

Roberto Fattorusso

List of Publications by Year in descending order

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119
papers

2,815
citations

159358

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h-index

233125

45
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119
all docs

119
docs citations

119
times ranked

3549
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting angiogenesis: Structural characterization and biological properties of a de novo engineered VEGF mimicking peptide. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14215-14220.	3.3	242
2	Critical DNA Binding Interactions of the Insulator Protein CTCF. Journal of Biological Chemistry, 2007, 282, 33336-33345.	1.6	139
3	Efficient synthetic inhibitors of anthrax lethal factor. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9499-9504.	3.3	126
4	NMR-based techniques in the hit identification and optimisation processes. Expert Opinion on Therapeutic Targets, 2004, 8, 597-611.	1.5	69
5	The Arabidopsis SUPERMAN protein is able to specifically bind DNA through its single Cys2-His2 zinc finger motif. Nucleic Acids Research, 2002, 30, 4945-4951.	6.5	63
6	The structural role of the zinc ion can be dispensable in prokaryotic zinc-finger domains. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6933-6938.	3.3	54
7	The Inorganic Perspective of Nerve Growth Factor: Interactions of Cu ²⁺ and Zn ²⁺ with the N-Terminus Fragment of Nerve Growth Factor Encompassing the Recognition Domain of the TrkA Receptor. Chemistry - A European Journal, 2011, 17, 3726-3738.	1.7	52
8	The prokaryotic zinc-finger: structure, function and comparison with the eukaryotic counterpart. FEBS Journal, 2015, 282, 4480-4496.	2.2	51
9	Design, structural and functional characterization of a Temporin-1b analog active against Gram-negative bacteria. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 3767-3775.	1.1	50
10	NMR structure of the human oncofoetal fibronectin ED-B domain, a specific marker for angiogenesis. Structure, 1999, 7, 381-390.	1.6	49
11	Neuronal High-Affinity Sodium-Dependent Glutamate Transporters (EAATs): Targets for the Development of Novel Therapeutics Against Neurodegenerative Diseases. Current Pharmaceutical Design, 2003, 9, 599-625.	0.9	47
12	The prokaryotic Cys ₂ His ₂ zinc-finger adopts a novel fold as revealed by the NMR structure of <i>Agrobacterium tumefaciens</i> Ros DNA-binding domain. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17341-17346.	3.3	47
13	Analysis of a Membrane Interacting Region of Herpes Simplex Virus Type 1 Glycoprotein H. Journal of Biological Chemistry, 2008, 283, 29993-30009.	1.6	47
14	Ubiquitin binds the amyloid β peptide and interferes with its clearance pathways. Chemical Science, 2019, 10, 2732-2742.	3.7	46
15	A New Ligand for Immunoglobulin G Subdomains by Screening of a Synthetic Peptide Library. ChemBioChem, 2005, 6, 1242-1253.	1.3	44
16	Structural Determinants of the Unusual Helix Stability of a De Novo Engineered Vascular Endothelial Growth Factor (VEGF) Mimicking Peptide. Chemistry - A European Journal, 2008, 14, 4164-4166.	1.7	42
17	Structural Zn(II) Implies a Switch from Fully Cooperative to Partly Downhill Folding in Highly Homologous Proteins. Journal of the American Chemical Society, 2013, 135, 5220-5228.	6.6	41
18	NMR Structure of the Single QALGGH Zinc Finger Domain from the Arabidopsis thaliana SUPERMAN Protein. ChemBioChem, 2003, 4, 171-180.	1.3	40

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19	Discovery of a Novel Class of Reversible Non-Peptide Caspase Inhibitors via a Structure-Based Approach. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 1649-1656.	2.9	40
20	Characterization of a Designed Vascular Endothelial Growth Factor Receptor Antagonist Helical Peptide with Antiangiogenic Activity in Vivo. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 1391-1400.	2.9	40
21	Zinc to cadmium replacement in the <i>A. thaliana</i> SUPERMAN Cys ₂ His ₂ zinc finger induces structural rearrangements of typical DNA base determinant positions. <i>Biopolymers</i> , 2011, 95, 801-810.	1.2	38
22	Zinc to cadmium replacement in the prokaryotic zinc-finger domain. <i>Metallomics</i> , 2014, 6, 96-104.	1.0	37
23	Structural Basis of a Temporin 1b Analogue Antimicrobial Activity against Gram Negative Bacteria Determined by CD and NMR Techniques in Cellular Environment. <i>ACS Chemical Biology</i> , 2015, 10, 965-969.	1.6	37
24	Alpha- and Beta-Cyclodextrin Inclusion Complexes with 5-Fluorouracil: Characterization and Cytotoxic Activity Evaluation. <i>Molecules</i> , 2016, 21, 1644.	1.7	37
25	A Novel Type of Zinc Finger DNA Binding Domain in the <i>Agrobacterium tumefaciens</i> Transcriptional Regulator RosA. <i>Biochemistry</i> , 2006, 45, 10394-10405.	1.2	34
26	Zinc(II) Complexes of Ubiquitin: Speciation, Affinity and Binding Features. <i>Chemistry - A European Journal</i> , 2011, 17, 11596-11603.	1.7	34
27	Structure and Orientation of the gH625-644 Membrane Interacting Region of Herpes Simplex Virus Type 1 in a Membrane Mimetic System. <i>Biochemistry</i> , 2012, 51, 3121-3128.	1.2	34
28	Neuroblastoma tumorigenesis is regulated through the Nm23-H1/h-Prune C-terminal interaction. <i>Scientific Reports</i> , 2013, 3, 1351.	1.6	34
29	Î²-Hairpin Peptide That Targets Vascular Endothelial Growth Factor (VEGF) Receptors. <i>Journal of Biological Chemistry</i> , 2011, 286, 41680-41691.	1.6	32
30	Biochemical and Structural Analysis of the Binding Determinants of a Vascular Endothelial Growth Factor Receptor Peptidic Antagonist. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 4428-4440.	2.9	31
31	Traditional Chinese medicines with caspase-inhibitory activity. <i>Phytomedicine</i> , 2006, 13, 16-22.	2.3	29
32	Insights into the anticancer properties of the first antimicrobial peptide from Archaea. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2155-2164.	1.1	29
33	Structural Analysis of a Helical Peptide Unfolding Pathway. <i>Chemistry - A European Journal</i> , 2010, 16, 5400-5407.	1.7	27
34	Zinc(II) Interactions with Brain-Derived Neurotrophic Factor N-Terminal Peptide Fragments: Inorganic Features and Biological Perspectives. <i>Inorganic Chemistry</i> , 2013, 52, 11075-11083.	1.9	27
35	Cationic porphyrins are tunable gatekeepers of the 20S proteasome. <i>Chemical Science</i> , 2016, 7, 1286-1297.	3.7	27
36	The insulin degrading enzyme activates ubiquitin and promotes the formation of K48 and K63 diubiquitin. <i>Chemical Communications</i> , 2015, 51, 15724-15727.	2.2	26

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37	A new cryptic host defense peptide identified in human 11-hydroxysteroid dehydrogenase-1 β -like: from in silico identification to experimental evidence. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 2342-2353.	1.1	26
38	Genetic and epigenetic mutations affect the DNA binding capability of human ZFP57 in transient neonatal diabetes type 1. <i>FEBS Letters</i> , 2013, 587, 1474-1481.	1.3	25
39	Deciphering the zinc coordination properties of the prokaryotic zinc finger domain: The solution structure characterization of Ros87 H42A functional mutant. <i>Journal of Inorganic Biochemistry</i> , 2014, 131, 30-36.	1.5	25
40	Functional Binding Surface of a β -Hairpin VEGF Receptor Targeting Peptide Determined by NMR Spectroscopy in Living Cells. <i>Chemistry - A European Journal</i> , 2015, 21, 91-95.	1.7	25
41	Structural and functional studies of Stf76 from the <i>Sulfolobus islandicus</i> plasmid "virus pSSVx: a novel peculiar member of the winged helix "turn" helix transcription factor family. <i>Nucleic Acids Research</i> , 2014, 42, 5993-6011.	6.5	24
42	Structural and biochemical insights of CypA and AIF interaction. <i>Scientific Reports</i> , 2017, 7, 1138.	1.6	24
43	VEGFR Recognition Interface of a Proangiogenic VEGF-Mimetic Peptide Determined In Vitro and in the Presence of Endothelial Cells by NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2018, 24, 11461-11466.	1.7	24
44	An Experimentally Tested Scenario for the Structural Evolution of Eukaryotic Cys2His2 Zinc Fingers from Eubacterial Ros Homologs. <i>Molecular Biology and Evolution</i> , 2013, 30, 1504-1513.	3.5	23
45	A Combined NMR and Computational Approach to Determine the RGD β -Sheet β -Integrin Recognition Mode in Isolated Cell Membranes. <i>Chemistry - A European Journal</i> , 2016, 22, 681-693.	1.7	23
46	β -Alanine containing cyclic peptides with turned structure: The pseudo type II β -turn. VI. <i>Biopolymers</i> , 1994, 34, 1517-1526.	1.2	22
47	Solution Structure and Backbone Dynamics of the K18G/R82E <i>Alcyclobacillus acidocaldarius</i> Thioredoxin Mutant: A Molecular Analysis of Its Reduced Thermal Stability. <i>Biochemistry</i> , 2004, 43, 6043-6058.	1.2	22
48	VEGFR1 β 2 in drug discovery: Expression and molecular characterization. <i>Biopolymers</i> , 2010, 94, 800-809.	1.2	22
49	Metastatic group 3 medulloblastoma is driven by PRUNE1 targeting NME1 "TGF- β " OTX2 "SNAIL via PTEN inhibition. <i>Brain</i> , 2018, 141, 1300-1319.	3.7	22
50	Ligand-Based NMR Study of C-X-C Chemokine Receptor Type 4 (CXCR4) "Ligand Interactions on Living Cancer Cells. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 2910-2923.	2.9	22
51	β -Hairpin stabilization through an interstrand triazole bridge. <i>Chemical Communications</i> , 2012, 48, 762-764.	2.2	21
52	Design, structural and biological characterization of a VEGF inhibitor β -hairpin-constrained peptide. <i>European Journal of Medicinal Chemistry</i> , 2014, 73, 210-216.	2.6	21
53	Miniaturizing VEGF: Peptides mimicking the discontinuous VEGF receptor-binding site modulate the angiogenic response. <i>Scientific Reports</i> , 2016, 6, 31295.	1.6	21
54	Unveiling a VEGF-mimetic peptide sequence in the IQGAP1 protein. <i>Molecular BioSystems</i> , 2017, 13, 1619-1629.	2.9	21

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55	A crystal structure with features of an antiparallel β -pleated sheet. <i>Biopolymers</i> , 1994, 34, 1463-1468.	1.2	20
56	β -Alanine containing cyclic peptides with predetermined turned structure. V. <i>Biopolymers</i> , 1994, 34, 1505-1515.	1.2	19
57	Mixed conformation in C α , β -disubstituted tripeptides: X-ray crystal structures of Z-Aib-Dph-Gly-Ome and Bz-Dph-Dph-Gly-Ome. <i>Biopolymers</i> , 1994, 34, 1595-1604.	1.2	18
58	Targeting Zinc Finger Domains with Small Molecules: Solution Structure and Binding Studies of the RanBP2 α -Type Zinc Finger of RBM5. <i>ChemBioChem</i> , 2011, 12, 2837-2845.	1.3	18
59	Towards understanding the molecular recognition process in prokaryotic zinc-finger domain. <i>European Journal of Medicinal Chemistry</i> , 2015, 91, 100-108.	2.6	18
60	The (unusual) aspartic acid in the metal coordination sphere of the prokaryotic zinc finger domain. <i>Journal of Inorganic Biochemistry</i> , 2016, 161, 91-98.	1.5	18
61	Folding mechanisms steer the amyloid fibril formation propensity of highly homologous proteins. <i>Chemical Science</i> , 2018, 9, 3290-3298.	3.7	18
62	Molecular strategies to replace the structural metal site in the prokaryotic zinc finger domain. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 497-504.	1.1	17
63	Ni(II), Hg(II), and Pb(II) Coordination in the Prokaryotic Zinc-Finger Ros87. <i>Inorganic Chemistry</i> , 2019, 58, 1067-1080.	1.9	17
64	Defect peptide chemistry: Perturbations in the structure of a homopentapeptide induced by a guest residue interrupting side-chain regularity. <i>Biopolymers</i> , 1994, 34, 1409-1418.	1.2	16
65	C-terminal truncation of Vascular Endothelial Growth Factor mimetic helical peptide preserves structural and receptor binding properties. <i>Biochemical and Biophysical Research Communications</i> , 2012, 424, 290-294.	1.0	16
66	Structural investigation of the VEGF receptor interaction with a helical antagonist peptide. <i>Journal of Peptide Science</i> , 2013, 19, 214-219.	0.8	16
67	Co(II) Coordination in Prokaryotic Zinc Finger Domains as Revealed by UV-Vis Spectroscopy. <i>Bioinorganic Chemistry and Applications</i> , 2017, 2017, 1-7.	1.8	16
68	MucR binds multiple target sites in the promoter of its own gene and is a heat α -stable protein: Is MucR a H α -NS α -like protein?. <i>FEBS Open Bio</i> , 2018, 8, 711-718.	1.0	15
69	Pyrazolones Activate the Proteasome by Gating Mechanisms and Protect Neuronal Cells from β -Amyloid Toxicity. <i>ChemMedChem</i> , 2020, 15, 302-316.	1.6	15
70	Identifying the region responsible for <i>Brucella abortus</i> MucR higher-order oligomer formation and examining its role in gene regulation. <i>Scientific Reports</i> , 2018, 8, 17238.	1.6	14
71	1,2,3 α -Triazole Bridge as Conformational Constrain in β -Hairpin Peptides: Analysis of Hydrogen α -Bonded Positions. <i>Chemistry - A European Journal</i> , 2016, 22, 5534-5537.	1.7	13
72	Synthesis and solution characterization of a porphyrin-CCK8 conjugate. <i>Journal of Peptide Science</i> , 2001, 7, 386-394.	0.8	12

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73	An NMR and molecular dynamics investigation of the avian prion hexarepeat conformational features in solution. <i>Chemical Physics Letters</i> , 2007, 442, 110-118.	1.2	12
74	NMR assignments of the DNA binding domain of Ml4 protein from <i>Mesorhizobium loti</i> . <i>Biomolecular NMR Assignments</i> , 2010, 4, 55-57.	0.4	12
75	Mapping Functional Interaction Sites of Human Prune C-terminal Domain by NMR Spectroscopy in Human Cell Lysates. <i>Chemistry - A European Journal</i> , 2013, 19, 12217-12220.	1.7	12
76	Structural Insight of the Full-Length Ros Protein: A Prototype of the Prokaryotic Zinc-Finger Family. <i>Scientific Reports</i> , 2020, 10, 9283.	1.6	11
77	Design of metal ion binding peptides. <i>Biopolymers</i> , 1995, 37, 401-410.	1.2	10
78	NMR backbone dynamics studies of human PED/PEA15 outline protein functional sites. <i>FEBS Journal</i> , 2010, 277, 4229-4240.	2.2	10
79	Molecular basis of the PED/PEA15 interaction with the C-terminal fragment of phospholipase D1 revealed by NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1572-1580.	1.1	10
80	Long range Trp-Trp interaction initiates the folding pathway of a pro-angiogenic β^2 -hairpin peptide. <i>Scientific Reports</i> , 2015, 5, 16651.	1.6	10
81	Nociceptin reduces the inflammatory immune microenvironment in a conventional murine model of airway hyperresponsiveness. <i>Clinical and Experimental Allergy</i> , 2017, 47, 208-216.	1.4	10
82	12. Zinc Fingers. , 2020, 20, 415-436.		10
83	Determination of the Dihedral Angle γ Based on J-Coupling Measurements in $^{15}\text{N}/^{13}\text{C}$ -Labeled Proteins. <i>Journal of the American Chemical Society</i> , 1998, 120, 6824-6825.	6.6	8
84	Conformational Features of Human Melanin-Concentrating Hormone: An NMR and Computational Analysis. <i>ChemBioChem</i> , 2003, 4, 73-81.	1.3	8
85	The preferred solid-state conformation of $(\text{I}\pm\text{Me})\text{Trp}$ peptides. <i>International Journal of Peptide and Protein Research</i> , 1995, 45, 70-77.	0.1	8
86	Conformational stabilization of a β^2 -hairpin through a triazole-tryptophan interaction. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 787-795.	1.5	8
87	Binding mode of AIF(370-394) peptide to CypA: insights from NMR, label-free and molecular docking studies. <i>Biochemical Journal</i> , 2018, 475, 2377-2393.	1.7	8
88	Substitution of the Native Zn(II) with Cd(II), Co(II) and Ni(II) Changes the Downhill Unfolding Mechanism of Ros87 to a Completely Different Scenario. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8285.	1.8	8
89	Synthesis, conformational analysis and immunological activity of β^2 -Phe-substituted Cyclinopeptide A analogues. <i>Journal of Peptide Science</i> , 2009, 15, 166-174.	0.8	7
90	Probing the Residual Structure in Avian Prion Hexarepeats by CD, NMR and MD Techniques. <i>Molecules</i> , 2013, 18, 11467-11484.	1.7	7

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91	FRET-Protease-Coupled Peptidyl-Prolyl cis-trans Isomerase Assay. <i>Journal of Biomolecular Screening</i> , 2016, 21, 701-712.	2.6	7
92	Deciphering RGDechi peptide's $\alpha 5 \beta 1$ integrin interaction mode in isolated cell membranes. <i>Peptide Science</i> , 2018, 110, e24065.	1.0	7
93	Conformational studies of RGDechi peptide by natural abundance NMR spectroscopy. <i>Journal of Peptide Science</i> , 2019, 25, e3166.	0.8	7
94	Cooperative Binding of the Cationic Porphyrin Tris-T4 Enhances Catalytic Activity of 20S Proteasome Unveiling a Complex Distribution of Functional States. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7190.	1.8	7
95	Insight into conformational modification of alpha-synuclein in the presence of neuronal whole cells and of their isolated membranes. <i>FEBS Letters</i> , 2015, 589, 798-804.	1.3	6
96	Selective Targeting of $\alpha 5 \beta 1$ Integrin in HepG2 Cell Line by RGDechi15D Peptide. <i>Molecules</i> , 2020, 25, 4298.	1.7	6
97	$[Re(H_2O)_3(CO)_3]^+$ Complexed with Histidine and Imidazole in Aqueous Solution: Speciation, Affinity and Binding Features. <i>ChemistrySelect</i> , 2016, 1, 3739-3744.	0.7	5
98	Ubiquitin Associates with the N-terminal Domain of Nerve Growth Factor: The Role of Copper(II) Ions. <i>Chemistry - A European Journal</i> , 2016, 22, 17767-17775.	1.7	5
99	The change of conditions does not affect Ros87 downhill folding mechanism. <i>Scientific Reports</i> , 2020, 10, 21067.	1.6	5
100	Design, Optimization, and Structural Characterization of an Apoptosis-Inducing Factor Peptide Targeting Human Cyclophilin A to Inhibit Apoptosis Inducing Factor-Mediated Cell Death. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 11445-11459.	2.9	5
101	Hemoprotein models based on a covalent helix-heme-helix sandwich 4. Discrimination of paramagnetic Fe(III)-Mimochrome I ⁺ and I ⁻ isomers by NMR spectroscopy. <i>Inorganica Chimica Acta</i> , 1998, 278, 76-82.	1.2	4
102	Insight into the structural and functional features of myoglobin from <i>Hystrix cristata</i> L. and <i>Rangifer tarandus</i> L.. <i>RSC Advances</i> , 2015, 5, 26388-26401.	1.7	4
103	SPR and NMR characterization of the molecular interaction between A9 peptide and a model system of HER2 receptor: A fragment approach for selecting peptide structures specific for their target. <i>Journal of Peptide Science</i> , 2020, 26, e3231.	0.8	4
104	Metabolic and conformational stabilization of a VEGF-mimetic beta-hairpin peptide by click-chemistry. <i>European Journal of Medicinal Chemistry</i> , 2021, 222, 113575.	2.6	4
105	New synthetic tools for peptide-tetraphenylporphyrin derivatives. <i>International Journal of Peptide Research and Therapeutics</i> , 1998, 5, 269-276.	0.1	3
106	Structure and biological activity of a conformational constrained apolipoprotein A-I-derived helical peptide targeting the protein haptoglobin. <i>RSC Advances</i> , 2014, 4, 51353-51361.	1.7	3
107	Human Recombinant VEGFR2D4 Biochemical Characterization to Investigate Novel Anti-VEGFR2D4 Antibodies for Allosteric Targeting of VEGFR2. <i>Molecular Biotechnology</i> , 2019, 61, 513-520.	1.3	3
108	Probing the helical stability in a VEGF-mimetic peptide. <i>Bioorganic Chemistry</i> , 2021, 116, 105379.	2.0	3

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109	Biochemical and Conformational Characterization of Recombinant VEGFR2 Domain 7. <i>Molecular Biotechnology</i> , 2019, 61, 860-872.	1.3	2
110	Screening a Molecular Fragment Library to Modulate the PED/PEA15-Phospholipase D1 Interaction in Cellular Lysate Environments. <i>ACS Chemical Biology</i> , 2021, 16, 2798-2807.	1.6	2
111	Synthetic peptides mimicking the interleukin-6/gp 130 interaction: a two-helix bundle system. Design and conformational studies. <i>Journal of Peptide Science</i> , 2003, 9, 90-105.	0.8	1
112	Coordination of a bis-histidine-oligopeptide to Re(<i>sc</i>) and Ga(<i>sc</i>) in aqueous solution. <i>Dalton Transactions</i> , 2019, 48, 15184-15191.	1.6	1
113	A novel approach for studying receptor-ligand interactions on living cells surface by using NUS/T1ρ-NMR methodologies combined with computational techniques: The RGDechi15D- $\hat{\pm}\hat{v}\hat{1}^25$ integrin complex. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 3303-3318.	1.9	1
114	Peptide-chelating agent conjugate for selective targeting of somatostatin receptor type 1: Synthesis and characterization. <i>Biopolymers</i> , 2004, 76, 527-534.	1.2	0
115	A New Ligand for Immunoglobulin G Subdomains by Screening of a Synthetic Peptide Library. <i>ChemBioChem</i> , 2005, 6, 1307-1307.	1.3	0
116	Structural characterization of the thermal unfolding pathway of human VEGFR1 D2 domain. <i>FEBS Journal</i> , 2022, 289, 1591-1602.	2.2	0
117	Design and synthesis of a porphyrin-linked cholecystokinin analog (CCK-9) as a diagnostic radiopharmaceutical. <i>Nuclear Medicine Communications</i> , 2000, 21, 587.	0.5	0
118	A second polymorph of a helical decapeptide. <i>Peptide Research</i> , 1994, 7, 55-9.	0.2	0
119	Modulation of the 20S Proteasome Activity by Porphyrin Derivatives Is Steered through Their Charge Distribution. <i>Biomolecules</i> , 2022, 12, 741.	1.8	0