Alessandra Romanelli

List of Publications by Year
in descending order

93 papers	2,207 citations	218381 26 h-index	276539 41 g-index
100 all docs	100 docs citations	100 times ranked	3123 citing authors

#	Article	IF	Citations
1	Semisynthesis of a segmental isotopically labeled protein splicing precursor: NMR evidence for an unusual peptide bond at the N-extein-intein junction. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6397-6402.	3.3	158
2	Circular Dichroism studies on the interactions of antimicrobial peptides with bacterial cells. Scientific Reports, 2014, 4, 4293.	1.6	96
3	Peptides from Royal Jelly: studies on the antimicrobial activity of jelleins, jelleins analogs and synergy with temporins. Journal of Peptide Science, 2011, 17, 348-352.	0.8	77
4	Transcription Factor Decoy Molecules Based on a Peptide Nucleic Acid (PNA)-DNA Chimera Mimicking Sp1 Binding Sites. Journal of Biological Chemistry, 2003, 278, 7500-7509.	1.6	76
5	Long non-coding RNA containing ultraconserved genomic region 8 promotes bladder cancer tumorigenesis. Oncotarget, 2016, 7, 20636-20654.	0.8	66
6	Highly efficient DNA-free gene disruption in the agricultural pest Ceratitis capitata by CRISPR-Cas9 ribonucleoprotein complexes. Scientific Reports, 2017, 7, 10061.	1.6	59
7	Cationic liposomes as delivery systems for double-stranded PNAâ€“DNA chimeras exhibiting decoy activity against NF-ÎºB transcription factors. Biochemical Pharmacology, 2002, 64, 609-616.	2.0	54
8	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
9	Plant-to-plant communication triggered by systemin primes anti-herbivore resistance in tomato. Scientific Reports, 2017, 7, 15522.	1.6	50
10	Bioinorganic aspects of angiogenesis. Dalton Transactions, 2010, 39, 7625.	1.6	45
11	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
12	Molecular interactions with nuclear factor ÎºB (NF-ÎºB) transcription factors of a PNA-DNA chimera mimicking NF-ÎºB binding sites. FEBS Journal, 2001, 268, 6066-6075.	0.2	40
13	Î³ sulphate PNA (PNA S): Highly Selective DNA Binding Molecule Showing Promising Antigene Activity. PLoS ONE, 2012, 7, e35774.	1.1	40
14	Synergistic Antibacterial and Anti-Inflammatory Activity of Temporin A and Modified Temporin B In Vivo. PLoS ONE, 2009, 4, e7191.	1.1	39
15	Peptides Targeting Angiogenesis Related Growth Factor Receptors. Current Pharmaceutical Design, 2009, 15, 2414-2429.	0.9	39
16	PNA-based artificial nucleases as antisense and anti-miRNA oligonucleotide agents. Molecular BioSystems, 2011, 7, 2490.	2.9	38
17	Thanatin Impairs Lipopolysaccharide Transport Complex Assembly by Targeting LptCâ€“LptA Interaction and Decreasing LptA Stability. Frontiers in Microbiology, 2020, 11, 909.	1.5	38
18	The antimicrobial peptide Temporin L impairs E. coli cell division by interacting with FtsZ and the divisome complex. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129606.	1.1	38

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19	A new ferrocenemethyl-thymidine nucleoside: Synthesis, incorporation into oligonucleotides and optical spectroscopic studies on the resulting single strand, duplex and triplex structures. Tetrahedron, 1999, 55, 14435-14450.	1.0	37
20	Structural Basis of a Temporin 1b Analogue Antimicrobial Activity against Gram Negative Bacteria Determined by CD and NMR Techniques in Cellular Environment. ACS Chemical Biology, 2015, 10, 965-969.	1.6	37
21	The Alternative TrkAIII Splice Variant Targets the Centrosome and Promotes Genetic Instability. Molecular and Cellular Biology, 2009, 29, 4812-4830.	1.1	34
22	New perspectives for natural antimicrobial peptides: application as antinflammatory drugs in a murine model. BMC Immunology, 2012, 13, 61.	0.9	34
23	Antiproliferative activity of Pt(II) and Pd(II) phosphine complexes with thymine and thymidine. Journal of Inorganic Biochemistry, 2007, 101, 254-260.	1.5	33
24	Activity of anchored human matrix metalloproteinase-1 catalytic domain on Au (111) surfaces monitored by ESI-MS. Journal of Mass Spectrometry, 2005, 40, 1565-1571.	0.7	31
25	Peptide grafting strategies before and after electrospinning of nanofibers. Acta Biomaterialia, 2021, 122, 82-100.	4.1	31
26	Tomato Plants Treated with Systemin Peptide Show Enhanced Levels of Direct and Indirect Defense Associated with Increased Expression of Defense-Related Genes. Plants, 2019, 8, 395.	1.6	28
27	Development of an efficient and low-cost protocol for the manual PNA synthesis by Fmoc chemistry. Tetrahedron Letters, 2010, 51, 3716-3718.	0.7	27
28	Antibacterial and anti-inflammatory activity of a temporin B peptide analogue on anin vitromodel of cystic fibrosis. Journal of Peptide Science, 2014, 20, 822-830.	0.8	27
29	Inhibition of Sp1 activity by a decoy PNAâ€“DNA chimera prevents urokinase receptor expression and migration of breast cancer cells. Biochemical Pharmacology, 2005, 70, 1277-1287.	2.0	26
30	New Cross-Talk Layer between Ultraconserved Non-Coding RNAs, MicroRNAs and Polycomb Protein YY1 in Bladder Cancer. Genes, 2016, 7, 127.	1.0	26
31	Effects of decoy molecules targeting NF-kappaB transcription factors in Cystic fibrosis IB3â€“1 cells. Artificial DNA, PNA & XNA, 2012, 3, 97-104.	1.4	25
32	Functional Binding Surface of a Î²â€Hairpin VEGF Receptor Targeting Peptide Determined by NMR Spectroscopy in Living Cells. Chemistry - A European Journal, 2015, 21, 91-95.	1.7	25
33	Incorporation of Naked Peptide Nucleic Acids into Liposomes Leads to Fast and Efficient Delivery. Bioconjugate Chemistry, 2015, 26, 1533-1541.	1.8	25
34	A novel synthetic peptide from a tomato defensin exhibits antibacterial activities against Helicobacter pylori. Journal of Peptide Science, 2012, 18, 755-762.	0.8	24
35	Resistance of Decoy PNAâ€“DNA Chimeras to Enzymatic Degradation in Cellular Extracts and Serum. Oncology Research, 2003, 13, 279-287.	0.6	23
36	Monoacylglycerides from the Diatom Skeletonema marinoi Induce Selective Cell Death in Cancer Cells. Marine Drugs, 2019, 17, 625.	2.2	23

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37	New peptide nucleic acid analogues: synthesis and applications. Expert Opinion on Biological Therapy, 2007, 7, 1219-1232.	1.4	22
38	VEGFR1_{D2} in drug discovery: Expression and molecular characterization. Biopolymers, 2010, 94, 800-809.	1.2	22
39	Antibiofilm Properties of Temporin-L on Pseudomonas fluorescens in Static and In-Flow Conditions. International Journal of Molecular Sciences, 2020, 21, 8526.	1.8	22
40	Covalent Grafting of Antimicrobial Peptides onto Microcrystalline Cellulose. ACS Applied Bio Materials, 2020, 3, 4895-4901.	2.3	22
41	Crystal structure of an Sâ€formylglutathione hydrolase from Pseudoalteromonas haloplanktis TAC125. Biopolymers, 2010, 93, 669-677.	1.2	21
42	Site-specific protein double labeling by expressed protein ligation: applications to repeat proteins. Organic and Biomolecular Chemistry, 2012, 10, 273-280.	1.5	21
43	Î²-Hairpin stabilization through an interstrand triazole bridge. Chemical Communications, 2012, 48, 762-764.	2.2	21
44	Miniaturizing VEGF: Peptides mimicking the discontinuous VEGF receptor-binding site modulate the angiogenic response. Scientific Reports, 2016, 6, 31295.	1.6	21
45	Selfâ€Assembling of Fmocâ€GC Peptide Nucleic Acid Dimers into Highly Fluorescent Aggregates. Chemistry - A European Journal, 2018, 24, 4729-4735.	1.7	21
46	Fluorescence and Morphology of Selfâ€Assembled Nucleobases and Their Diphenylalanine Hybrid Aggregates. Chemistry - A European Journal, 2019, 25, 14850-14857.	1.7	21
47	Peptide Nucleic Acids (PNA)-DNA Chimeras Targeting Transcription Factors as a Tool to Modify Gene Expression. Current Drug Targets, 2004, 5, 735-744.	1.0	21
48	The neuroblastoma tumour-suppressor TrkAI and its oncogenic alternative TrkAIII splice variant exhibit geldanamycin-sensitive interactions with Hsp90 in human neuroblastoma cells. Oncogene, 2009, 28, 4075-4094.	2.6	20
49	Targeting pre-miRNA by Peptide Nucleic Acids. Artificial DNA, PNA & XNA, 2012, 3, 88-96.	1.4	20
50	Exploiting Protein N-Terminus for Site-Specific Bioconjugation. Molecules, 2021, 26, 3521.	1.7	19
51	Î³-Hydroxymethyl PNAs: Synthesis, interaction with DNA and inhibition of protein/DNA interactions. Bioorganic Chemistry, 2010, 38, 196-201.	2.0	17
52	Biodegradable nanoparticles exposing a short anti-FLT1 peptide as antiangiogenic platform to complement docetaxel anticancer activity. Materials Science and Engineering C, 2019, 102, 876-886.	3.8	17
53	Alternate PNAâ€DNA chimeras (PNAâ€DNA)_n: Synthesis, binding properties and biological activity. Biopolymers, 2007, 88, 815-822.	1.2	16
54	Antimicrobial peptides from plants: stabilization of the Î³ core of a tomato defensin by intramolecular disulfide bond. Journal of Peptide Science, 2013, 19, 240-245.	0.8	16

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55	An anti-PDGFRÎ² aptamer for selective delivery of small therapeutic peptide to cardiac cells. PLoS ONE, 2018, 13, e0193392.	1.1	16
56	Computational Procedures to Explain the Different Biological Activity of DNA/DNA, DNA/PNA and PNA/PNA Hybrid Molecules Mimicking NF-ÎºB Binding Sites. Journal of Biomolecular Structure and Dynamics, 2000, 18, 353-362.	2.0	15
57	Semi-Synthesis of Labeled Proteins for Spectroscopic Applications. Molecules, 2013, 18, 440-465.	1.7	15
58	Decoy Molecules Based on PNAâ€“DNA Chimeras and Targeting Sp1 Transcription Factors Inhibit the Activity of Urokinase-Type Plasminogen Activator Receptor (uPAR) Promoter. Oncology Research, 2005, 15, 373-383.	0.6	15
59	In vivo and in vitro characterization of CCK8 bearing a histidineâ€based chelator labeled with ^{99m}Tcâ€tricarbonyl. Biopolymers, 2008, 90, 707-712.	1.2	14
60	Formulations for natural and peptide nucleic acids based on cationic polymeric submicron particles. AAPS PharmSci, 2004, 6, 10-21.	1.3	13
61	Oligonucleotide Analogues as Modulators of the Expression and Function of Noncoding RNAs (ncRNAs): Emerging Therapeutics Applications. Journal of Medicinal Chemistry, 2014, 57, 10220-10240.	2.9	13
62	Reactions of Pd(PPh3)4with 3â€˜,5â€˜-Di-O-acetylthymidine:Â Oxidative Addition of Pd(PPh3)4on Thymidine N3 and C4 Atoms. Organometallics, 2005, 24, 3401-3406.	1.1	12
63	Shedding light on surface exposition of poly(ethylene glycol) and folate targeting units on nanoparticles of poly(Îµ-caprolactone) diblock copolymers: Beyond a paradigm. European Journal of Pharmaceutical Sciences, 2018, 111, 177-185.	1.9	12
64	Semisynthesis of Dimeric Proteins by Expressed Protein Ligation. Organic Letters, 2008, 10, 1955-1958.	2.4	11
65	New Perspectives in the Antimicrobial Activity of the Amphibian Temporin B: Peptide Analogs Are Effective Inhibitors of Candida albicans Growth. Journal of Fungi (Basel, Switzerland), 2021, 7, 457.	1.5	11
66	Diphenylalanine Motif Drives Selfâ€Assembling in Hybrid PNAâ€Peptide Conjugates. Chemistry - A European Journal, 2021, 27, 14307-14316.	1.7	10
67	Complexation to cationic microspheres of double-stranded peptide nucleic acid-DNA chimeras exhibiting decoy activity. Journal of Biomedical Science, 2004, 11, 697-704.	2.6	9
68	PNA zipper as a dimerization tool: Development of a bZip mimic. Biopolymers, 2010, 93, 434-441.	1.2	9
69	Conformational stabilization of a Î²-hairpin through a triazoleâ€“tryptophan interaction. Organic and Biomolecular Chemistry, 2018, 16, 787-795.	1.5	8
70	Colonization of Solanum melongena and Vitis vinifera Plants by Botrytis cinerea Is Strongly Reduced by the Exogenous Application of Tomato Systemin. Journal of Fungi (Basel, Switzerland), 2021, 7, 15.	1.5	8
71	Synthesis of platinum(II) complexes of thymidine and 1-methylthymine (1-MeThy); crystal structure of cis-[PtCl(1-MeThy)(PPh3)2]. Journal of the Chemical Society Dalton Transactions, 1999, , 1945-1950.	1.1	7
72	Determination of the secondary structure of peptides in the presence of Gram positive bacterium S. epidermidis cells. RSC Advances, 2016, 6, 51407-51410.	1.7	7

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73	The influence of liposomal formulation on the incorporation and retention of PNA oligomers. Colloids and Surfaces B: Biointerfaces, 2016, 145, 462-469.	2.5	7
74	Binding studies of antimicrobial peptides to Escherichia coli cells. Biochemical and Biophysical Research Communications, 2016, 478, 149-153.	1.0	7
75	Crystal-state conformation of C?,?-dialkylated peptides containing chiral ?-homo-residues. Journal of Peptide Science, 2001, 7, 15-26.	0.8	6
76	Crystallization and preliminary X-ray diffraction studies of aD-lysine-based chiral PNAâ€“DNA duplex. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 553-555.	2.5	6
77	Combination of the Systemin peptide with the beneficial fungus Trichoderma afroharzianum T22 improves plant defense responses against pests and diseases. Journal of Plant Interactions, 2022, 17, 569-579.	1.0	6
78	facâ€[Re(H₂O)₃(CO)₃]⁺ Complexed with Histidine and Imidazole in Aqueous Solution: Speciation, Affinity and Binding Features. ChemistrySelect, 2016, 1, 3739-3744.	0.7	5
79	Effect of Acylation on the Antimicrobial Activity of Temporinâ€…B Analogues. ChemMedChem, 2018, 13, 1549-1554.	1.6	5
80	Inhibition of miRNA Maturation by Peptide Nucleic Acids. Methods in Molecular Biology, 2014, 1095, 157-164.	0.4	5
81	Peptide nucleic acid-DNA decoy chimeras targeting NF-Î²B transcription factors: Induction of apoptosis in human primary osteoclasts. International Journal of Molecular Medicine, 2004, 14, 145.	1.8	4
82	Detection of oligonucleotides by PNA-peptide conjugates recognizing the biarsenical fluorescein complex FlAsH-EDT2. Biochemical and Biophysical Research Communications, 2017, 493, 126-131.	1.0	4
83	Biodegradable nanoparticles combining cancer cell targeting and anti-angiogenic activity for synergistic chemotherapy in epithelial cancer. Drug Delivery and Translational Research, 2022, 12, 2488-2500.	3.0	4
84	Chiral Fibers Formation Upon Assembly of Tetraphenylalanine Peptide Conjugated to a PNA Dimer. Chemistry - A European Journal, 2022, 28, .	1.7	4
85	Morpholino-based peptide oligomers: Synthesis and DNA binding properties. Biochemical and Biophysical Research Communications, 2021, 549, 8-13.	1.0	3
86	Probing the helical stability in a VEGF-mimetic peptide. Bioorganic Chemistry, 2021, 116, 105379.	2.0	3
87	Application of Biophysical Techniques to Investigate the Interaction of Antimicrobial Peptides With Bacterial Cells. Frontiers in Medical Technology, 2020, 2, 606079.	1.3	3
88	Formulations for natural and peptide nucleic acids based on cationic polymeric submicron particles. AAPS PharmSci, 2004, 6, E2.	1.3	2
89	New Synthetic Route to Î³-Mercaptomethyl PNA Monomers. Synthetic Communications, 2008, 38, 2499-2506.	1.1	1
90	Exploring the dark matter of the human genome using oligonucleotide-based molecules. Future Medicinal Chemistry, 2015, 7, 1627-1630.	1.1	1

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91	Studying the Interaction of Magainin 2 and Cecropin A with E. coli Bacterial Cells Using Circular Dichroism. Methods in Molecular Biology, 2017, 1548, 247-253.	0.4	1
92	Coordination of a bis-histidine-oligopeptide to Re(<scp>i</scp>) and Ga(<scp>iii</scp>) in aqueous solution. Dalton Transactions, 2019, 48, 15184-15191.	1.6	1
93	Peptides Interacting with Growth Factor Receptors Regulating Angiogenesis. , 2016, , 103-160.		1