Karel Soucek

List of Publications by Year in descending order

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201674 243625 2,681 110 27 44 citations h-index g-index papers 119 119 119 4752 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Alternative mechanisms of miR-34a regulation in cancer. Cell Death and Disease, 2017, 8, e3100-e3100.	6.3	205
2	Exacerbation of substrate toxicity by IPTG in Escherichia coli BL21(DE3) carrying a synthetic metabolic pathway. Microbial Cell Factories, 2015, 14, 201.	4.0	145
3	ZEB1: A Critical Regulator of Cell Plasticity, DNA Damage Response, and Therapy Resistance. Frontiers in Molecular Biosciences, 2020, 7, 36.	3.5	112
4	TGFâ \in Î^21â \in Induced EMT of nonâ \in transformed prostate hyperplasia cells is characterized by early induction of SNAI2/Slug. Prostate, 2011, 71, 1332-1343.	2.3	95
5	Normal and prostate cancer cells display distinct molecular profiles of α-tubulin posttranslational modifications. Prostate, 2006, 66, 954-965.	2.3	80
6	Androgen Depletion Induces Senescence in Prostate Cancer Cells through Down-regulation of Skp2. Neoplasia, 2011, 13, 526-IN13.	5.3	65
7	Drug efflux transporters, MRP1 and BCRP, affect the outcome of hypericin-mediated photodynamic therapy in HT-29 adenocarcinoma cells. Photochemical and Photobiological Sciences, 2009, 8, 1716-1723.	2.9	61
8	Inhibition of topoisomerase IIα: Novel function of wedelolactone. Cancer Letters, 2011, 303, 29-38.	7.2	58
9	Growth/differentiation factor-15: prostate cancer suppressor or promoter?. Prostate Cancer and Prostatic Diseases, 2012, 15, 320-328.	3.9	58
10	Trop2: Jack of All Trades, Master of None. Cancers, 2020, 12, 3328.	3.7	58
11	High effectiveness of platinum(IV) complex with adamantylamine in overcoming resistance to cisplatin and suppressing proliferation of ovarian cancer cells in vitro. Biochemical Pharmacology, 2005, 69, 373-383.	4.4	56
12	c-Myb regulates matrix metalloproteinases 1/9, and cathepsin D: implications for matrix-dependent breast cancer cell invasion and metastasis. Molecular Cancer, 2012, 11, 15.	19.2	54
13	The fibroblast surface markers FAP, antiâ€fibroblast, and FSP are expressed by cells of epithelial origin and may be altered during epithelialâ€toâ€mesenchymal transition. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2018, 93, 941-951.	1.5	52
14	Rottlerin Inhibits ROS Formation and Prevents NF <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>β</mml:mi></mml:math> B Activation in MCF-7 and HT-29 Cells. Journal of Biomedicine and Biotechnology, 2009, 2009, 1-7.	3.0	47
15	Gene expression changes in human prostate carcinoma cells exposed to genotoxic and nongenotoxic aryl hydrocarbon receptor ligands. Toxicology Letters, 2011, 206, 178-188.	0.8	42
16	3D Cell Culture Models Demonstrate a Role for FGF and WNT Signaling in Regulation of Lung Epithelial Cell Fate and Morphogenesis. Frontiers in Cell and Developmental Biology, 2020, 8, 574.	3.7	42
17	Rottlerin inhibits the nuclear factor κB/Cyclin-D1 cascade in MCF-7 breast cancer cells. Life Sciences, 2008, 82, 638-643.	4.3	40
18	Cisplatin and a potent platinum(IV) complex-mediated enhancement of TRAIL-induced cancer cells killing is associated with modulation of upstream events in the extrinsic apoptotic pathway. Carcinogenesis, 2011, 32, 42-51.	2.8	40

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19	Tumor suppressor candidate 3 (TUSC3) prevents the epithelial-to-mesenchymal transition and inhibits tumor growth by modulating the endoplasmic reticulum stress response in ovarian cancer cells. International Journal of Cancer, 2015, 137, 1330-1340.	5.1	38
20	Furo[3,2â€ <i>b</i>)pyridine: A Privileged Scaffold for Highly Selective Kinase Inhibitors and Effective Modulators of the Hedgehog Pathway. Angewandte Chemie - International Edition, 2019, 58, 1062-1066.	13.8	38
21	Growth/differentiation factor-15 inhibits differentiation into osteoclastsâ€"A novel factor involved in control of osteoclast differentiation. Differentiation, 2009, 78, 213-222.	1.9	37
22	Effect of Apple Extracts on NF-κB Activation in Human Umbilical Vein Endothelial Cells. Experimental Biology and Medicine, 2006, 231, 594-598.	2.4	36
23	Different modulation of TRAIL-induced apoptosis by inhibition of pro-survival pathways in TRAIL-sensitive and TRAIL-resistant colon cancer cells. FEBS Letters, 2006, 580, 6565-6569.	2.8	35
24	Phenotypic Heterogeneity of Triple-Negative Breast Cancer Mediated by Epithelial–Mesenchymal Plasticity. Cancers, 2021, 13, 2188.	3.7	35
25	Furo[3,2â€b]pyridine: A Privileged Scaffold for Highly Selective Kinase Inhibitors and Effective Modulators of the Hedgehog Pathway. Angewandte Chemie, 2019, 131, 1074-1078.	2.0	32
26	Toll-Like Receptor 3 in Solid Cancer and Therapy Resistance. Cancers, 2020, 12, 3227.	3.7	32
27	Platinum(IV) complex with adamantylamine overcomes intrinsic resistance to cisplatin in ovarian cancer cells. Gynecologic Oncology, 2006, 102, 32-40.	1.4	29
28	Chk1 Inhibitor SCH900776 Effectively Potentiates the Cytotoxic Effects of Platinum-Based Chemotherapeutic Drugs in Human Colon Cancer Cells. Neoplasia, 2017, 19, 830-841.	5.3	29
29	BRCA1 or CDK12 loss sensitizes cells to CHK1 inhibitors. Tumor Biology, 2017, 39, 101042831772747.	1.8	28
30	Growth/differentiation factor-15 is an abundant cytokine in human seminal plasma. Human Reproduction, 2010, 25, 2962-2971.	0.9	27
31	Lineage specific composition of cyclin D–CDK4/CDK6–p27 complexes reveals distinct functions of CDK4, CDK6 and individual Dâ€type cyclins in differentiating cells of embryonic origin. Cell Proliferation, 2008, 41, 875-893.	5.3	26
32	Alternative Pathways of Cancer Cell Death by Rottlerin: Apoptosis versus Autophagy. Evidence-based Complementary and Alternative Medicine, 2012, 2012, 1-11.	1.2	26
33	Automatic cell cloning assay for determining the clonogenic capacity of cancer and cancer stemâ€ike cells. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2013, 83A, 472-482.	1.5	26
34	TGF- \hat{l}^21 suppresses IL-6-induced STAT3 activation through regulation of Jak2 expression in prostate epithelial cells. Cellular Signalling, 2010, 22, 1734-1744.	3.6	25
35	Genotoxic polycyclic aromatic hydrocarbons fail to induce the p53-dependent DNA damage response, apoptosis or cell-cycle arrest in human prostate carcinoma LNCaP cells. Toxicology Letters, 2010, 197, 227-235.	0.8	24
36	The role of high cell density in the promotion of neuroendocrine transdifferentiation of prostate cancer cells. Molecular Cancer, 2014, 13, 113.	19.2	24

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37	The dual role of asporin in breast cancer progression. Oncotarget, 2016, 7, 52045-52060.	1.8	24
38	Novel CHK1 inhibitor MU380 exhibits significant single-agent activity in TP53-mutated chronic lymphocytic leukemia cells. Haematologica, 2019, 104, 2443-2455.	3.5	23
39	The effects of TNF-α and inhibitors of arachidonic acid metabolism on human colon HT-29 cells depend on differentiation status. Differentiation, 2004, 72, 23-31.	1.9	22
40	Posttranslational nitrotyrosination of î±-tubulin induces cell cycle arrest and inhibits proliferation of vascular smooth muscle cells. European Journal of Cell Biology, 2006, 85, 1241-1252.	3.6	22
41	The oncogene i>EVI1 / i>enhances transcriptional and biological responses of human myeloid cells to i>all-trans / i>retinoic acid. Cell Cycle, 2014, 13, 2931-2943.	2.6	22
42	LC–MS/MS study of in vivo fate of hyaluronan polymeric micelles carrying doxorubicin. Carbohydrate Polymers, 2019, 209, 181-189.	10.2	22
43	Comparative cell cycle transcriptomics reveals synchronization of developmental transcription factor networks in cancer cells. PLoS ONE, 2017, 12, e0188772.	2.5	22
44	RNF43 inhibits WNT5A-driven signaling and suppresses melanoma invasion and resistance to the targeted therapy. ELife, 2021, 10 , .	6.0	22
45	Different cell cycle modulation following treatment of human ovarian carcinoma cells with a new platinum(IV) complex vs cisplatin. Investigational New Drugs, 2007, 25, 435-443.	2.6	21
46	Lung Neutrophilia in Myeloperoxidase Deficient Mice during the Course of Acute Pulmonary Inflammation. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-13.	4.0	21
47	Trop-2 plasticity is controlled by epithelial-to-mesenchymal transition. Carcinogenesis, 2018, 39, 1411-1418.	2.8	21
48	High Skp2 expression is associated with a mesenchymal phenotype and increased tumorigenic potential of prostate cancer cells. Scientific Reports, 2019, 9, 5695.	3.3	21
49	Tumor necrosis factor-alpha induces apoptosis associated with poly(ADP-ribose) polymerase cleavage in HT-29 colon cancer cells. Anticancer Research, 2002, 22, 1635-9.	1.1	21
50	Plasticity and intratumoural heterogeneity of cell surface antigen expression in breast cancer. British Journal of Cancer, 2018, 118, 813-819.	6.4	20
51	Dimethyl sulfoxide potentiates death receptor-mediated apoptosis in the human myeloid leukemia U937 cell line through enhancement of mitochondrial membrane depolarization. Leukemia Research, 2006, 30, 81-89.	0.8	19
52	Fetal colon cell line FHC exhibits tumorigenic phenotype, complex karyotype, and TP53 gene mutation. Cancer Genetics and Cytogenetics, 2010, 197, 107-116.	1.0	18
53	TGF- \hat{l}^21 signaling plays a dominant role in the crosstalk between TGF- \hat{l}^21 and the aryl hydrocarbon receptor ligand in prostate epithelial cells. Cellular Signalling, 2012, 24, 1665-1676.	3.6	18
54	A reappraisal of the genomic organization of human Nox1 and its splice variants. Archives of Biochemistry and Biophysics, 2005, 435, 323-330.	3.0	17

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55	Transforming growth factor- \hat{l}^21 inhibits all-trans retinoic acid-induced apoptosis. Leukemia Research, 2006, 30, 607-623.	0.8	17
56	Synthesis and Profiling of a Novel Potent Selective Inhibitor of CHK1 Kinase Possessing Unusual N-trifluoromethylpyrazole Pharmacophore Resistant to Metabolic N-dealkylation. Molecular Cancer Therapeutics, 2017, 16, 1831-1842.	4.1	17
57	Slug-expressing mouse prostate epithelial cells have increased stem cell potential. Stem Cell Research, 2020, 46, 101844.	0.7	17
58	Opposite regulation of MDM2 and MDMX expression in acquisition of mesenchymal phenotype in benign and cancer cells. Oncotarget, 2015, 6, 36156-36171.	1.8	17
59	Prenylated Flavonoids fromMorus albaL. Cause Inhibition of G1/S Transition in THP-1 Human Leukemia Cells and Prevent the Lipopolysaccharide-Induced Inflammatory Response. Evidence-based Complementary and Alternative Medicine, 2013, 2013, 1-13.	1.2	16
60	Transcription factor c-Myb inhibits breast cancer lung metastasis by suppression of tumor cell seeding. Oncogene, 2018, 37, 1020-1030.	5.9	16
61	Nitroxide radical TEMPO reduces ozone-induced chemokine IL-8 production in lung epithelial cells. Toxicology in Vitro, 2009, 23, 365-370.	2.4	15
62	In vivo monitoring of tumor distribution of hyaluronan polymeric micelles labeled or loaded with near-infrared fluorescence dye. Carbohydrate Polymers, 2018, 198, 339-347.	10.2	15
63	Ethanol acts as a potent agent sensitizing colon cancer cells to the TRAIL-induced apoptosis. FEBS Letters, 2004, 577, 309-313.	2.8	14
64	The Effect of Nonsteroidal Anti-inflammatory Drugs Ibuprofen, Flurbiprofen, and Diclofenac on In Vitro and In Vivo Growth of Mouse Fibrosarcoma. Cancer Investigation, 2002, 20, 490-498.	1.3	13
65	In Vitro Proliferation of Fibrosarcoma Cells Depends on Intact Functions of Lipoxygenases and Cytochrome P-450-Monooxygenase. Cancer Investigation, 2004, 22, 234-247.	1.3	13
66	Novel Anticancer Platinum(IV) Complexes with Adamantylamine: Their Efficiency and Innovative Chemotherapy Strategies Modifying Lipid Metabolism. Metal-Based Drugs, 2008, 2008, 1-15.	3.8	13
67	Multiple defects in negative regulation of the PKB/Akt pathway sensitise human cancer cells to the antiproliferative effect of non-steroidal anti-inflammatory drugs. Biochemical Pharmacology, 2009, 78, 561-572.	4.4	13
68	Dynamic Monitoring of Cellular Remodeling Induced by the Transforming Growth Factor- \hat{l}^21 . Biological Procedures Online, 2009, 11, 316-324.	2.9	13
69	The CHK1 inhibitor MU380 significantly increases the sensitivity of human docetaxelâ€resistant prostate cancer cells to gemcitabine through the induction of mitotic catastrophe. Molecular Oncology, 2020, 14, 2487-2503.	4.6	13
70	Alternative pathways of programmed cell death are activated in cells with defective caspase-dependent apoptosis. Leukemia Research, 2008, 32, 599-609.	0.8	12
71	Highly selective inhibitors of protein kinases CLK and HIPK with the furo[3,2-b]pyridine core. European Journal of Medicinal Chemistry, 2021, 215, 113299.	5.5	12
72	Inhibitors of arachidonic acid metabolism potentiate tumour necrosis factor-α-induced apoptosis in HL-60 cells. European Journal of Pharmacology, 2001, 424, 1-11.	3.5	11

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73	Multiple biological effects of inhibitors of arachidonic acid metabolism on human keratinocytes. Archives of Dermatological Research, 2002, 293, 626-633.	1.9	11
74	Metabolic stress regulates ERK activity by controlling KSRâ€RAF heterodimerization. EMBO Reports, 2018, 19, 320-336.	4.5	11
75	Ring-Substituted 1-Hydroxynaphthalene-2-Carboxanilides Inhibit Proliferation and Trigger Mitochondria-Mediated Apoptosis. International Journal of Molecular Sciences, 2020, 21, 3416.	4.1	10
76	LA-12 overcomes confluence-dependent resistance of HT-29 colon cancer cells to Pt (II) compounds. Anticancer Research, 2010, 30, 1183-8.	1.1	10
77	5-Lipoxygenase inhibitors potentiate $1\hat{l}\pm$,25-dihydroxyvitamin D3-induced monocytic differentiation by activating p38 MAPK pathway. Molecular and Cellular Biochemistry, 2009, 330, 229-238.	3.1	9
78	Hypericin affects cancer side populations via competitive inhibition of BCRP. Biomedicine and Pharmacotherapy, 2018, 99, 511-522.	5.6	9
79	Blind deconvolution estimation of an arterial input function for small animal DCE-MRI. Magnetic Resonance Imaging, 2019, 62, 46-56.	1.8	9
80	Skp2 and Slug Are Coexpressed in Aggressive Prostate Cancer and Inhibited by Neddylation Blockade. International Journal of Molecular Sciences, 2021, 22, 2844.	4.1	9
81	Diastereoselective Flexible Synthesis of Carbocyclic C-Nucleosides. Journal of Organic Chemistry, 2017, 82, 3382-3402.	3.2	8
82	Trichostatin A Suppresses Transformation by thev-mybOncogene in BM2 Cells. Journal of Hematotherapy and Stem Cell Research, 2003, 12, 225-235.	1.8	7
83	Monocytic differentiation of leukemic HLâ€60 cells induced by coâ€treatment with TNFâ€Î± and MK886 requires activation of proâ€apoptotic machinery. European Journal of Haematology, 2009, 83, 35-47.	2.2	7
84	Presence of growth/differentiation factor-15 cytokine in human follicular fluid, granulosa cells, and oocytes. Journal of Assisted Reproduction and Genetics, 2018, 35, 1407-1417.	2.5	7
85	TGF- \hat{l}^2 regulates Sca-1 expression and plasticity of pre-neoplastic mammary epithelial stem cells. Scientific Reports, 2020, 10, 11396.	3.3	7
86	Blind deconvolution in dynamic contrast-enhanced MRI and ultrasound., 2014, 2014, 4276-9.		6
87	A prolonged exposure of human lung carcinoma epithelial cells to benzo[a]pyrene induces p21-dependent epithelial-to-mesenchymal transition (EMT)-like phenotype. Chemosphere, 2021, 263, 128126.	8.2	6
88	Mutual cytokine crosstalk between colon cancer cells and microenvironment initiates development of distant metastases. Jak-stat, 2013, 2, e23810.	2.2	5
89	Fatty Acids in the Modulation of Reactive Oxygen Species Balance in Cancer. , 2008, , 129-153.		5
90	The Effects of RARα and RXRα Proteins on Growth, Viability, and Differentiation of v-myb-Transformed Monoblasts. Blood Cells, Molecules, and Diseases, 2000, 26, 395-406.	1.4	4

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91	Heavy metals induce phosphorylation of the Bcl-2 protein by Jun N-terminal kinase. Biological Chemistry, 2009, 390, 49-58.	2.5	4
92	Generation of human iPSCs from human prostate cancer-associated fibroblasts IBPi002-A. Stem Cell Research, 2018, 33, 255-259.	0.7	4
93	Hematological Profile of Untreated or Ionizing Radiation-Exposed Cyclooxygenase-2-Deficient Mice. Physiological Research, 2017, 66, 673-676.	0.9	4
94	Transcription factor c-Myb: novel prognostic factor in osteosarcoma. Clinical and Experimental Metastasis, 2022, 39, 375-390.	3.3	4
95	TACSTD2 upregulation is an early reaction to lung infection. Scientific Reports, 2022, 12, .	3.3	4
96	Lipoxygenase inhibitors enhance tumor suppressive effects of Jun proteins on v-myb-transformed monoblasts BM2. Prostaglandins and Other Lipid Mediators, 2003, 72, 131-145.	1.9	3
97	Soluble Cripto-1 Induces Accumulation of Supernumerary Centrosomes and Formation of Aberrant Mitoses in Human Embryonic Stem Cells. Stem Cells and Development, 2018, 27, 1077-1084.	2.1	3
98	Expandable Lung Epithelium Differentiated from Human Embryonic Stem Cells. Tissue Engineering and Regenerative Medicine, 2022, 19, 1033-1050.	3.7	3
99	Toll-Like Receptor 3 Overexpression Induces Invasion of Prostate Cancer Cells, whereas Its Activation Triggers Apoptosis. American Journal of Pathology, 2022, 192, 1321-1335.	3.8	3
100	Hematological Findings in Non-Treated and \hat{l}^3 -Irradiated Mice Deficient for MIC-1/GDF15. Physiological Research, 2018, 67, 623-636.	0.9	2
101	Regulation of Neuroendocrine-like Differentiation in Prostate Cancer by Non-Coding RNAs. Non-coding RNA, 2021, 7, 75.	2.6	2
102	Tumor–Host Interactions Accompanying the Growth of the G:5:113 Fibrosarcoma in the Mouse: Possibilities for a New Therapeutic Approach?. Cancer Investigation, 2003, 21, 227-236.	1.3	1
103	Flavonoid 4′-O-Methylkuwanon E fromMorus albaInduces the Differentiation of THP-1 Human Leukemia Cells. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-8.	1.2	1
104	Evaluation of accuracy of bolus and burst method for quantitative ultrasound perfusion analysis with various arterial input function models. , 2015 , , .		1
105	Generation of human iPSCs from fetal prostate fibroblasts HPrF. Stem Cell Research, 2019, 35, 101405.	0.7	1
106	Multiparameter cytometric analysis of complex cellular response. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2018, 93, 239-248.	1.5	0
107	Formation of Secretory Senescent Cells in Prostate Tumors: The Role of Androgen Receptor Activity and Cell Cycle Regulation., 2013,, 303-316.		0
108	Abstract 3047: Hypoxia leads to deregulation of PI3K/AKT/mTOR signaling in prostate cancer stem cells. , 2014, , .		0

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109	Trop-2 expression in epithelial-to-mesenchymal transition of cancer cells. Endocrine Abstracts, 0, , .	0.0	0
110	Abstract B084: Trop-2 plasticity is driven by epithelial-to-mesenchymal transition in prostate cancer cells., 2018,,.		0