

Gianfranco Bocchinfuso

List of Publications by Year in descending order

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76
papers

3,114
citations

159585

30
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161849

54
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78
docs citations

78
times ranked

4922
citing authors

#	ARTICLE	IF	CITATIONS
1	Formulation matters! A spectroscopic and molecular dynamics investigation on the peptide CIGB552 as itself and in its therapeutical formulation. <i>Journal of Peptide Science</i> , 2022, 28, e3356.	1.4	1
2	<i>Caenorhabditis elegans</i> provides an efficient drug screening platform for GNAO1-related disorders and highlights the potential role of caffeine in controlling dyskinesia. <i>Human Molecular Genetics</i> , 2022, 31, 929-941.	2.9	32
3	Compound heterozygosity for PTPN11 variants in a subject with Noonan syndrome provides insights into the mechanism of SHP2-related disorders. <i>Clinical Genetics</i> , 2021, 99, 457-461.	2.0	2
4	Aggregation properties of a therapeutic peptide for rheumatoid arthritis: A spectroscopic and molecular dynamics study. <i>ChemPhysMater</i> , 2021, 1, 62-62.	2.8	2
5	Targeting Oncogenic Src Homology 2 Domain-Containing Phosphatase 2 (SHP2) by Inhibiting Its Protein-Protein Interactions. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 15973-15990.	6.4	17
6	Discriminating between competing models for the allosteric regulation of oncogenic phosphatase SHP2 by characterizing its active state. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 6125-6139.	4.1	10
7	Sound-driven dissipative self-assembly of aromatic biomolecules into functional nanoparticles. <i>Nanoscale Horizons</i> , 2020, 5, 553-563.	8.0	33
8	A Recurrent Gain-of-Function Mutation in CLCN6, Encoding the Cl ⁻ /H ⁺ -Exchanger, Causes Early-Onset Neurodegeneration. <i>American Journal of Human Genetics</i> , 2020, 107, 1062-1077.	6.2	23
9	Enhanced MAPK1 Function Causes a Neurodevelopmental Disorder within the RASopathy Clinical Spectrum. <i>American Journal of Human Genetics</i> , 2020, 107, 499-513.	6.2	48
10	Structural Determinants of Phosphopeptide Binding to the N-Terminal Src Homology 2 Domain of the SHP2 Phosphatase. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 3157-3171.	5.4	17
11	Pathogenic PTPN11 variants involving the poly-glutamine Gln ²⁵⁵ -Gln ²⁵⁶ -Gln ²⁵⁷ stretch highlight the relevance of helix B in SHP2's functional regulation. <i>Human Mutation</i> , 2020, 41, 1171-1182.	2.5	3
12	Co-occurring WARS2 and CHRNA6 mutations in a child with a severe form of infantile parkinsonism. <i>Parkinsonism and Related Disorders</i> , 2020, 72, 75-79.	2.2	16
13	Aggregation propensity of therapeutic fibrin-homing pentapeptides: insights from experiments and molecular dynamics simulations. <i>Soft Matter</i> , 2020, 16, 10169-10179.	2.7	3
14	Gold Nanoparticle Aggregates Functionalized with Cyclic RGD Peptides for Targeting and Imaging of Colorectal Cancer Cells. <i>ACS Applied Nano Materials</i> , 2019, 2, 6436-6444.	5.0	35
15	Rational Design of Antiangiogenic Helical Oligopeptides Targeting the Vascular Endothelial Growth Factor Receptors. <i>Frontiers in Chemistry</i> , 2019, 7, 170.	3.6	10
16	Selectively targeting bacteria by tuning the molecular design of membrane-active peptidomimetic amphiphiles. <i>Chemical Communications</i> , 2018, 54, 4943-4946.	4.1	27
17	Orienting proteins by nanostructured surfaces: evidence of a curvature-driven geometrical resonance. <i>Nanoscale</i> , 2018, 10, 7544-7555.	5.6	7
18	Mutations in KCNK4 that Affect Gating Cause a Recognizable Neurodevelopmental Syndrome. <i>American Journal of Human Genetics</i> , 2018, 103, 621-630.	6.2	73

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19	Clinical and functional characterization of two novel <i>ZBTB20</i> mutations causing Primrose syndrome. <i>Human Mutation</i> , 2018, 39, 959-964.	2.5	11
20	Structural, Functional, and Clinical Characterization of a Novel <i>PTPN11</i> Mutation Cluster Underlying Noonan Syndrome. <i>Human Mutation</i> , 2017, 38, 451-459.	2.5	39
21	Enhanced EGFR Targeting Activity of Plasmonic Nanostructures with Engineered GE11 Peptide. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700596.	7.6	44
22	The Influence of pH on the Scleroglucan and Scleroglucan/Borax Systems. <i>Molecules</i> , 2017, 22, 435.	3.8	9
23	Molecular Dynamics Simulations of the Host Defense Peptide Temporin L and Its Q3K Derivative: An Atomic Level View from Aggregation in Water to Bilayer Perturbation. <i>Molecules</i> , 2017, 22, 1235.	3.8	13
24	Relative Stability of the Scleroglucan Triple-Helix and Single Strand: an Insight from Computational and Experimental Techniques. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016, 230, 1395-1410.	2.8	9
25	The Role of Thermodynamics in the Activity and Selectivity of Antimicrobial Peptides. <i>Biophysical Journal</i> , 2016, 110, 75a-76a.	0.5	1
26	Carnitine palmitoyl transferase-1A (CPT1A): a new tumor specific target in human breast cancer. <i>Oncotarget</i> , 2016, 7, 19982-19996.	1.8	69
27	Activating Mutations Affecting the Dbl Homology Domain of SOS2 Cause Noonan Syndrome. <i>Human Mutation</i> , 2015, 36, 1080-1087.	2.5	67
28	Mutations Impairing GSK3-Mediated MAF Phosphorylation Cause Cataract, Deafness, Intellectual Disability, Seizures, and a Down Syndrome-like Facies. <i>American Journal of Human Genetics</i> , 2015, 96, 816-825.	6.2	102
29	Mutations in <i>KCNH1</i> and <i>ATP6V1B2</i> cause Zimmermann-Laband syndrome. <i>Nature Genetics</i> , 2015, 47, 661-667.	21.4	177
30	Molecular dynamics methods to predict peptide locations in membranes: LAH4 as a stringent test case. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 581-592.	2.6	40
31	Activating mutations in <i>RRAS</i> underlie a phenotype within the RASopathy spectrum and contribute to leukaemogenesis. <i>Human Molecular Genetics</i> , 2014, 23, 4315-4327.	2.9	114
32	Rheoreversible hydrogels in paper restoration processes: a versatile tool. <i>Chemistry Central Journal</i> , 2014, 8, 10.	2.6	13
33	Mutations in <i>ZBTB20</i> cause Primrose syndrome. <i>Nature Genetics</i> , 2014, 46, 815-817.	21.4	79
34	Aggregation propensity of Aib homopeptides of different length: an insight from molecular dynamics simulations. <i>Journal of Peptide Science</i> , 2014, 20, 494-507.	1.4	16
35	Novel <i>SMAD4</i> mutation causing Myhre syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2014, 164, 1835-1840.	1.2	29
36	Membrane Perturbing Effects of Antimicrobial Peptides: A Systematic Spectroscopic Analysis. <i>Biophysical Journal</i> , 2013, 104, 600a-601a.	0.5	0

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37	Membrane thickness and the mechanism of action of the short peptaibol trichogin GA IV. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1013-1024.	2.6	56
38	Versatile hydrogels: an efficient way to clean paper artworks. <i>RSC Advances</i> , 2013, 3, 22896.	3.6	13
39	Fibrils or Globules? Tuning the Morphology of Peptide Aggregates from Helical Building Blocks. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5448-5459.	2.6	32
40	The importance of being kinked: role of Pro residues in the selectivity of the helical antimicrobial peptide P5. <i>Journal of Peptide Science</i> , 2013, 19, 758-769.	1.4	49
41	3D Structure, Dynamics, and Activity of Synthetic Analog of the Peptaibiotic Trichodecenin I. <i>Chemistry and Biodiversity</i> , 2013, 10, 887-903.	2.1	7
42	Counteracting Effects Operating on Src Homology 2 Domain-containing Protein-tyrosine Phosphatase 2 (SHP2) Function Drive Selection of the Recurrent Y62D and Y63C Substitutions in Noonan Syndrome*. <i>Journal of Biological Chemistry</i> , 2012, 287, 27066-27077.	3.4	35
43	A Restricted Spectrum of Mutations in the SMAD4 Tumor-Suppressor Gene Underlies Myhre Syndrome. <i>American Journal of Human Genetics</i> , 2012, 90, 161-169.	6.2	77
44	Fluorescence spectroscopy and molecular dynamics simulations in studies on the mechanism of membrane destabilization by antimicrobial peptides. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 2281-2301.	5.4	57
45	Guar Gum and Scleroglucan Interactions with Borax: Experimental and Theoretical Studies of an Unexpected Similarity. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13059-13068.	2.6	50
46	Peptide Foldamers: From Spectroscopic Studies to Applications. <i>Reviews in Fluorescence</i> , 2010, , 405-424.	0.5	0
47	Photophysical Properties of 1,3,5-Tris(2-naphthyl)benzene and Related Less-Arylated Compounds: Experimental and Theoretical Investigations. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14887-14895.	2.5	4
48	Metal Binding Properties of Fluorescent Analogues of Trichogin GA IV: A Conformational Study by Time-Resolved Spectroscopy and Molecular Mechanics Investigations. <i>ChemBioChem</i> , 2009, 10, 91-97.	2.6	18
49	Peculiar behavior of polysaccharide/borax hydrogel tablets: a dynamomechanical characterization. <i>Colloid and Polymer Science</i> , 2009, 287, 413-423.	2.1	13
50	Different mechanisms of action of antimicrobial peptides: insights from fluorescence spectroscopy experiments and molecular dynamics simulations. <i>Journal of Peptide Science</i> , 2009, 15, 550-558.	1.4	85
51	Membrane perturbation by the antimicrobial peptide PMAP-23: A fluorescence and molecular dynamics study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1523-1533.	2.6	70
52	Antimicrobial Peptides Chelating Lanthanide Ions: the Case of Trichogin GA IV Analogues and Terbium(III). <i>Advances in Experimental Medicine and Biology</i> , 2009, 611, 43-44.	1.6	1
53	Monitoring Peptide Folding by Time-Resolved Spectroscopies: the Effect of a Single Gly to Aib Substitution. <i>Advances in Experimental Medicine and Biology</i> , 2009, 611, 47-48.	1.6	0
54	Receptors for organochlorine pesticides based on calixarenes. <i>Mikrochimica Acta</i> , 2008, 163, 195-202.	5.0	12

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55	Theoretical and Experimental Study on a Self-Assembling Polysaccharide Forming Nanochannels: Static and Dynamic Effects Induced by a <i>Soft</i> Confinement. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6473-6483.	2.6	20
56	Diverse driving forces underlie the invariant occurrence of the T42A, E139D, I282V and T468M SHP2 amino acid substitutions causing Noonan and LEOPARD syndromes. <i>Human Molecular Genetics</i> , 2008, 17, 2018-2029.	2.9	79
57	Diversity and Functional Consequences of Germline and Somatic PTPN11 Mutations in Human Disease. <i>American Journal of Human Genetics</i> , 2006, 78, 279-290.	6.2	352
58	Germline Missense Mutations Affecting KRAS Isoform B Are Associated with a Severe Noonan Syndrome Phenotype. <i>American Journal of Human Genetics</i> , 2006, 79, 129-135.	6.2	205
59	Peptide Folding Dynamics: A Time-Resolved Study from the Nanosecond to the Microsecond Time Regime. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22834-22841.	2.6	30
60	Intramolecular Triplet Quenching by Nitroxide Radicals as a Tool for Determining Peptide Secondary Structure in Solution. , 2006, , 603-604.		0
61	A Time-Resolved Spectroscopic Study on Peptide Folding. , 2006, , 605-606.		0
62	Structural and functional effects of disease-causing amino acid substitutions affecting residues Ala72 and Glu76 of the protein tyrosine phosphatase SHP-2. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 66, 963-974.	2.6	31
63	Investigation on a new scleroglucan/borax hydrogel: Structure and drug release. <i>International Journal of Pharmaceutics</i> , 2006, 322, 13-21.	5.2	26
64	Dynamics of Formation of a Helix-Turn-Helix Structure in a Membrane-Active Peptide: A Time-Resolved Spectroscopic Study. <i>ChemBioChem</i> , 2006, 7, 43-45.	2.6	29
65	New fluorescent benzo[b]thienyl amino acid derivatives based on sulfanylphenyl benzo[b]thiophenes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 170, 181-188.	3.9	6
66	A new scleroglucan/borax hydrogel: swelling and drug release studies. <i>International Journal of Pharmaceutics</i> , 2005, 289, 97-107.	5.2	54
67	Molecular dynamics investigations of the polysaccharide scleroglucan: first study on the triple helix structure. <i>Carbohydrate Research</i> , 2005, 340, 2154-2162.	2.3	72
68	A new polysaccharidic gel matrix for drug delivery: preparation and mechanical properties. <i>Journal of Controlled Release</i> , 2005, 102, 643-656.	9.9	50
69	Scleroglucan: A Versatile Polysaccharide for Modified Drug Delivery. <i>Molecules</i> , 2005, 10, 6-33.	3.8	99
70	Determination of total and polycyclic aromatic hydrocarbons in aviation jet fuel. <i>Journal of Chromatography A</i> , 2003, 985, 197-203.	3.7	50
71	Toxicological evaluation of gasolines by GC-MS analysis. <i>Chromatographia</i> , 2001, 53, S345-S349.	1.3	3
72	Identification of protein domains on topological basis. <i>Biopolymers</i> , 2001, 58, 218-229.	2.4	11

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73	Determination of phenolic antioxidants in aviation jet fuel. Journal of Chromatography A, 2000, 871, 235-241.	3.7	27
74	A Theoretical Model for the Prediction of Sequence-Dependent Nucleosome Thermodynamic Stability. Biophysical Journal, 2000, 79, 601-613.	0.5	99
75	Dual role of DNA intrinsic curvature and flexibility in determining nucleosome stability 1 Edited by T. Richmond. Journal of Molecular Biology, 1999, 286, 1293-1301.	4.2	86
76	Statistical Thermodynamic Approach for Evaluating the Writhe Transformations in Circular DNAs. Journal of Physical Chemistry B, 1998, 102, 5704-5714.	2.6	13