

Petra Kovarkov

List of Publications by Citations

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57
papers

1,093
citations

17
h-index

31
g-index

58
ext. papers

1,231
ext. citations

4.2
avg, IF

4.01
L-index

#	Paper	IF	Citations
57	Oxidative stress, redox signaling, and metal chelation in anthracycline cardiotoxicity and pharmacological cardioprotection. <i>Antioxidants and Redox Signaling</i> , 2013 , 18, 899-929	8.4	219
56	Zinc(II)-Thiosemicarbazone Complexes Are Localized to the Lysosomal Compartment Where They Transmetallate with Copper Ions to Induce Cytotoxicity. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 4965-843	8.3	114
55	Comparison of clinically used and experimental iron chelators for protection against oxidative stress-induced cellular injury. <i>Chemical Research in Toxicology</i> , 2010 , 23, 1105-14	4	53
54	Synthesis and initial in vitro evaluations of novel antioxidant aroylhydrazone iron chelators with increased stability against plasma hydrolysis. <i>Chemical Research in Toxicology</i> , 2011 , 24, 290-302	4	48
53	Iron chelation with salicylaldehyde isonicotinoyl hydrazone protects against catecholamine autoxidation and cardiotoxicity. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 537-49	7.8	38
52	Methyl and ethyl ketone analogs of salicylaldehyde isonicotinoyl hydrazone: novel iron chelators with selective antiproliferative action. <i>Chemico-Biological Interactions</i> , 2012 , 197, 69-79	5	34
51	HPLC study of glimepiride under hydrolytic stress conditions. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004 , 36, 205-9	3.5	32
50	Investigation of the stability of aromatic hydrazones in plasma and related biological material. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 47, 360-70	3.5	30
49	Development of high-performance liquid chromatographic determination of salicylaldehyde isonicotinoyl hydrazone in rabbit plasma and application of this method to an in vivo study. <i>Journal of Separation Science</i> , 2005 , 28, 1300-6	3.4	30
48	Comparison of various iron chelators used in clinical practice as protecting agents against catecholamine-induced oxidative injury and cardiotoxicity. <i>Toxicology</i> , 2011 , 289, 122-31	4.4	28
47	Dimethylamino acid esters as biodegradable and reversible transdermal permeation enhancers: effects of linking chain length, chirality and polyfluorination. <i>Pharmaceutical Research</i> , 2009 , 26, 811-21	4.5	27
46	The retention behaviour of polar compounds on zirconia based stationary phases under hydrophilic interaction liquid chromatography conditions. <i>Journal of Chromatography A</i> , 2011 , 1218, 6981-6	4.5	23
45	Novel and potent anti-tumor and anti-metastatic di-2-pyridylketone thiosemicarbazones demonstrate marked differences in pharmacology between the first and second generation lead agents. <i>Oncotarget</i> , 2015 , 6, 42411-28	3.3	23
44	Aroylhydrazone iron chelators: Tuning antioxidant and antiproliferative properties by hydrazide modifications. <i>European Journal of Medicinal Chemistry</i> , 2016 , 120, 97-110	6.8	23
43	HPLC-DAD and MS/MS analysis of novel drug candidates from the group of aromatic hydrazones revealing the presence of geometric isomers. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 48, 295-302	3.5	21
42	Investigation of novel dexrazoxane analogue JR-311 shows significant cardioprotective effects through topoisomerase IIbeta but not its iron chelating metabolite. <i>Toxicology</i> , 2017 , 392, 1-10	4.4	20
41	HPLC methods for determination of two novel thiosemicarbazone anti-cancer drugs (N4mT and Dp44mT) in plasma and their application to in vitro plasma stability of these agents. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009 , 877, 316-22	3.2	18

40	HPLC study on stability of pyridoxal isonicotinoyl hydrazone. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006 , 40, 105-12	3.5	17
39	Hydrophilic interaction liquid chromatography in the separation of a moderately lipophilic drug from its highly polar metabolites--the cardioprotectant dexrazoxane as a model case. <i>Journal of Chromatography A</i> , 2011 , 1218, 416-26	4.5	16
38	Deferoxamine but not dexrazoxane alleviates liver injury induced by endotoxemia in rats. <i>Shock</i> , 2014 , 42, 372-9	3.4	15
37	Photochemical stability of nimesulide. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2003 , 31, 827-32	3.5	15
36	Determination of lipophilicity of novel potential antituberculosic agents using HPLC on monolithic stationary phase and theoretical calculations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008 , 48, 310-4	3.5	14
35	HPLC determination of a novel aroylhydrazone iron chelator (o-108) in rabbit plasma and its application to a pilot pharmacokinetic study. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006 , 838, 107-12	3.2	14
34	Structure-activity relationships of novel salicylaldehyde isonicotinoyl hydrazone (SIH) analogs: iron chelation, anti-oxidant and cytotoxic properties. <i>PLoS ONE</i> , 2014 , 9, e112059	3.7	13
33	LC-MS/MS identification of the principal in vitro and in vivo phase I metabolites of the novel thiosemicarbazone anti-cancer drug, Bp4eT. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 403, 309-21	4.4	13
32	Interface-free capillary electrophoresis-mass spectrometry system with nanospray ionization-Analysis of dexrazoxane in blood plasma. <i>Journal of Chromatography A</i> , 2016 , 1466, 173-9	4.5	13
31	Use of different stationary phases for separation of isoniazid, its metabolites and vitamin B6 forms. <i>Journal of Separation Science</i> , 2011 , 34, 1357-65	3.4	12
30	Cardioprotective effects of iron chelator HAPI and ROS-activated boronate prochelator BHAPI against catecholamine-induced oxidative cellular injury. <i>Toxicology</i> , 2016 , 371, 17-28	4.4	11
29	Development and validation of HPLC-DAD methods for the analysis of two novel iron chelators with potent anti-cancer activity. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 43, 1343-51	3.5	11
28	Chromatographic methods for the separation of biocompatible iron chelators from their synthetic precursors and iron chelates. <i>Journal of Separation Science</i> , 2004 , 27, 1503-10	3.4	11
27	Enhanced topical and transdermal delivery of antineoplastic and antiviral acyclic nucleoside phosphonate cPr-PMEDAP. <i>Pharmaceutical Research</i> , 2011 , 28, 3105-15	4.5	10
26	Determination of the lipophilicity of potential antituberculosic compounds by RP-TLC. <i>Journal of Planar Chromatography - Modern TLC</i> , 2006 , 19, 422-426	0.9	10
25	LC-UV/MS methods for the analysis of prochelator-boronyl salicylaldehyde isonicotinoyl hydrazone (BSIH) and its active chelator salicylaldehyde isonicotinoyl hydrazone (SIH). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 105, 55-63	3.5	9
24	A UHPLC-UV-QTOF study on the stability of carfilzomib, a novel proteasome inhibitor. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 124, 365-373	3.5	9
23	Development of LC-MS/MS method for the simultaneous analysis of the cardioprotective drug dexrazoxane and its metabolite ADR-925 in isolated cardiomyocytes and cell culture medium. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013 , 76, 243-51	3.5	9

22	Investigation of Structure-Activity Relationships of Dexrazoxane Analogs Reveals Topoisomerase II Interaction as a Prerequisite for Effective Protection against Anthracycline Cardiotoxicity. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2020 , 373, 402-415	4.7	8
21	Pharmacokinetics of the Cardioprotective Drug Dexrazoxane and Its Active Metabolite ADR-925 with Focus on Cardiomyocytes and the Heart. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2018 , 364, 433-446	4.7	8
20	Development of an LC-MS/MS method for analysis of interconvertible Z/E isomers of the novel anticancer agent, Bp4eT. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 161-171	4.4	8
19	Simultaneous determination of the novel thiosemicarbazone anti-cancer agent, Bp4eT, and its main phase I metabolites in plasma: application to a pilot pharmacokinetic study in rats. <i>Biomedical Chromatography</i> , 2014 , 28, 621-9	1.7	7
18	Characterization of cytoprotective and toxic properties of iron chelator SIH, prochelator BSIH and their degradation products. <i>Toxicology</i> , 2016 , 350-352, 15-24	4.4	7
17	Electromembrane extraction of anthracyclines from plasma: Comparison with conventional extraction techniques. <i>Talanta</i> , 2021 , 223, 121748	6.2	7
16	In Vitro Characterization of the Pharmacological Properties of the Anti-Cancer Chelator, Bp4eT, and Its Phase I Metabolites. <i>PLoS ONE</i> , 2015 , 10, e0139929	3.7	6
15	2,6-Dihydroxybenzaldehyde Analogues of the Iron Chelator Salicylaldehyde Isonicotinoyl Hydrazone: Increased Hydrolytic Stability and Cytoprotective Activity against Oxidative Stress. <i>Chemical Research in Toxicology</i> , 2018 , 31, 1151-1163	4	6
14	Identification of in vitro metabolites of the novel anti-tumor thiosemicarbazone, DpC, using ultra-high performance liquid chromatography-quadrupole-time-of-flight mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2013 , 405, 1651-61	4.4	5
13	The first chiral HPLC separation of dicarba-nido-undecaborate anions and their chromatographic behavior. <i>Talanta</i> , 2021 , 222, 121652	6.2	5
12	Zirconia--a stationary phase capable of the separation of polar markers of myocardial metabolism in hydrophilic interaction chromatography. <i>Journal of Separation Science</i> , 2014 , 37, 1089-93	3.4	4
11	Novel SPME fibers based on a plastic support for determination of plasma protein binding of thiosemicarbazone metal chelators: a case example of DpC, an anti-cancer drug that entered clinical trials. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 2383-2394	4.4	4
10	The electromembrane extraction of pharmaceutical compounds from animal tissues. <i>Analytica Chimica Acta</i> , 2021 , 1177, 338742	6.6	4
9	Structure-Activity Relationships of Nitro-Substituted Aroylhydrazone Iron Chelators with Antioxidant and Antiproliferative Activities. <i>Chemical Research in Toxicology</i> , 2018 , 31, 435-446	4	3
8	Clinically Translatable Prevention of Anthracycline Cardiotoxicity by Dexrazoxane Is Mediated by Topoisomerase II Beta and Not Metal Chelation. <i>Circulation: Heart Failure</i> , 2021 , 14, e008209	7.6	2
7	UHPLC-MS/MS method for analysis of sobuzoxane, its active form ICRF-154 and metabolite EDTA-diamide and its application to bioactivation study. <i>Scientific Reports</i> , 2019 , 9, 4524	4.9	1
6	Are cardioprotective effects of NO-releasing drug molsidomine translatable to chronic anthracycline cardiotoxicity settings?. <i>Toxicology</i> , 2016 , 372, 52-63	4.4	1
5	Development and Validation of an LCESI-MS Ion-Trap Method for Analysis of Impurities in Transkarbam 12, a Novel Transdermal Accelerant. <i>Chromatographia</i> , 2009 , 69, 977-983	2.1	1

4	Advanced microextraction techniques for the analysis of amphetamines in human breast milk and their comparison with conventional methods.. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 210, 114549	3.5	1
3	Development of water-soluble prodrugs of the bisdioxopiperazine topoisomerase II inhibitor ICRF-193 as potential cardioprotective agents against anthracycline cardiotoxicity. <i>Scientific Reports</i> , 2021 , 11, 4456	4.9	1
2	Prodrug of ICRF-193 provides promising protective effects against chronic anthracycline cardiotoxicity in a rabbit model in vivo. <i>Clinical Science</i> , 2021 , 135, 1897-1914	6.5	1
1	ANTHRACYCLINE CARDIOTOXICITY: THE PHARMACOKINETICS AND PHARMACODYNAMICS OF DEXRAZOXANE AND ITS OPEN RING METABOLITE. <i>Heart</i> , 2014 , 100, A7.1-A7	5.1	