

Jean Chmielewski

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.

124
papers

4,688
citations

38
h-index

64
g-index

132
ext. papers

5,042
ext. citations

7.4
avg, IF

5.68
L-index

#	Paper	IF	Citations
124	Antibiotic-cell-penetrating peptide conjugates targeting challenging drug-resistant and intracellular pathogenic bacteria. <i>Chemical Biology and Drug Design</i> , 2021 , 98, 762-778	2.9	1
123	A comparison of the collagen triple helix and coiled-coil peptide building blocks on metal ion-mediated supramolecular assembly. <i>Peptide Science</i> , 2021 , 113, e24190	3	2
122	Reversible crosslinked assembly of a trimeric coiled-coil peptide into a three-dimensional matrix for cell encapsulation and release. <i>Journal of Peptide Science</i> , 2021 , e3302	2.1	0
121	The roles of the human ATP-binding cassette transporters P-glycoprotein and ABCG2 in multidrug resistance in cancer and at endogenous sites: future opportunities for structure-based drug design of inhibitors.. <i>Cancer Drug Resistance (Alhambra, Calif)</i> , 2021 , 4, 784-804	4.5	3
120	Targeting Intracellular Pathogenic Bacteria Through N-Terminal Modification of Cationic Amphiphilic Polyproline Helices. <i>Journal of Organic Chemistry</i> , 2020 , 85, 7468-7475	4.2	3
119	Fluorescent Probes for Monitoring Serine Ubiquitination. <i>Biochemistry</i> , 2020 , 59, 1309-1313	3.2	4
118	Conservation of Cdc14 phosphatase specificity in plant fungal pathogens: implications for antifungal development. <i>Scientific Reports</i> , 2020 , 10, 12073	4.9	0
117	Structural studies and cyclization of the neuroprotective octapeptide NAPVSIPQ to improve cell permeability. <i>Peptide Science</i> , 2020 , 112, e24179	3	0
116	Potential Tools for Eradicating HIV Reservoirs in the Brain: Development of Trojan Horse Prodrugs for the Inhibition of P-Glycoprotein with Anti-HIV-1 Activity. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 2131-2138	8.3	10
115	Self-Assembling Coiled-Coil Peptide Nanotubes with Biomolecular Cargo Encapsulation. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 5082-5087	5.5	6
114	Design and Evaluation of a One-Semester General Chemistry Course for Undergraduate Life Science Majors. <i>Journal of Chemical Education</i> , 2018 , 95, 734-740	2.4	10
113	A Library Approach to Cationic Amphiphilic Polyproline Helices that Target Intracellular Pathogenic Bacteria. <i>ACS Infectious Diseases</i> , 2018 , 4, 1300-1305	5.5	7
112	Reversible Hierarchical Assembly of Trimeric Coiled-Coil Peptides into Banded Nano- and Microstructures. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13028-13033	16.4	17
111	Targeting biofilms and persisters of ESKAPE pathogens with P14KanS, a kanamycin peptide conjugate. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 848-859	4	29
110	Advances in the design and higher-order assembly of collagen mimetic peptides for regenerative medicine. <i>Current Opinion in Biotechnology</i> , 2017 , 46, 34-41	11.4	42
109	Dual Modulation of Human P-Glycoprotein and ABCG2 with Prodrug Dimers of the Atypical Antipsychotic Agent Paliperidone in a Model of the Blood-Brain Barrier. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1107-1119	5.6	9
108	A short D-enantiomeric antimicrobial peptide with potent immunomodulatory and antibiofilm activity against multidrug-resistant <i>Pseudomonas aeruginosa</i> and <i>Acinetobacter baumannii</i> . <i>Scientific Reports</i> , 2017 , 7, 6953	4.9	49

107	Dual inhibitors of the human blood-brain barrier drug efflux transporters P-glycoprotein and ABCG2 based on the antiviral azidothymidine. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 5128-5132	3.4	7
106	The Chemistry Diversity Initiative at Purdue University. <i>ACS Symposium Series</i> , 2017 , 59-66	0.4	
105	Metal-Promoted Assembly of Two Collagen Mimetic Peptides into a Biofunctional "Spiraled Horn" Scaffold. <i>Materials</i> , 2016 , 9,	3.5	5
104	Dual Targeting of Intracellular Pathogenic Bacteria with a Cleavable Conjugate of Kanamycin and an Antibacterial Cell-Penetrating Peptide. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10945-9	16.4	80
103	Accessing Three-Dimensional Crystals with Incorporated Guests through Metal-Directed Coiled-Coil Peptide Assembly. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11051-7	16.4	32
102	Targeting intracellular bacteria with an extended cationic amphiphilic polyproline helix. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 5930-6	3.9	18
101	Thermally Controlled Collagen Peptide Cages for Biopolymer Delivery. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 1002-1008	5.5	11
100	Controlling the morphology of metal-triggered collagen peptide assemblies through ligand alteration. <i>Biopolymers</i> , 2015 , 104, 379-83	2.2	1
99	Antibacterial activity and therapeutic efficacy of Fl-P(R)P(R)P(L)-5, a cationic amphiphilic polyproline helix, in a mouse model of staphylococcal skin infection. <i>Drug Design, Development and Therapy</i> , 2015 , 9, 5749-54	4.4	9
98	Tuning the thermosensitive properties of hybrid collagen peptide-polymer hydrogels. <i>Chemical Communications</i> , 2014 , 50, 8174-6	5.8	39
97	Reversible dimers of the atypical antipsychotic quetiapine inhibit p-glycoprotein-mediated efflux in vitro with increased binding affinity and in situ at the blood-brain barrier. <i>ACS Chemical Neuroscience</i> , 2014 , 5, 305-17	5.7	21
96	Quinine dimers are potent inhibitors of the Plasmodium falciparum chloroquine resistance transporter and are active against quinoline-resistant P. falciparum. <i>ACS Chemical Biology</i> , 2014 , 9, 722-30	4.9	28
95	Dimeric unnatural polyproline-rich peptides with enhanced antibacterial activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 556-9	2.9	11
94	Mimicking the extracellular matrix with functionalized, metal-assembled collagen peptide scaffolds. <i>Biomaterials</i> , 2014 , 35, 7363-73	15.6	57
93	Targeting intracellular pathogenic bacteria with unnatural proline-rich peptides: coupling antibacterial activity with macrophage penetration. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9664-7	16.4	51
92	Homodimers of the Antiviral Abacavir as Modulators of P-glycoprotein Transport in Cell Culture: Probing Tether Length. <i>MedChemComm</i> , 2013 , 4,	5	7
91	Inhibition of HIV-1 integrase dimerization and activity with crosslinked interfacial peptides. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 4041-4	3.4	2
90	Hierarchical assembly of collagen peptide triple helices into curved disks and metal ion-promoted hollow spheres. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3418-22	16.4	58

89	Competency-based reforms of the undergraduate biology curriculum: integrating the physical and biological sciences. <i>CBE Life Sciences Education</i> , 2013 , 12, 162-9	3.4	28
88	Targeting Intracellular Pathogenic Bacteria with Unnatural Proline-Rich Peptides: Coupling Antibacterial Activity with Macrophage Penetration. <i>Angewandte Chemie</i> , 2013 , 125, 9846-9849	3.6	8
87	Mitochondrial targeting of a cationic amphiphilic polyproline helix. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 561-3	2.9	23
86	Controlling the morphology of metal-promoted higher ordered assemblies of collagen peptides with varied core lengths. <i>Langmuir</i> , 2012 , 28, 1993-7	4	35
85	Toward eradicating HIV reservoirs in the brain: inhibiting P-glycoprotein at the blood-brain barrier with prodrug abacavir dimers. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2976-80	16.4	49
84	Click chemistry-derived bivalent quinine inhibitors of P-glycoprotein-mediated cellular efflux. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 4410-2	2.9	15
83	Small molecule inhibitors of anthrax toxin-induced cytotoxicity targeted against protective antigen. <i>Chemical Biology and Drug Design</i> , 2012 , 79, 260-9	2.9	10
82	Tools for eradicating HIV in the brain: prodrug dimeric inhibitors of P-gp. <i>Therapeutic Delivery</i> , 2012 , 3, 689-92	3.8	6
81	Metal-mediated tandem coassembly of collagen peptides into banded microstructures. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14469-71	16.4	52
80	Dimeric cationic amphiphilic polyproline helices for mitochondrial targeting. <i>Pharmaceutical Research</i> , 2011 , 28, 2797-807	4.5	9
79	A collagen peptide-based physical hydrogel for cell encapsulation. <i>Macromolecular Bioscience</i> , 2011 , 11, 1426-31	5.5	51
78	Selective decoration and release of His-tagged proteins from metal-assembled collagen peptide microflorettes. <i>Biomacromolecules</i> , 2011 , 12, 2429-33	6.9	21
77	Folding studies of pH-dependent collagen peptides. <i>Chemical Biology and Drug Design</i> , 2010 , 75, 161-8	2.9	6
76	Higher-order assembly of collagen peptides into nano- and microscale materials. <i>Biochemistry</i> , 2010 , 49, 4411-9	3.2	57
75	Gold nanoparticle self-assembly promoted by a non-covalent, charge-complemented coiled-coil peptide. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5608		9
74	Metal-triggered collagen peptide disk formation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7866-7	16.4	71
73	Cationic amphiphilic polyproline helix P11LRR targets intracellular mitochondria. <i>Journal of Controlled Release</i> , 2010 , 142, 259-66	11.7	37
72	Cross-linked peptoid-based dimerization inhibitors of HIV-1 protease. <i>ChemBioChem</i> , 2010 , 11, 1513-6	3.8	11

71	Inhibition of P-glycoprotein-mediated paclitaxel resistance by reversibly linked quinine homodimers. <i>Molecular Pharmacology</i> , 2009 , 75, 92-100	4.3	86
70	A Metal-Collagen Peptide Framework for Three-Dimensional Cell Culture. <i>Angewandte Chemie</i> , 2009 , 121, 7953-7957	3.6	18
69	A metal-collagen peptide framework for three-dimensional cell culture. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 7813-7	16.4	96
68	Protease dimer formation disrupted. <i>Nature Chemical Biology</i> , 2009 , 5, 607-8	11.7	
67	Cationic amphiphilic polyproline helices: side-chain variations and cell-specific internalization. <i>Chemical Biology and Drug Design</i> , 2009 , 73, 39-45	2.9	33
66	Sidechain-linked inhibitors of HIV-1 protease dimerization. <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 967-76	3.4	18
65	Self-assembly of collagen peptides into microflorettes via metal coordination. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2706-12	16.4	114
64	Inhibition of human P-glycoprotein transport and substrate binding using a galantamine dimer. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 388, 672-6	3.4	31
63	Analysis and characterization of dimerization inhibition of a multi-drug-resistant human immunodeficiency virus type 1 protease using a novel size-exclusion chromatographic approach. <i>Biochemical Journal</i> , 2009 , 419, 497-506	3.8	14
62	Assembly of dithiocarbamate-anchored monolayers on gold surfaces in aqueous solutions. <i>Langmuir</i> , 2008 , 24, 8660-6	4	55
61	Fluorescence imaging of cellular glutathione using a latent rhodamine. <i>Organic Letters</i> , 2008 , 10, 837-406.2		181
60	Metal-triggered radial self-assembly of collagen peptide fibers. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12610-1	16.4	112
59	Investigation of pH-dependent collagen triple-helix formation. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8429-32	16.4	26
58	Investigation of pH-Dependent Collagen Triple-Helix Formation. <i>Angewandte Chemie</i> , 2008 , 120, 8557-8560	16.4	9
57	Inhibitors of anthrax lethal factor based upon N-oleoyldopamine. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 2467-70	2.9	9
56	Peptide ligation catalyzed by functionalized gold nanoparticles. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6676-7	16.4	35
55	Probing length effects and mechanism of cell penetrating agents mounted on a polyproline helix scaffold. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 2765-8	2.9	29
54	Inhibitors of anthrax lethal factor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 4575-8	2.9	21

53	Scaffolds for blocking protein-protein interactions. <i>Current Topics in Medicinal Chemistry</i> , 2007 , 7, 928-42,		57
52	Bivalent probes of the human multidrug transporter P-glycoprotein. <i>Biochemistry</i> , 2006 , 45, 11695-702	3.2	33
51	A light-activated beta-turn scaffold within a somatostatin analog: NMR structure and biological activity. <i>Chemical Biology and Drug Design</i> , 2006 , 67, 127-36	2.9	14
50	Rapid synthesis and in situ screening of potent HIV-1 protease dimerization inhibitors. <i>Chemistry and Biology</i> , 2006 , 13, 421-6		21
49	Development of low molecular weight HIV-1 protease dimerization inhibitors. <i>Journal of Medicinal Chemistry</i> , 2005 , 48, 2239-42	8.3	22
48	Cell penetrating agents based on a polyproline helix scaffold. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11798-803	16.4	135
47	Switching between allosteric and dimerization inhibition of HIV-1 protease. <i>Chemistry and Biology</i> , 2005 , 12, 439-44		24
46	Inhibiting protein-protein interactions using designed molecules. <i>Current Opinion in Structural Biology</i> , 2005 , 15, 31-4	8.1	80
45	Crucial amides for dimerization inhibitors of HIV-1 protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 1395-8	2.9	10
44	A unidirectional crosslinking strategy for HIV-1 protease dimerization inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 4297-300	2.9	10
43	Peptide self-assembly as a model of proteins in the pre-genomic world. <i>Current Opinion in Chemical Biology</i> , 2004 , 8, 640-4	9.7	36
42	Small-molecule dimerization inhibitors of wild-type and mutant HIV protease: a focused library approach. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9886-7	16.4	41
41	Folate-mediated cell targeting and cytotoxicity using thermoresponsive microgels. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10258-9	16.4	286
40	Interfacial peptide inhibitors of HIV-1 integrase activity and dimerization. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003 , 13, 1175-7	2.9	57
39	Peptide self-replication enhanced by a proline kink. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11820-1	16.4	51
38	Challenges in the design of self replicating peptides. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 901-4	3.9	30
37	Novel strategies for targeting the dimerization interface of HIV protease with cross-linked interfacial peptides. <i>Biopolymers</i> , 2002 , 66, 126-33	2.2	35
36	Cellular import mediated by nuclear localization signal Peptide sequences. <i>Chemistry and Biology</i> , 2002 , 9, 943-8		85

35	Approaching exponential growth with a self-replicating peptide. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6808-9	16.4	88
34	D-lactose monohydrate single crystals as hosts for matrix isolation of guest biopolymers. <i>Bioorganic and Medicinal Chemistry</i> , 2001 , 9, 2279-2283	3.4	13
33	Intrasectoral Zoning of Proteins and Nucleotides in Simple Crystalline Hosts. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 620, 1		5
32	Small-Molecule Inhibitors of HIV-1 Protease Dimerization Derived from Cross-Linked Interfacial Peptides. <i>Angewandte Chemie</i> , 2000 , 112, 2822-2825	3.6	5
31	Small-Molecule Inhibitors of HIV-1 Protease Dimerization Derived from Cross-Linked Interfacial Peptides This work was supported by NIH (GM52739) and NSF (9457372-CHE). <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 2710-2713	16.4	34
30	Targeting the dimerization interface for irreversible inhibition of HIV-1 protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000 , 10, 1901-3	2.9	43
29	Helical peptide and protein design. <i>Current Opinion in Chemical Biology</i> , 1999 , 3, 724-9	9.7	50
28	Probing the role of interfacial residues in a dimerization inhibitor of HIV-1 protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1999 , 9, 2431-6	2.9	24
27	Kinetic Stabilization of Biopolymers in Single-Crystal Hosts: Green Fluorescent Protein in D-lactose Monohydrate. <i>Journal of the American Chemical Society</i> , 1999 , 121, 6952-6953	16.4	34
26	A pH-tunable peptide ligase. <i>Biopolymers</i> , 1999 , 51, 370-5	2.2	7
25	Selective amplification by auto- and cross-catalysis in a replicating peptide system. <i>Nature</i> , 1998 , 396, 447-50	50.4	132
24	Uncoiling c-Jun coiled coils: inhibitory effects of truncated Fos peptides on Jun dimerization and DNA binding in vitro. <i>Biopolymers</i> , 1998 , 47, 277-83	2.2	8
23	Selbstreplikation eines Peptids unter Ionenkontrolle. <i>Angewandte Chemie</i> , 1998 , 110, 489-492	3.6	21
22	A Self-Replicating Peptide under Ionic Control. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 478-481	4.1	62
21	A beta-sheet peptide inhibitor of E47 dimerization and DNA binding. <i>Chemistry and Biology</i> , 1998 , 5, 439-45		20
20	Inhibiting the dimeric restriction endonuclease EcoRI using interfacial helical peptides. <i>Chemistry and Biology</i> , 1998 , 5, 339-43		11
19	Endothiopeptide inhibitors of HIV-1 protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998 , 8, 699-704	2.9	18
18	Restricting the flexibility of crosslinked, interfacial peptide inhibitors of HIV-1 protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1998 , 8, 3281-6	2.9	23

- 17 Inhibiting the assembly of protein-protein interfaces. *Current Opinion in Chemical Biology*, **1998**, 2, 62-6 9.7 105
- 16 Inhibiting the Dimerization of HIV-1 Protease. *Synlett*, **1998**, 1998, 1040-1044 2.2 7
- 15 Single-Crystal Matrix Isolation of Biopolymers. *Journal of the American Chemical Society*, **1997**, 119, 10566-10568
- 14 Targeting the Dimerization Interface of HIV-1 Protease: Inhibition with Cross-Linked Interfacial Peptides. *Journal of the American Chemical Society*, **1997**, 119, 4841-4845 16.4 105
- 13 A pH-Modulated, Self-Replicating Peptide. *Journal of the American Chemical Society*, **1997**, 119, 10559-10560 9.9 99
- 12 Hydrophobicity versus activity in crosslinked interfacial peptide inhibitors of HIV-1 protease. *Tetrahedron: Asymmetry*, **1997**, 8, 3881-3886 8
- 11 Peptide-Mediated Release of Folate-Targeted Liposome Contents from Endosomal Compartments. *Journal of the American Chemical Society*, **1996**, 118, 1581-1586 16.4 84
- 10 Synthesis of the basic-helix-loop-helix region of the immunoglobulin enhancer binding protein E47 and evaluation of its structural and DNA binding properties. *International Journal of Peptide and Protein Research*, **1995**, 46, 149-54 6
- 9 Photoregulation of cyclic peptide conformation. *Journal of the American Chemical Society*, **1995**, 117, 8466-8467 16.4 144
- 8 The synthesis of a light-switchable amino acid for inclusion into conformationally mobile peptides. *Bioorganic and Medicinal Chemistry Letters*, **1994**, 4, 2145-2146 2.9 38
- 7 Rapid and Efficient Resynthesis of Proteolyzed Triose Phosphate Isomerase. *Journal of the American Chemical Society*, **1994**, 116, 11163-11164 16.4 24
- 6 General strategy for covalently stabilizing helical bundles: A novel five-helix bundle protein. *Journal of the American Chemical Society*, **1994**, 116, 6451-6452 16.4 19
- 5 Dimethyl(methylthio)sulfonium tetrafluoroborate: A reagent for disulfide bond formation in peptides. *Tetrahedron Letters*, **1993**, 34, 4469-4472 2 17
- 4 A systematic evaluation of the inhibition of HIV-1 protease by its C- and N-terminal peptides. *Bioorganic and Medicinal Chemistry Letters*, **1993**, 3, 765-768 2.9 28
- 3 Cyanogen iodide: A new reagent for disulfide bond formation in peptides. *Tetrahedron Letters*, **1992**, 33, 6263-6266 2 12
- 2 General approach to the synthesis of short .alpha.-helical peptides. *Journal of the American Chemical Society*, **1991**, 113, 9391-9392 16.4 292
- 1 Optically Active Amino Acid Synthesis by Artificial Transaminase Enzymes. *Tetrahedron*, **1988**, 44, 5515-5524 39