

Miroslav Sulc

List of Publications by Year in descending order

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83
papers

2,031
citations

186209

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289141

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86
times ranked

2746
citing authors

#	ARTICLE	IF	CITATIONS
1	14-3-3 Protein Interacts with Nuclear Localization Sequence of Forkhead Transcription Factor FoxO4. <i>Biochemistry</i> , 2005, 44, 11608-11617.	1.2	100
2	14-3-3 C-terminal Stretch Changes Its Conformation upon Ligand Binding and Phosphorylation at Thr232. <i>Journal of Biological Chemistry</i> , 2004, 279, 4531-4540.	1.6	79
3	Ice-age endurance: the effects of cryopreservation on proteins of sperm of common carp, <i>Cyprinus carpio</i> L. <i>Theriogenology</i> , 2010, 74, 413-423.	0.9	69
4	Both the N-terminal Loop and Wing W2 of the Forkhead Domain of Transcription Factor Foxo4 Are Important for DNA Binding. <i>Journal of Biological Chemistry</i> , 2007, 282, 8265-8275.	1.6	68
5	Role of Cytochromes P450 1A1/2 in Detoxication and Activation of Carcinogenic Aristolochic Acid I: Studies with the Hepatic NADPH:Cytochrome P450 Reductase Null (HRN) Mouse Model. <i>Toxicological Sciences</i> , 2011, 121, 43-56.	1.4	56
6	The impact of individual cytochrome P450 enzymes on oxidative metabolism of benzo[<i>a</i>]pyrene in human livers. <i>Environmental and Molecular Mutagenesis</i> , 2016, 57, 229-235.	0.9	56
7	A Novel "Clip-and-link" Activity of Repeat in Toxin (RTX) Proteins from Gram-negative Pathogens. <i>Journal of Biological Chemistry</i> , 2004, 279, 24944-24956.	1.6	55
8	14-3-3 Protein Masks the DNA Binding Interface of Forkhead Transcription Factor FOXO4. <i>Journal of Biological Chemistry</i> , 2009, 284, 19349-19360.	1.6	55
9	14-3-3 Protein C-terminal Stretch Occupies Ligand Binding Groove and Is Displaced by Phosphopeptide Binding. <i>Journal of Biological Chemistry</i> , 2004, 279, 49113-49119.	1.6	52
10	Purification and characterization of a nitrilase from <i>Fusarium solani</i> O1. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 50, 99-106.	1.8	51
11	Biodegradation of tetrabromobisphenol A by oxidases in basidiomycetous fungi and estrogenic activity of the biotransformation products. <i>Bioresource Technology</i> , 2011, 102, 9409-9415.	4.8	51
12	The 14-3-3 Protein Affects the Conformation of the Regulatory Domain of Human Tyrosine Hydroxylase. <i>Biochemistry</i> , 2008, 47, 1768-1777.	1.2	49
13	Alkaloid Cluster Gene <i>ccsA</i> of the Ergot Fungus <i>Claviceps purpurea</i> Encodes Chanoclavine I Synthase, a Flavin Adenine Dinucleotide-Containing Oxidoreductase Mediating the Transformation of <i>N</i> -Methyl-Dimethylallyltryptophan to Chanoclavine I. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1822-1830.	1.4	49
14	Role of individual phosphorylation sites for the 14-3-3-protein-dependent activation of yeast neutral trehalase Nth1. <i>Biochemical Journal</i> , 2012, 443, 663-670.	1.7	47
15	Dendri-RAFTs: a second generation of cyclopeptide-based glycoclusters. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1948.	1.5	44
16	Calmodulin and S100A1 Protein Interact with N Terminus of TRPM3 Channel. <i>Journal of Biological Chemistry</i> , 2012, 287, 16645-16655.	1.6	43
17	Biodegradation of brominated aromatics by cultures and laccase of <i>Trametes versicolor</i> . <i>Chemosphere</i> , 2009, 76, 826-832.	4.2	42
18	Cytochrome b5 and epoxide hydrolase contribute to benzo[<i>a</i>]pyrene-DNA adduct formation catalyzed by cytochrome P450 1A1 under low NADPH:P450 oxidoreductase conditions. <i>Toxicology</i> , 2014, 318, 1-12.	2.0	41

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19	Hydrolysis of benzonitrile herbicides by soil actinobacteria and metabolite toxicity. <i>Biodegradation</i> , 2010, 21, 761-770.	1.5	40
20	Identification of a genotoxic mechanism for the carcinogenicity of the environmental pollutant and suspected human carcinogeno-anisidine. <i>International Journal of Cancer</i> , 2005, 116, 667-678.	2.3	36
21	Intrinsically Disordered Enamel Matrix Protein Ameloblastin Forms Ribbon-like Supramolecular Structures via an N-terminal Segment Encoded by Exon 5. <i>Journal of Biological Chemistry</i> , 2013, 288, 22333-22345.	1.6	36
22	Biomarkers of <i>Aspergillus</i> spores: Strain typing and protein identification. <i>International Journal of Mass Spectrometry</i> , 2009, 280, 162-168.	0.7	34
23	14-3-3 protein interacts with and affects the structure of RGS domain of regulator of G protein signaling 3 (RGS3). <i>Journal of Structural Biology</i> , 2010, 170, 451-461.	1.3	34
24	Single-step affinity purification of recombinant proteins using a self-excising module from <i>Neisseria meningitidis</i> FrpC. <i>Protein Science</i> , 2008, 17, 1834-1843.	3.1	31
25	Purification and characterization of nitrilase from <i>Fusarium solani</i> IMI196840. <i>Process Biochemistry</i> , 2010, 45, 1115-1120.	1.8	31
26	±-Naphthoflavone acts as activator and reversible or irreversible inhibitor of rabbit microsomal CYP3A6. <i>Chemico-Biological Interactions</i> , 2001, 138, 85-106.	1.7	30
27	Nonribosomal cyclic peptides: specific markers of fungal infections. <i>Journal of Mass Spectrometry</i> , 2006, 41, 563-576.	0.7	29
28	Characterization of Pseudocyclins A-E, a Suite of Cyclic Peptides Produced by <i>Pseudallescheria boydii</i> . <i>Journal of Natural Products</i> , 2010, 73, 1027-1032.	1.5	29
29	Characterization of sperm surface protein patterns of ejaculated and capacitated boar sperm, with the detection of ZP binding candidates. <i>International Journal of Biological Macromolecules</i> , 2013, 61, 322-328.	3.6	29
30	The <i>Neisseria meningitidis</i> Outer Membrane Lipoprotein FrpD Binds the RTX Protein FrpC. <i>Journal of Biological Chemistry</i> , 2005, 280, 3251-3258.	1.6	28
31	Chemopreventive compounds—View from the other side. <i>Chemico-Biological Interactions</i> , 2009, 180, 1-9.	1.7	28
32	Mutasynthesis of Lincomycin Derivatives with Activity against Drug-Resistant Staphylococci. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 927-930.	1.4	26
33	Metabolomic profiling of urinary changes in mice with monosodium glutamate-induced obesity. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 567-578.	1.9	26
34	Biotransformation of benzonitrile herbicides via the nitrile hydratase-amidase pathway in rhodococci. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 1811-1819.	1.4	25
35	PIP2 and PIP3 interact with N-terminus region of TRPM4 channel. <i>Biophysical Chemistry</i> , 2015, 205, 24-32.	1.5	25
36	Extraribosomal cyclic tetradepsipeptides beauverolides: profiling and modeling the fragmentation pathways. <i>Journal of Mass Spectrometry</i> , 2004, 39, 949-960.	0.7	23

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37	Hydroxylated anthraquinones produced by <i>Geosmithia</i> species. <i>Folia Microbiologica</i> , 2009, 54, 179-187.	1.1	23
38	Biophysical characterization of recombinant human ameloblastin. <i>European Journal of Oral Sciences</i> , 2011, 119, 261-269.	0.7	22
39	Cryopreservation of common carp (<i>Cyprinus carpio</i> L.) sperm induces protein phosphorylation in tyrosine and threonine residues. <i>Theriogenology</i> , 2013, 80, 84-89.	0.9	22
40	Analysis of benzo[a]pyrene metabolites formed by rat hepatic microsomes using high pressure liquid chromatography: optimization of the method. <i>Interdisciplinary Toxicology</i> , 2009, 2, 239-44.	1.0	19
41	Glycosylation Protects Proteins against Free Radicals Generated from Toxic Xenobiotics. <i>Toxicological Sciences</i> , 2010, 117, 359-374.	1.4	19
42	The combination of hydrogen/deuterium exchange or chemical cross-linking techniques with mass spectrometry: Mapping of human 14-3-3 η homodimer interface. <i>Journal of Structural Biology</i> , 2012, 179, 10-17.	1.3	19
43	Enzymes Involved in the Metabolism of the Carcinogen 2-Nitroanisole: Evidence for Its Oxidative Detoxication by Human Cytochromes P450. <i>Chemical Research in Toxicology</i> , 2004, 17, 663-671.	1.7	17
44	Synthesis of Multivalent Glycoconjugates Containing the Immunoactive LELTE Peptide: Effect of Glycosylation on Cellular Activation and Natural Killing by Human Peripheral Blood Mononuclear Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 6800-6808.	6.6	17
45	Enzymatic preparation of silybin phase II metabolites: sulfation using aryl sulfotransferase from rat liver. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 10391-10398.	1.7	16
46	The influence of dicoumarol on the bioactivation of the carcinogen aristolochic acid I in rats. <i>Mutagenesis</i> , 2014, 29, 189-200.	1.0	16
47	Hydnocarpin-Type Flavonolignans: Semisynthesis and Inhibitory Effects on <i>Staphylococcus aureus</i> Biofilm Formation. <i>Journal of Natural Products</i> , 2015, 78, 2095-2103.	1.5	16
48	Structural requirements for inhibitors of cytochromes P450 2B: Assessment of the enzyme interaction with diamondoids. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2005, 20, 25-33.	2.5	15
49	Redox Cycling in the Metabolism of the Environmental Pollutant and Suspected Human Carcinogen <i>o</i> -Anisidine by Rat and Rabbit Hepatic Microsomes. <i>Chemical Research in Toxicology</i> , 2008, 21, 1610-1621.	1.7	14
50	The interactions of the C-terminal region of the TRPC6 channel with calmodulin. <i>Neurochemistry International</i> , 2010, 56, 363-366.	1.9	14
51	Time-Dependent Oxidation during Nano-Assisted Laser Desorption Ionization Mass Spectrometry: A Useful Tool for Structure Determination or a Source of Possible Confusion?. <i>Analytical Chemistry</i> , 2011, 83, 5661-5665.	3.2	14
52	<i>Claviceps nigricans</i> and <i>Claviceps grohii</i> : Their Alkaloids and Phylogenetic Placement. <i>Journal of Natural Products</i> , 2008, 71, 1085-1088.	1.5	13
53	The binding affinity of carcinogenic N-nitrosodimethylamine and N-nitrosomethylaniline to cytochromes P450 2B4, 2E1 and 3A6 does not dictate the rate of their enzymatic N-demethylation. <i>General Physiology and Biophysics</i> , 2010, 29, 175-185.	0.4	13
54	Structural Modulation of Phosducin by Phosphorylation and 14-3-3 Protein Binding. <i>Biophysical Journal</i> , 2012, 103, 1960-1969.	0.2	13

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55	NADPH- and NADH-dependent metabolism of and DNA adduct formation by benzo[a]pyrene catalyzed with rat hepatic microsomes and cytochrome P450 1A1. Monatshefte für Chemie, 2016, 147, 847-855.	0.9	12
56	Heterobifunctional Photoaffinity Probes for Cytochrome P450 2B. Archives of Biochemistry and Biophysics, 1999, 370, 208-215.	1.4	11
57	Oxidation of carcinogenic benzo[a]pyrene by human and rat cytochrome P450 1A1 and its influencing by cytochrome b5 - a comparative study. Neuroendocrinology Letters, 2013, 34 Suppl 2, 55-63.	0.2	11
58	Production of (+)-globulol needle crystals on the surface mycelium of Quambalaria cyanescens. Folia Microbiologica, 2008, 53, 15-22.	1.1	10
59	Hepatic Proteome Sensitivity in Rainbow Trout after Chronically Exposed to a Human Pharmaceutical Verapamil. Molecular and Cellular Proteomics, 2012, 11, M111.008409.	2.5	10
60	Characterization of the part of N-terminal PIP2 binding site of the TRPM1 channel. Biophysical Chemistry, 2015, 207, 135-142.	1.5	9
61	Photo-initiated crosslinking extends mapping of the protein-protein interface to membrane-embedded portions of cytochromes P450 2B4 and b5. Methods, 2015, 89, 128-137.	1.9	9
62	Modulation of human cytochrome P450 1A1-mediated oxidation of benzo[a]pyrene by NADPH:cytochrome P450 oxidoreductase and cytochrome b5. Neuroendocrinology Letters, 2014, 35 Suppl 2, 105-13.	0.2	9
63	Liquid chromatography-tandem mass spectrometry characterization of ergocristam degradation products. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 873, 165-172.	1.2	8
64	The Application of an Emerging Technique for Protein-Protein Interaction Interface Mapping: The Combination of Photo-Initiated Cross-Linking Protein Nanoprobes with Mass Spectrometry. International Journal of Molecular Sciences, 2014, 15, 9224-9241.	1.8	8
65	Mapping of cytochrome P450 2B4 substrate binding sites by photolabile probe 3-azidiamantane: Identification of putative substrate access regions. Archives of Biochemistry and Biophysics, 2007, 468, 82-91.	1.4	7
66	Comparative protein profiles: Potential molecular markers from spermatozoa of Acipenseriformes (Chondrostei, Pisces). Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2010, 5, 302-307.	0.4	7
67	The characterization of a novel S100A1 binding site in the N-terminus of TRPM1. International Journal of Biochemistry and Cell Biology, 2016, 78, 186-193.	1.2	7
68	Access to bifunctionalized biomolecular platforms using oxime ligation. Carbohydrate Research, 2014, 393, 9-14.	1.1	6
69	Panel of monoclonal antibodies to sperm surface proteins as a tool for monitoring localization and identification of sperm-zona pellucida receptors. Cell and Tissue Research, 2015, 359, 895-908.	1.5	6
70	Acrosin inhibitor detection along the boar epididymis. International Journal of Biological Macromolecules, 2016, 82, 733-739.	3.6	6
71	Monoclonal Antibody F5C-47 Against Carp Sperm Creatine Kinase. Hybridoma, 2006, 25, 154-157.	0.5	5
72	Reproductive tissue expression and sperm localization of porcine beta-microseminoprotein. Cell and Tissue Research, 2011, 344, 341-353.	1.5	5

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73	Comparison of Protein Fractions in Seminal Plasma from Multiple Sperm Collections in Sterlet (<i>Acipenser ruthenus</i>). <i>Reproduction in Domestic Animals</i> , 2013, 48, 156-159.	0.6	5
74	<i>Scedosporium</i> and <i>Pseudallescheria</i> low molecular weight metabolites revealed by database search. <i>Mycoses</i> , 2011, 54, 37-42.	1.8	4
75	Determination of sibiromycin and its natural derivatives using new analytical and structural approaches. <i>Journal of Chromatography A</i> , 2011, 1218, 83-91.	1.8	4
76	Heterologous expression of human cytochrome P450 2S1 in <i>Escherichia coli</i> and investigation of its role in metabolism of benzo[a]pyrene and ellipticine. <i>Monatshefte für Chemie</i> , 2016, 147, 881-888.	0.9	4
77	The crystal structure of XdpB, the bacterial old yellow enzyme, in an FMN-free form. <i>PLoS ONE</i> , 2018, 13, e0195299.	1.1	4
78	Chicken Egg Yolk as an Excellent Source of Highly Specific Antibodies Against Cytochromes P450. <i>Collection of Czechoslovak Chemical Communications</i> , 2004, 69, 659-673.	1.0	4
79	Mapping of interaction between cytochrome P450 2B4 and cytochrome b5: the first evidence of two mutual orientations. <i>Neuroendocrinology Letters</i> , 2012, 33 Suppl 3, 41-7.	0.2	4
80	Structural analysis of binding of a diamantoid substrate to cytochrome P450 2B4: possible role of Arg 133 in modulation of function and activity of this enzyme. <i>Neuroendocrinology Letters</i> , 2008, 29, 722-7.	0.2	1
81	A study on 17alpha-ethinylestradiol metabolism in rat and <i>Pleurotus ostreatus</i> . <i>Neuroendocrinology Letters</i> , 2015, 36 Suppl 1, 5-12.	0.2	1
82	Effectiveness of human cytochrome P450 3A4 present in liposomal and microsomal nanoparticles in formation of covalent DNA adducts by ellipticine. <i>Neuroendocrinology Letters</i> , 2016, 37, 95-102.	0.2	1
83	Fast and Efficient Solution of Scattering Integral Equations. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0