David Bernhard

List of Publications by Year
in descending order

82 papers	4,629 citations	126907 33 h-index	102487 66 g-index
86 all docs	86 docs citations	86 times ranked	7867 citing authors

#	Article	IF	Citations
1	Smoking and Cardiovascular Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 509-515.	2.4	752
2	The biology behind the atherothrombotic effects of cigarette smoke. Nature Reviews Cardiology, 2013, 10, 219-230.	13.7	254
3	Cadmium Is a Novel and Independent Risk Factor for Early Atherosclerosis Mechanisms and In Vivo Relevance. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1392-1398.	2.4	245
4	Metals in cigarette smoke. IUBMB Life, 2005, 57, 805-809.	3.4	234
5	Replicative senescence of human endothelial cells in vitro involves G1 arrest, polyploidization and senescence-associated apoptosis. Experimental Gerontology, 2001, 36, 1327-1347.	2.8	187
6	Resveratrol, a tumorâ€suppressive compound from grapes, induces apoptosis via a novel mitochondrial pathway controlled by Bclâ€2. FASEB Journal, 2001, 15, 1613-1615.	0.5	175
7	Cadmium and cardiovascular diseases: cell biology, pathophysiology, and epidemiological relevance. BioMetals, 2010, 23, 811-822.	4.1	154
8	Cigarette smoke â€“ an aging accelerator?. Experimental Gerontology, 2007, 42, 160-165.	2.8	129
9	Enhanced MTT-reducing activity under growth inhibition by resveratrol in CEM-C7H2 lymphocytic leukemia cells. Cancer Letters, 2003, 195, 193-199.	7.2	122
10	Apoptosis induced by the histone deacetylase inhibitor sodium butyrate in human leukemic lymphoblasts. FASEB Journal, 1999, 13, 1991-2001.	0.5	117
11	Cigarette smoke metalâ€catalyzed protein oxidation leads to vascular endothelial cell contraction by depolymerization of microtubules. FASEB Journal, 2005, 19, 1096-1107.	0.5	110
12	Healing characteristics of electrospun polyurethane grafts with various porosities. Acta Biomaterialia, 2013, 9, 6032-6040.	8.3	101
13	Increased Serum Cadmium and Strontium Levels in Young Smokers. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 833-838.	2.4	96
14	Gene expression profiles of proliferating vs. G1/G0 arrested human leukemia cells suggest a mechanism for glucocorticoidâ€induced apoptosis. FASEB Journal, 2001, 15, 693-699.	0.5	93
15	Non-Toxic Cadmium Concentrations Induce Vascular Inflammation and Promote Atherosclerosis. Circulation Journal, 2011, 75, 2491-2495.	1.6	92
16	Vapours of US and EU Market Leader Electronic Cigarette Brands and Liquids Are Cytotoxic for Human Vascular Endothelial Cells. PLoS ONE, 2016, 11, e0157337.	2.5	85
17	Disruption of vascular endothelial homeostasis by tobacco smokeâ€”impact on atherosclerosis. FASEB Journal, 2003, 17, 2302-2304.	0.5	84
18	Cardiovascular Risk Factors and Atherosclerosis in Young Women. Stroke, 2009, 40, 1063-1069.	2.0	84

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19	Cigarette smoke extract induces prolonged endoplasmic reticulum stress and autophagic cell death in human umbilical vein endothelial cells. Cardiovascular Research, 2011, 92, 141-148.	3.8	83
20	Suberoylanilide hydroxamic acid (SAHA) overcomes multidrug resistance and induces cell death in P-glycoprotein-expressing cells. International Journal of Cancer, 2002, 99, 292-298.	5.1	72
21	Cadmium overkill: autophagy, apoptosis and necrosis signalling in endothelial cells exposed to cadmium. Cellular and Molecular Life Sciences, 2016, 73, 1699-1713.	5.4	71
22	Characteristics of TAV- and BAV-associated thoracic aortic aneurysmsâ€"Smooth muscle cell biology, expression profiling, and histological analyses. Atherosclerosis, 2012, 220, 355-361.	0.8	62
23	Development and evaluation of an in vitro model for the analysis of cigarette smoke effects on cultured cells and tissues. Journal of Pharmacological and Toxicological Methods, 2004, 50, 45-51.	0.7	60
24	Chemical imaging and assessment of cadmium distribution in the human body. Metallomics, 2019, 11, 2010-2019.	2.4	58
25	Chronic cadmium exposure induces transcriptional activation of the Wnt pathway and upregulation of epithelial-to-mesenchymal transition markers in mouse kidney. Toxicology Letters, 2010, 198, 69-76.	0.8	54
26	Elastomeric degradable biomaterials by photopolymerization-based CAD-CAM for vascular tissue engineering. Biomedical Materials (Bristol), 2011, 6, 055003.	3.3	51
27	Cadmium activates a programmed, lysosomal membrane permeabilization-dependent necrosis pathway. Toxicology Letters, 2012, 212, 268-275.	0.8	46
28	Ursolic acid causes DNA-damage, P53-mediated, mitochondria- and caspase-dependent human endothelial cell apoptosis, and accelerates atherosclerotic plaque formation in vivo. Atherosclerosis, 2011, 219, 402-408.	0.8	45
29	Identification and pharmacological characterization of the anti-inflammatory principal of the leaves of dwarf elder (Sambucus ebulus L.). Journal of Ethnopharmacology, 2011, 133, 704-709.	4.1	43
30	Histone deacetylase inhibitors potently repress CXCR4 chemokine receptor expression and function in acute lymphoblastic leukaemia. British Journal of Haematology, 2002, 119, 965-969.	2.5	39
31	Leoligin, the major lignan from Edelweiss, inhibits intimal hyperplasia of venous bypass grafts. Cardiovascular Research, 2009, 82, 542-549.	3.8	38
32	p53-induced apoptosis in the human T-ALL cell line CCRF-CEM. Oncogene, 1997, 15, 2429-2437.	5.9	36
33	Leoligin, the major lignan from Edelweiss, activates cholesteryl ester transfer protein. Atherosclerosis, 2011, 219, 109-115.	0.8	35
34	Lead Contributes to Arterial Intimal Hyperplasia Through Nuclear Factor Erythroid 2â€"Related Factorâ€"Mediated Endothelial Interleukin 8 Synthesis and Subsequent Invasion of Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1733-1740.	2.4	34
35	Prevalence of RT-qPCR-detected SARS-CoV-2 infection at schools: First results from the Austrian School-SARS-CoV-2 prospective cohort study. Lancet Regional Health - Europe, The, 2021, 5, 100086.	5.6	33
36	Isogentisinâ€"A novel compound for the prevention of smoking-caused endothelial injury. Atherosclerosis, 2007, 194, 317-325.	0.8	32

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37	The Elderly Patient and Cardiac Surgery â€“ A Mini-Review. Gerontology, 2010, 56, 241-249.	2.8	32
38	Cigarette smoke is an endothelial stressor and leads to cell cycle arrest. Atherosclerosis, 2008, 201, 298-305.	0.8	28
39	An Evaluation of the Clinical Evidence on the Role of Inflammation and Oxidative Stress in Smoking-Mediated Cardiovascular Disease. Biomarker Insights, 2008, 3, BMI.S480.	2.5	27
40	Apoptosis induced by the Tibetan herbal remedy PADMA 28 in the T cell-derived lymphocytic leukaemia cell line CEM-C7H2. Journal of Carcinogenesis, 2005, 4, 15.	2.5	25
41	Dynamics of heat shock protein 60 in endothelial cells exposed to cigarette smoke extract. Journal of Molecular and Cellular Cardiology, 2011, 51, 777-780.	1.9	25
42	c-Myc does not prevent glucocorticoid-induced apoptosis of human leukemic lymphoblasts. Oncogene, 1999, 18, 4626-4631.	5.9	24
43	Metabolomic profiling of ascending thoracic aortic aneurysms and dissections - Implications for pathophysiology and biomarker discovery. PLoS ONE, 2017, 12, e0176727.	2.5	24
44	The Combined Use of Known Antiviral Reverse Transcriptase Inhibitors AZT and DDI Induce Anticancer Effects at Low Concentrations. Neoplasia, 2012, 14, 44-53.	5.3	22
45	Drugs from nature targeting inflammation (DNTI): a successful Austrian interdisciplinary network project. Monatshefte FÃ¼r Chemie, 2016, 147, 479-491.	1.8	22
46	CXCR4 chemokine receptors, histone deacetylase inhibitors and acute lymphoblastic leukemia. Leukemia and Lymphoma, 2005, 46, 1545-1551.	1.3	20
47	Hydrogen peroxide-mediated necrosis induction in HUVECs is associated with an atypical pattern of caspase-3 cleavage. Experimental Cell Research, 2006, 312, 1753-1764.	2.6	20
48	Combination of Cadmium and High Cholesterol Levels as a Risk Factor for Heart Fibrosis. Toxicological Sciences, 2015, 145, 360-371.	3.1	20
49	Maternal cigarette smoking and its effect on neonatal lymphocyte subpopulations and replication. BMC Pediatrics, 2013, 13, 57.	1.7	19
50	Targeted gene expression analyses and immunohistology suggest a pro-proliferative state in tricuspid aortic valve-, and senescence and viral infections in bicuspid aortic valve-associated thoracic aortic aneurysms. Atherosclerosis, 2018, 271, 111-119.	0.8	18
51	Human Macrophages Preferentially Infiltrate the Superficial Adipose Tissue. International Journal of Molecular Sciences, 2018, 19, 1404.	4.1	18
52	Bicuspid aortic valve-associated aortopathy: Where do we stand?. Journal of Molecular and Cellular Cardiology, 2019, 133, 76-85.	1.9	18
53	Cannabinoids lead to enhanced virulence of the smallpox vaccine (vaccinia) virus. Immunobiology, 2011, 216, 670-677.	1.9	17
54	Leoligin, the major lignan from Edelweiss, inhibits 3-hydroxy-3-methyl-glutaryl-CoA reductase and reduces cholesterol levels in ApoE â^'/â^' mice. Journal of Molecular and Cellular Cardiology, 2016, 99, 35-46.	1.9	16

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55	Improved matrix coating for positive- and negative-ion-mode MALDI-TOF imaging of lipids in blood vessel tissues. Analytical and Bioanalytical Chemistry, 2019, 411, 3221-3227.	3.7	16
56	Detection of integrin-linked kinase in the serum of patients with malignant pleural mesothelioma. Journal of Thoracic and Cardiovascular Surgery, 2011, 142, 384-389.	0.8	15
57	Influence of the delivery modus on subpopulations and replication of lymphocytes in mothers and newborns. Early Human Development, 2015, 91, 663-670.	1.8	15
58	A yellow chlorophyll catabolite in leaves of Urtica dioica L.: An overlooked phytochemical that contributes to health benefits of stinging nettle. Food Chemistry, 2021, 359, 129906.	8.2	15
59	Interaction between dexamethasone and butyrate in apoptosis induction: non-additive in thymocytes and synergistic in a T cell-derived leukemia cell line. Cell Death and Differentiation, 1999, 6, 609-617.	11.2	14
60	Expression of granzyme A in human polymorphonuclear neutrophils. Immunology, 2007, 121, 166-173.	4.4	14
61	Early inhibition of endothelial retinoid uptake upon myocardial infarction restores cardiac function and prevents cell, tissue, and animal death. Journal of Molecular and Cellular Cardiology, 2019, 126, 105-117.	1.9	14
62	The Inhibitory Role of miR-486-5p on CSC Phenotype Has Diagnostic and Prognostic Potential in Colorectal Cancer. Cancers, 2020, 12, 3432.	3.7	14
63	Inhibition of cell surface expression of endothelial adhesion molecules by ursolic acid prevents intimal hyperplasia of venous bypass grafts in rats. European Journal of Cardio-thoracic Surgery, 2012, 42, 878-884.	1.4	11
64	5-Methoxyleoligin, a Lignan from Edelweiss, Stimulates CYP26B1-Dependent Angiogenesis In Vitro and Induces Arteriogenesis in Infarcted Rat Hearts In Vivo. PLoS ONE, 2013, 8, e58342.	2.5	11
65	Strong Signs for a Weak Wall in Tricuspid Aortic Valve Associated Aneurysms and a Role for Osteopontin in Bicuspid Aortic Valve Associated Aneurysms. International Journal of Molecular Sciences, 2019, 20, 4782.	4.1	11
66	Performance evaluation of serological assays to determine the immunoglobulin status in SARS-CoV-2 infected patients. Journal of Clinical Virology, 2020, 131, 104589.	3.1	11
67	Tylophorine reduces protein biosynthesis and rapidly decreases cyclin D1, inhibiting vascular smooth muscle cell proliferation in vitro and in organ culture. Phytomedicine, 2019, 60, 152938.	5.3	9
68	Serum concentration of integrin-linked kinase in malignant pleural mesothelioma and after asbestos exposureâ€. European Journal of Cardio-thoracic Surgery, 2013, 43, 940-945.	1.4	8
69	Impaired Endothelial Nitric Oxide Synthase Homodimer Formation Triggers Development of Transplant Vasculopathy - Insights from a Murine Aortic Transplantation Model. Scientific Reports, 2016, 6, 37917.	3.3	8
70	Letter to the editor regarding â€œIn vitro flow investigations in the aortic arch during cardiopulmonary bypass with stereo-PIVâ€• Journal of Biomechanics, 2016, 49, 1-2.	2.1	8
71	Sensitivity and specificity of the antigen-based anterior nasal self-testing programme for detecting SARS-CoV-2 infection in schools, Austria, March 2021. Eurosurveillance, 2021, 26, .	7.0	7
72	Dietary Silicon Deficiency Does Not Exacerbate Diet-Induced Fatty Lesions in Female ApoE Knockout Micece. Journal of Nutrition, 2015, 145, 1498-1506.	2.9	6

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73	An Inexpensive Staining Alternative for Gelatin Zymography Gels. Methods and Protocols, 2019, 2, 61.	2.0	6
74	To Be Or Not to Be: the â€œSmokerâ€™s Paradoxâ€•â€“ An in-Vitro Study. Cellular Physiology and Biochemistry, 2018, 48, 1638-1651.	1.6	3
75	HPLC-MS/MS Shows That the Cellular Uptake of All-Trans-Retinoic Acid under Hypoxia Is Downregulated by the Novel Active Agent 5-Methoxyleoligin. Cells, 2020, 9, 2048.	4.1	3
76	Atherosclerosis: Autoimmunity to Heat-Shock Proteins. , 2006, , 889-897.		3
77	The megaaortic syndrome: Progression of ascending aortic aneurysm or a disease of distinct origin?. International Journal of Cardiology, 2017, 227, 717-726.	1.7	2
78	Erratum to â€œDynamics of heat shock protein 60 in endothelial cells exposed to cigarette smoke extractâ€•[J. Mol. Cell. Cardiol. 51 (2011) 777â€“780]. Journal of Molecular and Cellular Cardiology, 2012, 52, 293.	1.9	0
79	Reply to: â€œThe senescence of vascular smooth muscle cells in BAV-associated aortopathyâ€• Atherosclerosis, 2018, 278, 319-320.	0.8	0
80	In Vitro Assays Used to Analyse Vascular CellÂFunctions. Learning Materials in Biosciences, 2019, , 329-353.	0.4	0
81	Smoking-Induced Oxidative Stress in the Pathogenesis of Cardiovascular Diseases. , 2010, , 231-243.		0
82	Low-entry-barrier point-of-care testing of anti-SARS-CoV-2 IgG in the population of Upper Austria from December 2020 until April 2021â€”a feasible surveillance strategy for post-pandemic monitoring?. Analytical and Bioanalytical Chemistry, 2022, 414, 3291-3299.	3.7	0