

Gaetano Barbato

List of Publications by Year in descending order

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54
papers

3,025
citations

236925

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197818

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all docs

56
docs citations

56
times ranked

3692
citing authors

#	ARTICLE	IF	CITATIONS
1	Backbone dynamics of calmodulin studied by nitrogen-15 relaxation using inverse detected two-dimensional NMR spectroscopy: the central helix is flexible. <i>Biochemistry</i> , 1992, 31, 5269-5278.	2.5	969
2	Secondary structure and side-chain proton and carbon-13 resonance assignments of calmodulin in solution by heteronuclear multidimensional NMR spectroscopy. <i>Biochemistry</i> , 1991, 30, 9216-9228.	2.5	194
3	NMR Analysis of Molecular Flexibility in Solution: A New Method for the Study of Complex Distributions of Rapidly Exchanging Conformations. Application to a 13-Residue Peptide with an 8-Residue Loop. <i>Journal of the American Chemical Society</i> , 1995, 117, 1027-1033.	13.7	153
4	A human monoclonal antibody neutralizes diverse HIV-1 isolates by binding a critical gp41 epitope. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14759-14764.	7.1	136
5	Structural Analysis of the Epitope of the Anti-HIV Antibody 2F5 Sheds Light into Its Mechanism of Neutralization and HIV Fusion. <i>Journal of Molecular Biology</i> , 2003, 330, 1101-1115.	4.2	125
6	Sensitivity Enhancement of a Two-Dimensional Experiment for the Measurement of Heteronuclear Long-Range Coupling Constants, by a New Scheme of Coherence Selection by Gradients. <i>Journal of Magnetic Resonance</i> , 2001, 148, 209-213.	2.1	124
7	Structural basis for HIV-1 neutralization by a gp41 fusion intermediate-directed antibody. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 740-747.	8.2	122
8	The solution structure of the N-terminal proteinase domain of the hepatitis C virus (HCV) NS3 protein provides new insights into its activation and catalytic mechanism. <i>Journal of Molecular Biology</i> , 1999, 289, 371-384.	4.2	111
9	A global benchmark study using affinity-based biosensors. <i>Analytical Biochemistry</i> , 2009, 386, 194-216.	2.4	85
10	A Conformationally Homogeneous Combinatorial Peptide Library. <i>Journal of Molecular Biology</i> , 1995, 247, 154-160.	4.2	82
11	Ezrin is a specific and direct target of protein tyrosine phosphatase PRL-3. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 334-344.	4.1	64
12	Structural characterization of the interactions of optimized product inhibitors with the N-terminal proteinase domain of the hepatitis C virus (HCV) NS3 protein by NMR and modelling studies. <i>Journal of Molecular Biology</i> , 1999, 289, 385-396.	4.2	63
13	Solution structure of calmodulin and its complex with a myosin light chain kinase fragment. <i>Cell Calcium</i> , 1992, 13, 391-400.	2.4	62
14	The Metal Binding Site of the Hepatitis C Virus NS3 Protease. <i>Journal of Biological Chemistry</i> , 1998, 273, 18760-18769.	3.4	60
15	Anti-biofilm activity of the Antarctic marine bacterium <i>Pseudoalteromonas haloplanktis</i> TAC125. <i>Research in Microbiology</i> , 2013, 164, 450-456.	2.1	58
16	Bacterial biofilm formation inhibitory activity revealed for plant derived natural compounds. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 920-926.	3.0	57
17	Saliva metabolomics by NMR for the evaluation of sport performance. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 88, 441-446.	2.8	56
18	Progress Towards the Development of a HIV-1 gp41-Directed Vaccine. <i>Current HIV Research</i> , 2004, 2, 193-204.	0.5	45

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19	Comparison of the action of different proteases on virulence properties related to the staphylococcal surface. <i>Journal of Applied Microbiology</i> , 2013, 114, 266-277.	3.1	42
20	Recognition mechanism of p63 by the E3 ligase Itch. <i>Cell Cycle</i> , 2012, 11, 3638-3648.	2.6	39
21	Recognition of p63 by the E3 ligase ITCH: Effect of an ectodermal dysplasia mutant. <i>Cell Cycle</i> , 2010, 9, 3754-3763.	2.6	38
22	Sequence-specific Recognition of DNA by the C-terminal Domain of Nucleoid-associated Protein H-NS. <i>Journal of Biological Chemistry</i> , 2009, 284, 30453-30462.	3.4	34
23	Proton resonance assignment and secondary structure determination of the dimerization domain of transcription factor LFB1. <i>Biochemistry</i> , 1991, 30, 148-153.	2.5	26
24	Development of a neuromedin U-human serum albumin conjugate as a long-acting candidate for the treatment of obesity and diabetes. Comparison with the PEGylated peptide. <i>Journal of Peptide Science</i> , 2014, 20, 7-19.	1.4	26
25	Recognition of p63 by the E3 ligase ITCH: Effect of an ectodermal dysplasia mutant. <i>Cell Cycle</i> , 2010, 9, 3730-9.	2.6	25
26	Coadministration of Telomerase Genetic Vaccine and a Novel TLR9 Agonist in Nonhuman Primates. <i>Molecular Therapy</i> , 2009, 17, 1804-1813.	8.2	22
27	Electrophysiological and metabolic effects of CHF5074 in the hippocampus: Protection against in vitro ischemia. <i>Pharmacological Research</i> , 2014, 81, 83-90.	7.1	22
28	Multidimensional Triple Resonance NMR Spectroscopy of Isotopically Uniformly Enriched Proteins: A Powerful New Strategy for Structure Determination. <i>Novartis Foundation Symposium</i> , 1991, 161, 108-135.	1.1	22
29	A New 3D HCACO Pulse Sequence with Optimized Resolution and Sensitivity. Application to the 21 kDa Protein Human Interleukin-6. <i>Journal of Magnetic Resonance Series B</i> , 1995, 107, 189-191.	1.6	17
30	Structural Basis for Resistance of the Genotype 2b Hepatitis C Virus NS5B Polymerase to Site A Non-Nucleoside Inhibitors. <i>Journal of Molecular Biology</i> , 2009, 390, 1048-1059.	4.2	16
31	Production and structural characterization of amino terminally histidine tagged human oncostatin M in <i>E. Coli</i> . <i>Cytokine</i> , 1994, 6, 255-264.	3.2	14
32	Resonance assignment and secondary structure determination and stability of the recombinant human uteroglobin with heteronuclear multidimensional NMR. <i>Journal of Biomolecular NMR</i> , 1997, 9, 35-46.	2.8	11
33	Binding of a Noncovalent Inhibitor Exploiting the S ^α 2 region Stabilizes the Hepatitis C virus NS3 Protease Conformation in the Absence of Cofactor. <i>Journal of Molecular Biology</i> , 2009, 385, 1142-1155.	4.2	11
34	Low-intensity pulsed ultrasound affects growth, differentiation, migration, and epithelial-to-mesenchymal transition of colorectal cancer cells. <i>Journal of Cellular Physiology</i> , 2020, 235, 5363-5377.	4.1	10
35	Accurate Measurement of Heteronuclear Long-Range Coupling Constants from 1D Subspectra in Crowded Spectral Regions. <i>Journal of Magnetic Resonance Series A</i> , 1995, 117, 267-271.	1.6	9
36	High-resolution solution structure of two members of a conformationally homogeneous combinatorial peptide library based on the classical zinc-finger motif. <i>Journal of Biomolecular NMR</i> , 1996, 8, 36-48.	2.8	9

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37	Mass spectrometry study of PRL β phosphatase inactivation by disulfide bond formation and cysteine into glycine conversion. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2733-2740.	1.5	9
38	Holo and apo-transferrins interfere with adherence to abiotic surfaces and with adhesion/invasion to HeLa cells in <i>Staphylococcus</i> spp.. <i>BioMetals</i> , 2012, 25, 413-421.	4.1	8
39	Effect of Betamethasone in Combination with Antibiotics on Gram Positive and Gram Negative Bacteria. <i>International Journal of Immunopathology and Pharmacology</i> , 2014, 27, 675-682.	2.1	8
40	A physico-chemical approach to the study of the binding interaction between S-adenosyl-l-methionine and polyanions: binding constants and nature of the interaction with sodium poly(styrene sulfonate). <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1989, 991, 324-329.	2.4	7
41	A New Three-Dimensional Pulse Sequence for Correlating Intraresidue NH, N, and CO Chemical Shifts in ^{13}C , ^{15}N -Labeled Proteins. <i>Journal of Magnetic Resonance Series B</i> , 1996, 110, 65-68.	1.6	7
42	Differential Screening of Phage-Ab Libraries by Oligonucleotide Microarray Technology. <i>PLoS ONE</i> , 2008, 3, e1508.	2.5	7
43	Selective Correlation of Amide Groups to Glycine Alpha Protons and of Arginine Guanidine Groups to Delta Protons in Proteins by Multiple Quantum Spectroscopy. <i>Journal of Magnetic Resonance</i> , 1999, 136, 15-21.	2.1	5
44	Development and optimization of a binding assay for histone deacetylase 4 using surface plasmon resonance. <i>Analytical Biochemistry</i> , 2008, 377, 267-269.	2.4	5
45	A new Program for the Conformational Analysis by NMR of the sugar ring of nucleosides and nucleotides in solution: HETROT. application to the sugar ring of AZT in solution.. <i>Tetrahedron</i> , 1995, 51, 10303-10316.	1.9	3
46	Improved sensitivity in indirect monitoring of chemical shifts of proton-heteronuclear spin pairs (^1H - ^{13}C and ^1H - ^{15}N) in 3D and 4D NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2001, 19, 261-266.	2.8	2
47	Focused Ultrasound Effects on Osteosarcoma Cell Lines. <i>BioMed Research International</i> , 2019, 2019, 1-14.	1.9	2
48	Measurement of homonuclear three-bond $J(\text{H}(\text{N})\text{H}\alpha)$ coupling constants in unlabeled peptides complexed with labeled proteins: application to a decapeptide inhibitor bound to the proteinase domain of the NS3 protein of hepatitis C virus (HCV). <i>Journal of Biomolecular NMR</i> , 2001, 20, 23-29.	2.8	1
49	An indirect method to measure trimerization constants using surface plasmon resonance. <i>Analytical Biochemistry</i> , 2009, 393, 126-128.	2.4	1
50	Low Intensity Ultrasound Can Affect Cell Behavior And Can Promote Drug Delivery. <i>FASEB Journal</i> , 2018, 32, 818.17.	0.5	1
51	Identification of a Novel HIV-1 Neutralizing Antibody Using Synthetic Peptides that Mimic a GP41 Fusion Intermediate. , 2006, , 569-570.		0
52	Heterodetic bicyclic decapeptide cyclo (Glu ¹ Leu ²) Tj ETQqQ 0 0 rgBT /Overlock 10 Tf 50 152 Td (â€Pro^su cycloâ€(1 $\hat{3}$ â€5 $\hat{1}$) ²) Phe ⁹ â€Gly ¹⁰ . <i>International Journal of Peptide and Protein Research</i> , 1991, 37, 388-398.	0.1	0
53	The effects of LIPUS on ctDNA release in the medium of NSCLC cell lines. <i>Annals of Oncology</i> , 2017, 28, vi62.	1.2	0
54	Ultrasound-Based Method for the Identification of Novel MicroRNA Biomarkers in Prostate Cancer. <i>Genes</i> , 2021, 12, 1726.	2.4	0