

Miroslav Sulc

List of Publications by Year in descending order

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83
papers

2,031
citations

186265

28
h-index

289244

40
g-index

86
all docs

86
docs citations

86
times ranked

2746
citing authors

#	ARTICLE	IF	CITATIONS
1	The crystal structure of XdpB, the bacterial old yellow enzyme, in an FMN-free form. PLoS ONE, 2018, 13, e0195299.	2.5	4
2	Heterologous expression of human cytochrome P450 2S1 in Escherichia coli and investigation of its role in metabolism of benzo[a]pyrene and ellipticine. Monatshefte für Chemie, 2016, 147, 881-888.	1.8	4
3	The impact of individual cytochrome P450 enzymes on oxidative metabolism of benzo[a]pyrene in human livers. Environmental and Molecular Mutagenesis, 2016, 57, 229-235.	2.2	56
4	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.	2.8	7
5	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.	1.8	12
6	Metabolomic profiling of urinary changes in mice with monosodium glutamate-induced obesity. Analytical and Bioanalytical Chemistry, 2016, 408, 567-578.	3.7	26
7	Acrosin inhibitor detection along the boar epididymis. International Journal of Biological Macromolecules, 2016, 82, 733-739.	7.5	6
8	Effectiveness of human cytochrome P450 3A4 present in liposomal and microsomal nanoparticles in formation of covalent DNA adducts by ellipticine. Neuroendocrinology Letters, 2016, 37, 95-102.	0.2	1
9	PIP2 and PIP3 interact with N-terminus region of TRPM4 channel. Biophysical Chemistry, 2015, 205, 24-32.	2.8	25
10	Characterization of the part of N-terminal PIP2 binding site of the TRPM1 channel. Biophysical Chemistry, 2015, 207, 135-142.	2.8	9
11	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.	2.9	6
12	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.	3.8	9
13	Hydnocarpin-Type Flavonolignans: Semisynthesis and Inhibitory Effects on Staphylococcus aureus Biofilm Formation. Journal of Natural Products, 2015, 78, 2095-2103.	3.0	16
14	A study on 17alpha-ethinylestradiol metabolism in rat and Pleurotus ostreatus. Neuroendocrinology Letters, 2015, 36 Suppl 1, 5-12.	0.2	1
15	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.	4.1	8
16	The influence of dicoumarol on the bioactivation of the carcinogen aristolochic acid I in rats. Mutagenesis, 2014, 29, 189-200.	2.6	16
17	Cytochrome b5 and epoxide hydrolase contribute to benzo[a]pyrene-DNA adduct formation catalyzed by cytochrome P450 1A1 under low NADPH:P450 oxidoreductase conditions. Toxicology, 2014, 318, 1-12.	4.2	41
18	Access to bifunctionalized biomolecular platforms using oxime ligation. Carbohydrate Research, 2014, 393, 9-14.	2.3	6

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19	Modulation of human cytochrome P450 1A1-mediated oxidation of benzo[a]pyrene by NADPH:cytochrome P450 oxidoreductase and cytochrome b5. <i>Neuroendocrinology Letters</i> , 2014, 35 Suppl 2, 105-113.	0.2	9
20	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.	1.4	5
21	Enzymatic preparation of silybin phase II metabolites: sulfation using aryl sulfotransferase from rat liver. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 10391-10398.	3.6	16
22	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.	7.5	29
23	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.	2.1	22
24	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.	3.4	36
25	Oxidation of carcinogenic benzo[a]pyrene by human and rat cytochrome P450 1A1 and its influencing by cytochrome b5 - a comparative study. <i>Neuroendocrinology Letters</i> , 2013, 34 Suppl 2, 55-63.	0.2	11
26	Hepatic Proteome Sensitivity in Rainbow Trout after Chronically Exposed to a Human Pharmaceutical Verapamil. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.008409.	3.8	10
27	Calmodulin and S100A1 Protein Interact with N Terminus of TRPM3 Channel. <i>Journal of Biological Chemistry</i> , 2012, 287, 16645-16655.	3.4	43
28	Structural Modulation of Phosducin by Phosphorylation and 14-3-3 Protein Binding. <i>Biophysical Journal</i> , 2012, 103, 1960-1969.	0.5	13
29	Biotransformation of benzonitrile herbicides via the nitrile hydratase/amidase pathway in rhodococci. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 1811-1819.	3.0	25
30	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.	2.8	19
31	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.	3.7	47
32	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
33	Dendri-RAFTs: a second generation of cyclopeptide-based glycoclusters. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1948.	2.8	44
34	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.	6.5	14
35	<i>Scedosporium</i> and <i>Pseudallescheria</i> low molecular weight metabolites revealed by database search. <i>Mycoses</i> , 2011, 54, 37-42.	4.0	4
36	Biophysical characterization of recombinant human ameloblastin. <i>European Journal of Oral Sciences</i> , 2011, 119, 261-269.	1.5	22

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37	Biodegradation of tetrabromobisphenol A by oxidases in basidiomycetous fungi and estrogenic activity of the biotransformation products. <i>Bioresource Technology</i> , 2011, 102, 9409-9415.	9.6	51
38	Reproductive tissue expression and sperm localization of porcine beta-microseminoprotein. <i>Cell and Tissue Research</i> , 2011, 344, 341-353.	2.9	5
39	Determination of sibiromycin and its natural derivatives using new analytical and structural approaches. <i>Journal of Chromatography A</i> , 2011, 1218, 83-91.	3.7	4
40	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.	3.1	56
41	Hydrolysis of benzonitrile herbicides by soil actinobacteria and metabolite toxicity. <i>Biodegradation</i> , 2010, 21, 761-770.	3.0	40
42	Purification and characterization of nitrilase from <i>Fusarium solani</i> IMI196840. <i>Process Biochemistry</i> , 2010, 45, 1115-1120.	3.7	31
43	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.	0.9	13
44	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 N-Methyl-Dimethylallyltryptophan to Chanoclavine I. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1822-1830.	3.1	49
45	Mutasynthesis of Lincomycin Derivatives with Activity against Drug-Resistant Staphylococci. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 927-930.	3.2	26
46	Glycosylation Protects Proteins against Free Radicals Generated from Toxic Xenobiotics. <i>Toxicological Sciences</i> , 2010, 117, 359-374.	3.1	19
47	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.	13.7	17
48	Characterization of Pseudacyclins A ⁺ E, a Suite of Cyclic Peptides Produced by <i>Pseudallescheria boydii</i> . <i>Journal of Natural Products</i> , 2010, 73, 1027-1032.	3.0	29
49	The interactions of the C-terminal region of the TRPC6 channel with calmodulin. <i>Neurochemistry International</i> , 2010, 56, 363-366.	3.8	14
50	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.	2.8	34
51	Comparative protein profiles: Potential molecular markers from spermatozoa of Acipenseriformes (Chondrostei, Pisces). <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2010, 5, 302-307.	1.0	7
52	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.	2.1	69
53	14-3-3 Protein Masks the DNA Binding Interface of Forkhead Transcription Factor FOXO4. <i>Journal of Biological Chemistry</i> , 2009, 284, 19349-19360.	3.4	55
54	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

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55	Chemopreventive compoundsâ€”View from the other side. <i>Chemico-Biological Interactions</i> , 2009, 180, 1-9.	4.0	28
56	Hydroxylated anthraquinones produced by <i>Geosmithia</i> species. <i>Folia Microbiologica</i> , 2009, 54, 179-187.	2.3	23
57	Biomarkers of <i>Aspergillus</i> spores: Strain typing and protein identification. <i>International Journal of Mass Spectrometry</i> , 2009, 280, 162-168.	1.5	34
58	Biodegradation of brominated aromatics by cultures and laccase of <i>Trametes versicolor</i> . <i>Chemosphere</i> , 2009, 76, 826-832.	8.2	42
59	Liquid chromatographyâ€”tandem mass spectrometry characterization of ergocristam degradation products. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 873, 165-172.	2.3	8
60	Production of (+)-globulol needle crystals on the surface mycelium of <i>Quambalaria cyanescens</i> . <i>Folia Microbiologica</i> , 2008, 53, 15-22.	2.3	10
61	Singleâ€”step affinity purification of recombinant proteins using a selfâ€”excising module from <i>Neisseria meningitidis</i> FrpC. <i>Protein Science</i> , 2008, 17, 1834-1843.	7.6	31
62	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
63	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.	3.3	14
64	The 14-3-3 Protein Affects the Conformation of the Regulatory Domain of Human Tyrosine Hydroxylase. <i>Biochemistry</i> , 2008, 47, 1768-1777.	2.5	49
65	<i>Claviceps nigricans</i> and <i>Claviceps grohii</i> : Their Alkaloids and Phylogenetic Placement. <i>Journal of Natural Products</i> , 2008, 71, 1085-1088.	3.0	13
66	Fast and Efficient Solution of Scattering Integral Equations. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
67	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
68	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.	3.4	68
69	Mapping of cytochrome P450 2B4 substrate binding sites by photolabile probe 3-azidiamantane: Identification of putative substrate access regions. <i>Archives of Biochemistry and Biophysics</i> , 2007, 468, 82-91.	3.0	7
70	Nonribosomal cyclic peptides: specific markers of fungal infections. <i>Journal of Mass Spectrometry</i> , 2006, 41, 563-576.	1.6	29
71	Monoclonal Antibody F5C-47 Against Carp Sperm Creatine Kinase. <i>Hybridoma</i> , 2006, 25, 154-157.	0.4	5
72	Identification of a genotoxic mechanism for the carcinogenicity of the environmental pollutant and suspected human carcinogen <i>o</i> -anisidine. <i>International Journal of Cancer</i> , 2005, 116, 667-678.	5.1	36

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73	The <i>Neisseria meningitidis</i> Outer Membrane Lipoprotein FrpD Binds the RTX Protein FrpC. <i>Journal of Biological Chemistry</i> , 2005, 280, 3251-3258.	3.4	28
74	14-3-3 Protein Interacts with Nuclear Localization Sequence of Forkhead Transcription Factor FoxO4. <i>Biochemistry</i> , 2005, 44, 11608-11617.	2.5	100
75	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.	5.2	15
76	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.	3.4	79
77	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.	3.4	52
78	Extraribosomal cyclic tetrapeptides beauverolides: profiling and modeling the fragmentation pathways. <i>Journal of Mass Spectrometry</i> , 2004, 39, 949-960.	1.6	23
79	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.	3.3	17
80	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.	3.4	55
81	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
82	±-Naphthoflavone acts as activator and reversible or irreversible inhibitor of rabbit microsomal CYP3A6. <i>Chemico-Biological Interactions</i> , 2001, 138, 85-106.	4.0	30
83	Heterobifunctional Photoaffinity Probes for Cytochrome P450 2B. <i>Archives of Biochemistry and Biophysics</i> , 1999, 370, 208-215.	3.0	11