

Jeroen Buters

List of Publications by Year in descending order

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103
papers

5,939
citations

94269

37
h-index

76769

74
g-index

113
all docs

113
docs citations

113
times ranked

6551
citing authors

#	ARTICLE	IF	CITATIONS
1	Paclitaxel-resistant Human Ovarian Cancer Cells Have Mutant β -Tubulins That Exhibit Impaired Paclitaxel-driven Polymerization. <i>Journal of Biological Chemistry</i> , 1997, 272, 17118-17125.	1.6	604
2	Role of CYP2E1 in the Hepatotoxicity of Acetaminophen. <i>Journal of Biological Chemistry</i> , 1996, 271, 12063-12067.	1.6	557
3	Cytochrome P450 CYP1B1 determines susceptibility to 7,12-dimethylbenz[a]anthracene-induced lymphomas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 1977-1982.	3.3	357
4	Protection against Acetaminophen Toxicity in CYP1A2 and CYP2E1 Double-Null Mice. <i>Toxicology and Applied Pharmacology</i> , 1998, 152, 193-199.	1.3	288
5	Human Cytochrome P450 2E1 Is a Major Autoantigen Associated with Halothane Hepatitis. <i>Chemical Research in Toxicology</i> , 1996, 9, 1159-1166.	1.7	193
6	Variation of the group 5 grass pollen allergen content of airborne pollen in relation to geographic location and time in season. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 136, 87-95.e6.	1.5	155
7	High Environmental Ozone Levels Lead to Enhanced Allergenicity of Birch Pollen. <i>PLoS ONE</i> , 2013, 8, e80147.	1.1	147
8	Research needs in allergy: an EAACI position paper, in collaboration with EFA. <i>Clinical and Translational Allergy</i> , 2012, 2, 21.	1.4	127
9	Automatic and Online Pollen Monitoring. <i>International Archives of Allergy and Immunology</i> , 2015, 167, 158-166.	0.9	118
10	Defining pollen exposure times for clinical trials of allergen immunotherapy for pollen-induced rhinoconjunctivitis – an EAACI position paper. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2017, 72, 713-722.	2.7	118
11	Differential Mechanisms of Cytochrome P450 Inhibition and Activation by β -Naphthoflavone. <i>Journal of Biological Chemistry</i> , 1997, 272, 3149-3152.	1.6	117
12	The allergen Bet v 1 in fractions of ambient air deviates from birch pollen counts. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2010, 65, 850-858.	2.7	113
13	Particulate Matter from Both Heavy Fuel Oil and Diesel Fuel Shipping Emissions Show Strong Biological Effects on Human Lung Cells at Realistic and Comparable In Vitro Exposure Conditions. <i>PLoS ONE</i> , 2015, 10, e0126536.	1.1	111
14	CYP1B1 determines susceptibility to low doses of 7,12-dimethylbenz[a]anthracene-induced ovarian cancers in mice: correlation of CYP1B1-mediated DNA adducts with carcinogenicity. <i>Carcinogenesis</i> , 2003, 24, 327-334.	1.3	106
15	A highly sensitive tool for the assay of cytochrome P450 enzyme activity in rat, dog and man. <i>Biochemical Pharmacology</i> , 1993, 46, 1577-1584.	2.0	103
16	Toxicity and elemental composition of particulate matter from outdoor and indoor air of elementary schools in Munich, Germany. <i>Indoor Air</i> , 2012, 22, 148-158.	2.0	102
17	Is diet partly responsible for differences in COVID-19 death rates between and within countries?. <i>Clinical and Translational Allergy</i> , 2020, 10, 16.	1.4	97
18	Cytochrome P450 1B1 Determines Susceptibility to Dibenzo[a,l]pyrene-Induced Tumor Formation. <i>Chemical Research in Toxicology</i> , 2002, 15, 1127-1135.	1.7	96

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19	The role of mobile health technologies in allergy care: An EAACI position paper. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 259-272.	2.7	95
20	Cabbage and fermented vegetables: From death rate heterogeneity in countries to candidates for mitigation strategies of severe COVID-19. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 735-750.	2.7	83
21	Human mast cells express androgen receptors but treatment with testosterone exerts no influence on IgE-independent mast cell degranulation elicited by neuromuscular blocking agents. <i>Experimental Dermatology</i> , 2010, 19, 302-304.	1.4	82
22	Airborne olive pollen counts are not representative of exposure to the major olive allergen Ole e 1. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2013, 68, 809-812.	2.7	79
23	CO Binding Kinetics of Human Cytochrome P450 3A4. <i>Journal of Biological Chemistry</i> , 1995, 270, 5014-5018.	1.6	77
24	Year-to-Year Variation in Release of Bet v 1 Allergen from Birch Pollen: Evidence for Geographical Differences between West and South Germany. <i>International Archives of Allergy and Immunology</i> , 2008, 145, 122-130.	0.9	77
25	Monitoring of occupational and environmental aeroallergens – EAACI Position Paper. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2014, 69, 1280-1299.	2.7	64
26	Impact of Pollen. , 2013, , 161-215.		63
27	Importance of NO/cGMP signalling via cGMP-dependent protein kinase II for controlling emotionality and neurobehavioural effects of alcohol. <i>European Journal of Neuroscience</i> , 2004, 20, 3498-3506.	1.2	60
28	Near-ground effect of height on pollen exposure. <i>Environmental Research</i> , 2019, 174, 160-169.	3.7	58
29	The Macroecology of Airborne Pollen in Australian and New Zealand Urban Areas. <i>PLoS ONE</i> , 2014, 9, e97925.	1.1	58
30	Toxicity testing of combustion aerosols at the air-liquid interface with a self-contained and easy-to-use exposure system. <i>Journal of Aerosol Science</i> , 2016, 96, 38-55.	1.8	56
31	Nrf2-interacting nutrients and COVID-19: time for research to develop adaptation strategies. <i>Clinical and Translational Allergy</i> , 2020, 10, 58.	1.4	56
32	Impact of Urbanization on the Proteome of Birch Pollen and Its Chemotactic Activity on Human Granulocytes. <i>International Archives of Allergy and Immunology</i> , 2010, 151, 46-55.	0.9	52
33	Artemisia pollen is the main vector for airborne endotoxin. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 143, 369-377.e5.	1.5	50
34	An operational robotic pollen monitoring network based on automatic image recognition. <i>Environmental Research</i> , 2020, 191, 110031.	3.7	48
35	Airborne Indoor Particles from Schools Are More Toxic than Outdoor Particles. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012, 47, 575-582.	1.4	45
36	Inhibitory and non-inhibitory monoclonal antibodies to human cytochrome P450 3A3/4. <i>Biochemical Pharmacology</i> , 1995, 50, 1841-1850.	2.0	42

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37	Inhibitory Monoclonal Antibody to Human Cytochrome P450 2B6. <i>Biochemical Pharmacology</i> , 1998, 55, 1633-1640.	2.0	42
38	Identification of 2,3-epoxymethacrylic acid as an intermediate in the metabolism of dental materials in human liver microsomes. <i>Dental Materials</i> , 2007, 23, 9-16.	1.6	41
39	Building an automatic pollen monitoring network (ePIN): Selection of optimal sites by clustering pollen stations. <i>Science of the Total Environment</i> , 2019, 688, 1263-1274.	3.9	40
40	Monitoring, Modelling and Forecasting of the Pollen Season. , 2013, , 71-126.		39
41	Errors in determining the flow rate of Hirst-type pollen traps. <i>Aerobiologia</i> , 2017, 33, 201-210.	0.7	38
42	Influence of wood species on toxicity of log-wood stove combustion aerosols: a parallel animal and air-liquid interface cell exposure study on spruce and pine smoke. <i>Particle and Fibre Toxicology</i> , 2020, 17, 27.	2.8	38
43	Use of biologicals in allergic and type-2 inflammatory diseases during the current COVID-19 pandemic. <i>Allergologie Select</i> , 2020, 4, 53-68.	1.6	38
44	Metabolic activation of phenanthrene by human and mouse cytochromes P450 and pharmacokinetics in CYP1A2 knockout mice. <i>Chemico-Biological Interactions</i> , 2010, 183, 57-66.	1.7	36
45	Ambrosia artemisiifolia (ragweed) in Germany – current presence, allergological relevance and containment procedures. <i>Allergo Journal International</i> , 2015, 24, 108-120.	0.9	36
46	Chromium(VI) Contact Dermatitis: Getting Closer to Understanding the Underlying Mechanisms of Toxicity and Sensitization!. <i>Journal of Investigative Dermatology</i> , 2017, 137, 274-277.	0.3	35
47	Pollen season is reflected on symptom load for grass and birch pollen-induced allergic rhinitis in different geographic areas – An EAACI Task Force Report. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 1099-1106.	2.7	34
48	Environmental Polycyclic Aromatic Hydrocarbons (PAHs) Enhance Allergic Inflammation by Acting on Human Basophils. <i>Inhalation Toxicology</i> , 2007, 19, 151-156.	0.8	33
49	Effects of future climate change on birch abundance and their pollen load. <i>Global Change Biology</i> , 2021, 27, 5934-5949.	4.2	33
50	Contact anaphylaxis and protein contact dermatitis in a cook handling chicory leaves. <i>Contact Dermatitis</i> , 2009, 60, 226-227.	0.8	31
51	CYTOCHROME P450-NULL MICE. <i>Drug Metabolism Reviews</i> , 1999, 31, 437-447.	1.5	30
52	Spatio-temporal investigation of flowering dates and pollen counts in the topographically complex Zugspitze area on the German – Austrian border. <i>Aerobiologia</i> , 2012, 28, 541-556.	0.7	30
53	Pollen-derived nonallergenic substances enhance Th2-induced IgE production in B cells. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2015, 70, 1450-1460.	2.7	30
54	Abnormal lipid composition of microsomes from cirrhotic rat liver – does it contribute to decreased microsomal function?. <i>Experientia</i> , 1992, 48, 482-486.	1.2	29

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55	Differential Impact of Diesel Particle Composition on Pro-allergic Dendritic Cell Function. <i>Toxicological Sciences</i> , 2010, 113, 85-94.	1.4	29
56	Metabolic Profiling as Well as Stable Isotope Assisted Metabolic and Proteomic Analysis of RAW 264.7 Macrophages Exposed to Ship Engine Aerosol Emissions: Different Effects of Heavy Fuel Oil and Refined Diesel Fuel. <i>PLoS ONE</i> , 2016, 11, e0157964.	1.1	29
57	rAAV2-mediated restoration of LEKTI in LEKTI-deficient cells from Netherton patients. <i>Journal of Dermatological Science</i> , 2011, 61, 194-198.	1.0	27
58	Land-Use and Height of Pollen Sampling Affect Pollen Exposure in Munich, Germany. <i>Atmosphere</i> , 2020, 11, 145.	1.0	26
59	Consequences of climate change on airborne pollen in Bavaria, Central Europe. <i>Regional Environmental Change</i> , 2021, 21, 1.	1.4	26
60	Toxicity of Parked Motor Vehicle Indoor Air. <i>Environmental Science & Technology</i> , 2007, 41, 2622-2629.	4.6	25
61	Environmental Pollution and Allergy: Historical Aspects. <i>Chemical Immunology and Allergy</i> , 2014, 100, 268-277.	1.7	25
62	Organic Extracts of Urban Aerosol ($\text{PM}_{2.5}$) Enhance IL-1 -Induced Upregulation of CD63 in Basophils from Birch Pollen-Allergic Individuals. <i>Toxicological Sciences</i> , 2006, 90, 377-384.	1.4	24
63	Considerations on Genetic and Environmental Factors That Contribute to Resistance or Sensitivity of Mammals Including Humans to Toxicity of 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) and Related Compounds. <i>Ecotoxicology and Environmental Safety</i> , 1997, 36, 213-230.	2.9	23
64	Allergen immunotherapy in the current COVID-19 pandemic: A position paper of AeDA, ARIA, EAACI, DGAKI and GPA. <i>Allergologie Select</i> , 2020, 4, 44-52.	1.6	23
65	Differences in caffeine and paraxanthine metabolism between human and murine CYP1A2. <i>Biochemical Pharmacology</i> , 2002, 63, 2159-2167.	2.0	22
66	Optimizing of the basophil activation test: Comparison of different basophil identification markers. , 2015, 88, 183-189.		22
67	Predicting the start, peak and end of the Betula pollen season in Bavaria, Germany. <i>Science of the Total Environment</i> , 2019, 690, 1299-1309.	3.9	22
68	Metabolism of antipyrine in vivo in two rat models of liver cirrhosis its relationship to intrinsic clearance in vitro and microsomal membrane lipid composition. <i>Biochemical Pharmacology</i> , 1993, 46, 983-991.	2.0	21
69	MOLECULAR STUDIES ON THE TOXIFYING EFFECTS BY GENETICALLY ENGINEERED CYTOCHROMES P450. <i>Drug Metabolism Reviews</i> , 1999, 31, 423-435.	1.5	21
70	Expression of CYP450-2E1 and formation of 2,3-epoxymethacrylic acid (2,3-EMA) in human oral cells exposed to dental materials. <i>Dental Materials</i> , 2010, 26, 1151-1156.	1.6	17
71	Spatial interpolation of current airborne pollen concentrations where no monitoring exists. <i>Atmospheric Environment</i> , 2019, 199, 435-442.	1.9	17
72	High post-season Alnus pollen loads successfully identified as long-range transport of an alpine species. <i>Atmospheric Environment</i> , 2020, 231, 117453.	1.9	16

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73	Cytochrome P450 2A1, 2E1, and 2C9 cDNA-expression by insect cells and partial purification using hydrophobic chromatography. <i>Biochemical Pharmacology</i> , 1995, 50, 1509-1515.	2.0	15
74	Sex difference in antipyrine 3-hydroxylation. <i>Biochemical Pharmacology</i> , 1990, 40, 771-777.	2.0	14
75	Next-generation pollen monitoring and dissemination. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2018, 73, 1944-1945.	2.7	14
76	An abbreviated method for the quality control of pollen counters. <i>Grana</i> , 2019, 58, 185-190.	0.4	13
77	GSTM1, GSTT1 and GSTP1 gene polymorphism in polymorphous light eruption. <i>Journal of the European Academy of Dermatology and Venereology</i> , 2013, 27, 157-162.	1.3	12
78	A systematic review of threshold values of pollen concentrations for symptoms of allergy. <i>Aerobiologia</i> , 2021, 37, 395-424.	0.7	12
79	Understanding hourly patterns of Olea pollen concentrations as tool for the environmental impact assessment. <i>Science of the Total Environment</i> , 2020, 736, 139363.	3.9	11
80	Equine cytochrome P450 2B6 – Genomic identification, expression and functional characterization with ketamine. <i>Toxicology and Applied Pharmacology</i> , 2013, 266, 101-108.	1.3	10
81	A minimal-invasive method for systemic bio-monitoring of the environmental pollutant phenanthrene in humans: Thermal extraction and gas chromatography – mass spectrometry from 1 mL capillary blood. <i>Journal of Chromatography A</i> , 2017, 1487, 254-257.	1.8	9
82	The development of birch pollen seasons over 30 years in Munich, Germany – An EAACI Task Force report*. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 3024-3026.	2.7	9
83	Anwendung von Biologika bei allergischen und Typ-2- entzündlichen Erkrankungen in der aktuellen COVID-19-Pandemie – ein Positionspapier von AeDA, DGAKI, GPA, A-GAI, LGAI, A-GP, ARIA und EAACI. <i>Allergologie</i> , 2020, 43, 255-271.	0.1	9
84	Interaction of Polycyclic Aromatic Hydrocarbons with Human Cytochrome P450 1A1: A CO Flash Photolysis Study. <i>Archives of Biochemistry and Biophysics</i> , 1996, 336, 261-267.	1.4	7
85	Effect of air filtration on house dust mite, cat and dog allergens and particulate matter in homes. <i>Clinical and Translational Allergy</i> , 2022, 12, e12137.	1.4	7
86	Danger from the workplace: allergic contact dermatitis from the first exposure to isothiazolinones. <i>Contact Dermatitis</i> , 2011, 64, 361-362.	0.8	6
87	Threshold values of grass pollen (Poaceae) concentrations and increase in emergency department visits, hospital admissions, drug consumption and allergic symptoms in patients with allergic rhinitis: a systematic review. <i>Aerobiologia</i> , 2021, 37, 633-662.	0.7	6
88	Dosing intact birch pollen grains at the air-liquid interface (ALI) to the immortalized human bronchial epithelial cell line BEAS-2B. <i>PLoS ONE</i> , 2021, 16, e0259914.	1.1	5
89	The priming effect of diesel exhaust on native pollen exposure at the air-liquid interface. <i>Environmental Research</i> , 2022, 211, 112968.	3.7	5
90	Influence of alpine mountain climate of Bavaria on patients with atopic diseases: studies at the Environmental Research Station Schneefernerhaus (UFS – Zugspitze) – a pilot study. <i>Clinical and Translational Allergy</i> , 2014, 4, 17.	1.4	4

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91	Non-pharmacological interventions for pollen-induced allergic symptoms: Systematic literature review. <i>Pediatric Allergy and Immunology</i> , 2022, 33, .	1.1	3
92	Impact of Local Grasslands on Wild Grass Pollen Emission in Bavaria, Germany. <i>Land</i> , 2022, 11, 306.	1.2	3
93	Perspektiven für ein bundesweites Pollenmonitoring in Deutschland – Fachübergreifender Arbeitskreis – Bundesweites Pollenmonitoring. <i>Allergologie</i> , 2020, 43, 111-124.	0.1	2
94	Impact of Volatile and Semi-volatile Organic Compounds from Farming Environments on Allergy-Related Cellular Processes. <i>Exposure and Health</i> , 2022, 14, 185-201.	2.8	1
95	Allergenexposition – wie kann man Inhalationsallergene an Arbeitsplätzen und in der Umwelt messen? Zusammenfassung des EAACI Positionspapier zum Allergenmonitoring. <i>Allergologie</i> , 2016, 39, 45-68.	0.1	1
96	Pollen, Allergene, Schimmelsporen und Bakterien in der Außenluft. <i>Allergologie</i> , 2015, 38, 590-596.	0.1	1
97	Definition von Pollenexpositionszeiten für klinische Studien zur Allergen-Immuntherapie bei polleninduzierter Rhinokonjunktivitis – ein EAACI-Positionspapier. <i>Allergologie</i> , 2018, 41, 386-399.	0.1	1
98	Particulate and Pollen Interactions. , 2014, , 497-507.		1
99	Effective Strategies for Tumors Affecting Chemopreventive Metabolism. <i>Clinical Cancer Research</i> , 2006, 12, 7203-7204.	3.2	0
100	The future of pollen counting. <i>Allergo Journal</i> , 2013, 22, 493-494.	0.1	0
101	Haut und Umwelt. <i>Fortschritte Der Praktischen Dermatologie Und Venerologie</i> , 2013, , 286-296.	0.0	0
102	Ein allergiefreundliches städtisches Umfeld. <i>Allergologie</i> , 2016, 39, 210.	0.1	0
103	Allergie im Fokus: Umwelt, Klimawandel, Exposition – Einfluss auf allergische Erkrankungen – 13./14. Mai 2022, Berlin. <i>Allergologie</i> , 2022, 45, 211-217.	0.1	0