

Emil Rudolf

List of Publications by Year in descending order

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92
papers

9,474
citations

236925

25
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51608

86
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96
all docs

96
docs citations

96
times ranked

22057
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
3	Water-soluble non-aggregating zinc phthalocyanine and in vitro studies for photodynamic therapy. <i>Chemical Communications</i> , 2013, 49, 11149.	4.1	133
4	Far-Red-Absorbing Cationic Phthalocyanine Photosensitizers: Synthesis and Evaluation of the Photodynamic Anticancer Activity and the Mode of Cell Death Induction. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 1736-1749.	6.4	95
5	Selenium activates p53 and p38 pathways and induces caspase-independent cell death in cervical cancer cells. <i>Cell Biology and Toxicology</i> , 2008, 24, 123-141.	5.3	84
6	Zinc pyrithione induces cellular stress signaling and apoptosis in Hep-2 cervical tumor cells: the role of mitochondria and lysosomes. <i>BioMetals</i> , 2010, 23, 339-354.	4.1	58
7	Hexavalent chromium disrupts the actin cytoskeleton and induces mitochondria-dependent apoptosis in human dermal fibroblasts. <i>Toxicology in Vitro</i> , 2005, 19, 713-723.	2.4	47
8	Selected Aspects of Chemoresistance Mechanisms in Colorectal Carcinoma—A Focus on Epithelial-to-Mesenchymal Transition, Autophagy, and Apoptosis. <i>Cells</i> , 2019, 8, 234.	4.1	46
9	Zinc induced apoptosis in HEP-2 cancer cells: The role of oxidative stress and mitochondria. <i>BioFactors</i> , 2005, 23, 107-120.	5.4	45
10	The role of intracellular zinc in chromium(VI)-induced oxidative stress, DNA damage and apoptosis. <i>Chemico-Biological Interactions</i> , 2006, 162, 212-227.	4.0	43
11	Synthesis, Properties and <i>In Vitro</i> Photodynamic Activity of Water-soluble Azaphthalocyanines and Anaphthalocyanines. <i>Photochemistry and Photobiology</i> , 2010, 86, 168-175.	2.5	39
12	Antiproliferative effects of selenium compounds in colon cancer cells: Comparison of different cytotoxicity assays. <i>Toxicology in Vitro</i> , 2009, 23, 1406-1411.	2.4	35
13	Sulforaphane induces cytotoxicity and lysosome- and mitochondria-dependent cell death in colon cancer cells with deleted p53. <i>Toxicology in Vitro</i> , 2011, 25, 1302-1309.	2.4	35
14	Flubendazole induces mitotic catastrophe and senescence in colon cancer cells <i>in vitro</i> . <i>Journal of Pharmacy and Pharmacology</i> , 2016, 68, 208-218.	2.4	35
15	Activation of several concurrent proapoptotic pathways by sulforaphane in human colon cancer cells SW620. <i>Food and Chemical Toxicology</i> , 2009, 47, 2366-2373.	3.6	33
16	Sulforaphane-induced apoptosis involves p53 and p38 in melanoma cells. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2014, 19, 734-747.	4.9	33
17	Polyphenolic Compounds in Chemoprevention of Colon Cancer - Targets and Signaling Pathways. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2007, 7, 559-575.	1.7	31
18	Stress responses of human dermal fibroblasts exposed to zinc pyrithione. <i>Toxicology Letters</i> , 2011, 204, 164-173.	0.8	31

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19	The cytotoxic effect of $\hat{1}\pm$ -tomatine in MCF-7 human adenocarcinoma breast cancer cells depends on its interaction with cholesterol in incubation media and does not involve apoptosis induction. <i>Oncology Reports</i> , 2013, 30, 2593-2602.	2.6	31
20	The effect of sodium butyrate and cisplatin on expression of EMT markers. <i>PLoS ONE</i> , 2019, 14, e0210889.	2.5	31
21	Camptothecin induces p53-dependent and -independent apoptogenic signaling in melanoma cells. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2011, 16, 1165-1176.	4.9	30
22	Anthelmintic Flubendazole and Its Potential Use in Anticancer Therapy. <i>Acta Medica (Hradec Kralove)</i> , 2017, 60, 5-11.	0.5	30
23	Interaction of B cells with intracellular pathogen <i>Francisella tularensis</i> . <i>Microbial Pathogenesis</i> , 2008, 45, 79-85.	2.9	28
24	Selenite-induced apoptosis and autophagy in colon cancer cells. <i>Toxicology in Vitro</i> , 2012, 26, 258-268.	2.4	28
25	Proliferation and Differentiation of Adult Endogenous Neural Stem Cells in Response to Neurodegenerative Process within the Striatum. <i>Neurodegenerative Diseases</i> , 2006, 3, 12-18.	1.4	27
26	Flubendazole induces mitotic catastrophe and apoptosis in melanoma cells. <i>Toxicology in Vitro</i> , 2018, 46, 313-322.	2.4	26
27	[(p-MeC ₆ H ₄ Pr) ₂ Ru ₂ (SC ₆ H ₄ -p-Bu) ₃]Cl (diruthenium-1), a dinuclear arene ruthenium compound with very high anticancer activity: An <i>in Vitro</i> and <i>in Vivo</i> study. <i>Journal of Organometallic Chemistry</i> , 2015, 782, 42-51.	1.8	25
28	Diverse sensitivity of cells representing various stages of colon carcinogenesis to increased extracellular zinc: Implications for zinc chemoprevention. <i>Oncology Reports</i> , 2011, 25, 769-80.	2.6	24
29	Irinotecan induces senescence and apoptosis in colonic cells <i>in vitro</i> . <i>Toxicology Letters</i> , 2012, 214, 1-8.	0.8	24
30	The role of p38 in irinotecan-induced DNA damage and apoptosis of colon cancer cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2013, 741-742, 27-34.	1.0	23
31	Activation of B cell apoptotic pathways in the course of <i>Francisella tularensis</i> infection. <i>Microbial Pathogenesis</i> , 2010, 49, 226-236.	2.9	20
32	The role of intracellular zinc in modulation of life and death of Hep-2 cells. <i>BioMetals</i> , 2003, 16, 295-309.	4.1	19
33	Nickel modifies the cytotoxicity of hexavalent chromium in human dermal fibroblasts. <i>Toxicology Letters</i> , 2010, 197, 143-150.	0.8	19
34	Flubendazole and mebendazole impair migration and epithelial to mesenchymal transition in oral cell lines. <i>Chemico-Biological Interactions</i> , 2018, 293, 124-132.	4.0	19
35	Antiproliferative and cytotoxic effects of sodium selenite in human colon cancer cells. <i>Toxicology in Vitro</i> , 2009, 23, 1497-1503.	2.4	18
36	Selenite induces DNA damage and specific mitochondrial degeneration in human bladder cancer cells. <i>Toxicology in Vitro</i> , 2016, 32, 105-114.	2.4	16

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37	Biology of Glioblastoma Multiforme – Exploration of Mitotic Catastrophe as a Potential Treatment Modality. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5324.	4.1	16
38	Apoptosis in Hep2 cells treated with etoposide and colchicine. <i>Cancer Detection and Prevention</i> , 2004, 28, 214-226.	2.1	15
39	Trivalent chromium activates Rac-1 and Src and induces switch in the cell death mode in human dermal fibroblasts. <i>Toxicology Letters</i> , 2009, 188, 236-242.	0.8	15
40	Cardiac Troponins are Among Targets of Doxorubicin-Induced Cardiotoxicity in hiPCS-CMs. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2638.	4.1	15
41	In Vitro Antiproliferative Effects of Sulforaphane on Human Colon Cancer Cell Line SW620. <i>Acta Medica (Hradec Kralove)</i> , 2007, 50, 171-176.	0.5	15
42	Increases in Intracellular Zinc Enhance Proliferative Signaling as well as Mitochondrial and Endolysosomal Activity in Human Melanocytes. <i>Cellular Physiology and Biochemistry</i> , 2017, 43, 1-16.	1.6	14
43	The Role of Biomembranes in Chromium (III)-induced Toxicity <i>In Vitro</i> . <i>ATLA Alternatives To Laboratory Animals</i> , 2005, 33, 249-259.	1.0	13
44	Topoisomerases and Tubulin Inhibitors: A Promising Combination for Cancer Treatment. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2003, 3, 421-429.	7.0	13
45	Zinc has ambiguous effects on chromium (VI)-induced oxidative stress and apoptosis. <i>Journal of Trace Elements in Medicine and Biology</i> , 2005, 18, 251-260.	3.0	12
46	External zinc stimulates proliferation of tumor Hep-2 cells by active modulation of key signaling pathways. <i>Journal of Trace Elements in Medicine and Biology</i> , 2008, 22, 149-161.	3.0	12
47	The role of time-lapse fluorescent microscopy in the characterization of toxic effects in cell populations cultivated in vitro. <i>Toxicology in Vitro</i> , 2008, 22, 1382-1386.	2.4	12
48	Boldine Inhibits Mouse Mammary Carcinoma In Vivo and Human MCF-7 Breast Cancer Cells In Vitro. <i>Planta Medica</i> , 2016, 82, 1416-1424.	1.3	12
49	Suppression of proliferation and activation of cell death by sodium selenite involves mitochondria and lysosomes in chemoresistant bladder cancer cells. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 52, 58-67.	3.0	12
50	Sodium salicylate inhibits NF- κ B and induces apoptosis in PC12 cells. <i>Journal of Proteomics</i> , 2004, 61, 229-240.	2.4	11
51	Antiproliferative effects of β -tomatine are associated with different cell death modalities in human colon cancer cells. <i>Journal of Functional Foods</i> , 2016, 27, 491-502.	3.4	11
52	Depletion of ATP and Oxidative Stress Underlie Zinc-Induced Cell Injury. <i>Acta Medica (Hradec Kralove)</i> , 2007, 50, 43-49.	0.5	11
53	Combined effect of sodium selenite and camptothecin on cervical carcinoma cells. <i>Neoplasma</i> , 2004, 51, 127-35.	1.6	11
54	Cytotoxicity and Mitochondrial Apoptosis Induced by Etoposide in Melanoma Cells. <i>Cancer Investigation</i> , 2009, 27, 704-717.	1.3	10

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55	An analysis of mitotic catastrophe induced cell responses in melanoma cells exposed to flubendazole. <i>Toxicology in Vitro</i> , 2020, 68, 104930.	2.4	10
56	Chromium (III) Produces Distinct Type of Cell Death in Cultured Cells. <i>Acta Medica (Hradec Kralove)</i> , 2003, 46, 139-146.	0.5	9
57	Responses of Human Gingival and Periodontal Fibroblasts to a Low-Zinc Environment. <i>ATLA Alternatives To Laboratory Animals</i> , 2010, 38, 119-138.	1.0	8
58	Oxaliplatin and irinotecan induce heterogenous changes in the EMT markers of metastasizing colorectal carcinoma cells. <i>Experimental Cell Research</i> , 2018, 369, 295-303.	2.6	8
59	Selenium and Colon Cancer – From Chemoprevention to New Treatment Modality. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2008, 8, 598-602.	1.7	8
60	The Role of Apoptosis in Pituitary Adenomas in the Field of Conventionally Used Therapeutic Approaches. <i>Annals of the New York Academy of Sciences</i> , 2003, 1010, 520-524.	3.8	7
61	Low zinc environment induces stress signaling, senescence and mixed cell death modalities in colon cancer cells. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2015, 20, 1651-1665.	4.9	7
62	The Evaluation of Glioblastoma Cell Dissociation and Its Influence on Its Behavior. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4630.	4.1	7
63	Acute Increases in Intracellular Zinc Lead to an Increased Lysosomal and Mitochondrial Autophagy and Subsequent Cell Demise in Malignant Melanoma. <i>International Journal of Molecular Sciences</i> , 2021, 22, 667.	4.1	7
64	Chromium (III) produces distinct type of cell death in cultured cells. <i>Acta Medica (Hradec Kralove)</i> , 2003, 46, 139-46.	0.5	7
65	Dual inhibition of topoisomerases enhances apoptosis in melanoma cells. <i>Neoplasma</i> , 2010, 57, 316-324.	1.6	6
66	Activation of p38 and changes in mitochondria accompany autophagy to premature senescence-like phenotype switch upon chronic exposure to selenite in colon fibroblasts. <i>Toxicology Letters</i> , 2014, 231, 29-37.	0.8	6
67	Cytoskeletal Changes in Non-Apoptotic Cell Death. <i>Acta Medica (Hradec Kralove)</i> , 2006, 49, 123-128.	0.5	6
68	Depletion of ATP and oxidative stress underlie zinc-induced cell injury. <i>Acta Medica (Hradec Kralove)</i> , 2007, 50, 43-9.	0.5	6
69	Toxic Effects of Chromium Acetate Hydroxide on Cells Cultivated In Vitro. <i>ATLA Alternatives To Laboratory Animals</i> , 2001, 29, 163-177.	1.0	5
70	Silencing of E-cadherin expression leads to increased chemosensitivity to irinotecan and oxaliplatin in colorectal cancer cell lines. <i>Human and Experimental Toxicology</i> , 2021, 40, 096032712110214.	2.2	5
71	Increased Uptake of Zinc in Malignant Cells is Associated with Enhanced Activation of MAPK Signalling and P53-Dependent Cell Injury. <i>Acta Medica (Hradec Kralove)</i> , 2008, 51, 43-49.	0.5	5
72	The Role of Autophagic Cell Death and Apoptosis in Irinotecan-treated p53 Null Colon Cancer Cells. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2013, 13, 811-820.	1.7	5

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73	Zinc alters cytoskeletal integrity and migration in colon cancer cells. Acta Medica (Hradec Kralove), 2008, 51, 51-7.	0.5	5
74	Selenium and colon cancer—from chemoprevention to new treatment modality. Anti-Cancer Agents in Medicinal Chemistry, 2008, 8, 598-602.	1.7	5
75	Establishment and Characterization of Clonal Cell Lines Derived from a Fibrosarcoma of the <i>H2-K/v-jun</i> Transgenic Mouse. Tumor Biology, 2003, 24, 176-184.	1.8	4
76	Inositol hexaphosphate limits the migration and the invasiveness of colorectal carcinoma cells in vitro. International Journal of Oncology, 2018, 53, 1625-1632.	3.3	4
77	Membrane Blebbing in Cancer Cells Treated with Various Apoptotic Inducers. Acta Medica (Hradec Kralove), 2004, 47, 91-6.	0.5	4
78	Intervention of Proliferation and Differentiation of Endogenous Neural Stem Cells in the Neurodegenerative Process of Huntingtons Disease Phenotype. CNS and Neurological Disorders - Drug Targets, 2011, 10, 486-499.	1.4	3
79	Apoptosis - when the cells begin to dance. Frontiers in Bioscience - Landmark, 2000, 5, f1.	3.0	2
80	Depletion of endogenous zinc stores induces oxidative stress and cell death in human melanoma cells. Acta Medica (Hradec Kralove), 2004, 47, 91-6.	0.5	2
81	Membrane blebbing in cancer cells treated with various apoptotic inducers. Acta Medica (Hradec Kralove), 2004, 47, 91-6.	0.5	2
82	Cytoskeletal changes in non-apoptotic cell death. Acta Medica (Hradec Kralove), 2006, 49, 123-8.	0.5	2
83	Selenite-Mediated Cellular Stress, Apoptosis, and Autophagy in Colon Cancer Cells. , 2014, , 221-233.		1
84	Time dependent appearance of selected apoptotic markers and usefulness of their detection in vitro. Acta Medica (Hradec Kralove), 2002, 45, 135-44.	0.5	1
85	The Effect of Chronic Exposure of Graphene Nanoplates on the Viability and Motility of A549 Cells. Nanomaterials, 2022, 12, 2074.	4.1	1
86	Our Experiences with Development of Digitised Video Streams and Their Use in Animal-free Medical Education. ATLA Alternatives To Laboratory Animals, 2004, 32, 521-523.	1.0	0
87	ROS mediate selenite-induced apoptosis in colon cancer cells. Open Life Sciences, 2010, 5, 166-177.	1.4	0
88	Quantitative cytometry as a tool for toxicity assessment. Toxicology in Vitro, 2010, 24, 2059.	2.4	0
89	Non-cytotoxic concentrations of hexavalent chromium induce epigenetic and energetic changes in skin keratinocytes. Toxicology Letters, 2016, 259, S161.	0.8	0
90	Role of E-cadherin in metastatic colorectal cancer treatment. Annals of Oncology, 2017, 28, vii28.	1.2	0

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91	Complex Interplay of Genes Underlies Invasiveness in Fibrosarcoma Progression Model. Journal of Clinical Medicine, 2021, 10, 2297.	2.4	0
92	The dynamics of the hexavalent chromium induced apoptotic patterns in vitro. Acta Medica (Hradec) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.5	0