

Vincent P Conticello

List of Publications by Citations

Source: <https://exaly.com/author-pdf/928661/vincent-p-conticello-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Exploiting amyloid fibril lamination for nanotube self-assembly. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6391-3	16.4	311
78	Generation of Synthetic Elastin-Mimetic Small Diameter Fibers and Fiber Networks. <i>Macromolecules</i> , 2000 , 33, 2989-2997	5.5	303
77	Chiral Organolanthanides Designed for Asymmetric Catalysis. A Kinetic and Mechanistic Study of Enantioselective Olefin Hydroamination/Cyclization and Hydrogenation by C1-Symmetric Me ₂ Si(Me ₄ C ₅)(C ₅ H ₃ R*)Ln Complexes where R* = Chiral Auxiliary. <i>Journal of the American Chemical Society</i> , 2001 , 123, 10251-10254	16.4	285
76	Self-assembly of block copolymers derived from elastin-mimetic polypeptide sequences. <i>Advanced Drug Delivery Reviews</i> , 2002 , 54, 1057-73	18.5	263
75	Atomic-accuracy models from 4.5-Å cryo-electron microscopy data with density-guided iterative local refinement. <i>Nature Methods</i> , 2015 , 12, 361-365	21.6	245
74	Smectic ordering in solutions and films of a rod-like polymer owing to monodispersity of chain length. <i>Nature</i> , 1997 , 389, 167-70	50.4	187
73	D-periodic collagen-mimetic microfibers. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14780-7	16.4	180
72	Rational design of a reversible pH-responsive switch for peptide self-assembly. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6770-1	16.4	164
71	Stereoselection effects in the catalytic hydroamination/cyclization of amino olefins at chiral organolanthanide centers. <i>Organometallics</i> , 1992 , 11, 2003-2005	3.8	159
70	Chiral Organolanthanides Designed for Asymmetric Catalysis. Synthesis, Characterization, and Configurational Interconversions of Chiral, C1-Symmetric Organolanthanide Halides, Amides, and Hydrocarbyls. <i>Journal of the American Chemical Society</i> , 1994 , 116, 10212-10240	16.4	154
69	Thermo-Reversible Self-Assembly of Nanoparticles Derived from Elastin-Mimetic Polypeptides. <i>Advanced Materials</i> , 2000 , 12, 1105-1110	24	144
68	Thermoplastic Elastomer Hydrogels via Self-Assembly of an Elastin-Mimetic Triblock Polypeptide. <i>Advanced Functional Materials</i> , 2002 , 12, 149-154	15.6	139
67	Chiral organolanthanide complexes for enantioselective olefin hydrogenation. <i>Journal of the American Chemical Society</i> , 1992 , 114, 2761-2762	16.4	128
66	Design of a selective metal ion switch for self-assembly of peptide-based fibrils. <i>Journal of the American Chemical Society</i> , 2008 , 130, 49-51	16.4	126
65	Synthesis and Characterization of Elastin-Mimetic Protein Gels Derived from a Well-Defined Polypeptide Precursor. <i>Macromolecules</i> , 2000 , 33, 4809-4821	5.5	122
64	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> , 1992 , 114, 9708-9710	16.4	115
63	Structurally defined nanoscale sheets from self-assembly of collagen-mimetic peptides. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4300-8	16.4	108

62	Photomediated Solid-State Cross-Linking of an Elastin-Mimetic Recombinant Protein Polymer. <i>Macromolecules</i> , 2002 , 35, 1730-1737	5.5	107
61	Protein-Based Thermoplastic Elastomers. <i>Macromolecules</i> , 2005 , 38, 345-354	5.5	97
60	Elastin-mimetic protein polymers capable of physical and chemical crosslinking. <i>Biomaterials</i> , 2009 , 30, 409-22	15.6	91
59	Rational design of helical nanotubes from self-assembly of coiled-coil lock washers. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15565-78	16.4	90
58	Structural plasticity of helical nanotubes based on coiled-coil assemblies. <i>Structure</i> , 2015 , 23, 280-9	5.2	86
57	Micelle density regulated by a reversible switch of protein secondary structure. <i>Journal of the American Chemical Society</i> , 2006 , 128, 12014-9	16.4	81
56	A stereoelectronic effect on turn formation due to proline substitution in elastin-mimetic polypeptides. <i>Journal of the American Chemical Society</i> , 2005 , 127, 18121-32	16.4	78
55	Rational design of a nanoscale helical scaffold derived from self-assembly of a dimeric coiled coil motif. <i>Tetrahedron</i> , 2004 , 60, 7237-7246	2.4	78
54	Rapid Assembly of Synthetic Genes Encoding Protein Polymers. <i>Macromolecules</i> , 1999 , 32, 3643-3648	5.5	73
53	Fluoroproline flip-flop: regiochemical reversal of a stereoelectronic effect on peptide and protein structures. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 8141-5	16.4	66
52	Genetically directed synthesis and spectroscopic analysis of a protein polymer derived from a flagelliform silk sequence. <i>Biomacromolecules</i> , 2001 , 2, 111-25	6.9	66
51	Cotranslational incorporation of a structurally diverse series of proline analogues in an Escherichia coli expression system. <i>ChemBioChem</i> , 2004 , 5, 928-36	3.8	57
50	Self-Assembly of a Polypeptide Multi-Block Copolymer Modeled on Dragline Silk Proteins. <i>Journal of the American Chemical Society</i> , 2000 , 122, 5014-5015	16.4	56
49	Structurally homogeneous nanosheets from self-assembly of a collagen-mimetic peptide. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8367-71	16.4	55
48	Efficient synthesis, redox characteristics, and electronic structure of a tetravalent tris(cyclopentadienyl)cerium alkoxide complex. <i>Organometallics</i> , 1988 , 7, 2360-2364	3.8	55
47	Alterations in physical cross-linking modulate mechanical properties of two-phase protein polymer networks. <i>Biomacromolecules</i> , 2005 , 6, 3037-44	6.9	54
46	Macroscale assembly of peptide nanotubes. <i>Chemical Communications</i> , 2007 , 2729-31	5.8	53
45	Transition-metal-catalyzed polymerization of heteroatom-functionalized cyclohexadienes: stereoregular precursors to poly(p-phenylene). <i>Journal of the American Chemical Society</i> , 1992 , 114, 3167-3169	16.4	53

44	A Supramolecular Vaccine Platform Based on β -Helical Peptide Nanofibers. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 3128-3132	5.5	51
43	Stereoregular Precursors to Poly(p-phenylene) via Transition-Metal-Catalyzed Polymerization. 1. Precursor Design and Synthesis. <i>Journal of the American Chemical Society</i> , 1994 , 116, 10507-10519	16.4	49
42	High-Resolution Topographic Imaging of Environmentally Responsive, Elastin-Mimetic Hydrogels. <i>Macromolecules</i> , 1999 , 32, 9067-9070	5.5	47
41	Controlling self-assembly of a peptide-based material via metal-ion induced registry shift. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10278-81	16.4	45
40	Deformation responses of a physically cross-linked high molecular weight elastin-like protein polymer. <i>Biomacromolecules</i> , 2008 , 9, 1787-94	6.9	43
39	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> , 1994 , 116, 10934-10947	16.4	43
38	Structurally Ordered Nanowire Formation from Co-Assembly of DNA Origami and Collagen-Mimetic Peptides. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14025-14028	16.4	41
37	Self-Assembly of an β -Helical Peptide into a Crystalline Two-Dimensional Nanoporous Framework. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16274-16282	16.4	37
36	Expression of a recombinant elastin-like protein in pichia pastoris. <i>Biotechnology Progress</i> , 2009 , 25, 1810-8		37
35	Multiple site-selective insertions of noncanonical amino acids into sequence-repetitive polypeptides. <i>ChemBioChem</i> , 2013 , 14, 968-78	3.8	34
34	Rational Design of Multilayer Collagen Nanosheets with Compositional and Structural Control. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7793-802	16.4	33
33	Improved assembly of multimeric genes for the biosynthetic production of protein polymers. <i>Biomacromolecules</i> , 2002 , 3, 874-9	6.9	30
32	In-lens cryo-high resolution scanning electron microscopy: methodologies for molecular imaging of self-assembled organic hydrogels. <i>Microscopy and Microanalysis</i> , 2003 , 9, 286-95	0.5	29
31	Protein Engineering Methods for Investigation of Structure-Function Relationships in Protein-Based Elastomeric Materials. <i>Polymer Reviews</i> , 2007 , 47, 93-119	14	26
30	2D Crystal Engineering of Nanosheets Assembled from Helical Peptide Building Blocks. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 13507-13512	16.4	22
29	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> , 2019 , 116, 14456-14464	11.5	22
28	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> , 2005 , 4, 2355-9	5.6	19
27	Seeded Heteroepitaxial Growth of Crystallizable Collagen Triple Helices: Engineering Multifunctional Two-Dimensional Core-Shell Nanostructures. <i>Journal of the American Chemical Society</i> , 2019 , 141, 20107-20117	16.4	19

26	Morphological characterization of elastin-mimetic block copolymers utilizing cryo- and cryoetch-HRSEM. <i>Microscopy and Microanalysis</i> , 2003 , 9, 171-82	0.5	18
25	Structural analysis of cross helical nanotubes provides insight into the designability of filamentous peptide nanomaterials. <i>Nature Communications</i> , 2021 , 12, 407	17.4	18
24	Engineering responsive mechanisms to control the assembly of peptide-based nanostructures. <i>Biochemical Society Transactions</i> , 2009 , 37, 653-9	5.1	15
23	Fluoroproline Flip-Flop: Regiochemical Reversal of a Stereoelectronic Effect on Peptide and Protein Structures. <i>Angewandte Chemie</i> , 2006 , 118, 8321-8325	3.6	15
22	Deterministic chaos in the self-assembly of sheet nanotubes from an amphipathic oligopeptide. <i>Matter</i> , 2021 , 4, 3217-3231	12.7	14
21	Measurement of conformational constraints in an elastin-mimetic protein by residue-pair selected solid-state NMR. <i>Journal of Biomolecular NMR</i> , 2002 , 22, 175-9	3	12
20	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> , 2020 , 142, 19956-19968	16.4	11
19	A permanent change in protein mechanical responses can be produced by thermally-induced microdomain mixing. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009 , 20, 1629-44	3.5	9
18	2D Crystal Engineering of Nanosheets Assembled from Helical Peptide Building Blocks. <i>Angewandte Chemie</i> , 2019 , 131, 13641-13646	3.6	8
17	Structurally Homogeneous Nanosheets from Self-Assembly of a Collagen-Mimetic Peptide. <i>Angewandte Chemie</i> , 2014 , 126, 8507-8511	3.6	8
16	Two-Dimensional Peptide and Protein Assemblies. <i>Advances in Experimental Medicine and Biology</i> , 2016 , 940, 29-60	3.6	8
15	Geometrical frustration as a potential design principle for peptide-based assemblies. <i>Interface Focus</i> , 2017 , 7, 20160141	3.9	7
14	Biomaterials Made from Coiled-Coil Peptides. <i>Sub-Cellular Biochemistry</i> , 2017 , 82, 575-600	5.5	6
13	Cryo-EM of Helical Polymers.. <i>Chemical Reviews</i> , 2022 ,	68.1	3
12	Programmable Fabrication of Multilayer Collagen Nanosheets of Defined Composition. <i>Methods in Molecular Biology</i> , 2018 , 1777, 221-232	1.4	1
11	Bioengineering of Sequence-Repetitive Polypeptides: Synthetic Routes to Protein-Based Materials of Novel Structure and Function 2011 , 915-938		1
10	Self-Assembly of Hydrogels From Elastin-Mimetic Block Copolymers. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 724, N8.1.1		0
9	Structures of synthetic helical filaments and tubes based on peptide and peptido-mimetic polymers.. <i>Quarterly Reviews of Biophysics</i> , 2022 , 1-103	7	0

- 8 Flagellin outer domain dimerization modulates motility in pathogenic and soil bacteria from viscous environments.. *Nature Communications*, **2022**, 13, 1422 17.4 ○
- 7 Phenol-soluble modulins PSM β and PSM α form nanotubes that are cross- β -amyloids.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2121586119^{11.5} ○
- 6 Cryo-EM Methods for the Structural Analysis of Biomimetic Materials based on Peptides and Proteins. *Microscopy and Microanalysis*, **2015**, 21, 375-376 0.5
- 5 In-Lens Cryo-HRSEM of a Freeze-Dried Coiled-Coil Protein Assembly. *Microscopy and Microanalysis*, **2006**, 12, 1118-1119 0.5
- 4 Force Spectroscopy of Biopolymers:Correlating Molecular Structure with Single Molecule Elasticity. *Microscopy and Microanalysis*, **2004**, 10, 204-205 0.5
- 3 Single Molecule Mechanical Testing of Mimetic-Elastin Molecules. *Microscopy and Microanalysis*, **2004**, 10, 1096-1097 0.5
- 2 Self-Assembly of a Modular Polypeptide based on Blocks of Silk-Mimetic and ElastinMimetic Sequences. *Materials Research Society Symposia Proceedings*, **2002**, 724, N3.8.1
- 1 Elastomeric Materials, Protein-Based: Structure \rightarrow Function Relationships3017-3034