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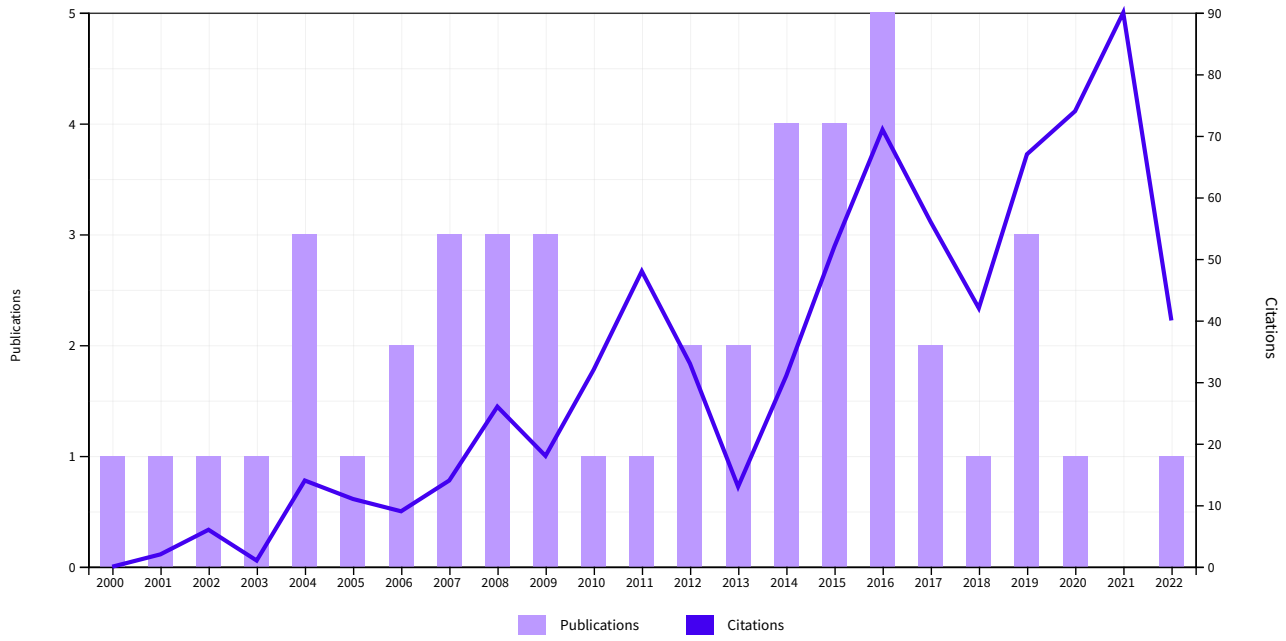

46 Publications

Sort by: **Citations: highest first** 1 of 1

		Citations						
		Previous year				Next year	Average per year	Total
		2018	2019	2020	2021	2022		
	Total	42	67	74	90	40	34.09	750
1	Gaseous O-2, NO, and CO in Signal Transduction: Structure and Function Relationships of Heme-Based Gas Sensors and Heme-Redox Sensors Shimizu, T; Huang, DY; (...); Martinkova, M Jul 8 2015 | CHEMICAL REVIEWS 115 (13) , pp.6491-6533	13	14	13	18	4	12.25	98
2	Elucidation of the heme binding site of heme-regulated eukaryotic initiation factor 2 alpha kinase and the role of the regulatory motif in heme sensing by spectroscopic and catalytic studies of mutant proteins Igarashi, J; Murase, M; (...); Shimizu, T Jul 4 2008 | JOURNAL OF BIOLOGICAL CHEMISTRY 283 (27) , pp.18782-18791	3	9	6	4	3	4.93	74

3	Heme-based Globin-coupled Oxygen Sensors: Linking Oxygen Binding to Functional Regulation of Diguanylate Cyclase, Histidine Kinase, and Methyl-accepting Chemotaxis Martinkova, M; Kitanishi, K and Shimizu, T Sep 27 2013 | JOURNAL OF BIOLOGICAL CHEMISTRY 288 (39) , pp.27702-27711	3	9	4	6	3	5.8	58
4	Heme: emergent roles of heme in signal transduction, functional regulation and as catalytic centres Shimizu, T; Lengalova, A; (...); Martinkova, M Dec 21 2019 | CHEMICAL SOCIETY REVIEWS 48 (24) , pp.5624-5657	0	0	11	29	9	12.25	49
5	Characterization of heme-regulated eIF2 alpha kinase: Roles of the N-terminal domain in the oligomeric state, heme binding, catalysis, and inhibition Miksanova, M; Igarashi, J; (...); Shimizu, T Aug 15 2006 | BIOCHEMISTRY 45 (32) , pp.9894-9905	2	2	4	1	1	2.88	49
6	Mechanism of peroxidase-mediated oxidation of carcinogenic o-anisidine and its binding to DNA Stiborova, M; Miksanova, M; (...); Frei, E Mar 20 2002 | MUTATION RESEARCH-FUNDAMENTAL AND MOLECULAR MECHANISMS OF MUTAGENESIS 500 (1-2) , pp.49-66	1	1	1	1	0	1.52	32
7	Identification of a genotoxic mechanism for the carcinogenicity of the environmental pollutant and suspected human carcinogen o-anisidine Stiborova, M; Miksanova, M; (...); Frei, E Sep 20 2005 | INTERNATIONAL JOURNAL OF CANCER 116 (5) , pp.667-678	1	0	2	2	0	1.67	30
8	The roles of thiolate-heme proteins, other than the P450 cytochromes, in the regulation of heme-sensor proteins Igarashi, J; Kitanishi, K; (...); Shimizu, T 2008 | ACTA CHIMICA SLOVENICA 55 (1) , pp.67-74	1	0	0	0	1	1.93	29
9	Identification of a genotoxic mechanism for 2-nitroanisole carcinogenicity and of its carcinogenic potential for humans Stiborova, M; Miksanova, M; (...); Frei, E May 2004 | CARCINOGENESIS 25 (5) , pp.833-840	0	1	1	0	0	1.11	21
10	Heme peroxidases: Structure, function, mechanism and involvement in activation of carcinogens. A review Stiborova, M; Miksanova, M; (...); Frei, E Mar 2000 | COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS 65 (3) , pp.297-325	0	0	1	0	0	0.87	20
11	Modulation of human cytochrome P450 1A1-mediated oxidation of benzo[a]pyrene by NADPH:cytochrome P450 oxidoreductase and cytochrome b(5) Indra, R; Moserova, M; (...); Stiborova, M 2014 | NEUROENDOCRINOLOGY LETTERS 35 , pp.105-113	1	1	1	0	0	1.89	17
12	Hydroxylation of phenol to catechol by Candida tropicalis: Involvement of cytochrome P450 Stiborova, M; Sucha, V; (...); Paca, J Jun 2003 | GENERAL PHYSIOLOGY AND BIOPHYSICS 22 (2) , pp.167-179	2	0	0	1	0	0.85	17
13	Coordination and redox state-dependent structural changes of the heme-based oxygen sensor AfGcHK associated with intraprotein signal transduction Stranava, M; Man, P; (...); Martinkova, M Dec 22 2017 | JOURNAL OF BIOLOGICAL CHEMISTRY 292 (51) , pp.20921-20935	1	3	5	3	2	2.33	14
14	Kinetic Analysis of a Globin-Coupled Histidine Kinase, AfGcHK: Effects of the Heme Iron Complex, Response Regulator, and Metal Cations on Autophosphorylation Activity Fojtikova, V; Stranava, M; (...); Martinkova, M Aug 18 2015 | BIOCHEMISTRY 54 (32) , pp.5017-5029	1	3	2	2	1	1.75	14

15	Structural characterization of the heme-based oxygen sensor, AfGcHK, its interactions with the cognate response regulator, and their combined mechanism of action in a bacterial two-component signaling system Stranava, M; Martinek, V; (...); Martinkova, M Oct 2016 | PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS 84 (10) , pp.1375-1389	2	2	2	3	1	1.86	13
16	Enzymes involved in the metabolism of the carcinogen 2-nitroanisole: Evidence for its oxidative detoxication by human cytochromes P450 Miksanova, M; Sulc, M; (...); Stiborova, M May 2004 | CHEMICAL RESEARCH IN TOXICOLOGY 17 (5) , pp.663-671	0	3	1	0	0	0.68	13
17	Exposure to endocrine disruptors 17alpha-ethinylestradiol and estradiol influences cytochrome P450 1A1-mediated genotoxicity of benzo[a]pyrene and expression of this enzyme in rats Stiborova, M; Dracinska, H; (...); Arlt, VM May 1 2018 | TOXICOLOGY 400 , pp.48-56	0	2	5	5	0	2.4	12
18	Identification of Cys385 in the isolated kinase insertion domain of heme-regulated eIF2 alpha kinase (HRI) as the heme axial ligand by site-directed mutagenesis and spectral characterization Hirai, K; Martinkova, M; (...); Shimizu, T Aug 2007 | JOURNAL OF INORGANIC BIOCHEMISTRY 101 (8) , pp.1172-1179	1	1	0	0	1	0.75	12
19	Metabolism of carcinogenic 2-nitroanisole in rat, rabbit, porcine and human hepatic cytosol Miksanova, M; Novak, P; (...); Stiborova, M 2004 | COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS 69 (3) , pp.589-602	0	0	0	0	0	0.63	12
20	Eukaryotic initiation factor 2 alpha kinase is a nitric oxide-responsive mercury sensor enzyme: Potent inhibition of catalysis by the mercury cation and reversal by nitric oxide Martinkova, M; Igarashi, J and Shimizu, T Aug 21 2007 | FEBS LETTERS 581 (21) , pp.4109-4114	0	1	0	0	1	0.69	11
21	Oxidative detoxication of carcinogenic 2-nitroanisole by human, rat and rabbit cytochrome P450 Dracinska, H; Miksanova, M; (...); Stiborova, M 11th Interdisciplinary Slovak-Czech Toxicological Conference Dec 2006 | NEUROENDOCRINOLOGY LETTERS 27 , pp.9-13	0	1	0	0	0	0.65	11
22	Highly conserved nucleotide phosphatase essential for membrane lipid homeostasis in Streptococcus pneumoniae Kuipers, K; Gallay, C; (...); de Jonge, MI Jul 2016 | MOLECULAR MICROBIOLOGY 101 (1) , pp.12-26	1	1	2	3	0	1.43	10
23	Introduction of water into the heme distal side by Leu65 mutations of an oxygen sensor, YddV, generates verdoheme and carbon monoxide, exerting the heme oxygenase reaction Stranava, M; Martinkova, M; (...); Shimizu, T Nov 2014 | JOURNAL OF INORGANIC BIOCHEMISTRY 140 , pp.29-38	0	1	0	1	2	1.11	10
24	Formation, Persistence, and Identification of DNA Adducts Formed by the Carcinogenic Environmental Pollutant o-Anisidine in Rats Naiman, K; Dracinsky, M; (...); Stiborova, M Jun 2012 | TOXICOLOGICAL SCIENCES 127 (2) , pp.348-359	1	1	1	0	1	0.91	10
25	Ellipticine-loaded apoferritin nanocarrier retains DNA adduct-based cytochrome P450-facilitated toxicity in neuroblastoma cells Indra, R; Cerna, T; (...); Stiborova, M May 1 2019 | TOXICOLOGY 419 , pp.40-54	0	1	4	4	0	2.25	9
26	Ultrafast Spectroscopy Evidence for Picosecond Ligand Exchange at the Binding Site of a Herne Protein: Heme-Based Sensor YddV Lambry, JC; Stranava, M; (...); Vos, MH Jan 7 2016 | JOURNAL OF PHYSICAL CHEMISTRY LETTERS 7 (1) , pp.69-74	1	1	0	1	1	1.29	9

27	Probing the ligand recognition and discrimination environment of the globin-coupled oxygen sensor protein YddV by FTIR and time-resolved step-scan FTIR spectroscopy Pavlou, A; Martinkova, M; (...); Pinakoulaki, E 2015 | PHYSICAL CHEMISTRY CHEMICAL PHYSICS 17 (26) , pp.17007-17015	2	1	2	0	1	1.13	9
28	Conversion of a heme-based oxygen sensor to a heme oxygenase by hydrogen sulfide: effects of mutations in the heme distal side of a heme-based oxygen sensor phosphodiesterase (Ec DOS) Du, YM; Liu, GF; (...); Shimizu, T Oct 2013 | BIOMETALS 26 (5) , pp.839-852	0	1	0	0	1	0.9	9
29	3-Aminobenzanthrone, a human metabolite of the carcinogenic environmental pollutant 3-nitrobenzanthrone, induces biotransformation enzymes in rat kidney and lung Stiborova, M; Dracinska, H; (...); Arlt, VM May 31 2009 | MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS 676 (1-2) , pp.93-101	2	0	0	0	0	0.64	9
30	To the mechanism of horseradish peroxidase-mediated degradation of a recalcitrant dye Remazol Brilliant Blue R Miksanova, M; Hudecek, J; (...); Stiborova, M Apr 2001 | COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS 66 (4) , pp.663-675	0	1	0	0	0	0.41	9
31	Human cytochrome-P450 enzymes metabolize N-(2-methoxyphenyl)hydroxylamine, a metabolite of the carcinogens o-anisidine and o-nitroanisole, thereby dictating its genotoxicity Naiman, K; Martinkova, M; (...); Stiborova, M Dec 24 2011 | MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS 726 (2) , pp.160-168	1	0	1	0	0	0.67	8
32	Redox cycling in the metabolism of the environmental pollutant and suspected human carcinogen o-anisidine by rat and rabbit hepatic microsomes Naiman, K; Dracinska, H; (...); Stiborova, M Aug 2008 | CHEMICAL RESEARCH IN TOXICOLOGY 21 (8) , pp.1610-1621	0	1	0	0	0	0.53	8
33	Pressure effects reveal that changes in the redox states of the heme iron complexes in the sensor domains of two heme-based oxygen sensor proteins, EcDOS and YddV, have profound effects on their flexibility Anzenbacher, P; Marchal, S; (...); Martinkova, M Dec 2014 | FEBS JOURNAL 281 (23) , pp.5208-5219	0	1	0	0	1	0.78	7
34	Catalytic enhancement of the heme-based oxygen-sensing phosphodiesterase EcDOS by hydrogen sulfide is caused by changes in heme coordination structure Yan, F; Fojtikova, V; (...); Shimizu, T Aug 2015 | BIOMETALS 28 (4) , pp.637-652	0	1	0	0	2	0.75	6
35	The capacity and effectiveness of diosmectite and charcoal in trapping the compounds causing the most frequent intoxications in acute medicine: A comparative study Minarikova, M; Fojtikova, V; (...); Martinkova, M Jun 2017 | ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY 52 , pp.214-220	2	1	1	1	0	0.83	5
36	Effects of cytochrome P450 inhibitors on peroxidase activity Martinkova, M; Kubickova, B and Stiborova, M 2012 | NEUROENDOCRINOLOGY LETTERS 33 , pp.33-40	0	1	1	0	0	0.45	5
37	Rat cytochromes P450 oxidize 2-nitrophenol, a human metabolite of carcinogenic 2-nitroanisole Svobodova, M; Martinkova, M; (...); Stiborova, M 14th Interdisciplinary Czech-Slovak Toxicological Conference 2009 | NEUROENDOCRINOLOGY LETTERS 30 , pp.46-51	0	0	0	0	0	0.36	5
		0	0	0	3	1	1.33	

38	Disruption of the dimerization interface of the sensing domain in the dimeric heme-based oxygen sensor AfGcHK abolishes bacterial signal transduction Skalova, T; Lengalova, A; (...); Martinkova, M Feb 7 2020 | JOURNAL OF BIOLOGICAL CHEMISTRY 295 (6) , pp.1587-1597							
39	Exposure of rats to exogenous endocrine disruptors 17alpha-ethinylestradiol and benzo(a) pyrene and an estrogenic hormone estradiol induces expression of cytochromes P450 involved in their metabolism Borek-Dohalska, L; Klusonova, Z; (...); Stiborova, M 2016 | NEUROENDOCRINOLOGY LETTERS 37 , pp.84-94	0	0	3	1	0	0.57	4
40	Kinetic analysis of a globin-coupled diguanylate cyclase, YddV: Effects of heme iron redox state, axial ligands, and heme distal mutations on catalysis Lengalova, A; Fojtikova-Proskova, V; (...); Martinkova, M Dec 2019 | JOURNAL OF INORGANIC BIOCHEMISTRY 201	0	0	0	1	2	0.75	3
41	Effects of hydrogen sulfide on the heme coordination structure and catalytic activity of the globin-coupled oxygen sensor AfGcHK Fojtikova, V; Bartosova, M; (...); Martinkova, M Aug 2016 | BIOMETALS 29 (4) , pp.715-729	0	1	0	0	1	0.43	3
42	Structure-function relationships of the thiol-coordinating heme proteins, HRI, associated with protein synthesis, and NPAS2, a regulator of circadian rhythms Shimizu, T; Hikage, N; (...); Sagami, I 15th International Conference on Cytochromes P450 - Biochemistry, Biophysics and Functional Genomics 2007 | PROCEEDINGS OF THE 15TH INTERNATIONAL CONFERENCE ON CYTOCHROMES P450 - BIOCHEMISTRY, BIOPHYSICS AND FUNCTIONAL GENOMICS , pp.31-+	0	0	0	0	0	0.13	2
43	The Novel Role of Heme in Health and Diseases - Heme-Containing Sensor Proteins Martinkova, M 2022 | CHEMICKE LISTY 116 (3) , pp.163-171	0	0	0	0	0	0	0
44	Probing the structural properties and dynamics of the heme-based sensor protein YddV by time-resolved step-scan FTIR spectroscopy Pavlou, A; Martinkova, M; (...); Pinakoulaki, E 12th European Biological Inorganic Chemistry Conference (EuroBIC) Aug 2014 | JOURNAL OF BIOLOGICAL INORGANIC CHEMISTRY 19 , pp.S845-S845	0	0	0	0	0	0	0
45	IDENTIFICATION OF HUMAN ENZYMES OXIDIZING A HUMAN METABOLITE OF CARCINOGENIC 2-NITROANISOLE, 2-NITROPHENOL. EVIDENCE FOR ITS OXIDATIVE DETOXIFICATION BY HUMAN CYTOCHROMES P450 Svobodova, M; Martinkova, M; (...); Stiborova, M 2010 | COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS 75 (6) , pp.703-719	0	0	0	0	0	0	0
46	Preparation of apo-cytochrome b(5) utilizing heme transfer to apo-myoglobin Mrazova, B; Martinek, V; (...); Stiborova, M 14th Interdisciplinary Czech-Slovak Toxicological Conference 2009 | NEUROENDOCRINOLOGY LETTERS 30 , pp.72-79	0	0	0	0	0	0	0

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