

Renato Toffanin

List of Publications by Year in descending order

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65
papers

1,987
citations

257450

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docs citations

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times ranked

2218
citing authors

#	ARTICLE	IF	CITATIONS
1	Polysaccharides from hot water extracts of roasted <i>Coffea arabica</i> beans: isolation and characterization. <i>Carbohydrate Polymers</i> , 1999, 40, 71-81.	10.2	177
2	Articular cartilage repair in rabbits by using suspensions of allogenic chondrocytes in alginate. <i>Biomaterials</i> , 2000, 21, 795-801.	11.4	176
3	Transverse relaxation mechanisms in articular cartilage. <i>Journal of Magnetic Resonance</i> , 2004, 169, 300-307.	2.1	127
4	Inhomogeneous alginate gel spheres: An assessment of the polymer gradients by synchrotron radiation-induced x-ray emission, magnetic resonance microimaging, and mathematical modeling. <i>Biopolymers</i> , 2000, 53, 60-71.	2.4	126
5	Correlation between biochemical composition and magnetic resonance appearance of articular cartilage. <i>Osteoarthritis and Cartilage</i> , 1998, 6, 24-32.	1.3	113
6	Investigation of laminar appearance of articular cartilage by means of magnetic resonance microscopy. <i>Magnetic Resonance Imaging</i> , 1996, 14, 435-442.	1.8	98
7	Degenerative Changes of Porcine Intervertebral Disc Induced by Vertebral Endplate Injuries. <i>Spine</i> , 2005, 30, 174-180.	2.0	84
8	Chemical and macromolecular characterisation of agar polymers from <i>Gracilaria dura</i> (C. Agardh) J. Agardh (<i>Gracilariaceae</i> , <i>Rhodophyta</i>). <i>Carbohydrate Polymers</i> , 1992, 18, 171-178.	10.2	69
9	Organic Solvent Systems for $^3\text{1P}$ Nuclear Magnetic Resonance Analysis of Lecithin Phospholipids: Applications to Two-Dimensional Gradient-Enhanced ^1H -Detected Heteronuclear Multiple Quantum Coherence Experiments. <i>Analytical Biochemistry</i> , 1997, 245, 38-47.	2.4	64
10	High-resolution ^1H NMR investigation of coffee. <i>Journal of the Science of Food and Agriculture</i> , 1999, 79, 869-878.	3.5	59
11	Proteoglycan Depletion and Magnetic Resonance Parameters of Articular Cartilage. <i>Archives of Biochemistry and Biophysics</i> , 2001, 390, 235-242.	3.0	57
12	Modified procedures for extraction and analysis of carrageenan applied to the red alga <i>Hypnea musciformis</i> . <i>Journal of Applied Phycology</i> , 1995, 7, 565-576.	2.8	50
13	Structural determination of the acidic exopolysaccharide produced by a <i>Pseudomonas</i> sp. strain 1.15. <i>Carbohydrate Research</i> , 1999, 315, 159-168.	2.3	49
14	NMR studies of oligosaccharides derived from hyaluronate: complete assignment of ^1H and ^{13}C NMR spectra of aqueous di- and tetra-saccharides, and comparison of chemical shifts for oligosaccharides of increasing degree of polymerisation. <i>Carbohydrate Research</i> , 1993, 245, 113-120.	2.3	45
15	Investigation of the carrageenans extracted from <i>Solieria filiformis</i> and <i>Agardhiella subulata</i> from Mar Piccolo, Taranto. <i>Marine Chemistry</i> , 1997, 58, 319-325.	2.3	42
16	Structure of the exopolysaccharide produced by <i>Enterobacter amnigenus</i> . <i>Carbohydrate Research</i> , 2005, 340, 439-447.	2.3	40
17	^1H - and ^{13}C -NMR studies of solutions of hyaluronic acid esters and salts in methyl sulfoxide: comparison of hydrogen-bond patterns and conformational behaviour. <i>Carbohydrate Research</i> , 1992, 230, 1-13.	2.3	38
18	MR microscopy of hyaline cartilage: current status. <i>European Radiology</i> , 2002, 12, 814-823.	4.5	38

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19	NMR analysis of succinoglycans from different microbial sources: partial assignment of their ¹ H and ¹³ C NMR spectra and location of the succinate and the acetate groups. Carbohydrate Research, 1994, 265, 167-179.	2.3	36
20	Fast T2 mapping of the patellar articular cartilage with gradient and spin-echo magnetic resonance imaging at 1.5 T: validation and initial clinical experience in patients with osteoarthritis. Skeletal Radiology, 2008, 37, 511-517.	2.0	30
21	A method for generating magnetic resonance microimaging ² maps with low sensitivity to diffusion. Magnetic Resonance in Medicine, 1996, 35, 423-425.	3.0	29
22	Magnetic resonance imaging of articular cartilage: ex vivo study on normal cartilage correlated with magnetic resonance microscopy. European Radiology, 1998, 8, 1130-1136.	4.5	28
23	Hydrogen-bonding and conformation of agarose in methyl sulfoxide and aqueous solutions investigated by ¹ H and ¹³ C NMR spectroscopy. Carbohydrate Research, 1997, 304, 293-302.	2.3	27
24	³¹ P NMR analysis of phospholipids in crude extracts from different sources: improved efficiency of the solvent system. , 1998, 36, 907-912.		27
25	Collagen fibrils are differently organized in weight-bearing and not-weight-bearing regions of pig articular cartilage. The Journal of Experimental Zoology, 2000, 287, 346-352.	1.4	24
26	Structural investigations of cross-linked hyaluronan. Biomaterials, 2002, 23, 1161-1167.	11.4	24
27	Evaluation of steam explosion as pretreatment in agar extraction from Gracilaria dura (C. Agardh) J. Agardh (Gracilariaceae, Rhodophyta). Journal of Applied Phycology, 1993, 5, 417-424.	2.8	22
28	Mechanical and diffusive properties of homogeneous alginate gels in form of particles and cylinders. Journal of Biomedical Materials Research - Part A, 2008, 87A, 808-818.	4.0	22
29	Sensitivity of chondrocytes of growing cartilage to reactive oxygen species. Biochimica Et Biophysica Acta - General Subjects, 1998, 1425, 103-111.	2.4	21
30	Structural determination of the capsular polysaccharide produced by Klebsiella pneumoniae serotype K40. NMR studies of the oligosaccharide obtained upon depolymerisation of the polysaccharide with a bacteriophage-associated endoglycanase. FEBS Journal, 1993, 213, 445-453.	0.2	20
31	A better understanding of the properties of alginate solutions and gels by quantitative magnetic resonance imaging (MRI). Carbohydrate Research, 1998, 306, 19-26.	2.3	20
32	Structural investigation of the exopolysaccharide produced by Pseudomonas flavescens strain B62 . Degradation by a fungal cellulase and isolation of the oligosaccharide repeating unit. FEBS Journal, 1998, 251, 971-979.	0.2	20
33	¹ H-NMR Spectroscopic Studies of Lipid Extracts from Human Fatty Liver. Biochemical and Biophysical Research Communications, 1993, 192, 1217-1222.	2.1	19
34	Lipid extracts from different algal species: ¹ H and ¹³ C-NMR spectroscopic studies as a new tool to screen differences in the composition of fatty acids, sterols and carotenoids. Journal of Applied Phycology, 1992, 4, 315-322.	2.8	18
35	Evidence for a boat-chair equilibrium in the glucuronate residue of chondrosine. Carbohydrate Research, 1991, 209, C13-C15.	2.3	13
36	Analysis of Lipids in Crude Extracts by ¹³ C Nuclear Magnetic Resonance. Analytical Biochemistry, 1993, 214, 238-244.	2.4	12

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37	Detection of cellulose in the cell wall of some red algae by ¹³ C NMR spectroscopy. Carbohydrate Research, 1994, 262, 167-171.	2.3	12
38	Detection and quantitation of phosphorus metabolites in crude tissue extracts by ¹ H and ³¹ P NMR: use of gradient assisted ¹ H- ³¹ P HMQC experiments, with selective pulses, for the assignment of less abundant metabolites. NMR in Biomedicine, 1995, 8, 190-196.	2.8	12
39	Structure and properties of agar from two unexploited agarophytes from Venezuela. Hydrobiologia, 1996, 326-327, 497-500.	2.0	12
40	Cell wall polysaccharides from Gelidium species: physico-chemical studies using MRI techniques. Journal of Applied Phycology, 1998, 10, 315-322.	2.8	12
41	Short-TE projection reconstruction MR microscopy in the evaluation of articular cartilage thickness. European Radiology, 2000, 10, 1222-1226.	4.5	10
42	Conformational analysis on segments of charged polysaccharides. The case of hyaluronic acid dimer and chondrosine. Computational and Theoretical Chemistry, 1997, 395-396, 437-449.	1.5	9
43	Ex vivo assessment of trabecular bone structure from three-dimensional projection reconstruction mr micro-images. IEEE Transactions on Biomedical Engineering, 2003, 50, 967-977.	4.2	9
44	3 T magnetic resonance imaging of the musculoskeletal system. Radiologia Medica, 2010, 115, 571-584.	7.7	9
45	¹ H- and ¹³ C-NMR spectroscopic studies of lipid extracts of the red alga Gracilaria longa. Journal of Applied Phycology, 1992, 4, 149-155.	2.8	6
46	Gel beads from novel ionic polysaccharides. Carbohydrate Polymers, 2004, 55, 163-169.	10.2	6
47	Chondrocyte-alginate bioconstructs: An nuclear magnetic resonance relaxation study. Journal of Biomedical Materials Research - Part A, 2007, 83A, 345-353.	4.0	6
48	A conformational study of the Smith degradation product of the Klebsiella K40 capsular polysaccharide by 1D NOESY and molecular mechanics calculations. Carbohydrate Research, 1994, 265, 151-159.	2.3	3
49	Short-TE projection reconstruction NMR microscopy of trabecular bone. Magnetic Resonance Imaging, 2001, 19, 485-486.	1.8	3
50	MEDICAL IMAGING ANALYSIS OF THE THREE DIMENSIONAL (3D) ARCHITECTURE OF TRABECULAR BONE: TECHNIQUES AND THEIR APPLICATIONS. , 2005, , 1-41.		3
51	Pyruvate-Rich Agarose from the Red Alga <i>Gracilaria dura</i> . Planta Medica, 1992, 58, 588-589.	1.3	2
52	Magnetic resonance microscopy of osteoporotic bone. AIP Conference Proceedings, 2000, , .	0.4	2
53	Innovation system foresight and systemic innovation for the overseas countries and territories. Foresight, 2018, 20, 105-122.	2.1	2
54	³¹ P NMR analysis of phospholipids in crude extracts from different sources: improved efficiency of the solvent system. Magnetic Resonance in Chemistry, 1998, 36, 907-912.	1.9	2

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55	Structure and properties of agar from two unexploited agarophytes from Venezuela. , 1996, , 497-500.		2
56	Exploitation of Old Wheat Properties for Prevention of Human Disease. Natural Product Communications, 2017, 12, 1934578X1701200.	0.5	1
57	Sensitivity of hypertrophic chondrocytes to oxygen derived free radicals.. Bone, 1995, 17, 595.	2.9	0
58	Quantification of trabecular bone structure from three-dimensional 1/4MR images. , 0, , .		0
59	NOVEL BIOMATERIALS BASED ON CROSS-LINKED HYALURONAN: STRUCTURAL INVESTIGATIONS. , 2002, , 269-276.		0
60	Numerical simulation of trabecular bone magnetic resonance imaging. , 2004, 2004, 1088-91.		0
61	Fast MRI Methods for the Clinical Evaluation of Skeletal Disorders. , 2011, , .		0
62	Analysis of Mixtures of Phospholipids in Dimethylformamide. , 1997, , 333-334.		0
63	Implementing Systemic Innovation Strategies for a More Sustainable Future: The Case of Three Overseas Countries and Territories. Frontiers in Research Metrics and Analytics, 2021, 6, 801789.	1.9	0
64	Magnetic resonance microscopy for the quantitative analysis of trabecular bone architecture. Journal of Gravitational Physiology: A Journal of the International Society for Gravitational Physiology, 2002, 9, P173-4.	0.0	0
65	Collagen fibrils are differently organized in weight-bearing and not-weight-bearing regions of pig articular cartilage. The Journal of Experimental Zoology, 2000, 287, 346-352.	1.4	0