Zbynek Hrkal

List of Publications by Year in descending order

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		257101	288905
88	1,896	24	40
papers	citations	h-index	g-index
89	89	89	1817
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transfer of Heme from Ferrihemoglobin and Ferrihemoglobin Isolated Chains to Hemopexin. FEBS Journal, 1974, 43, 73-78.	0.2	208
2	Partial characterization of the heme-binding serum glycoproteins rabbit and human hemopexin. Biochemistry, 1971, 10, 1746-1750.	1.2	126
3	Mitochondrial and endoplasmic reticulum stress-induced apoptotic pathways are activated by 5-aminolevulinic acid-based photodynamic therapy in HL60 leukemia cells. Journal of Photochemistry and Photobiology B: Biology, 2003, 69, 71-85.	1.7	99
4	Binding of Heme-Hemopexin Complexes by Soluble HxuA Protein Allows Utilization of This Complexed Heme by <i>Haemophilus influenzae</i> . Infection and Immunity, 1998, 66, 4511-4516.	1.0	95
5	The effects of heme-binding proteins on the peroxidative and catalatic activities of hemin. Free Radical Biology and Medicine, 1999, 27, 214-219.	1.3	88
6	Development of a tool for managing groundwater resources in semiâ€arid hard rock regions: application to a rural watershed in South India. Hydrological Processes, 2010, 24, 2784-2797.	1.1	63
7	Groundwater resources use and management in the Amu Darya River Basin (Central Asia). Environmental Earth Sciences, 2010, 59, 1183-1193.	1.3	61
8	Kinetics of heme interaction with heme-binding proteins: The effect of heme aggregation state. Biochimica Et Biophysica Acta - General Subjects, 1997, 1336, 497-501.	1.1	54
9	Identification of an outer membrane protein involved in utilization of hemoglobin-haptoglobin complexes by nontypeable Haemophilus influenzae. Infection and Immunity, 1996, 64, 3703-3712.	1.0	53
10	Selective destruction of leukaemic cells by photo-activation of 5-aminolaevulinic acid-induced protoporphyrin-IX. Journal of Photochemistry and Photobiology B: Biology, 1998, 47, 74-81.	1.7	48
11	Early apoptotic features of K562 cell death induced by 5-aminolaevulinic acid-based photodynamic therapy. Journal of Photochemistry and Photobiology B: Biology, 2004, 73, 67-78.	1.7	45
12	å¯¹æ¬§æ´²æ·±éƒ¨å«æ°´å±,å∰œ°ä¸‹æ°´è¡¥ç»™æ∮ä»¶çš"è®&†. Hydrogeology Journal, 2011, 19, 1545-1562.	0.9	41
13	Roles of heme iron-coordinating histidine residues of human hemopexin expressed in baculovirus-infected insect cells Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 8423-8427.	3.3	35
14	Carbon isotopes to constrain the origin and circulation pattern of groundwater in the north-western part of the Bohemian Cretaceous Basin (Czech Republic). Applied Geochemistry, 2010, 25, 1265-1279.	1.4	33
15	Involvement of HxuC Outer Membrane Protein in Utilization of Hemoglobin by Haemophilus influenzae. Infection and Immunity, 2001, 69, 2353-2363.	1.0	31
16	Labeling of apoptotic JURL-MK1 cells by fluorescent caspase-3 inhibitor FAM-DEVD-fmk occurs mainly at site(s) different from caspase-3 active site. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2007, 71A, 605-611.	1.1	30
17	Detection of Phase Variation in Expression of Proteins Involved in Hemoglobin and Hemoglobin-Haptoglobin Binding by Nontypeable Haemophilus influenzae. Infection and Immunity, 2000, 68, 4092-4101.	1.0	28
18	Occurrence of Pharmaceuticals in Wastewater and Their Interaction with Shallow Aquifers: A Case Study of HornÃ-BeÅ™kovice, Czech Republic. Water (Switzerland), 2017, 9, 218.	1.2	28

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19	Differential expression of nuclear HMG1, HMG2 proteins and H10 histone in various blood cells. Cell Biochemistry and Function, 1995, 13, 125-133.	1.4	27
20	Affinity chromatography of serum haemopexin. Journal of Chromatography A, 1977, 131, 453-457.	1.8	26
21	Vulnerability of groundwater to acid deposition, Jizersk \tilde{A} © Mountains, northern Czech Republic: construction and reliability of a GIS-based vulnerability map. Hydrogeology Journal, 2001, 9, 348-357.	0.9	26
22	Haeme binding to human serum albumin and to the three large cyanogen bromide albumin fragments. International Journal of Biochemistry & Cell Biology, 1978, 9, 349-355.	0.8	25
23	Hyaluronan-binding properties of human serum hemopexin. FEBS Letters, 1996, 383, 72-74.	1.3	25
24	Interferon-alpha suppresses proliferation of chronic myelogenous leukemia cells K562 by extending cell cycle S-phase without inducing apoptosis. Blood Cells, Molecules, and Diseases, 2004, 32, 262-269.	0.6	24
25	Palaeorecharge conditions of the deep aquifers of the Northern Aquitaine region (France). Journal of Hydrology, 2009, 368, 1-16.	2.3	24
26	Hydrophobic interaction chromatography of serum proteins on Phenyl-Sepharose CL-4B. Journal of Chromatography A, 1982, 242, 385-388.	1.8	23
27	Haeme binding to albumin and equilibria in the albumin-ferrihaemoglobin and albumin-haemopexin systems. International Journal of Biochemistry & Cell Biology, 1980, 12, 619-624.	0.8	22
28	Will the river Irtysh survive the year 2030? Impact of long-term unsuitable land use and water management of the upper stretch of the river catchment (North Kazakhstan). Environmental Geology, 2006, 50, 717-723.	1.2	21
29	A study of the conformation of human globin in solution by optical methods. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1967, 133, 527-534.	1.7	19
30	The 5-aminolaevulinic acid-based photodynamic effects on nuclei and nucleoli of HL-60 leukemic granulocytic precursors. Journal of Photochemistry and Photobiology B: Biology, 2000, 59, 80-86.	1.7	19
31	Photodynamic treatment (ALA-PDT) suppresses the expression of the oncogenic Bcr-Abl kinase and affects the cytoskeleton organization in K562 cells. Journal of Photochemistry and Photobiology B: Biology, 2006, 83, 205-212.	1.7	18
32	Isoformâ€specific cleavage of 14â€3â€3 proteins in apoptotic JURLâ€MK1 cells. Journal of Cellular Biochemistry, 2009, 106, 673-681.	1.2	18
33	Protein Changes in HL60 Leukemia Cells Associated with 5-Aminolevulinic Acid–based Photodynamic Therapy. Early Effects on Endoplasmic Reticulum Chaperones¶. Photochemistry and Photobiology, 2000, 72, 16.	1.3	18
34	Bilirubin and haeme binding to human serum albumin studied by spectroscopy methods. International Journal of Biochemistry & Cell Biology, 1984, 16, 799-804.	0.8	17
35	Isolation of human haemopexin in apo-form by chromatography on S-sepharose fast flow and blue sepharose CL-6B. Biomedical Chromatography, 1992, 6, 212-214.	0.8	17
36	Binding of meso-tetra(4-sulfonatophenyl)porphine to haemopexin and albumin studied by spectroscopy methods. International Journal of Biochemistry & Cell Biology, 1994, 26, 631-637.	0.8	17

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37	Photodynamic effects of meso-tetra(4-sulfonatophenyl) porphine on human leukemia cells HEL andHL6, human lymphocytes and bone marrow progenitor cells. Journal of Photochemistry and Photobiology B: Biology, 1997, 39, 269-278.	1.7	17
38	The proteomic study of sodium butyrate antiproliferative/cytodifferentiation effects on K562 cells. Blood Cells, Molecules, and Diseases, 2006, 37, 210-217.	0.6	17
39	Rho-Signaling Pathways in Chronic Myelogenous Leukemia. Cardiovascular & Hematological Disorders Drug Targets, 2008, 8, 261-267.	0.2	17
40	Suberoylanilide hydroxamic acid (SAHA) at subtoxic concentrations increases the adhesivity of human leukemic cells to fibronectin. Journal of Cellular Biochemistry, 2010, 109, 184-195.	1.2	17
41	Fast apoptosis and erythroid differentiation induced by imatinib mesylate in JURL-MK1 cells. Journal of Cellular Biochemistry, 2005, 95, 268-280.	1.2	16
42	Haerneâ€"Sepharose 4B as chromatographic matrix for the isolation of haemopexin from human serum. Journal of Chromatography A, 1979, 169, 500-504.	1.8	15
43	Accumulation of protoporphyrin-IX (PpIX) in leukemic cell lines following induction by 5-aminolevulinic acid (ALA). Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 2000, 126, 245-252.	0.5	15
44	Purification of human serum hemopexin by chromatography on DEAE-cellulose. Journal of Chromatography A, 1972, 72, 198-201.	1.8	14
45	Trends in impact of acidification on groundwater bodies in the Czech Republic; an estimation of atmospheric deposition at the horizon 2015. Journal of Atmospheric Chemistry, 2006, 53, 1-12.	1.4	13
46	Pharmaceuticals in groundwaters: a case study of the psychiatric hospital at HornÃ-BeÅ™kovice, Czech Republic. Environmental Earth Sciences, 2015, 73, 3775-3784.	1.3	12
47	Identification of leukemia cell-derived inhibitory activity (LIA) in conditioned media from human myeloid leukemic cell line ML-2. Blut, 1986, 52, 51-58.	1.2	11
48	Isolation of serum albumin and immunoglobulins by chromatography on Con-A Sepharose and Sephadex G-150. Journal of Chromatography A, 1977, 135, 193-195.	1.8	10
49	Nucleoli in large (giant) bi- and multinucleate cells after apoptosis-inducing photodynamic treatment. European Journal of Histochemistry, 2003, 47, 39.	0.6	10
50	Changes in Acid Atmospheric Deposition in kruå¡né Mts. and åumava (Czech Republic) and Their Impact on Groundwater Quality. Water, Air, and Soil Pollution, 2004, 157, 163-178.	1.1	10
51	To the intranucleolar translocation of AgNORs in leukemic early granulocytic and plasmacytic precursors. Histochemistry and Cell Biology, 2006, 125, 165-170.	0.8	10
52	Changes in cell adhesivity and cytoskeletonâ€related proteins during imatinibâ€induced apoptosis of leukemic JURLâ€MK1 cells. Journal of Cellular Biochemistry, 2010, 111, 1413-1425.	1,2	10
53	Identification of HL60 Proteins Affected by 5-Aminolevulinic Acid-Based Photodynamic Therapy Using Mass Spectrometric Approach. Collection of Czechoslovak Chemical Communications, 2001, 66, 1720-1728.	1.0	10
54	On the molecular conformation of human haemopexin. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1977, 495, 268-278.	1.7	9

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55	Determination of the natural background content of metals in ground waters of the Czech Republic. Applied Geochemistry, 2010, 25, 755-762.	1.4	9
56	PPCP Monitoring in Drinking Water Supply Systems: The Example of $K\tilde{A}_i$ ran $\tilde{A}\frac{1}{2}$ Waterworks in Central Bohemia. Water (Switzerland), 2018, 10, 1852.	1.2	9
57	Climate change in Central Europe and the sensitivity of the hard rock aquifer in the Bohemian Massif to decline of recharge: case study from the Bohemian Massif. Environmental Earth Sciences, 2009, 59, 703-713.	1.3	8
58	Comparison of the Conformation of Mammalian Globins in Solution. FEBS Journal, 1972, 31, 296-299.	0.2	6
59	Reactivity of sulfhydryl groups of human globin. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1972, 257, 324-327.	1.7	5
60	On the molecular conformation of human haemopexin. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1977, 495, 260-267.	1.7	5
61	Kinetics of haem binding to human albumin and haemopexin: nonspecific interactions of haem with proteins. International Journal of Biological Macromolecules, 1983, 5, 194-198.	3.6	5
62	Contamination of groundwaters by heavy metals in the city of Ust Kamenogorsk, north-eastern Kazakhstan. Environmental Geology, 2001, 41, 174-182.	1.2	5
63	Effects of groundwater exploitation on the Borjomi mineral water reservoir in Georgia. Environmental Geology, 2008, 54, 1301-1311.	1.2	5
64	To what extent can atmospheric deposition influence the natural background of metals in ground waters? A case study in the Czech Republic. Journal of Atmospheric Chemistry, 2011, 68, 127-138.	1.4	5
65	Association-dissociation equilibria in human globin solutions. Biochimica Et Biophysica Acta (BBA) - Protein Structure, 1968, 160, 269-271.	1.7	4
66	Isolation of the components of rat hemoglobin by zone electrophoresis. Analytical Biochemistry, 1972, 50, 639-641.	1.1	4
67	The reactivity of the disulfide bonds of human serum haemopexin. International Journal of Biochemistry & Cell Biology, 1986, 18, 283-284.	0.8	4
68	Purification and characterization of granulocyte-macrophage colony stimulating factor from human placenta. Biomedical Applications, 1987, 413, 242-246.	1.7	4
69	Geothermal assessment of the deep aquifers of the northwestern part of the Bohemian Cretaceous basin, Czech Republic. Geothermics, 2011, 40, 112-124.	1.5	4
70	Socioâ€economic impacts of the pharmaceuticals detection and activated carbon treatment technology in water management – an example from the Czech Republic. Water and Environment Journal, 2019, 33, 67-76.	1.0	4
71	The properties of IgM-L pyroglobulin. Clinica Chimica Acta, 1972, 36, 363-368.	0.5	3

A short note on the nucleolar size and density in apoptotic leukemic granulocytic precursors (HL-60) Tj ETQq0 0 0 0 rgBT /Overlock 10 Tf

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73	Artificial recharge of a shallow hard rock aquifer as a climate change mitigation method: model solution from the Czech Republic. Modeling Earth Systems and Environment, 2019, 5, 605-612.	1.9	3
74	The effect of 5-aminolevulinic acid-based photodynamic treatment (PDT) on nucleoli of leukemic granulocytic precursors represented by K562 blastic cells in vitro. Medical Science Monitor, 2004, 10, BR405-9.	0.5	3
75	Protein Changes in HL60 Leukemia Cells Associated with 5-Aminolevulinic Acid-based Photodynamic Therapy. Early Effects on Endoplasmic Reticulum Chaperones ¶. Photochemistry and Photobiology, 2007, 72, 16-22.	1.3	2
76	A morphological and cytochemical note to the reversible intranucleolar translocation of AgNORs (silver stained nucleolus organizer regions) in early leukemic granulocytic progenitors represented by cultured K 562 cells. Journal of Applied Biomedicine, 2005, 3, 193-198.	0.6	2
77	Imatinib mesylate affects tyrosine kinase activity in both leukemic and normal primary mononuclear blood cells. Journal of Applied Biomedicine, 2006, 4, 95-104.	0.6	2
78	Artificial infiltration as an integrated water resources management tool. WIT Transactions on Ecology and the Environment, $2014, \ldots$	0.0	2
79	Chapter 6 Gel-Type Techniques. Journal of Chromatography Library, 1979, 18, 113-131.	0.1	1
80	Separation of the Hageman factor fragment from human serum albumin by chromatography on Blue Sepharose CL-6B. Biomedical Chromatography, 1990, 4, 152-153.	0.8	1
81	Monoclonal Antibodies Against Human Antithrombin III. Hybridoma, 1991, 10, 633-640.	0.9	1
82	Nucleolar asynchrony observed in HL-60 leukemic granulocytic precursors resistant to 5-aminolaevulinic acid-based photodynamic treatment. Journal of Photochemistry and Photobiology B: Biology, 2002, 67, 201-203.	1.7	1
83	A note on the decreased number and loss of fibrillar centres in nucleoli of apoptotic HL-60 leukaemic granulocytic precursors produced by 5-aminolaevulinic acid-based photodynamic treatment. Folia Biologica, 2004, 50, 15-20.	0.8	1
84	Chapter 13 Preparative Electrophoresis in Gel Media. Journal of Chromatography Library, 1979, 18, 299-306.	0.1	0
85	Monoclonal antibodies against human hemopexin and their application. Journal of Immunological Methods, 1993, 161, 265-268.	0.6	0
86	Use of GIS for optimalization of human activity in a catchment area: An example of the Beauce region (France). Environmental Geology, 1994, 24, 22-27.	1.2	0
87	Impacts of heavy groundwater pumping on hydrogeological conditions in Libya: Past and present development and future prognosis on a regional scale. Acta Geologica Polonica, 2013, 63, 283-296.	0.9	0
88	Výzkum významných zdrojů Äesko-saských pÅ™eshraniÄnÃch podzemnÃch vod. Vodohospodářsk Technicko-ekonomické Informace, 2020, 62, 10.	èé 0.0	0