

# Emil Rudolf

## List of Publications by Year in descending order

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92  
papers

9,474  
citations

236833

25  
h-index

51562

86  
g-index

96  
all docs

96  
docs citations

96  
times ranked

22057  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effect of Chronic Exposure of Graphene Nanoplates on the Viability and Motility of A549 Cells. <i>Nanomaterials</i> , 2022, 12, 2074.	1.9	1
2	Complex Interplay of Genes Underlies Invasiveness in Fibrosarcoma Progression Model. <i>Journal of Clinical Medicine</i> , 2021, 10, 2297.	1.0	0
3	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.	1.1	5
4	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.	1.8	7
5	An analysis of mitotic catastrophe induced cell responses in melanoma cells exposed to flubendazole. <i>Toxicology in Vitro</i> , 2020, 68, 104930.	1.1	10
6	Biology of Glioblastoma Multiforme—Exploration of Mitotic Catastrophe as a Potential Treatment Modality. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5324.	1.8	16
7	The Evaluation of Glioblastoma Cell Dissociation and Its Influence on Its Behavior. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4630.	1.8	7
8	The effect of sodium butyrate and cisplatin on expression of EMT markers. <i>PLoS ONE</i> , 2019, 14, e0210889.	1.1	31
9	Cardiac Troponins are Among Targets of Doxorubicin-Induced Cardiotoxicity in hiPCS-CMs. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2638.	1.8	15
10	Selected Aspects of Chemoresistance Mechanisms in Colorectal Carcinoma—A Focus on Epithelial-to-Mesenchymal Transition, Autophagy, and Apoptosis. <i>Cells</i> , 2019, 8, 234.	1.8	46
11	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.	1.5	12
12	Flubendazole induces mitotic catastrophe and apoptosis in melanoma cells. <i>Toxicology in Vitro</i> , 2018, 46, 313-322.	1.1	26
13	Inositol hexaphosphate limits the migration and the invasiveness of colorectal carcinoma cells in vitro. <i>International Journal of Oncology</i> , 2018, 53, 1625-1632.	1.4	4
14	Oxaliplatin and irinotecan induce heterogenous changes in the EMT markers of metastasizing colorectal carcinoma cells. <i>Experimental Cell Research</i> , 2018, 369, 295-303.	1.2	8
15	Flubendazole and mebendazole impair migration and epithelial to mesenchymal transition in oral cell lines. <i>Chemico-Biological Interactions</i> , 2018, 293, 124-132.	1.7	19
16	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.	1.1	14
17	Role of E-cadherin in metastatic colorectal cancer treatment. <i>Annals of Oncology</i> , 2017, 28, vii28.	0.6	0
18	Anthelmintic Flubendazole and Its Potential Use in Anticancer Therapy. <i>Acta Medica (Hradec Kralove)</i> , 2017, 60, 5-11.	0.2	30

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19	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.	1.2	35
20	Non-cytotoxic concentrations of hexavalent chromium induce epigenetic and energetic changes in skin keratinocytes. <i>Toxicology Letters</i> , 2016, 259, S161.	0.4	0
21	Boldine Inhibits Mouse Mammary Carcinoma In Vivo and Human MCF-7 Breast Cancer Cells In Vitro. <i>Planta Medica</i> , 2016, 82, 1416-1424.	0.7	12
22	Antiproliferative effects of $\hat{\pm}$ -tomatine are associated with different cell death modalities in human colon cancer cells. <i>Journal of Functional Foods</i> , 2016, 27, 491-502.	1.6	11
23	Selenite induces DNA damage and specific mitochondrial degeneration in human bladder cancer cells. <i>Toxicology in Vitro</i> , 2016, 32, 105-114.	1.1	16
24	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
25	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.	2.9	95
26	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.	2.2	7
27	[(p-MeC <sub>6</sub> H <sub>4</sub> Pr) <sub>2</sub> Ru <sub>2</sub> (SC <sub>6</sub> H <sub>4</sub> -p-Bu) <sub>3</sub> ]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.	0.8	25
28	Selenite-Mediated Cellular Stress, Apoptosis, and Autophagy in Colon Cancer Cells. , 2014, , 221-233.		1
29	Sulforaphane-induced apoptosis involves p53 and p38 in melanoma cells. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2014, 19, 734-747.	2.2	33
30	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.	0.4	6
31	Water-soluble non-aggregating zinc phthalocyanine and <i>in vitro</i> studies for photodynamic therapy. <i>Chemical Communications</i> , 2013, 49, 11149.	2.2	133
32	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.	0.4	23
33	The cytotoxic effect of $\hat{\pm}$ -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.	1.2	31
34	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.	0.9	5
35	Selenite-induced apoptosis and autophagy in colon cancer cells. <i>Toxicology in Vitro</i> , 2012, 26, 258-268.	1.1	28
36	Irinotecan induces senescence and apoptosis in colonic cells <i>in vitro</i> . <i>Toxicology Letters</i> , 2012, 214, 1-8.	0.4	24

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37	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122
38	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.	1.1	35
39	Stress responses of human dermal fibroblasts exposed to zinc pyrithione. <i>Toxicology Letters</i> , 2011, 204, 164-173.	0.4	31
40	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.	1.2	24
41	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.	2.2	30
42	Intervention of Proliferation and Differentiation of Endogenous Neural Stem Cells in the Neurodegenerative Process of Huntingtons Disease Phenotype. <i>CNS and Neurological Disorders - Drug Targets</i> , 2011, 10, 486-499.	0.8	3
43	ROS mediate selenite-induced apoptosis in colon cancer cells. <i>Open Life Sciences</i> , 2010, 5, 166-177.	0.6	0
44	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.	1.8	58
45	Synthesis, Properties and <i>In Vitro</i> Photodynamic Activity of Water-soluble Azaphthalocyanines and Anaphthalocyanines. <i>Photochemistry and Photobiology</i> , 2010, 86, 168-175.	1.3	39
46	Dual inhibition of topoisomerases enhances apoptosis in melanoma cells. <i>Neoplasma</i> , 2010, 57, 316-324.	0.7	6
47	Responses of Human Gingival and Periodontal Fibroblasts to a Low-Zinc Environment. <i>ATLA Alternatives To Laboratory Animals</i> , 2010, 38, 119-138.	0.7	8
48	Activation of B cell apoptotic pathways in the course of Francisella tularensis infection. <i>Microbial Pathogenesis</i> , 2010, 49, 226-236.	1.3	20
49	Quantitative cytometry as a tool for toxicity assessment. <i>Toxicology in Vitro</i> , 2010, 24, 2059.	1.1	0
50	Nickel modifies the cytotoxicity of hexavalent chromium in human dermal fibroblasts. <i>Toxicology Letters</i> , 2010, 197, 143-150.	0.4	19
51	Activation of several concurrent proapoptotic pathways by sulforaphane in human colon cancer cells SW620. <i>Food and Chemical Toxicology</i> , 2009, 47, 2366-2373.	1.8	33
52	Antiproliferative and cytotoxic effects of sodium selenite in human colon cancer cells. <i>Toxicology in Vitro</i> , 2009, 23, 1497-1503.	1.1	18
53	Antiproliferative effects of selenium compounds in colon cancer cells: Comparison of different cytotoxicity assays. <i>Toxicology in Vitro</i> , 2009, 23, 1406-1411.	1.1	35
54	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.	0.4	15

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55	Cytotoxicity and Mitochondrial Apoptosis Induced by Etoposide in Melanoma Cells. <i>Cancer Investigation</i> , 2009, 27, 704-717.	0.6	10
56	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.	2.4	84
57	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.	1.5	12
58	Interaction of B cells with intracellular pathogen <i>Francisella tularensis</i> . <i>Microbial Pathogenesis</i> , 2008, 45, 79-85.	1.3	28
59	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.	1.1	12
60	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.	0.2	5
61	Selenium and Colon Cancer – From Chemoprevention to New Treatment Modality. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2008, 8, 598-602.	0.9	8
62	Zinc alters cytoskeletal integrity and migration in colon cancer cells. <i>Acta Medica (Hradec Kralove)</i> , 2008, 51, 51-7.	0.2	5
63	Selenium and colon cancer—from chemoprevention to new treatment modality. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2008, 8, 598-602.	0.9	5
64	Polyphenolic Compounds in Chemoprevention of Colon Cancer - Targets and Signaling Pathways. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2007, 7, 559-575.	0.9	31
65	Depletion of ATP and Oxidative Stress Underlie Zinc-Induced Cell Injury. <i>Acta Medica (Hradec Kralove)</i> , 2007, 50, 43-49.	0.2	11
66	In Vitro Antiproliferative Effects of Sulforaphane on Human Colon Cancer Cell Line SW620. <i>Acta Medica (Hradec Kralove)</i> , 2007, 50, 171-176.	0.2	15
67	Depletion of ATP and oxidative stress underlie zinc-induced cell injury. <i>Acta Medica (Hradec Kralove)</i> , 2007, 50, 43-9.	0.2	6
68	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.	0.8	27
69	The role of intracellular zinc in chromium(VI)-induced oxidative stress, DNA damage and apoptosis. <i>Chemico-Biological Interactions</i> , 2006, 162, 212-227.	1.7	43
70	Cytoskeletal Changes in Non-Apoptotic Cell Death. <i>Acta Medica (Hradec Kralove)</i> , 2006, 49, 123-128.	0.2	6
71	Cytoskeletal changes in non-apoptotic cell death. <i>Acta Medica (Hradec Kralove)</i> , 2006, 49, 123-8.	0.2	2
72	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.	1.5	12

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73	Zinc induced apoptosis in HEP-2 cancer cells: The role of oxidative stress and mitochondria. <i>BioFactors</i> , 2005, 23, 107-120.	2.6	45
74	The Role of Biomembranes in Chromium (III)-induced Toxicity <i>In Vitro</i> . <i>ATLA Alternatives To Laboratory Animals</i> , 2005, 33, 249-259.	0.7	13
75	Hexavalent chromium disrupts the actin cytoskeleton and induces mitochondria-dependent apoptosis in human dermal fibroblasts. <i>Toxicology in Vitro</i> , 2005, 19, 713-723.	1.1	47
76	Membrane Blebbing in Cancer Cells Treated with Various Apoptotic Inducers. <i>Acta Medica (Hradec)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.2	4
77	Membrane blebbing in cancer cells treated with various apoptotic inducers. <i>Acta Medica (Hradec)</i> Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.2	2
78	Our Experiences with Development of Digitised Video Streams and Their Use in Animal-free Medical Education. <i>ATLA Alternatives To Laboratory Animals</i> , 2004, 32, 521-523.	0.7	0
79	Apoptosis in Hep2 cells treated with etoposide and colchicine. <i>Cancer Detection and Prevention</i> , 2004, 28, 214-226.	2.1	15
80	Sodium salicylate inhibits NF- $\kappa$ B and induces apoptosis in PC12 cells. <i>Journal of Proteomics</i> , 2004, 61, 229-240.	2.4	11
81	Combined effect of sodium selenite and camptothecin on cervical carcinoma cells. <i>Neoplasma</i> , 2004, 51, 127-35.	0.7	11
82	Depletion of endogenous zinc stores induces oxidative stress and cell death in human melanoma cells. <i>Acta Medica (Hradec Kralove)</i> , 2004, 47, 91-6.	0.2	2
83	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.	1.8	7
84	The role of intracellular zinc in modulation of life and death of Hep-2 cells. <i>BioMetals</i> , 2003, 16, 295-309.	1.8	19
85	Establishment and Characterization of Clonal Cell Lines Derived from a Fibrosarcoma of the <i>H2-K/v-jun</i> Transgenic Mouse. <i>Tumor Biology</i> , 2003, 24, 176-184.	0.8	4
86	Chromium (III) Produces Distinct Type of Cell Death in Cultured Cells. <i>Acta Medica (Hradec Kralove)</i> , 2003, 46, 139-146.	0.2	9
87	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
88	Chromium (III) produces distinct type of cell death in cultured cells. <i>Acta Medica (Hradec Kralove)</i> , 2003, 46, 139-46.	0.2	7
89	Time dependent appearance of selected apoptotic markers and usefulness of their detection in vitro. <i>Acta Medica (Hradec Kralove)</i> , 2002, 45, 135-44.	0.2	1
90	Toxic Effects of Chromium Acetate Hydroxide on Cells Cultivated In Vitro. <i>ATLA Alternatives To Laboratory Animals</i> , 2001, 29, 163-177.	0.7	5

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91	Apoptosis - when the cells begin to dance. <i>Frontiers in Bioscience - Landmark</i> , 2000, 5, f1.	3.0	2
92	The dynamics of the hexavalent chromium induced apoptotic patterns in vitro. <i>Acta Medica (Hradec)</i> Tj ETQq0 0 0 rBT /Overlock 10 Tf	0.2	0