

# Claudia Bonechi

## List of Publications by Year in descending order

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87  
papers

1,595  
citations

236925

25  
h-index

361022

35  
g-index

87  
all docs

87  
docs citations

87  
times ranked

2248  
citing authors

#	ARTICLE	IF	CITATIONS
1	Using Liposomes as Carriers for Polyphenolic Compounds: The Case of Trans-Resveratrol. PLoS ONE, 2012, 7, e41438.	2.5	99
2	The effect of strong static magnetic field on lymphocytes. Bioelectromagnetics, 2003, 24, 109-117.	1.6	76
3	Protective effect of quercetin and rutin encapsulated liposomes on induced oxidative stress. Biophysical Chemistry, 2018, 233, 55-63.	2.8	75
4	Chemical characterization of liposomes containing nutraceutical compounds: Tyrosol, hydroxytyrosol and oleuropein. Biophysical Chemistry, 2019, 246, 25-34.	2.8	66
5	Molecular Dynamics of Novel Î±-Cyclodextrin Adducts Studied by <sup>13</sup> C-NMR Relaxation. Journal of Physical Chemistry B, 1997, 101, 5094-5099.	2.6	52
6	Evidences of Strong C-H...O Bond in ano-Carboranyl Î²-Lactoside in Solution. Journal of the American Chemical Society, 2002, 124, 8778-8779.	13.7	41
7	Characterization of nutraceutical components in tomato pulp, skin and locular gel. European Food Research and Technology, 2019, 245, 907-918.	3.3	41
8	Enriched Gellan Gum hydrogel as visco-supplement. Carbohydrate Polymers, 2020, 227, 115347.	10.2	40
9	Thixotropic PVA hydrogel enclosing a hydrophilic PVP core as nucleus pulposus substitute. Materials Science and Engineering C, 2019, 98, 696-704.	7.3	38
10	A PVA/PVP hydrogel for human lens substitution: Synthesis, rheological characterization, and <i>in vitro</i> biocompatibility. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 97B, 278-288.	3.4	36
11	Interaction of Quercetin and Its Conjugate Quercetin 3-O-Î²-D-Glucopyranoside with Albumin as Determined by NMR Relaxation Data. Journal of Natural Products, 2008, 71, 175-178.	3.0	35
12	Solution structure of hyaluronic acid oligomers by experimental and theoretical NMR, and molecular dynamics simulation. Biopolymers, 2001, 59, 434-445.	2.4	34
13	The effect of exposure to high flux density static and pulsed magnetic fields on lymphocyte function. Bioelectromagnetics, 2003, 24, 373-379.	1.6	34
14	Effect of resveratrol on platelet aggregation by fibrinogen protection. Biophysical Chemistry, 2017, 222, 41-48.	2.8	32
15	Increasing photostability and water-solubility of carotenoids: Synthesis and characterization of Î²-carotene-humic acid complexes. Journal of Photochemistry and Photobiology B: Biology, 2010, 101, 355-361.	3.8	31
16	Effect of the preparation procedure on the structural properties of oligonucleotide/cationic liposome complexes (lipoplexes) studied by electron spin resonance and Zeta potential. Biophysical Chemistry, 2007, 131, 80-87.	2.8	29
17	Formulation of liposomes functionalized with Lotus lectin and effective in targeting highly proliferative cells. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 860-870.	2.4	29
18	Drug-protein recognition processes investigated by NMR relaxation data. Biochemical Pharmacology, 2006, 71, 858-864.	4.4	28

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19	Effect of Quercetin-loaded liposomes on induced oxidative stress in human spermatozoa. <i>Reproductive Toxicology</i> , 2016, 60, 140-147.	2.9	28
20	Nuclear relaxation studies in ligand-macromolecule affinity index determinations. <i>Chemical Physics Letters</i> , 1997, 264, 205-209.	2.6	27
21	Study of bradykinin conformation in the presence of model membrane by Nuclear Magnetic Resonance and molecular modelling. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 708-716.	2.6	27
22	Hyaluronan-coated polybenzofulvene brushes as biomimetic materials. <i>Polymer Chemistry</i> , 2016, 7, 6529-6544.	3.9	27
23	New formulations to enhance lovastatin release from red yeast rice (RYR). <i>Journal of Drug Delivery Science and Technology</i> , 2016, 36, 110-119.	3.0	27
24	Inhibition effects of ethanol on the kinetics of glucose metabolism by <i>S. cerevisiae</i> : NMR and modelling study. <i>Chemical Physics Letters</i> , 2004, 387, 377-382.	2.6	26
25	Development of novel cyclic peptides as pro-apoptotic agents. <i>European Journal of Medicinal Chemistry</i> , 2016, 117, 301-320.	5.5	26
26	Chemical characterization and antioxidant properties of products and by-products from <i>Olea europaea</i> L. <i>Food Science and Nutrition</i> , 2019, 7, 2907-2920.	3.4	25
27	Development of liposomal formulations to potentiate natural lovastatin inhibitory activity towards 3-hydroxy-3-methyl-glutaryl coenzyme A (HMG-CoA) reductase. <i>Journal of Drug Delivery Science and Technology</i> , 2018, 43, 107-112.	3.0	23
28	Modelling energy fluxes in remote wetland ecosystems with the help of remote sensing. <i>Ecological Modelling</i> , 2001, 145, 243-261.	2.5	22
29	Boronphenylalanine insertion in cationic liposomes for Boron Neutron Capture Therapy. <i>Biophysical Chemistry</i> , 2004, 111, 27-34.	2.8	22
30	In vivo <sup>13</sup> C-NMR and modelling study of metabolic yield response to ethanol stress in a wild-type strain of <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 2004, 564, 63-68.	2.8	22
31	Water-Protein Interactions: The Secret of Protein Dynamics. <i>Scientific World Journal</i> , The, 2013, 2013, 1-6.	2.1	22
32	Stacking interaction study of <i>trans</i> -resveratrol ( <i>trans</i> -3,5,4'-trihydroxystilbene) in solution by Nuclear Magnetic Resonance and Fourier Transform Infrared Spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 625-629.	1.9	20
33	Increased Susceptibility to Resveratrol of <i>Helicobacter pylori</i> Strains Isolated from Patients with Gastric Carcinoma. <i>Journal of Natural Products</i> , 2011, 74, 2257-2260.	3.0	20
34	Alginate-gelatin formulation to modify lovastatin release profile from red yeast rice for hypercholesterolemia therapy. <i>Therapeutic Delivery</i> , 2017, 8, 843-854.	2.2	20
35	Polybenzofulvene derivatives bearing dynamic binding sites as potential anticancer drug delivery systems. <i>Journal of Materials Chemistry B</i> , 2015, 3, 361-374.	5.8	19
36	Poly-vinyl alcohol (PVA) crosslinked by trisodium trimetaphosphate (STMP) and sodium hexametaphosphate (SHMP): Effect of molecular weight, pH and phosphorylating agent on length of spacing arms, crosslinking density and water interaction. <i>Journal of Molecular Structure</i> , 2020, 1202, 127264.	3.6	18

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37	Hybrid PVA-xanthan gum hydrogels as nucleus pulposus substitutes. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2019, 68, 681-690.	3.4	16
38	DNA-ligand interaction detected by proton selective and non-selective spin-lattice relaxation rate analysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 115, 89-95.	4.7	15
39	Metabolic response to exogenous ethanol in yeast: An in vivo NMR and mathematical modelling approach. <i>Biophysical Chemistry</i> , 2006, 120, 135-142.	2.8	15
40	Interaction between Vine Pesticides and Bovine Serum Albumin Studied by Nuclear Spin Relaxation Data. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 10705-10709.	5.2	15
41	Interaction study of indigo carmine with albumin and dextran by NMR relaxation. <i>Journal of Materials Science</i> , 2011, 46, 2541-2547.	3.7	15
42	Fibrinogen-Catecholamine Interaction as Observed by NMR and Fourier Transform Infrared Spectroscopy. <i>Biomacromolecules</i> , 2007, 8, 2689-2696.	5.4	14
43	Solution behavior of a sugar-based carborane for boron neutron capture therapy: A nuclear magnetic resonance investigation. <i>Biophysical Chemistry</i> , 2007, 125, 320-327.	2.8	14
44	Analytical and structural investigation via infrared spectroscopy and density functional methods of cuprous complexes of the antioxidant tripeptide glutathione (GSH). Synthesis and characterization of a novel Cu I-GSH compound. <i>Inorganica Chimica Acta</i> , 2018, 470, 158-171.	2.4	14
45	Discrimination of human semen specimens by NMR data, sperm parameters, and statistical analysis. <i>Systems Biology in Reproductive Medicine</i> , 2015, 61, 353-359.	2.1	13
46	Effect of different post-harvest storage conditions and heat treatment on tomatine content in commercial varieties of green tomatoes. <i>Journal of Food Composition and Analysis</i> , 2021, 96, 103735.	3.9	13
47	Hyaluronan-based graft copolymers bearing aggregation-induced emission fluorogens. <i>RSC Advances</i> , 2018, 8, 5864-5881.	3.6	12
48	Simulating the active sites of copper-trafficking proteins. Density functional structural and spectroscopy studies on copper(I) complexes with thiols, carboxylato, amide and phenol ligands. <i>Journal of Coordination Chemistry</i> , 2016, 69, 404-424.	2.2	11
49	Chemical Characterisation and Antihypertensive Effects of Locular Gel and Serum of <i>Lycopersicon esculentum</i> L. var. 'Camone' Tomato in Spontaneously Hypertensive Rats. <i>Molecules</i> , 2020, 25, 3758.	3.8	11
50	Kinetic Analysis and Comparison of Models of Xylose Metabolism by <i>Klebsiella planticola</i> . <i>Biochemical and Biophysical Research Communications</i> , 1996, 227, 41-46.	2.1	10
51	Solution structure of rifaximin and its synthetic derivative rifaximin OR determined by experimental NMR and theoretical simulation methods. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 2163-2172.	3.0	10
52	Densely PEGylated Polybenzofulvene Brushes for Potential Applications in Drug Encapsulation. <i>Pharmaceutics</i> , 2018, 10, 234.	4.5	10
53	Interaction study of bioactive molecules with fibrinogen and human platelets determined by <sup>1</sup> H NMR relaxation experiments. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 1630-1635.	3.0	9
54	Lipids from algal biomass provide new (nonlamellar) nanovectors with high carrier potentiality for natural antioxidants. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021, 158, 410-416.	4.3	9

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55	Kinetics of glucosinolate hydrolysis by myrosinase in Brassicaceae tissues: A high-performance liquid chromatography approach. <i>Food Chemistry</i> , 2021, 355, 129634.	8.2	9
56	Evaluation of in vitro cell and blood compatibility and in vivo analgesic activity of plant-derived dietary supplements. <i>Journal of Integrative Medicine</i> , 2019, 17, 213-220.	3.1	8
57	Combined Experimental and Multivariate Model Approaches for Glycoalkaloid Quantification in Tomatoes. <i>Molecules</i> , 2021, 26, 3068.	3.8	8
58	Synthetic polymers as biomacromolecular models for studying ligand-protein interactions: A nuclear spin relaxation approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 40, 113-121.	2.8	7
59	Determination of the modified affinity index™ of small ligands and macromolecular receptors from NMR spin-lattice relaxation data. <i>Chemical Physics Letters</i> , 2007, 447, 147-153.	2.6	7
60	Xanthan Gum-Chitosan: Delayed, prolonged, and burst-release tablets using same components in different ratio. <i>Advances in Polymer Technology</i> , 2018, 37, 2936-2945.	1.7	7
61	Combined use of nuclear magnetic resonance and infrared spectroscopy for studying recognition processes between amphenicol antibiotics and albumin. <i>Magnetic Resonance in Chemistry</i> , 2003, 41, 489-502.	1.9	6
62	Metabolic response to exogenous ethanol in yeast: An in vivo statistical total correlation NMR spectroscopy approach. <i>Journal of Biosciences</i> , 2012, 37, 749-755.	1.1	6
63	Methyl Carnosate, an Antibacterial Diterpene Isolated from <i>Salvia officinalis</i> Leaves. <i>Natural Product Communications</i> , 2013, 8, 1934578X1300800.	0.5	6
64	Grappa quality from the Chianti and Montepulciano areas (Tuscany, Italy): monitoring the leaching of copper from distillation columns. <i>International Journal of Food Science and Technology</i> , 2018, 53, 1558-1565.	2.7	5
65	Ionic Exchange Resins and Hydrogels for Capturing Metal Ions in Selected Sweet Dessert Wines. <i>Molecules</i> , 2018, 23, 2973.	3.8	5
66	Ordering effect of protein surfaces on water dynamics: NMR relaxation study. <i>Biophysical Chemistry</i> , 2019, 249, 106149.	2.8	5
67	Varietal and Geographical Origin Characterization of Peaches and Nectarines by Combining Analytical Techniques and Statistical Approach. <i>Molecules</i> , 2021, 26, 4128.	3.8	5
68	Physicochemical Characterization of Hyaluronic Acid and Chitosan Liposome Coatings. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 12071.	2.5	5
69	Design, Synthesis and Characterization of a New Visible Light-Sensitive Molecular Switch and its PEGylation Towards a Self-Assembling Molecule. <i>Chemistry - A European Journal</i> , 0, , .	3.3	5
70	SPECTROSCOPIC INVESTIGATION OF THE CONFORMATIONAL PROPERTIES AND SELF-ASSOCIATION BEHAVIOR OF NATURAL COMPOUNDS IN SOLUTION. <i>Spectroscopy Letters</i> , 2002, 35, 581-602.	1.0	4
71	Comparison of Original and Modern Mortars at the Herculaneum Archaeological Site. <i>Conservation and Management of Archaeological Sites</i> , 2019, 21, 92-112.	0.5	4
72	Calcium ions hyaluronan/gellan gum protective shell for delivery of oleuropein in the knee. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2020, , 1-16.	3.4	4

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73	Analytical composition of flours through thermogravimetric and rheological combined methods. <i>Thermochimica Acta</i> , 2022, 711, 179204.	2.7	4
74	Click-Chemistry Cross-Linking of Hyaluronan Graft Copolymers. <i>Pharmaceutics</i> , 2022, 14, 1041.	4.5	4
75	Distribution of Gadolinium in Rat Heart Studied by Fast Field Cycling Relaxometry and Imaging SIMS. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1339.	4.1	3
76	Spontaneous polymerization of benzofulvene derivatives bearing complexed or un-complexed pyridine rings. <i>European Polymer Journal</i> , 2022, 169, 111137.	5.4	3
77	Modified low molecular weight poly-vinyl alcohol as viscosity enhancer. <i>Materials Today Communications</i> , 2019, 21, 100634.	1.9	2
78	Metal-Ligand Recognition Index Determination by NMR Proton Relaxation Study. <i>Molecules</i> , 2019, 24, 1050.	3.8	2
79	Solution dynamics of the natural bioactive molecule capsaicin: a relaxation study. <i>Spectroscopy Letters</i> , 2019, 52, 74-79.	1.0	2
80	Complexity at the Molecular Level : A Dynamic View of Biomolecules Obtained by NMR. <i>Annals of the New York Academy of Sciences</i> , 1999, 879, 235-240.	3.8	1
81	In vivo NMR study of yeast fermentative metabolism in the presence of ferric irons. <i>Journal of Biosciences</i> , 2011, 36, 97-103.	1.1	1
82	Biopolymers and Biomacromolecules Solvent Dynamics. <i>Macromolecular Symposia</i> , 2014, 335, 78-85.	0.7	1
83	Antioxidant Species in Grapes and Wines via Spectrophotometric Methods: No Quenching Effects by Copper(II) and Yeast Derivative Treatments. <i>Journal of Chemistry</i> , 2019, 2019, 1-9.	1.9	1
84	Plasticizers free polyvinyl chloride membrane for metal ions sequestering. <i>Inorganic Chemistry Communication</i> , 2020, 119, 108100.	3.9	1
85	Effect of Flaking and Precooking Procedures on Antioxidant Potential of Selected Ancient Cereal and Legume Flours. <i>Foods</i> , 2022, 11, 1592.	4.3	1
86	Water-protein and ligand-protein interactions as determined by selective NMR relaxation studies. <i>Macromolecular Symposia</i> , 2003, 203, 89-102.	0.7	0
87	Reactivity of CORM [RuII(CO)3Cl2{N-(N1-methylbenzimidazole)}] with aminoacids. Synthesis, and analytical and structural study for the new binuclear cis-[RuI(CO)2(N-MBI)(i <sup>1</sup> / <sub>4</sub> 2-O,O-BAL)] <sub>2</sub> sawhorse complex at solid state and in solution. <i>Journal of Molecular Structure</i> , 2019, 1184, 479-486.	3.6	0