Valeria Castelletto

List of Publications by Year
in descending order

124 papers	5,195 citations	61984 43 h-index	106344 65 g-index
131 all docs	131 docs citations	131 times ranked	5125 citing authors

#	Article	IF	Citations
1	Selfâ€assembling amphiphilic peptides. Journal of Peptide Science, 2014, 20, 453-467.	1.4	306
2	Self-Assembly and Hydrogelation of an Amyloid Peptide Fragment. Biochemistry, 2008, 47, 4597-4605.	2.5	265
3	Self-Assembly of Peptide Nanotubes in an Organic Solvent. Langmuir, 2008, 24, 8158-8162.	3.5	124
4	Hydrogelation of self-assembling RGD-based peptides. Soft Matter, 2011, 7, 1326-1333.	2.7	112
5	Melt Structure and its Transformation by Sequential Crystallization of the Two Blocks within Poly(L-lactide)-block-Poly(É›-caprolactone) Double Crystalline Diblock Copolymers. Macromolecular Chemistry and Physics, 2006, 207, 941-953.	2.2	106
6	Peptide based hydrogels for cancer drug release: modulation of stiffness, drug release and proteolytic stability of hydrogels by incorporating <scp>d</scp>-amino acid residue(s). Chemical Communications, 2016, 52, 5045-5048.	4.1	106
7	Self assembly of a model amphiphilic phenylalanine peptide/polyethylene glycol block copolymer in aqueous solution. Biophysical Chemistry, 2009, 141, 169-174.	2.8	105
8	Self-assembled arginine-coated peptide nanosheets in water. Chemical Communications, 2013, 49, 1850.	4.1	92
9	Influence of the Solvent on the Self-Assembly of a Modified Amyloid Beta Peptide Fragment. I. Morphological Investigation. Journal of Physical Chemistry B, 2009, 113, 9978-9987.	2.6	90
10	Fractionated Crystallization and Fractionated Melting of Confined PEO Microdomains in PB-<i>b</i>-PEO and PE-<i>b</i>-PEO Diblock Copolymers. Macromolecules, 2008, 41, 879-889.	4.8	87
11	Thermo-responsive Poly(methyl methacrylate)-block-poly(N-isopropylacrylamide) Block Copolymers Synthesized by RAFT Polymerization: Micellization and Gelation. Macromolecular Chemistry and Physics, 2006, 207, 1718-1726.	2.2	85
12	Helicalâ€Ribbon Formation by a Î²â€Amino Acid Modified Amyloid Î²â€Peptide Fragment. Angewandte Chemie - International Edition, 2009, 48, 2317-2320.	13.8	85
13	Fibrillisation of hydrophobically modified amyloid peptide fragments in an organic solvent. Soft Matter, 2007, 3, 1401.	2.7	84
14	Ordering on multiple lengthscales in a series of side group liquid crystal block copolymers containing a cholesteryl-based mesogen. Soft Matter, 2005, 1, 355.	2.7	79
15	Self-assembly of a peptide amphiphile: transition from nanotape fibrils to micelles. Soft Matter, 2013, 9, 3558.	2.7	78
16	Reversible helical unwinding transition of a self-assembling peptide amphiphile. Soft Matter, 2013, 9, 9290.	2.7	77
17	Tuning the Self-Assembly of the Bioactive Dipeptide <scp>l</scp>-Carnosine by Incorporation of a Bulky Aromatic Substituent. Langmuir, 2011, 27, 2980-2988.	3.5	67
18	Fibrillar superstructure from extended nanotapes formed by a collagen-stimulating peptide. Chemical Communications, 2010, 46, 9185.	4.1	66

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19	Structure of single-wall peptide nanotubes: in situ flow aligning X-ray diffraction. Chemical Communications, 2010, 46, 6270.	4.1	62
20	Self-Assembly of a Peptide Amphiphile Containing <scp>l</scp>-Carnosine and Its Mixtures with a Multilamellar Vesicle Forming Lipid. Langmuir, 2012, 28, 11599-11608.	3.5	61
21	Insights into the Molecular Architecture of a Peptide Nanotube Using FTIR and Solidâ€State NMR Spectroscopic Measurements on an Aligned Sample. Angewandte Chemie - International Edition, 2013, 52, 10537-10540.	13.8	59
22	A De Novo Virus-Like Topology for Synthetic Virions. Journal of the American Chemical Society, 2016, 138, 12202-12210.	13.7	59
23	Collagen Stimulating Effect of Peptide Amphiphile C₁₆â€“KTTKS on Human Fibroblasts. Molecular Pharmaceutics, 2013, 10, 1063-1069.	4.6	58
24	Peptide mediated formation of hierarchically organized solution and solid state polymer nanostructures. Faraday Discussions, 2005, 128, 29-41.	3.2	57
25	PEGylated Amyloid Peptide Nanocontainer Delivery and Release System. Langmuir, 2010, 26, 11624-11627.	3.5	57
26	The effect of pH on the self-assembly of a collagen derived peptide amphiphile. Soft Matter, 2013, 9, 6033.	2.7	57
27	Self-assembly of Fmoc-tetrapeptides based on the RGDS cell adhesion motif. Soft Matter, 2011, 7, 11405.	2.7	56
28	Coassembly in Binary Mixtures of Peptide Amphiphiles Containing Oppositely Charged Residues. Langmuir, 2013, 29, 5050-5059.	3.5	56
29	Peptide-Stabilized Emulsions and Gels from an Arginine-Rich Surfactant-like Peptide with Antimicrobial Activity. ACS Applied Materials & Interfaces, 2019, 11, 9893-9903.	8.0	56
30	Peptide-Based Gel in Environmental Remediation: Removal of Toxic Organic Dyes and Hazardous Pb²⁺ and Cd²⁺ Ions from Wastewater and Oil Spill Recovery. Langmuir, 2020, 36, 12942-12953.	3.5	56
31	Toll-like receptor agonist lipopeptides self-assemble into distinct nanostructures. Chemical Communications, 2014, 50, 15948-15951.	4.1	55
32	Interaction between a Cationic Surfactant-like Peptide and Lipid Vesicles and Its Relationship to Antimicrobial Activity. Langmuir, 2013, 29, 14246-14253.	3.5	54
33	Arginine-Containing Surfactant-Like Peptides: Interaction with Lipid Membranes and Antimicrobial Activity. Biomacromolecules, 2018, 19, 2782-2794.	5.4	54
34	Self-Assembly of PEGylated Peptide Conjugates Containing a Modified Amyloid Î²-Peptide Fragment. Langmuir, 2010, 26, 9986-9996.	3.5	53
35	Influence of Salt on the Self-Assembly of Two Model Amyloid Heptapeptides. Journal of Physical Chemistry B, 2010, 114, 8002-8008.	2.6	53
36	Multiple Lyotropic Polymorphism of a Poly(ethylene glycol)â€Peptide Conjugate in Aqueous Solution. Advanced Materials, 2008, 20, 4394-4397.	21.0	52

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37	Influence of End-Capping on the Self-Assembly of Model Amyloid Peptide Fragments. Journal of Physical Chemistry B, 2011, 115, 2107-2116.	2.6	52
38	Modulating self-assembly of a nanotape-forming peptideamphiphile with an oppositely charged surfactant. Soft Matter, 2012, 8, 217-226.	2.7	52
39	New RGD-peptide amphiphile mixtures containing a negatively charged diluent. Faraday Discussions, 2013, 166, 381.	3.2	51
40	Self-assembly in aqueous solution of a modified amyloid beta peptide fragment. Biophysical Chemistry, 2008, 138, 29-35.	2.8	49
41	Self-Assembled Arginine-Capped Peptide Bolaamphiphile Nanosheets for Cell Culture and Controlled Wettability Surfaces. Biomacromolecules, 2015, 16, 3180-3190.	5.4	49
42	Self-Assembly and Anti-Amyloid Cytotoxicity Activity of Amyloid beta Peptide Derivatives. Scientific Reports, 2017, 7, 43637.	3.3	47
43	Effect of Sequence Distribution on the Morphology, Crystallization, Melting, and Biodegradation of Poly(Îµ-caprolactone-<i>co</i>-Îµ-caprolactam) Copolymers. Macromolecules, 2009, 42, 6671-6681.	4.8	46
44	Self-Assembly of a Designed Alternating Arginine/Phenylalanine Oligopeptide. Langmuir, 2015, 31, 4513-4523.	3.5	46
45	Wormlike Micelle Formation and Flow Alignment of a Pluronic Block Copolymer in Aqueous Solution. Langmuir, 2007, 23, 6896-6902.	3.5	44
46	Self-assembly pathway of peptide nanotubes formed by a glutamatic acid-based bolaamphiphile. Chemical Communications, 2015, 51, 11634-11637.	4.1	44
47	Self-assembly of a model amphiphilic oligopeptide incorporating an arginine headgroup. Soft Matter, 2013, 9, 4794.	2.7	43
48	Self-Assembly of Peptide Bioconjugates: Selected Recent Research Highlights. Bioconjugate Chemistry, 2017, 28, 731-739.	3.6	43
49	Shear Alignment of Bola-Amphiphilic Arginine-Coated Peptide Nanotubes. Biomacromolecules, 2017, 18, 141-149.	5.4	42
50	Self-Assembly, Tunable Hydrogel Properties, and Selective Anti-Cancer Activity of a Carnosine-Derived Lipidated Peptide. ACS Applied Materials & Interfaces, 2019, 11, 33573-33580.	8.0	42
51	Selfâ€Assembly of a Modified Amyloid Peptide Fragment: pHâ€Responsiveness and Nematic Phase Formation. Macromolecular Bioscience, 2010, 10, 40-48.	4.1	40
52	Photopolymerization of Pluronic F127 diacrylate: a colloid-templated polymerization. Soft Matter, 2011, 7, 4928.	2.7	40
53	Bioactive films produced from self-assembling peptide amphiphiles as versatile substrates for tuning cell adhesion and tissue architecture in serum-free conditions. Journal of Materials Chemistry B, 2013, 1, 6157.	5.8	40
54	Alanine-rich amphiphilic peptide containing the RGD cell adhesion motif: a coating material for human fibroblast attachment and culture. Biomaterials Science, 2014, 2, 362-369.	5.4	40

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55	Selective Antibacterial Activity and Lipid Membrane Interactions of Arginine-Rich Amphiphilic Peptides. ACS Applied Bio Materials, 2020, 3, 1165-1175.	4.6	40
56	Effect of Stretching on the Structure of Cylinder- and Sphere-Forming Styreneâ^'Isopreneâ^'Styrene Block Copolymers. Macromolecules, 2009, 42, 5256-5265.	4.8	39
57	New Self-Assembling Multifunctional Templates for the Biofabrication and Controlled Self-Release of Cultured Tissue. Tissue Engineering - Part A, 2015, 21, 1772-1784.	3.1	39
58	Complex Formation of Bovine Serum Albumin with a Poly(ethylene glycol) Lipid Conjugate. Biomacromolecules, 2007, 8, 2244-2249.	5.4	38
59	Amino-Acid-Based Metallo-Hydrogel That Acts Like an Esterase. ACS Applied Bio Materials, 2018, 1, 1717-1724.	4.6	35
60	Alignment of a Model Amyloid Peptide Fragment in Bulk and at a Solid Surface. Journal of Physical Chemistry B, 2010, 114, 8244-8254.	2.6	33
61	Self-Assembly and Collagen-Stimulating Activity of a Peptide Amphiphile Incorporating a Peptide Sequence from Lumican. Langmuir, 2015, 31, 4490-4495.	3.5	33
62	Self-assembly of ultra-small micelles from amphiphilic lipopeptoids. Chemical Communications, 2017, 53, 2178-2181.	4.1	33
63	Halogenation dictates the architecture of amyloid peptide nanostructures. Nanoscale, 2017, 9, 9805-9810.	5.6	33
64	Selfâ€Assembly of the Cyclic Lipopeptide Daptomycin: Spherical Micelle Formation Does Not Depend on the Presence of Calcium Chloride. ChemPhysChem, 2016, 17, 2118-2122.	2.1	32
65	Hierarchical Self-Assembly of Histidine-Functionalized Peptide Amphiphiles into Supramolecular Chiral Nanostructures. Langmuir, 2017, 33, 7947-7956.	3.5	32
66	Self-Assembly of Palmitoyl Lipopeptides Used in Skin Care Products. Langmuir, 2013, 29, 9149-9155.	3.5	31
67	Capillary flow behavior of worm-like micelles studied by small-angle X-ray scattering and small angle light scattering. Polymers for Advanced Technologies, 2006, 17, 137-144.	3.2	30
68	Self-Assembly, Antimicrobial Activity, and Membrane Interactions of Arginine-Capped Peptide Bola-Amphiphiles. ACS Applied Bio Materials, 2019, 2, 2208-2218.	4.6	30
69	Supramolecular Hydrogel Formation in a Series of Self-Assembling Lipopeptides with Varying Lipid Chain Length. Biomacromolecules, 2017, 18, 2013-2023.	5.4	28
70	Slow-Release RGD-Peptide Hydrogel Monoliths. Langmuir, 2012, 28, 12575-12580.	3.5	25
71	Amyloid peptides incorporating a core sequence from the amyloid beta peptide and gamma amino acids: relating bioactivity to self-assembly. Chemical Communications, 2011, 47, 12470.	4.1	24
72	Self-Assembly of a Model Peptide Incorporating a Hexa-Histidine Sequence Attached to an Oligo-Alanine Sequence, and Binding to Gold NTA/Nickel Nanoparticles. Biomacromolecules, 2014, 15, 3412-3420.	5.4	24

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73	Hybrid membrane biomaterials from self-assembly in polysaccharide and peptide amphiphile mixtures: controllable structural and mechanical properties and antimicrobial activity. RSC Advances, 2017, 7, 8366-8375.	3.6	24
74	Tuning Chelation by the Surfactant-Like Peptide A₆H Using Predetermined pH Values. Biomacromolecules, 2014, 15, 591-598.	5.4	23
75	Nanosheet Formation by an Anionic Surfactant-like Peptide and Modulation of Self-Assembly through Ionic Complexation. Langmuir, 2016, 32, 10387-10393.	3.5	23
76	Self-Assembly of the Toll-Like Receptor Agonist Macrophage-Activating Lipopeptide MALP-2 and of Its Constituent Peptide. Biomacromolecules, 2016, 17, 631-640.	5.4	23
77	Nanostructure formation in poly(Î³-benzyl-l-glutamate)â€"poly(ethylene glycol)â€"poly(Î³-benzyl-l-glutamate) triblock copolymers in the solid state. Soft Matter, 2005, 1, 284.	2.7	22
78	Î²-Lactoglobulin Fibers under Capillary Flow. Biomacromolecules, 2007, 8, 77-83.	5.4	22
79	Self-assembly and bioactivity of a polymer/peptide conjugate containing the RGD cell adhesion motif and PEG. European Polymer Journal, 2013, 49, 2961-2967.	5.4	22
80	Amyloid and Hydrogel Formation of a Peptide Sequence from a Coronavirus Spike Protein. ACS Nano, 2022, 16, 1857-1867.	14.6	22
81	Control of strand registry by attachment of PEG chains to amyloid peptides influences nanostructure. Soft Matter, 2012, 8, 5434.	2.7	21
82	Self-Assembly of Minimal Peptoid Sequences. ACS Macro Letters, 2020, 9, 494-499.	4.8	21
83	Magnetic Field-Induced Alignment of Nanofibrous Supramolecular Membranes: A Molecular Design Approach to Create Tissue-like Biomaterials. ACS Applied Materials & Interfaces, 2020, 12, 22661-22672.	8.0	21
84	Influence of elastase on alanine-rich peptide hydrogels. Biomaterials Science, 2014, 2, 867-874.	5.4	20
85	Restructuring of Lipid Membranes by an Arginine-Capped Peptide Bolaamphiphile. Langmuir, 2019, 35, 1302-1311.	3.5	20
86	Amyloid Peptide Mixtures: Self-Assembly, Hydrogelation, Nematic Ordering, and Catalysts in Aldol Reactions. Langmuir, 2020, 36, 2767-2774.	3.5	19
87	Biomimetic triblock copolymer membranes: from aqueous solutions to solid supports. Soft Matter, 2011, 7, 1129-1138.	2.7	18
88	Supramolecular Peptide Nanofiber Morphology Affects Mechanotransduction of Stem Cells. Biomacromolecules, 2017, 18, 3114-3130.	5.4	18
89	Nanoscopic Structure of Complexes Formed between DNA and the Cell-Penetrating Peptide Penetratin. Journal of Physical Chemistry B, 2019, 123, 8861-8871.	2.6	18
90	Conformation and Aggregation of Selectively PEGylated and Lipidated Gastric Peptide Hormone Human PYY_{3â€"36}. Biomacromolecules, 2018, 19, 4320-4332.	5.4	17

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91	Crystallization and lamellar nanosheet formation of an aromatic dipeptoid. Chemical Communications, 2019, 55, 5867-5869.	4.1	17
92	Chain-End Modifications and Sequence Arrangements of Antimicrobial Peptoids for Mediating Activity and Nano-Assembly. Frontiers in Chemistry, 2020, 8, 416.	3.6	17
93	Self-assembly and intracellular delivery of DNA by a truncated fragment derived from the<i>Trojan</i>peptide<i>Penetratin</i>. Soft Matter, 2020, 16, 4746-4755.	2.7	17
94	Self-assembly of an amyloid peptide fragmentâ€“PEG conjugate: lyotropic phase formation and influence of PEG crystallization. Polymer Chemistry, 2010, 1, 453-459.	3.9	16
95	Multiple hydrogen bonds induce formation of nanoparticles with internal microemulsion structure by an amphiphilic copolymer. Soft Matter, 2011, 7, 10116.	2.7	16
96	Self-Assembly of a Catalytically Active Lipopeptide and Its Incorporation into Cubosomes. ACS Applied Bio Materials, 2019, 2, 3639-3647.	4.6	15
97	A peptide hydrogel derived from a fragment of human cardiac troponin C. Chemical Communications, 2016, 52, 4056-4059.	4.1	14
98	The Conformation and Aggregation of Proline-Rich Surfactant-Like Peptides. Journal of Physical Chemistry B, 2018, 122, 1826-1835.	2.6	14
99	Unravelling the role of amino acid sequence order in the assembly and function of the amyloid-Î² core. Chemical Communications, 2019, 55, 8595-8598.	4.1	14
100	Model self-assembling arginine-based tripeptides show selective activity against <i>Pseudomonas</i> bacteria. Chemical Communications, 2020, 56, 615-618.	4.1	14
101	Self-Assembly, Nematic Phase Formation, and Organocatalytic Behavior of a Proline-Functionalized Lipopeptide. ACS Applied Materials & Interfaces, 2020, 12, 13671-13679.	8.0	14
102	Alpha helical surfactant-like peptides self-assemble into pH-dependent nanostructures. Soft Matter, 2021, 17, 3096-3104.	2.7	13
103	Influence of a non-ionic amphiphilic copolymer on the self-assembly of a peptide amphiphile that forms nanotapes. Soft Matter, 2012, 8, 8608.	2.7	12
104	Supramolecular Threading of Peptide Hydrogel Fibrils. ACS Biomaterials Science and Engineering, 2018, 4, 2733-2738.	5.2	12
105	Melanin production by tyrosinase activity on a tyrosine-rich peptide fragment and pH-dependent self-assembly of its lipidated analogue. Organic and Biomolecular Chemistry, 2019, 17, 4543-4553.	2.8	12
106	Structural Study of BSA/Poly(ethylene glycol) Lipid Conjugate Complexes. Journal of Physical Chemistry B, 2007, 111, 11330-11336.	2.6	11
107	Spontaneous condensation in DNA-polystyrene- b-poly(l-lysine) polyelectrolyte block copolymer mixtures. European Physical Journal E, 2006, 20, 1-6.	1.6	10
108	A SAXS study of flow alignment of thermotropic liquid crystal mixtures. Liquid Crystals, 2009, 36, 435-442.	2.2	10

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109	Dynamics of shear-induced orientation transitions in block copolymers. Soft Matter, 2010, 6, 1941.	2.7	10
110	Self-Assembly of Telechelic Tyrosine End-Capped PEO and Poly(alanine) Polymers in Aqueous Solution. Biomacromolecules, 2016, 17, 1186-1197.	5.4	10
111	Methods to Characterize the Nanostructure and Molecular Organization of Amphiphilic Peptide Assemblies. Methods in Molecular Biology, 2018, 1777, 3-21.	0.9	10
112	Peptide nanotubes self-assembled from leucine-rich alpha helical surfactant-like peptides. Chemical Communications, 2020, 56, 11977-11980.	4.1	10
113	High potency of lipid conjugated TLR7 agonist requires nanoparticulate or liposomal formulation. European Journal of Pharmaceutical Sciences, 2018, 123, 268-276.	4.0	9
114	Nanostructure Formation and Cell Spheroid Morphogenesis of a Peptide Supramolecular Hydrogel. Langmuir, 2022, 38, 3434-3445.	3.5	9
115	A SAXS study of the structure of gels formed by mixtures of polyoxyalkylene triblock copolymers. Polymer International, 2007, 56, 88-92.	3.1	7
116	Thermally Regulated Reversible Formation of Vesicle-Like Assemblies by Hexaproline Amphiphiles. Journal of Physical Chemistry B, 2017, 121, 7443-7446.	2.6	7
117	Interactions of KLVFFâ€PEG Peptide Conjugate with Fibrinogen in Neutral Aqueous Solutions. Macromolecular Bioscience, 2008, 8, 1182-1189.	4.1	5
118	A Î²â€amino acid modified heptapeptide containing a designed recognition element disrupts fibrillization of the amyloid Î²â€peptide. Journal of Peptide Science, 2010, 16, 443-450.	1.4	4
119	Pressure Effects Revealed by Small Angle Neutron Scattering on Block Copolymer Gels. Langmuir, 2008, 24, 8319-8324.	3.5	2
120	Self-assembly of the anti-fungal polyene amphotericin B into giant helically-twisted nanotapes. Chemical Communications, 2015, 51, 17680-17683.	4.1	2
121	Interactions between lipid-free apolipoprotein-AI and a lipopeptide incorporating the RGDS cell adhesion motif. Nanoscale, 2015, 7, 171-178.	5.6	2
122	Self-Assembly of Angiotensin-Converting Enzyme Inhibitors Captopril and Lisinopril and Their Crystal Structures. Langmuir, 2021, 37, 9170-9178.	3.5	2
123	Nematic and Columnar Ordering of a PEG-Peptide Conjugate in Aqueous Solution. Chemistry - A European Journal, 2008, 14, 11268-11268.	3.3	1
124	Osmotic pressure and aggregate shape in BSA/poly(ethylene glycol)-lipid/Dextran solutions. Biophysical Chemistry, 2008, 134, 34-38.	2.8	1