biomacromolecules</i> , 2006 , 7, 24-6	6.9	32
21	Short homodimeric and heterodimeric coiled coils. <i>Biomacromolecules</i> , 2006 , 7, 691-5	6.9	51
20	Chain-length-dependent vibrational resonances in alkanethiol self-assembled monolayers observed on plasmonic nanoparticle substrates. <i>Nano Letters</i> , 2006 , 6, 2617-21	11.5	56
19	Peptide-mediated formation of single-wall carbon nanotube composites. <i>Nano Letters</i> , 2006 , 6, 40-4	11.5	165
18	Self-assembly of peptide-amphiphile nanofibers: the roles of hydrogen bonding and amphiphilic packing. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7291-8	16.4	550
17	Synthesis of Collagen-like Peptide Polymers by Native Chemical Ligation. <i>Macromolecules</i> , 2005 , 38, 7555-7561	11.5	108
16	Self-assembling peptide amphiphile nanofiber matrices for cell entrapment. <i>Acta Biomaterialia</i> , 2005 , 1, 387-97	10.8	260
15	Enzyme-Mediated Degradation of Peptide-Amphiphile Nanofiber Networks. <i>Advanced Materials</i> , 2005 , 17, 2612-2617	24	163

14	Nanostructured Collagen Mimics in Tissue Engineering 2005 , 95-117		3
13	Covalent capture: a natural complement to self-assembly. <i>Current Opinion in Chemical Biology</i> , 2004 , 8, 604-9	9.7	51
12	Self-assembly combining two bioactive peptide-amphiphile molecules into nanofibers by electrostatic attraction. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7146-7	16.4	399
11	Self-Assembling Biomaterials: l-Lysine-Dendron-Substituted Cholesteryl-(l-lactic acid) _n . <i>Macromolecules</i> , 2002 , 35, 6101-6111	5.5	86
10	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, 5133-8	11.5	1056
9	Self-assembly and mineralization of peptide-amphiphile nanofibers. <i>Science</i> , 2001 , 294, 1684-8	33.3	3160
8	Supramolecular one-dimensional objects. <i>Current Opinion in Solid State and Materials Science</i> , 2001 , 5, 355-361	12	89
7	Peptide Nanotubes and Beyond. <i>Chemistry - A European Journal</i> , 1998 , 4, 1367-1372	4.8	225
6	Oriented Self-Assembly of Cyclic Peptide Nanotubes in Lipid Membranes. <i>Journal of the American Chemical Society</i> , 1998 , 120, 4417-4424	16.4	190
5	Peptide Nanotubes and Beyond 1998 , 4, 1367		1
4	Self-Assembling Peptide Nanotubes. <i>Journal of the American Chemical Society</i> , 1996 , 118, 43-50	16.4	536
3	Electrostatic Catalysis of the Claisen Rearrangement: Probing the Role of Glu78 in <i>Bacillus subtilis</i> Chorismate Mutase by Genetic Selection. <i>Journal of the American Chemical Society</i> , 1996 , 118, 3069-3070	16.4	42
2	Self Assembling Organic Nanotubes 1996 , 181-188		1
1	Supramolecular Polymerization of Peptides and Peptide Derivatives: Nanofibrous Materials 359-393		