Slobodan Macura

List of Publications by Year
in descending order

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58	2,087	218677	233421
papers	citations	26	45
		h-index	g-index

59	59	59	2006
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Trinucleotide repeats that expand in human disease form hairpin structures in vitro. Cell, 1995, 81, 533-540.	28.9	562
2	Cellular Energetics in the Preconditioned State. Journal of Biological Chemistry, 2001, 276, 44812-44819.	3.4	91
3	Structural Basis of BACH1 Phosphopeptide Recognition by BRCA1 Tandem BRCT Domains. Structure, 2004, 12, 1137-1146.	3.3	87
4	Flavones and Sesquiterpene Lactones fromAchilleaatratasubsp.multifida:Â Antimicrobial Activity. Journal of Natural Products, 1999, 62, 909-911.	3.0	83
5	Compromised Energetics in the Adenylate Kinase AK1Gene Knockout Heart under Metabolic Stress. Journal of Biological Chemistry, 2000, 275, 41424-41429.	3.4	75
6	Cytotoxic constituents of Achillea clavennae from Montenegro. Phytochemistry, 2006, 67, 887-893.	2.9	74
7	Hydrogen Bonding Networks in Proteins As Revealed by the Amide 1JNC' Coupling Constant. Journal of the American Chemical Society, 1995, 117, 405-410.	13.7	65
8	KATP channel knockout worsens myocardial calcium stress load in vivo and impairs recovery in stunned heart. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H1706-H1713.	3.2	54
9	Adenylate kinase AK1 knockout heart: energetics and functional performance under ischemia-reperfusion. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H776-H782.	3.2	52
10	Structural characterization of pure Na-nephelines synthesized by zeolite conversion route. Journal of Physics and Chemistry of Solids, 2004, 65, 1623-1633.	4.0	51
11	Molecular Basis for the Association of Human E4B U Box Ubiquitin Ligase with E2-Conjugating Enzymes UbcH5c and Ubc4. Structure, 2010, 18, 955-965.	3.3	45
12	Elimination of cross-relaxation effects from two-dimensional chemical-exchange spectra of macromolecules. Journal of the American Chemical Society, 1990, 112, 2574-2577.	13.7	44
13	A â€œstructuralâ€•water molecule in the family of fatty acid binding proteins. Protein Science, 2000, 9, 497-504.	7.6	43
14	Structural Dependencies ofh3JNCâ€˜Scalar Coupling in Protein H-Bond Chains. Journal of the American Chemical Society, 2002, 124, 14221-14226.	13.7	42
15	Mapping hypoxia-induced bioenergetic rearrangements and metabolic signaling by18O-assisted31P NMR and1H NMR spectroscopy. Molecular and Cellular Biochemistry, 2004, 256, 281-289.	3.1	39
16	Correlations among1JNCâ€˜andh3JNCâ€˜Coupling Constants in the Hydrogen-Bonding Network of Human Ubiquitin. Journal of the American Chemical Society, 2001, 123, 4099-4100.	13.7	36
17	Structure-fluorescence correlations in a single tryptophan mutant of carp parvalbumin: solution structure, backbone and side-chain dynamics. Journal of Molecular Biology, 2000, 297, 147-163.	4.2	34
18	[3] Two-dimensional exchange spectroscopy of proteins. Methods in Enzymology, 1994, 239, 106-144.	1.0	32

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19	Quantitative Determination of Magnetization Exchange Rate Constants from a Series of Two-Dimensional Exchange NMR Spectra. Journal of Chemical Information and Computer Sciences, 2000, 40, 611-621.	2.8	32
20	Proteinâ˜Solvent Hydrogen Bonding Studied by NMR 1JNCâ€˜ Coupling Constant Determination and Molecular Dynamics Simulations. Journal of the American Chemical Society, 1996, 118, 7859-7860.	13.7	29
21	Highly oxygenated guaianolides from Anthemis cretica subsp. cretica. Phytochemistry, 1999, 50, 287-291.	2.9	29
22	Refinement of the NMR solution structure of a protein to remove distortions arising from neglect of internal motion. Biochemistry, 1991, 30, 3807-3811.	2.5	28
23	Complete elimination of spin diffusion from selected resonances in two-dimensional cross-relaxation spectra of macromolecules by a novel pulse sequence (SNOESY). Journal of the American Chemical Society, 1992, 114, 1523-1524.	13.7	28
24	Sesquiterpene lactones and flavonoids of Achillea depressa. Biochemical Systematics and Ecology, 2005, 33, 317-322.	1.3	28
25	Three-Dimensional Structure of the Water-Insoluble Protein Crambin in Dodecylphosphocholine Micelles and Its Minimal Solvent-Exposed Surface. Journal of the American Chemical Society, 2006, 128, 4398-4404.	13.7	28
26	Structural Basis of Ubiquitin Recognition by Translesion Synthesis DNA Polymerase Î¹. Biochemistry, 2010, 49, 10198-10207.	2.5	28
27	Sesquiterpene lactones from Achillea crithmifolia. Phytochemistry, 1991, 30, 3464-3466.	2.9	27
28	18O-assisted dynamic metabolomics for individualized diagnostics and treatment of human diseases. Croatian Medical Journal, 2012, 53, 529-534.	0.7	26
29	Brainstem ¹H nuclear magnetic resonance (NMR) spectroscopy: Marker of demyelination and repair in spinal cord. Annals of Neurology, 2009, 66, 559-564.	5.3	20
30	Magnetization exchange network editing: mathematical principles and experimental demonstration. Chemical Physics, 1995, 200, 161-179.	1.9	19
31	Diterpenes from Achillea clypeolata. Phytochemistry, 1996, 43, 169-171.	2.9	19
32	Further sesquiterpene lactones from Anthemis carpatica. Phytochemistry, 2000, 54, 625-633.	2.9	19
33	Sesquiterpene lactones from Achillea abrotanoides. Phytochemistry, 1989, 28, 1765-1767.	2.9	17
34	Topological Editing of Crossâ€Relaxation Networks. Israel Journal of Chemistry, 1992, 32, 245-256.	2.3	16
35	Sesquiterpene lactones from the aerial parts of Anthemis arvensis L.. Biochemical Systematics and Ecology, 2006, 34, 303-309.	1.3	15
36	Combined use of COSY and double quantum two-dimensional NMR spectroscopy for elucidation of spin systems in polymyxin B. Biochemical and Biophysical Research Communications, 1983, 117, 486-492.	2.1	14

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37	Hairpin Formation within the Human Enkephalin Enhancer Region. 2. Structural Studies. Biochemistry, 1994, 33, 11960-11970.	2.5	14
38	Deletion of Betaâ€2â€Microglobulin Ameliorates Spinal Cord Lesion Load and Promotes Recovery of Brainstem NAA Levels in a Murine Model of Multiple Sclerosis. Brain Pathology, 2012, 22, 698-708.	4.1	13
39	Electron spray ionization mass spectrometry and 2D 31P NMR for monitoring 18O/16O isotope exchange and turnover rates of metabolic oligophosphates. Analytical and Bioanalytical Chemistry, 2012, 403, 697-706.	3.7	13
40	Stereochemistry and conformations of natural 1,2-epoxy-guaianolides based on 1D and 2D NMR data and semiempirical calculations. Magnetic Resonance in Chemistry, 2008, 46, 427-431.	1.9	11
41	31P NMR correlation maps of 18O/16O chemical shift isotopic effects for phosphometabolite labeling studies. Journal of Biomolecular NMR, 2011, 50, 237-245.	2.8	11
42	Least-Squares Method for Quantitative Determination of Chemical Exchange and Cross-Relaxation Rate Constants from a Series of Two-Dimensional Exchange NMR Spectra. Journal of Physical Chemistry A, 1997, 101, 3707-3710.	2.5	10
43	Evaluation of errors of interproton distances and correlation time determined from NMR cross-relaxation rates. Journal of Biomolecular NMR, 1992, 2, 573-582.	2.8	9
44	Calcium-binding proteins afford calibration of dihedral-angle dependence of coupling constant in aspartate and asparagine residues. Journal of Magnetic Resonance, 2005, 175, 222-225.	2.1	9
45	Solvent-induced differentiation of protein backbone hydrogen bonds in calmodulin. Protein Science, 2007, 16, 1329-1337.	7.6	9
46	Strategies for eliminating unwanted cross-relaxation and coherence-transfer effects from two-dimensional chemical-exchange spectra. Journal of Magnetic Resonance, 1991, 92, 20-29.	0.5	8
47	Zooming, a Practical Strategy for Improving the Quality of Multidimensional NMR Spectra. Journal of Magnetic Resonance Series A, 1996, 119, 53-64.	1.6	8
48	Identification of spin diffusion pathways in proteins by isotope-assisted NMR cross-relaxation network editing. Journal of Biomolecular NMR, 1997, 9, 317-322.	2.8	8
49	Structural dependencies of protein backbone ²J_{NCâ€²} couplings. Protein Science, 2008, 17, 768-776.	7.6	7
50	H-bonding mediates polarization of peptide groups in folded proteins. Protein Science, 2009, 12, 2633-2636.	7.6	6
51	Homonuclear relayed double-quantum 2D NMR spectroscopy of polymyxin B in H2O. Journal of Magnetic Resonance, 1984, 60, 99-105.	0.5	5
52	Full matrix Analysis of Cross-relaxation Fails in Fractionally Deuterated Molecules. Journal of Biomolecular NMR, 1998, 12, 333-337.	2.8	5
53	Two-dimensional NMR spectra of sesquiterpenes. IIâ€”Noesy study of some sesquiterpene lactones with pseudoguaianolide, 3,4-seco-pseudoguaianolide and guaianolide skeletons. Magnetic Resonance in Chemistry, 1988, 26, 725-728.	1.9	4
54	Two-dimensional NMR spectra of sesquiterpenes. Iâ€”NOESY study of caryophyllenes fromInula spiraeifolia. Magnetic Resonance in Chemistry, 1987, 25, 889-891.	1.9	3

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55	Chapter 13 Homonuclear two-dimensional cross-relaxation spectroscopy. Analytical Spectroscopy Library, 1997, , 265-302.	0.1	1
56	Elucidation of Deceptively Slow Magnetization Exchange between Protein Labile Protons and Water by Dilution-Enhanced Exchange Spectroscopy. Journal of the American Chemical Society, 1998, 120, 9963-9964.	13.7	1
57	Directly observed hydrogen bonds at calcium-binding-sites of calmodulin in solution relate to affinity of the calcium-binding. Journal of Inorganic Biochemistry, 2009, 103, 1415-1418.	3.5	0
58	Transverse relaxation in fixed tissue: Influence of temperature and resolution on image contrast in magnetic resonance microscopy. NMR in Biomedicine, 2022, , e4747.	2.8	0