Angela Lombardi

List of Publications by Year in Descending Order

139 papers	4,440 citations	35 h-index	62 g-index
157 ext. papers	4,875 ext. citations	6.7 avg, IF	5.08 L-index

#	Paper	IF	Citations
139	A cobalt mimochrome for photochemical hydrogen evolution from neutral water.. *Journal of Inorganic Biochemistry*, **2022**, 230, 111753	4.2	1
138	Oxidative dehalogenation of trichlorophenol catalyzed by a promiscuous artificial heme-enzyme.. *RSC Advances*, **2022**, 12, 12947-12956	3.7	2
137	Novel Retro-Inverso Peptide Antibiotic Efficiently Released by a Responsive Hydrogel-Based System. *Biomedicines*, **2022**, 10, 1301	4.8	0
136	Highly Selective Indole Oxidation Catalyzed by a Mn-Containing Artificial Mini-Enzyme. *ACS Catalysis*, **2021**, 11, 9407-9417	13.1	7
135	Histidine orientation in artificial peroxidase regioisomers as determined by paramagnetic NMR shifts. *Chemical Communications*, **2021**, 57, 990-993	5.8	5
134	Active targeting of cancer cells by CD44 binding peptide-functionalized oil core-based nanocapsules.. *RSC Advances*, **2021**, 11, 24487-24499	3.7	0
133	Clickable artificial heme-peroxidases for the development of functional nanomaterials. *Biotechnology and Applied Biochemistry*, **2020**, 67, 549-562	2.8	6
132	Similarities and differences for membranotropic action of three unnatural antimicrobial peptides. *Journal of Peptide Science*, **2020**, 26, e3270	2.1	2
131	Tuning Mechanism through Buffer Dependence of Hydrogen Evolution Catalyzed by a Cobalt Mini-enzyme. *Biochemistry*, **2020**, 59, 1289-1297	3.2	22
130	Use of an Artificial Miniaturized Enzyme in Hydrogen Peroxide Detection by Chemiluminescence. *Sensors*, **2020**, 20,	3.8	9
129	Mimochrome, a metalloporphyrin-based catalytic Swiss knife*Biotechnology and Applied Biochemistry*, **2020**, 67, 495-515	2.8	16
128	Allosteric cooperation in a de novo-designed two-domain protein. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 33246-33253	11.5	15
127	De Novo Design of Four-Helix Bundle Metalloproteins: One Scaffold, Diverse Reactivities. *Accounts of Chemical Research*, **2019**, 52, 1148-1159	24.3	66
126	Engineering Metalloprotein Functions in Designed and Native Scaffolds. *Trends in Biochemical Sciences*, **2019**, 44, 1022-1040	10.3	50
125	Oxidation catalysis by iron and manganese porphyrins within enzyme-like cages. *Biopolymers*, **2018**, 109, e23107	2.2	25
124	De Novo Design of Tetranuclear Transition Metal Clusters Stabilized by Hydrogen-Bonded Networks in Helical Bundles. *Journal of the American Chemical Society*, **2018**, 140, 1294-1304	16.4	28
123	Direct detection of organophosphate compounds in water by a fluorescence-based biosensing device. *Sensors and Actuators B: Chemical*, **2018**, 255, 3257-3266	8.5	13

122	Unveiling the structure of a novel artificial heme-enzyme with peroxidase-like activity: A theoretical investigation. *Biopolymers*, **2018**, 109, e23225	2.2	11
121	Exploring the role of unnatural amino acids in antimicrobial peptides. *Scientific Reports*, **2018**, 8, 8888	4.9	46
120	Enhancement of Peroxidase Activity in Artificial Mimochrome VI Catalysts through Rational Design. *ChemBioChem*, **2018**, 19, 1823-1826	3.8	27
119	Mn-Mimochrome VIa: An Artificial Metalloenzyme With Peroxygenase Activity. *Frontiers in Chemistry*, **2018**, 6, 590	5	18
118	Fluorescent peptide dH3w: A sensor for environmental monitoring of mercury (II). *PLoS ONE*, **2018**, 13, e0204164	3.7	8
117	Artificial Heme Enzymes for the Construction of Gold-Based Biomaterials. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	10
116	Spectroscopic and metal binding properties of a de novo metalloprotein binding a tetrazinc cluster. *Biopolymers*, **2018**, 109, e23339	2.2	11
115	Hydrogen evolution from water catalyzed by cobalt-mimochrome VI*a, a synthetic mini-protein. *Chemical Science*, **2018**, 9, 8582-8589	9.4	42
114	Novel human bioactive peptides identified in Apolipoprotein B: Evaluation of their therapeutic potential. *Biochemical Pharmacology*, **2017**, 130, 34-50	6	48
113	Production of human pro-relaxin H2 in the yeast Pichia pastoris. *BMC Biotechnology*, **2017**, 17, 4	3.5	0
112	A De Novo Heterodimeric Due Ferri Protein Minimizes the Release of Reactive Intermediates in Dioxygen-Dependent Oxidation. *Angewandte Chemie - International Edition*, **2017**, 56, 15580-15583	16.4	25
111	A De Novo Heterodimeric Due Ferri Protein Minimizes the Release of Reactive Intermediates in Dioxygen-Dependent Oxidation. *Angewandte Chemie*, **2017**, 129, 15786-15786	3.6	3
110	Identification of novel direct protein-protein interactions by irradiating living cells with femtosecond UV laser pulses. *Biochemical and Biophysical Research Communications*, **2017**, 492, 67-73	3.4	6
109	Nano-in-Nano Approach for Enzyme Immobilization Based on Block Copolymers. *ACS Applied Materials & Interfaces*, **2017**, 9, 29318-29327	9.5	18
108	A Quartz Crystal Microbalance Immunosensor for Stem Cell Selection and Extraction. *Sensors*, **2017**, 17,	3.8	14
107	Femtosecond UV-laser pulses to unveil protein-protein interactions in living cells. *Cellular and Molecular Life Sciences*, **2016**, 73, 637-48	10.3	25
106	Immune-modulating effects of bevacizumab in metastatic non-small-cell lung cancer patients. *Cell Death Discovery*, **2016**, 2, 16025	6.9	47
105	Designing Covalently Linked Heterodimeric Four-Helix Bundles. *Methods in Enzymology*, **2016**, 580, 471-497	2.7	15

104	Inactivation of MSMEG_0412 gene drastically affects surface related properties of Mycobacterium smegmatis. *BMC Microbiology*, **2016**, 16, 267	4.5	6
103	Design and engineering of artificial oxygen-activating metalloenzymes. *Chemical Society Reviews*, **2016**, 45, 5020-54	58.5	128
102	An artificial heme-enzyme with enhanced catalytic activity: evolution, functional screening and structural characterization. *Organic and Biomolecular Chemistry*, **2015**, 13, 4859-68	3.9	31
101	Metalloproteins: Simple structure, complex function. *Nature Chemical Biology*, **2015**, 11, 760-1	11.7	7
100	Branched porphyrins as functional scaffolds for multisite bioconjugation. *Biotechnology and Applied Biochemistry*, **2015**, 62, 383-92	2.8	3
99	Artificial Diiron Enzymes with a De Novo Designed Four-Helix Bundle Structure. *European Journal of Inorganic Chemistry*, **2015**, 2015, 3352-3352	2.3	2
98	Artificial Diiron Enzymes with a De Novo Designed Four-Helix Bundle Structure. *European Journal of Inorganic Chemistry*, **2015**, 2015, 3371-3390	2.3	50
97	Spectroelectrochemistry of Fe(III)- and Co(III)-mimochrome VI artificial enzymes immobilized on mesoporous ITO electrodes. *Chemical Communications*, **2014**, 50, 1894-6	5.8	17
96	Artificial heme-proteins: determination of axial ligand orientations through paramagnetic NMR shifts. *Chemical Communications*, **2014**, 50, 3852-5	5.8	14
95	Crystal structure of an amphiphilic foldamer reveals a 48-mer assembly comprising a hollow truncated octahedron. *Nature Communications*, **2014**, 5, 3581	17.4	11
94	Evaluation of the oligosaccharide composition of commercial follicle stimulating hormone preparations. *Electrophoresis*, **2013**, 34, 2394-406	3.6	16
93	DE NOVO Design of Protein Cages to Accommodate Metal Cofactors **2013**, 43-85		3
92	De novo design, synthesis and characterisation of MP3, a new catalytic four-helix bundle hemeprotein. *Chemistry - A European Journal*, **2012**, 18, 15960-71	4.8	28
91	Design and characterization of a peptide mimotope of the HIV-1 gp120 bridging sheet. *International Journal of Molecular Sciences*, **2012**, 13, 5674-99	6.3	21
90	A heme-peptide metalloenzyme mimetic with natural peroxidase-like activity. *Chemistry - A European Journal*, **2011**, 17, 4444-53	4.8	62
89	Redox and electrocatalytic properties of mimochrome VI, a synthetic heme peptide adsorbed on gold. *Langmuir*, **2010**, 26, 17831-5	4	26
88	Spectroscopic and metal-binding properties of DF3: an artificial protein able to accommodate different metal ions. *Journal of Biological Inorganic Chemistry*, **2010**, 15, 717-28	3.7	24
87	A FRET-based biosensor for NO detection. *Journal of Inorganic Biochemistry*, **2010**, 104, 619-24	4.2	22

86	Non coded C□disubstituted amino acids. *International Journal of Peptide and Protein Research*, **2009**, 41, 15-20		8
85	Conformational versatility of the N□acylated tripeptide amide tail of oxytocin. *International Journal of Peptide and Protein Research*, **2009**, 42, 459-465		17
84	An artificial di-iron oxo-protein with phenol oxidase activity. *Nature Chemical Biology*, **2009**, 5, 882-4	11.7	152
83	Diiron-containing metalloproteins: Developing functional models. *Comptes Rendus Chimie*, **2007**, 10, 703-720	2.7	39
82	Hemoprotein Models Based on a Covalent Helix□Heme□Helix Sandwich: 1. Design, Synthesis, and Characterization. *Chemistry - A European Journal*, **2006**, 3, 340-349	4.8	57
81	Hemoprotein Models Based on a Covalent Helix□Heme□Helix Sandwich: 2. Structural Characterization of CoIII Mimochrome I □and □isomers. *Chemistry - A European Journal*, **2006**, 3, 350-362	4.8	41
80	Response of a designed metalloprotein to changes in metal ion coordination, exogenous ligands, and active site volume determined by X-ray crystallography. *Journal of the American Chemical Society*, **2005**, 127, 17266-76	16.4	41
79	Analysis and design of turns in alpha-helical hairpins. *Journal of Molecular Biology*, **2005**, 346, 1441-54	6.5	53
78	Artificial diiron proteins: from structure to function. *Biopolymers*, **2005**, 80, 264-78	2.2	82
77	Artificial di-iron proteins: solution characterization of four helix bundles containing two distinct types of inter-helical loops. *Journal of Biological Inorganic Chemistry*, **2005**, 10, 539-49	3.7	28
76	Miniaturized heme proteins: crystal structure of Co(III)-mimochrome IV. *Journal of Biological Inorganic Chemistry*, **2004**, 9, 1017-27	3.7	35
75	Preorganization of molecular binding sites in designed diiron proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 3772-7	11.5	67
74	Design of a new mimochrome with unique topology. *Chemistry - A European Journal*, **2003**, 9, 5643-54	4.8	38
73	Sliding helix and change of coordination geometry in a model di-MnII protein. *Angewandte Chemie - International Edition*, **2003**, 42, 417-20	16.4	48
72	Conformational and coordination properties of a peptide containing the novel □bis(2-pyridyl)glycine amino acid. *Dalton Transactions*, **2003**, 787-792	4.3	10
71	Developing synthetic hemoprotein mimetics: Design, synthesis and characterization of heme-peptide conjugates **2002**, 91-93		
70	Peptide-based heme-protein models. *Chemical Reviews*, **2001**, 101, 3165-89	68.1	163
69	Toward the de novo design of a catalytically active helix bundle: a substrate-accessible carboxylate-bridged dinuclear metal center. *Journal of the American Chemical Society*, **2001**, 123, 12749-57	16.4	92

68	The crystal structure of Afc-containing peptides. *Biopolymers*, **2000**, 53, 150-60	2.2	12
67	Conformational behavior of C alpha,alpha-diphenyl glycine: extended conformation in tripeptides containing consecutive D phi G residues. *Biopolymers*, **2000**, 53, 161-8	2.2	9
66	The crystal structure of a Dcp-containing peptide. *Biopolymers*, **2000**, 53, 182-8	2.2	12
65	Miniaturized metalloproteins: application to iron-sulfur proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 11922-7	11.5	57
64	Retrostructural analysis of metalloproteins: application to the design of a minimal model for diiron proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 6298-305	11.5	197
63	De novo design of helical bundles as models for understanding protein folding and function. *Accounts of Chemical Research*, **2000**, 33, 745-54	24.3	274
62	The crystal structure of alpha-thrombin-hirunorm IV complex reveals a novel specificity site recognition mode. *Protein Science*, **1999**, 8, 91-5	6.3	6
61	Crystallization and preliminary X-ray diffraction studies of the carboxylesterase EST2 from Alicyclobacillus acidocaldarius. *Acta Crystallographica Section D: Biological Crystallography*, **1999**, 55, 1348-9		13
60	Tertiary templates for the design of diiron proteins. *Current Opinion in Structural Biology*, **1999**, 9, 500-8	8.1	57
59	From natural to synthetic multisite thrombin inhibitors. *Biopolymers*, **1999**, 51, 19-39	2.2	20
58	De novo design and structural characterization of proteins and metalloproteins. *Annual Review of Biochemistry*, **1999**, 68, 779-819	29.1	529
57	Miniaturized hemoproteins: design, synthesis and characterization of mimochrome II. *Inorganica Chimica Acta*, **1998**, 275-276, 301-313	2.7	16
56	Analysis and design of three-stranded coiled coils and three-helix bundles. *Folding & Design*, **1998**, 3, R29-40		52
55	Miniaturized hemoproteins. *Biopolymers*, **1998**, 47, 5-22	2.2	27
54	Conformational behaviour of C□diphenylglycine: folded vs. extended structures in D?G-containing tripeptides. *Journal of Peptide Science*, **1998**, 4, 21-32	2.1	18
53	Hemoprotein models based on a covalent helix-heme-helix sandwich. 3. Coordination properties, reactivity and catalytic application of Fe(III)- and Fe(II)-mimochrome I. *Journal of Biological Inorganic Chemistry*, **1998**, 3, 671-681	3.7	26
52	A novel super-potent neurokinin A receptor antagonist containing dehydroalanine. *Bioorganic and Medicinal Chemistry Letters*, **1998**, 8, 1153-6	2.9	9
51	Neuronorm is a potent and water soluble neurokinin A receptor antagonist. *Bioorganic and Medicinal Chemistry Letters*, **1998**, 8, 1735-40	2.9	1

50	Hirunorms are true hirudin mimetics. The crystal structure of human alpha-thrombin-hirunorm V complex. *Protein Science*, **1998**, 7, 243-53	6.3	12
49	A Novel Rigid Turn Molecular Scaffold. *Journal of the American Chemical Society*, **1998**, 120, 5879-5886	16.4	18
48	From synthetic coiled coils to functional proteins: automated design of a receptor for the calmodulin-binding domain of calcineurin. *Journal of Molecular Biology*, **1998**, 281, 379-91	6.5	37
47	Miniaturized hemoproteins **1998**, 47, 5		2
46	Multiple binding mode of reversible synthetic thrombin inhibitors. A comparative structural analysis. *Biological Chemistry*, **1998**, 379, 987-1006	4.5	7
45	Conformational behaviour of C(alpha,alpha)-diphenylglycine: folded vs. extended structures in DphiG-containing tripeptides. *Journal of Peptide Science*, **1998**, 4, 21-32	2.1	1
44	Design of a Synthetic Receptor for the Calmodulin-Binding Domain of Calcineurin. *Journal of the American Chemical Society*, **1997**, 119, 12378-12379	16.4	16
43	Bicyclic peptides as type I/type II beta-turn scaffolds. *Biopolymers*, **1996**, 40, 505-18	2.2	10
42	Rational design of true hirudin mimetics: synthesis and characterization of multisite-directed alpha-thrombin inhibitors. *Journal of Medicinal Chemistry*, **1996**, 39, 2008-17	8.3	20
41	A review of the design, synthesis and biological activity of the bicyclic hexapeptide tachykinin NK2 antagonist MEN 10627. *Regulatory Peptides*, **1996**, 65, 55-9		16
40	De novo design of heterotrimeric coiled coils **1996**, 40, 495-504		38
39	Solvent-mediated conformational transition in alanine containing cyclic peptides. VIII **1996**, 38, 693-703		15
38	Discovering protein secondary structures: Classification and description of isolated turns **1996**, 38, 705-721		99
37	A Modified Cyclodextrin with a Fully Encapsulated Dansyl Group: Self-Inclusion in the Solid State and in Solution. *Chemistry - A European Journal*, **1996**, 2, 373-381	4.8	93
36	Unusual conformational preferences of beta-alanine containing cyclic peptides. VII. *Biopolymers*, **1996**, 38, 683-91	2.2	14
35	A Racemic Bicyclic Acylamidine from a Tripeptide Derivative. *Acta Crystallographica Section C: Crystal Structure Communications*, **1996**, 52, 1705-1708		2
34	Discovering protein secondary structures: classification and description of isolated alpha-turns. *Biopolymers*, **1996**, 38, 705-21	2.2	23
33	Solvent-mediated conformational transition in beta-alanine containing cyclic peptides. VIII. *Biopolymers*, **1996**, 38, 693-703	2.2	2

32	Conformation and structure of linear peptides with regularly alternating L- and D-residues: structure of the blocked hexapeptide tert-butyloxycarbonyl-(D-alloisoleucyl-L-isoleucyl)3 methyl ester monohydrate. *International Journal of Peptide and Protein Research*, **1995**, 45, 100-5		6
31	Conformational rigidity versus flexibility in a novel peptidic neurokinin A receptor antagonist. *Journal of Peptide Science*, **1995**, 1, 236-40	2.1	18
30	Design and structure of a novel Neurokinin A receptor antagonist cyclo(-Met1-Asp2-Trp3-Phe4-Dap5-Leu6-)cyclo(2→5). *Journal of the Chemical Society Perkin Transactions II*, **1995**, 987-993		24
29	Sodium Bumetanide Trihydrate. *Acta Crystallographica Section C: Crystal Structure Communications*, **1995**, 51, 395-398		6
28	Design of metal ion binding peptides. *Biopolymers*, **1995**, 37, 401-10	2.2	9
27	Structural requirements for antagonist activity at tachykinin NK2 receptor in a series of bicyclic hexapeptides **1995**, 591-592		1
26	A structural two-ring version of a tubular stack of rings in crystals of a cyclic D,L-hexapeptide. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **1994**, 18, 27-36		19
25	A crystal structure with features of an antiparallel alpha-pleated sheet. *Biopolymers*, **1994**, 34, 1463-8	2.2	18
24	Beta-alanine containing cyclic peptides with predetermined turned structure. V. *Biopolymers*, **1994**, 34, 1505-15	2.2	18
23	Beta-alanine containing cyclic peptides with turned structure: the "pseudo type II beta-turn." VI. *Biopolymers*, **1994**, 34, 1517-26	2.2	19
22	Mixed conformation in C alpha, alpha-disubstituted tripeptides: x-ray crystal structures of Z-Aib-Dph-Gly-OMe and Bz-Dph-Dph-Gly-OMe. *Biopolymers*, **1994**, 34, 1595-604	2.2	16
21	Conformational studies on peptides as enzyme inhibitors: chymotrypsin inhibitors using Bowman–Birk type as models. *Journal of the Chemical Society Perkin Transactions II*, **1994**, 1047-1053		10
20	A New potent and highly selective, long lasting, peptide based Neurokinin A antagonist: Rational design of MEN 10627 **1994**, 487-489		4
19	beta-Alanine containing peptides: gamma-turns in cyclotetrapeptides. *Biopolymers*, **1993**, 33, 621-31	2.2	23
18	Noncoded residues as building blocks in the design of specific secondary structures: symmetrically disubstituted glycines and beta-alanine. *Biopolymers*, **1993**, 33, 1037-49	2.2	59
17	Pt(II) complexes of amino acids and peptides III. X-ray diffraction study of [Cl(Ph3P)Pt(H-Aib-O)]. *Inorganica Chimica Acta*, **1993**, 204, 87-92	2.7	13
16	Conformational versatility of the N alpha-acylated tripeptide amide tail of oxytocin. Synthesis and crystallographic characterization of three C2 alpha-backbone modified, conformationally restricted analogues. *International Journal of Peptide and Protein Research*, **1993**, 42, 459-65		3
15	Non coded C alpha, alpha-disubstituted amino acids. X-ray diffraction analysis of a dipeptide containing (S)-alpha-methylserine. *International Journal of Peptide and Protein Research*, **1993**, 41, 15-20		

14	First observation of a helical peptide containing chiral □-monosubstituted residues without a preferred screw sense. *Journal of the Chemical Society Perkin Transactions II*, **1992**, 971-977		6
13	□-Alanine and □-bends. X-Ray diffraction structures of three linear oligopeptides. *Journal of the Chemical Society Perkin Transactions II*, **1992**, 1233-1237		30
12	Structural characterization of the .beta.-bend ribbon spiral: crystallographic analysis of two long (L-Pro-Aib)n sequential peptides. *Journal of the American Chemical Society*, **1992**, 114, 6273-6278	16.4	100
11	Pt(II) complexes of amino acids and peptides II. Structural analysis of trans-[Cl2-Pt-(H-Aib-OH)2n] and trans-[Pt-(H-Aib-O□2]. *Inorganica Chimica Acta*, **1992**, 196, 241-246	2.7	9
10	Glucagon-independent renal hyperaemia and hyperfiltration after an oral protein load in Child A liver cirrhosis. *European Journal of Clinical Investigation*, **1992**, 22, 31-7	4.6	6
9	Beta-alanine containing peptides: a novel molecular tool for the design of gamma-turns. *Biopolymers*, **1992**, 32, 173-83	2.2	39
8	Conformation of diastereomeric peptide sequences: structural analysis of Z-D-Val-Ac6c-Gly-L-Phe-OMe. *Biopolymers*, **1992**, 32, 1155-61	2.2	6
7	Molecular tools for the design of □-turn in peptides **1992**, 366-367		
6	beta-Alanyl-beta-alanine in cyclic beta-turned peptides. *Biopolymers*, **1991**, 31, 1181-8	2.2	28
5	Cyclic □-alanyl-□-alanine containing peptides: A new molecular tool for □-turned peptides. *Biopolymers*, **1990**, 30, 189-196	2.2	35
4	Symmetry in Synthetic and Natural Peptides **1990**, 1-14		0
3	Regularly alternating L,D-peptides. III. Hexacyclic peptides from valine or phenylalanine. *Biopolymers*, **1989**, 28, 215-23	2.2	47
2	Pt(II) complexes of amino acids and peptides. I. Structural analysis of trans-[Cl2Pt(L-HAlaOH)2]. *Inorganica Chimica Acta*, **1988**, 153, 171-174	2.7	12
1	Structural and Functional Aspects of Metal Binding Sites in Natural and Designed Metalloproteins361-450		11