

# Jean Chmielewski

## List of Publications by Citations

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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	General approach to the synthesis of short .alpha.-helical peptides. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 9391-9392	16.4	292
123	Folate-mediated cell targeting and cytotoxicity using thermoresponsive microgels. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 10258-9	16.4	286
122	Fluorescence imaging of cellular glutathione using a latent rhodamine. <i>Organic Letters</i> , <b>2008</b> , 10, 837-406.2		181
121	Photoregulation of cyclic peptide conformation.. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 8466-8467	16.4	144
120	Cell penetrating agents based on a polyproline helix scaffold. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 11798-803	16.4	135
119	Selective amplification by auto- and cross-catalysis in a replicating peptide system. <i>Nature</i> , <b>1998</b> , 396, 447-50	50.4	132
118	Self-assembly of collagen peptides into microflorettes via metal coordination. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 2706-12	16.4	114
117	Metal-triggered radial self-assembly of collagen peptide fibers. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 12610-1	16.4	112
116	Targeting the Dimerization Interface of HIV-1 Protease: Inhibition with Cross-Linked Interfacial Peptides. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 4841-4845	16.4	105
115	Inhibiting the assembly of protein-protein interfaces. <i>Current Opinion in Chemical Biology</i> , <b>1998</b> , 2, 62-6	9.7	105
114	A pH-Modulated, Self-Replicating Peptide. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 10559-10560	16.4	99
113	A metal-collagen peptide framework for three-dimensional cell culture. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 7813-7	16.4	96
112	Approaching exponential growth with a self-replicating peptide. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 6808-9	16.4	88
111	Inhibition of P-glycoprotein-mediated paclitaxel resistance by reversibly linked quinine homodimers. <i>Molecular Pharmacology</i> , <b>2009</b> , 75, 92-100	4.3	86
110	Cellular import mediated by nuclear localization signal Peptide sequences. <i>Chemistry and Biology</i> , <b>2002</b> , 9, 943-8		85
109	Peptide-Mediated Release of Folate-Targeted Liposome Contents from Endosomal Compartments1. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 1581-1586	16.4	84
108	Inhibiting protein-protein interactions using designed molecules. <i>Current Opinion in Structural Biology</i> , <b>2005</b> , 15, 31-4	8.1	80

107	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> , <b>2016</b> , 138, 10945-9	16.4	80
106	Metal-triggered collagen peptide disk formation. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 7866-7	16.4	71
105	A Self-Replicating Peptide under Ionic Control. <i>Angewandte Chemie - International Edition</i> , <b>1998</b> , 37, 478-481	16.4	62
104	Hierarchical assembly of collagen peptide triple helices into curved disks and metal ion-promoted hollow spheres. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 3418-22	16.4	58
103	Mimicking the extracellular matrix with functionalized, metal-assembled collagen peptide scaffolds. <i>Biomaterials</i> , <b>2014</b> , 35, 7363-73	15.6	57
102	Higher-order assembly of collagen peptides into nano- and microscale materials. <i>Biochemistry</i> , <b>2010</b> , 49, 4411-9	3.2	57
101	Scaffolds for blocking protein-protein interactions. <i>Current Topics in Medicinal Chemistry</i> , <b>2007</b> , 7, 928-42		57
100	Interfacial peptide inhibitors of HIV-1 integrase activity and dimerization. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2003</b> , 13, 1175-7	2.9	57
99	Assembly of dithiocarbamate-anchored monolayers on gold surfaces in aqueous solutions. <i>Langmuir</i> , <b>2008</b> , 24, 8660-6	4	55
98	Metal-mediated tandem coassembly of collagen peptides into banded microstructures. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 14469-71	16.4	52
97	Targeting intracellular pathogenic bacteria with unnatural proline-rich peptides: coupling antibacterial activity with macrophage penetration. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 9664-7	16.4	51
96	A collagen peptide-based physical hydrogel for cell encapsulation. <i>Macromolecular Bioscience</i> , <b>2011</b> , 11, 1426-31	5.5	51
95	Peptide self-replication enhanced by a proline kink. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 11820-1	16.4	51
94	Helical peptide and protein design. <i>Current Opinion in Chemical Biology</i> , <b>1999</b> , 3, 724-9	9.7	50
93	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> , <b>2017</b> , 7, 6953	4.9	49
92	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> , <b>2012</b> , 134, 2976-80	16.4	49
91	Targeting the dimerization interface for irreversible inhibition of HIV-1 protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2000</b> , 10, 1901-3	2.9	43
90	Advances in the design and higher-order assembly of collagen mimetic peptides for regenerative medicine. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 46, 34-41	11.4	42

89	Small-molecule dimerization inhibitors of wild-type and mutant HIV protease: a focused library approach. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 9886-7	16.4	41
88	Tuning the thermosensitive properties of hybrid collagen peptide-polymer hydrogels. <i>Chemical Communications</i> , <b>2014</b> , 50, 8174-6	5.8	39
87	Optically Active Amino Acid Synthesis by Artificial Transaminase Enzymes. <i>Tetrahedron</i> , <b>1988</b> , 44, 5515-5524	3.4	39
86	The synthesis of a light-switchable amino acid for inclusion into conformationally mobile peptides. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>1994</b> , 4, 2145-2146	2.9	38
85	Cationic amphiphilic polyproline helix P11LRR targets intracellular mitochondria. <i>Journal of Controlled Release</i> , <b>2010</b> , 142, 259-66	11.7	37
84	Peptide self-assembly as a model of proteins in the pre-genomic world. <i>Current Opinion in Chemical Biology</i> , <b>2004</b> , 8, 640-4	9.7	36
83	Controlling the morphology of metal-promoted higher ordered assemblies of collagen peptides with varied core lengths. <i>Langmuir</i> , <b>2012</b> , 28, 1993-7	4	35
82	Peptide ligation catalyzed by functionalized gold nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 6676-7	16.4	35
81	Novel strategies for targeting the dimerization interface of HIV protease with cross-linked interfacial peptides. <i>Biopolymers</i> , <b>2002</b> , 66, 126-33	2.2	35
80	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> , <b>2000</b> , 39, 2710-2713	16.4	34
79	Kinetic Stabilization of Biopolymers in Single-Crystal Hosts: Green Fluorescent Protein in D-Lactose Monohydrate. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 6952-6953	16.4	34
78	Cationic amphiphilic polyproline helices: side-chain variations and cell-specific internalization. <i>Chemical Biology and Drug Design</i> , <b>2009</b> , 73, 39-45	2.9	33
77	Bivalent probes of the human multidrug transporter P-glycoprotein. <i>Biochemistry</i> , <b>2006</b> , 45, 11695-702	3.2	33
76	Accessing Three-Dimensional Crystals with Incorporated Guests through Metal-Directed Coiled-Coil Peptide Assembly. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 11051-7	16.4	32
75	Inhibition of human P-glycoprotein transport and substrate binding using a galantamine dimer. <i>Biochemical and Biophysical Research Communications</i> , <b>2009</b> , 388, 672-6	3.4	31
74	Challenges in the design of self replicating peptides. <i>Organic and Biomolecular Chemistry</i> , <b>2003</b> , 1, 901-4	3.9	30
73	Targeting biofilms and persisters of ESKAPE pathogens with P14KanS, a kanamycin peptide conjugate. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2017</b> , 1861, 848-859	4	29
72	Probing length effects and mechanism of cell penetrating agents mounted on a polyproline helix scaffold. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2007</b> , 17, 2765-8	2.9	29

71	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> , <b>2014</b> , 9, 722-30	4.9	28
70	Competency-based reforms of the undergraduate biology curriculum: integrating the physical and biological sciences. <i>CBE Life Sciences Education</i> , <b>2013</b> , 12, 162-9	3.4	28
69	A systematic evaluation of the inhibition of HIV-1 protease by its C- and N-terminal peptides. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>1993</b> , 3, 765-768	2.9	28
68	Investigation of pH-dependent collagen triple-helix formation. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 8429-32	16.4	26
67	Switching between allosteric and dimerization inhibition of HIV-1 protease. <i>Chemistry and Biology</i> , <b>2005</b> , 12, 439-44		24
66	Probing the role of interfacial residues in a dimerization inhibitor of HIV-1 protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>1999</b> , 9, 2431-6	2.9	24
65	Rapid and Efficient Resynthesis of Proteolyzed Triose Phosphate Isomerase. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 11163-11164	16.4	24
64	Mitochondrial targeting of a cationic amphiphilic polyproline helix. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2012</b> , 22, 561-3	2.9	23
63	Restricting the flexibility of crosslinked, interfacial peptide inhibitors of HIV-1 protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>1998</b> , 8, 3281-6	2.9	23
62	Development of low molecular weight HIV-1 protease dimerization inhibitors. <i>Journal of Medicinal Chemistry</i> , <b>2005</b> , 48, 2239-42	8.3	22
61	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> , <b>2014</b> , 5, 305-17	5.7	21
60	Selective decoration and release of His-tagged proteins from metal-assembled collagen peptide microflorettes. <i>Biomacromolecules</i> , <b>2011</b> , 12, 2429-33	6.9	21
59	Selbstreplikation eines Peptids unter Ionenkontrolle. <i>Angewandte Chemie</i> , <b>1998</b> , 110, 489-492	3.6	21
58	Inhibitors of anthrax lethal factor. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2007</b> , 17, 4575-8	2.9	21
57	Rapid synthesis and in situ screening of potent HIV-1 protease dimerization inhibitors. <i>Chemistry and Biology</i> , <b>2006</b> , 13, 421-6		21
56	A beta-sheet peptide inhibitor of E47 dimerization and DNA binding. <i>Chemistry and Biology</i> , <b>1998</b> , 5, 439-45		20
55	General strategy for covalently stabilizing helical bundles: A novel five-helix bundle protein. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 6451-6452	16.4	19
54	Targeting intracellular bacteria with an extended cationic amphiphilic polyproline helix. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 5930-6	3.9	18

53	A Metal-Collagen Peptide Framework for Three-Dimensional Cell Culture. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 7953-7957	3.6	18
52	Sidechain-linked inhibitors of HIV-1 protease dimerization. <i>Bioorganic and Medicinal Chemistry</i> , <b>2009</b> , 17, 967-76	3.4	18
51	Single-Crystal Matrix Isolation of Biopolymers. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 10566-10568	5.1	18
50	Endothiopeptide inhibitors of HIV-1 protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>1998</b> , 8, 699-704	3.4	18
49	Dimethyl(methylthio)sulfonium tetrafluoroborate: A reagent for disulfide bond formation in peptides. <i>Tetrahedron Letters</i> , <b>1993</b> , 34, 4469-4472	2	17
48	Reversible Hierarchical Assembly of Trimeric Coiled-Coil Peptides into Banded Nano- and Microstructures. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 13028-13033	16.4	17
47	Click chemistry-derived bivalent quinine inhibitors of P-glycoprotein-mediated cellular efflux. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2012</b> , 22, 4410-2	2.9	15
46	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> , <b>2009</b> , 419, 497-506	3.8	14
45	A light-activated beta-turn scaffold within a somatostatin analog: NMR structure and biological activity. <i>Chemical Biology and Drug Design</i> , <b>2006</b> , 67, 127-36	2.9	14
44	Lactose monohydrate single crystals as hosts for matrix isolation of guest biopolymers. <i>Bioorganic and Medicinal Chemistry</i> , <b>2001</b> , 9, 2279-2283	3.4	13
43	Cyanogen iodide: A new reagent for disulfide bond formation in peptides. <i>Tetrahedron Letters</i> , <b>1992</b> , 33, 6263-6266	2	12
42	Thermally Controlled Collagen Peptide Cages for Biopolymer Delivery. <i>ACS Biomaterials Science and Engineering</i> , <b>2015</b> , 1, 1002-1008	5.5	11
41	Dimeric unnatural polyproline-rich peptides with enhanced antibacterial activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2014</b> , 24, 556-9	2.9	11
40	Cross-linked peptoid-based dimerization inhibitors of HIV-1 protease. <i>ChemBioChem</i> , <b>2010</b> , 11, 1513-6	3.8	11
39	Inhibiting the dimeric restriction endonuclease EcoRI using interfacial helical peptides. <i>Chemistry and Biology</i> , <b>1998</b> , 5, 339-43		11
38	Design and Evaluation of a One-Semester General Chemistry Course for Undergraduate Life Science Majors. <i>Journal of Chemical Education</i> , <b>2018</b> , 95, 734-740	2.4	10
37	Small molecule inhibitors of anthrax toxin-induced cytotoxicity targeted against protective antigen. <i>Chemical Biology and Drug Design</i> , <b>2012</b> , 79, 260-9	2.9	10
36	Crucial amides for dimerization inhibitors of HIV-1 protease. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2004</b> , 14, 1395-8	2.9	10

35	A unidirectional crosslinking strategy for HIV-1 protease dimerization inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2004</b> , 14, 4297-300	2.9	10
34	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> , <b>2020</b> , 63, 2131-2138	8.3	10
33	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> , <b>2017</b> , 14, 1107-1119	5.6	9
32	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> , <b>2015</b> , 9, 5749-54	4.4	9
31	Dimeric cationic amphiphilic polyproline helices for mitochondrial targeting. <i>Pharmaceutical Research</i> , <b>2011</b> , 28, 2797-807	4.5	9
30	Gold nanoparticle self-assembly promoted by a non-covalent, charge-complemented coiled-coil peptide. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 5608		9
29	Investigation of pH-Dependent Collagen Triple-Helix Formation. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 8557-8560	5.6	9
28	Inhibitors of anthrax lethal factor based upon N-oleoyldopamine. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2008</b> , 18, 2467-70	2.9	9
27	Targeting Intracellular Pathogenic Bacteria with Unnatural Proline-Rich Peptides: Coupling Antibacterial Activity with Macrophage Penetration. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 9846-9849	3.6	8
26	Hydrophobicity versus activity in crosslinked interfacial peptide inhibitors of HIV-1 protease. <i>Tetrahedron: Asymmetry</i> , <b>1997</b> , 8, 3881-3886		8
25	Uncoiling c-Jun coiled coils: inhibitory effects of truncated Fos peptides on Jun dimerization and DNA binding in vitro. <i>Biopolymers</i> , <b>1998</b> , 47, 277-83	2.2	8
24	A Library Approach to Cationic Amphiphilic Polyproline Helices that Target Intracellular Pathogenic Bacteria. <i>ACS Infectious Diseases</i> , <b>2018</b> , 4, 1300-1305	5.5	7
23	Homodimers of the Antiviral Abacavir as Modulators of P-glycoprotein Transport in Cell Culture: Probing Tether Length. <i>MedChemComm</i> , <b>2013</b> , 4,	5	7
22	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> , <b>2017</b> , 25, 5128-5132	3.4	7
21	Inhibiting the Dimerization of HIV-1 Protease. <i>Synlett</i> , <b>1998</b> , 1998, 1040-1044	2.2	7
20	A pH-tunable peptide ligase. <i>Biopolymers</i> , <b>1999</b> , 51, 370-5	2.2	7
19	Self-Assembling Coiled-Coil Peptide Nanotubes with Biomolecular Cargo Encapsulation. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 5082-5087	5.5	6
18	Folding studies of pH-dependent collagen peptides. <i>Chemical Biology and Drug Design</i> , <b>2010</b> , 75, 161-8	2.9	6

17	Synthesis of the basic-helix-loop-helix region of the immunoglobulin enhancer binding protein E47 and evaluation of its structural and DNA binding properties. <i>International Journal of Peptide and Protein Research</i> , <b>1995</b> , 46, 149-54		6
16	Tools for eradicating HIV in the brain: prodrug dimeric inhibitors of P-gp. <i>Therapeutic Delivery</i> , <b>2012</b> , 3, 689-92	3.8	6
15	Intrasectoral Zoning of Proteins and Nucleotides in Simple Crystalline Hosts. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 620, 1		5
14	Small-Molecule Inhibitors of HIV-1 Protease Dimerization Derived from Cross-Linked Interfacial Peptides. <i>Angewandte Chemie</i> , <b>2000</b> , 112, 2822-2825	3.6	5
13	Metal-Promoted Assembly of Two Collagen Mimetic Peptides into a Biofunctional "Spiraled Horn" Scaffold. <i>Materials</i> , <b>2016</b> , 9,	3.5	5
12	Fluorescent Probes for Monitoring Serine Ubiquitination. <i>Biochemistry</i> , <b>2020</b> , 59, 1309-1313	3.2	4
11	Targeting Intracellular Pathogenic Bacteria Through N-Terminal Modification of Cationic Amphiphilic Polyproline Helices. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 7468-7475	4.2	3
10	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> , <b>2021</b> , 4, 784-804	4.5	3
9	Inhibition of HIV-1 integrase dimerization and activity with crosslinked interfacial peptides. <i>Bioorganic and Medicinal Chemistry</i> , <b>2013</b> , 21, 4041-4	3.4	2
8	A comparison of the collagen triple helix and coiled-coil peptide building blocks on metal ion-mediated supramolecular assembly. <i>Peptide Science</i> , <b>2021</b> , 113, e24190	3	2
7	Controlling the morphology of metal-triggered collagen peptide assemblies through ligand alteration. <i>Biopolymers</i> , <b>2015</b> , 104, 379-83	2.2	1
6	Antibiotic-cell-penetrating peptide conjugates targeting challenging drug-resistant and intracellular pathogenic bacteria. <i>Chemical Biology and Drug Design</i> , <b>2021</b> , 98, 762-778	2.9	1
5	Conservation of Cdc14 phosphatase specificity in plant fungal pathogens: implications for antifungal development. <i>Scientific Reports</i> , <b>2020</b> , 10, 12073	4.9	0
4	Structural studies and cyclization of the neuroprotective octapeptide NAPVSIPQ to improve cell permeability. <i>Peptide Science</i> , <b>2020</b> , 112, e24179	3	0
3	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> , <b>2021</b> , e3302	2.1	0
2	The Chemistry Diversity Initiative at Purdue University. <i>ACS Symposium Series</i> , <b>2017</b> , 59-66	0.4	
1	Protease dimer formation disrupted. <i>Nature Chemical Biology</i> , <b>2009</b> , 5, 607-8		11.7