

# Vincent P Conticello

## 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.

79  
papers

5,211  
citations

41  
h-index

72  
g-index

82  
ext. papers

5,630  
ext. citations

10.9  
avg, IF

5.27  
L-index

#	Paper	IF	Citations
79	Cryo-EM of Helical Polymers.. <i>Chemical Reviews</i> , <b>2022</b> ,	68.1	3
78	Structures of synthetic helical filaments and tubes based on peptide and peptido-mimetic polymers.. <i>Quarterly Reviews of Biophysics</i> , <b>2022</b> , 1-103	7	0
77	Flagellin outer domain dimerization modulates motility in pathogenic and soil bacteria from viscous environments.. <i>Nature Communications</i> , <b>2022</b> , 13, 1422	17.4	0
76	Phenol-soluble modulins PSM $\beta$ and PSM $\alpha$ form nanotubes that are cross- $\beta$ -amyloids.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2121586119	11.5	0
75	Deterministic chaos in the self-assembly of $\beta$ -sheet nanotubes from an amphipathic oligopeptide. <i>Matter</i> , <b>2021</b> , 4, 3217-3231	12.7	14
74	Structural analysis of cross $\beta$ -helical nanotubes provides insight into the designability of filamentous peptide nanomaterials. <i>Nature Communications</i> , <b>2021</b> , 12, 407	17.4	18
73	Shape-Shifting Peptide Nanomaterials: Surface Asymmetry Enables pH-Dependent Formation and Interconversion of Collagen Tubes and Sheets. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 19956-19968	16.4	11
72	2D Crystal Engineering of Nanosheets Assembled from Helical Peptide Building Blocks. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13641-13646	3.6	8
71	2D Crystal Engineering of Nanosheets Assembled from Helical Peptide Building Blocks. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13507-13512	16.4	22
70	Ambidextrous helical nanotubes from self-assembly of designed helical hairpin motifs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 14456-14464	11.5	22
69	Seeded Heteroepitaxial Growth of Crystallizable Collagen Triple Helices: Engineering Multifunctional Two-Dimensional Core-Shell Nanostructures. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 20107-20117	16.4	19
68	Programmable Fabrication of Multilayer Collagen Nanosheets of Defined Composition. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1777, 221-232	1.4	1
67	Biomaterials Made from Coiled-Coil Peptides. <i>Sub-Cellular Biochemistry</i> , <b>2017</b> , 82, 575-600	5.5	6
66	Structurally Ordered Nanowire Formation from Co-Assembly of DNA Origami and Collagen-Mimetic Peptides. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 14025-14028	16.4	41
65	A Supramolecular Vaccine Platform Based on $\beta$ -Helical Peptide Nanofibers. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 3128-3132	5.5	51
64	Geometrical frustration as a potential design principle for peptide-based assemblies. <i>Interface Focus</i> , <b>2017</b> , 7, 20160141	3.9	7
63	Self-Assembly of an $\beta$ -Helical Peptide into a Crystalline Two-Dimensional Nanoporous Framework. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 16274-16282	16.4	37

62	Two-Dimensional Peptide and Protein Assemblies. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 940, 29-60	3.6	8
61	Rational Design of Multilayer Collagen Nanosheets with Compositional and Structural Control. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7793-802	16.4	33
60	Atomic-accuracy models from 4.5-Å cryo-electron microscopy data with density-guided iterative local refinement. <i>Nature Methods</i> , <b>2015</b> , 12, 361-365	21.6	245
59	Cryo-EM Methods for the Structural Analysis of Biomimetic Materials based on Peptides and Proteins. <i>Microscopy and Microanalysis</i> , <b>2015</b> , 21, 375-376	0.5	
58	Structural plasticity of helical nanotubes based on coiled-coil assemblies. <i>Structure</i> , <b>2015</b> , 23, 280-9	5.2	86
57	Structurally defined nanoscale sheets from self-assembly of collagen-mimetic peptides. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4300-8	16.4	108
56	Structurally Homogeneous Nanosheets from Self-Assembly of a Collagen-Mimetic Peptide. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 8507-8511	3.6	8
55	Structurally homogeneous nanosheets from self-assembly of a collagen-mimetic peptide. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 8367-71	16.4	55
54	Rational design of helical nanotubes from self-assembly of coiled-coil lock washers. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 15565-78	16.4	90
53	Multiple site-selective insertions of noncanonical amino acids into sequence-repetitive polypeptides. <i>ChemBioChem</i> , <b>2013</b> , 14, 968-78	3.8	34
52	Controlling self-assembly of a peptide-based material via metal-ion induced registry shift. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 10278-81	16.4	45
51	Bioengineering of Sequence-Repetitive Polypeptides: Synthetic Routes to Protein-Based Materials of Novel Structure and Function <b>2011</b> , 915-938		1
50	A permanent change in protein mechanical responses can be produced by thermally-induced microdomain mixing. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2009</b> , 20, 1629-44	3.5	9
49	Expression of a recombinant elastin-like protein in pichia pastoris. <i>Biotechnology Progress</i> , <b>2009</b> , 25, 1810-8		37
48	Elastin-mimetic protein polymers capable of physical and chemical crosslinking. <i>Biomaterials</i> , <b>2009</b> , 30, 409-22	15.6	91
47	Engineering responsive mechanisms to control the assembly of peptide-based nanostructures. <i>Biochemical Society Transactions</i> , <b>2009</b> , 37, 653-9	5.1	15
46	Design of a selective metal ion switch for self-assembly of peptide-based fibrils. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 49-51	16.4	126
45	Deformation responses of a physically cross-linked high molecular weight elastin-like protein polymer. <i>Biomacromolecules</i> , <b>2008</b> , 9, 1787-94	6.9	43

44	D-periodic collagen-mimetic microfibers. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 14780-7	16.4	180
43	Protein Engineering Methods for Investigation of Structure-Function Relationships in Protein-Based Elastomeric Materials. <i>Polymer Reviews</i> , <b>2007</b> , 47, 93-119	14	26
42	Macroscale assembly of peptide nanotubes. <i>Chemical Communications</i> , <b>2007</b> , 2729-31	5.8	53
41	Fluoroproline flip-flop: regiochemical reversal of a stereoelectronic effect on peptide and protein structures. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 8141-5	16.4	66
40	Fluoroproline Flip-Flop: Regiochemical Reversal of a Stereoelectronic Effect on Peptide and Protein Structures. <i>Angewandte Chemie</i> , <b>2006</b> , 118, 8321-8325	3.6	15
39	Micelle density regulated by a reversible switch of protein secondary structure. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 12014-9	16.4	81
38	Rational design of a reversible pH-responsive switch for peptide self-assembly. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 6770-1	16.4	164
37	In-Lens Cryo-HRSEM of a Freeze-Dried Coiled-Coil Protein Assembly. <i>Microscopy and Microanalysis</i> , <b>2006</b> , 12, 1118-1119	0.5	
36	A stereoelectronic effect on turn formation due to proline substitution in elastin-mimetic polypeptides. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 18121-32	16.4	78
35	Alterations in physical cross-linking modulate mechanical properties of two-phase protein polymer networks. <i>Biomacromolecules</i> , <b>2005</b> , 6, 3037-44	6.9	54
34	Protein-Based Thermoplastic Elastomers. <i>Macromolecules</i> , <b>2005</b> , 38, 345-354	5.5	97
33	One-pot glyco-affinity precipitation purification for enhanced proteomics: the flexible alignment of solution-phase capture/release and solid-phase separation. <i>Journal of Proteome Research</i> , <b>2005</b> , 4, 2355-9	5.6	19
32	Cotranslational incorporation of a structurally diverse series of proline analogues in an Escherichia coli expression system. <i>ChemBioChem</i> , <b>2004</b> , 5, 928-36	3.8	57
31	Rational design of a nanoscale helical scaffold derived from self-assembly of a dimeric coiled coil motif. <i>Tetrahedron</i> , <b>2004</b> , 60, 7237-7246	2.4	78
30	Force Spectroscopy of Biopolymers: Correlating Molecular Structure with Single Molecule Elasticity. <i>Microscopy and Microanalysis</i> , <b>2004</b> , 10, 204-205	0.5	
29	Single Molecule Mechanical Testing of Mimetic-Elastin Molecules. <i>Microscopy and Microanalysis</i> , <b>2004</b> , 10, 1096-1097	0.5	
28	In-lens cryo-high resolution scanning electron microscopy: methodologies for molecular imaging of self-assembled organic hydrogels. <i>Microscopy and Microanalysis</i> , <b>2003</b> , 9, 286-95	0.5	29
27	Morphological characterization of elastin-mimetic block copolymers utilizing cryo- and cryoetch-HRSEM. <i>Microscopy and Microanalysis</i> , <b>2003</b> , 9, 171-82	0.5	18

26	Exploiting amyloid fibril lamination for nanotube self-assembly. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 6391-3	16.4	311
25	Self-assembly of block copolymers derived from elastin-mimetic polypeptide sequences. <i>Advanced Drug Delivery Reviews</i> , <b>2002</b> , 54, 1057-73	18.5	263
24	Thermoplastic Elastomer Hydrogels via Self-Assembly of an Elastin-Mimetic Triblock Polypeptide. <i>Advanced Functional Materials</i> , <b>2002</b> , 12, 149-154	15.6	139
23	Measurement of conformational constraints in an elastin-mimetic protein by residue-pair selected solid-state NMR. <i>Journal of Biomolecular NMR</i> , <b>2002</b> , 22, 175-9	3	12
22	Photomediated Solid-State Cross-Linking of an Elastin-Mimetic Recombinant Protein Polymer. <i>Macromolecules</i> , <b>2002</b> , 35, 1730-1737	5.5	107
21	Improved assembly of multimeric genes for the biosynthetic production of protein polymers. <i>Biomacromolecules</i> , <b>2002</b> , 3, 874-9	6.9	30
20	Self-Assembly of a Modular Polypeptide based on Blocks of Silk-Mimetic and Elastin-Mimetic Sequences. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 724, N3.8.1		
19	Self-Assembly of Hydrogels From Elastin-Mimetic Block Copolymers. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 724, N8.1.1		0
18	Genetically directed synthesis and spectroscopic analysis of a protein polymer derived from a flagelliform silk sequence. <i>Biomacromolecules</i> , <b>2001</b> , 2, 111-25	6.9	66
17	Thermo-Reversible Self-Assembly of Nanoparticles Derived from Elastin-Mimetic Polypeptides. <i>Advanced Materials</i> , <b>2000</b> , 12, 1105-1110	24	144
16	Synthesis and Characterization of Elastin-Mimetic Protein Gels Derived from a Well-Defined Polypeptide Precursor. <i>Macromolecules</i> , <b>2000</b> , 33, 4809-4821	5.5	122
15	Self-Assembly of a Polypeptide Multi-Block Copolymer Modeled on Dragline Silk Proteins. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 5014-5015	16.4	56
14	Generation of Synthetic Elastin-Mimetic Small Diameter Fibers and Fiber Networks. <i>Macromolecules</i> , <b>2000</b> , 33, 2989-2997	5.5	303
13	High-Resolution Topographic Imaging of Environmentally Responsive, Elastin-Mimetic Hydrogels. <i>Macromolecules</i> , <b>1999</b> , 32, 9067-9070	5.5	47
12	Rapid Assembly of Synthetic Genes Encoding Protein Polymers. <i>Macromolecules</i> , <b>1999</b> , 32, 3643-3648	5.5	73
11	Smectic ordering in solutions and films of a rod-like polymer owing to monodispersity of chain length. <i>Nature</i> , <b>1997</b> , 389, 167-70	50.4	187
10	Chiral Organolanthanides Designed for Asymmetric Catalysis. Synthesis, Characterization, and Configurational Interconversions of Chiral, C <sub>1</sub> -Symmetric Organolanthanide Halides, Amides, and Hydrocarbyls. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 10212-10240	16.4	154
9	Chiral Organolanthanides Designed for Asymmetric Catalysis. A Kinetic and Mechanistic Study of Enantioselective Olefin Hydroamination/Cyclization and Hydrogenation by C <sub>1</sub> -Symmetric Me <sub>2</sub> Si(Me <sub>4</sub> C <sub>5</sub> )(C <sub>5</sub> H <sub>3</sub> R*)Ln Complexes where R* = Chiral Auxiliary. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 10211-10251	16.4	285

8	Stereoregular Precursors to Poly(p-phenylene) via Transition-Metal-Catalyzed Polymerization. 2. The Effects of Polymer Stereochemistry and Acid Catalysts on Precursor Aromatization: A Characterization Study. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 10934-10947	16.4	43
7	Stereoregular Precursors to Poly(p-phenylene) via Transition-Metal-Catalyzed Polymerization. 1. Precursor Design and Synthesis. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 10507-10519	16.4	49
6	Stereoselection effects in the catalytic hydroamination/cyclization of amino olefins at chiral organolanthanide centers. <i>Organometallics</i> , <b>1992</b> , 11, 2003-2005	3.8	159
5	Chiral organolanthanide complexes for enantioselective olefin hydrogenation. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 2761-2762	16.4	128
4	Ring-opening metathesis polymerization of substituted bicyclo[2.2.2]octadienes: a new precursor route to poly(1,4-phenylenevinylene). <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 9708-9710	16.4	115
3	Transition-metal-catalyzed polymerization of heteroatom-functionalized cyclohexadienes: stereoregular precursors to poly(p-phenylene). <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 3167-3169	16.4	53
2	Efficient synthesis, redox characteristics, and electronic structure of a tetravalent tris(cyclopentadienyl)cerium alkoxide complex. <i>Organometallics</i> , <b>1988</b> , 7, 2360-2364	3.8	55
1	Elastomeric Materials, Protein-Based: Structure-Function Relationships	3017-3034	