Christoph van Thriel

List of Publications by Year
in descending order

103	3,552	136950	161849
papers	citations	32 h-index	54 g-index

106	106	106	3460
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adverse outcome pathways: opportunities, limitations and open questions. Archives of Toxicology, 2017, 91, 3477-3505.	4.2	282
2	Human embryonic stem cell-derived test systems for developmental neurotoxicity: a transcriptomics approach. Archives of Toxicology, 2013, 87, 123-143.	4.2	222
3	Assessing the â€žhumorous temperamentâ€œ: Construction of the facet and standard trait forms of the State-Trait-Cheerfulness-Inventory â€" STCI. Humor, 1996, 9, 303-340.	1.0	159
4	The Health Effects of Aluminum Exposure. Deutsches Ärzteblatt International, 2017, 114, 653-659.	0.9	158
5	Sensory irritation as a basis for setting occupational exposure limits. Archives of Toxicology, 2014, 88, 1855-1879.	4.2	125
6	The network formation assay: a spatially standardized neurite outgrowth analytical display for neurotoxicity screening. Lab on A Chip, 2010, 10, 701.	6.0	106
7	Putative adverse outcome pathways relevant to neurotoxicity. Critical Reviews in Toxicology, 2015, 45, 83-91.	3.9	92
8	Prediction of human drug-induced liver injury (DILI) in relation to oral doses and blood concentrations. Archives of Toxicology, 2019, 93, 1609-1637.	4.2	86
9	Occupational aluminum exposure: Evidence in support of its neurobehavioral impact. NeuroToxicology, 2007, 28, 1068-1078.	3.0	85
10	Translating neurobehavioural endpoints of developmental neurotoxicity tests into in vitro assays and readouts. NeuroToxicology, 2012, 33, 911-924.	3.0	84
11	Markers of murine embryonic and neural stem cells, neurons and astrocytes: reference points for developmental neurotoxicity testing. ALTEX: Alternatives To Animal Experimentation, 2010, 27, 17-42.	1.5	83
12	A transcriptome-based classifier to identify developmental toxicants by stem cell testing: design, validation and optimization for histone deacetylase inhibitors. Archives of Toxicology, 2015, 89, 1599-1618.	4.2	82
13	From chemosensory thresholds to whole body exposuresâ€"experimental approaches evaluating chemosensory effects of chemicals. International Archives of Occupational and Environmental Health, 2006, 79, 308-321.	2.3	76
14	Compound selection for in vitro modeling of developmental neurotoxicity. Frontiers in Bioscience - Landmark, 2012, 17, 2442.	3.0	69
15	Odor and Irritation Thresholds for Ammonia: A Comparison between Static and Dynamic Olfactometry. Chemical Senses, 2007, 32, 11-20.	2.0	64
16	Neurotoxicology of Nanomaterials. Chemical Research in Toxicology, 2020, 33, 1121-1144.	3.3	63
17	The impact of solvent mixtures on neurobehavioral performanceâ€"Conclusions from epidemiological data. NeuroToxicology, 2008, 29, 349-360.	3.0	58
18	Human volunteer study on the inhalational and dermal absorption of N-methyl-2-pyrrolidone (NMP) from the vapour phase. Archives of Toxicology, 2008, 82, 13-20.	4.2	55

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19	Definition of transcriptome-based indices for quantitative characterization of chemically disturbed stem cell development: introduction of the STOP-Toxukn and STOP-Toxukk tests. Archives of Toxicology, 2017, 91, 839-864.	4.2	53
20	Chronic solvent-induced encephalopathy: European consensus of neuropsychological characteristics, assessment, and guidelines for diagnostics. NeuroToxicology, 2012, 33, 710-726.	3.0	49
21	Sensory and pulmonary effects of acute exposure to sulfur dioxide (SO2). Toxicology Letters, 2010, 196, 42-50.	0.8	47
22	The neurobehavioral impact of manganese: Results and challenges obtained by a meta-analysis of individual participant data. NeuroToxicology, 2013, 36, 1-9.	3.0	45
23	Meta-analysis on occupational exposure to pesticides â€“ Neurobehavioral impact and doseâ€“response relationships. Environmental Research, 2015, 136, 234-245.	7.5	43
24	High fidelity neuronal networks formed by plasma masking with a bilayer membrane: analysis of neurodegenerative and neuroprotective processes. Lab on A Chip, 2011, 11, 2763.	6.0	42
25	Neurobehavioral testing in human risk assessment. NeuroToxicology, 2008, 29, 556-567.	3.0	41
26	Performance alterations associated with occupational exposure to manganeseâ€”A meta-analysis. NeuroToxicology, 2009, 30, 487-496.	3.0	39
27	Neurobehavioral effects during experimental exposure to 1-octanol and isopropanol. Scandinavian Journal of Work, Environment and Health, 2003, 29, 143-151.	3.4	39
28	Quantitative Risk Analysis for N-Methyl Pyrrolidone Using Physiologically Based Pharmacokinetic and Benchmark Dose Modeling. Toxicological Sciences, 2010, 113, 468-482.	3.1	38
29	Physiological and psychological approaches to chemosensory effects of solvents. Toxicology Letters, 2003, 140-141, 261-271.	0.8	37
30	Eye blinks as indicator for sensory irritation during constant and peak exposures to 2-ethylhexanol. Environmental Toxicology and Pharmacology, 2005, 19, 531-541.	4.0	35
31	Odor Annoyance of Environmental Chemicals: Sensory and Cognitive Influences. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2008, 71, 776-785.	2.3	35
32	Psychological reactions related to chemosensory irritation. International Archives of Occupational and Environmental Health, 2002, 75, 314-325.	2.3	34
33	An integrative approach considering acute symptoms and intensity ratings of chemosensory sensations during experimental exposures. Environmental Toxicology and Pharmacology, 2005, 19, 589-598.	4.0	34
34	Acrylamide alters neurotransmitter induced calcium responses in murine ESC-derived and primary neurons. NeuroToxicology, 2014, 43, 117-126.	3.0	34
35	Development of a neural rosette formation assay (RoFA) to identify neurodevelopmental toxicants and to characterize their transcriptome disturbances. Archives of Toxicology, 2020, 94, 151-171.	4.2	32
36	Micropatterning neuronal networks. Analyst, The, 2014, 139, 3256-3264.	3.5	31

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37	From neurotoxic to chemosensory effects: New insights on acute solvent neurotoxicity exemplified by acute effects of 2-ethylhexanol. NeuroToxicology, 2007, 28, 347-355.	3.0	30
38	Human experimental exposure study on the uptake and urinary elimination of N-methyl-2-pyrrolidone (NMP) during simulated workplace conditions. Archives of Toxicology, 2007, 81, 335-346.	4.2	30
39	Monocrotophos in Gandaman village: India school lunch deaths and need for improved toxicity testing. Archives of Toxicology, 2013, 87, 1877-1881.	4.2	30
40	Test systems of developmental toxicity: state-of-the art and future perspectives. Archives of Toxicology, 2013, 87, 2037-2042.	4.2	29
41	Impairment of Glutamate Signaling in Mouse Central Nervous System Neurons In Vitro by Tri-Ortho-Cresyl Phosphate at Noncytotoxic Concentrations. Toxicological Sciences, 2014, 142, 274-284.	3.1	28
42	Effects of Manganese Exposure on Olfactory Functions in Teenagers: A Pilot Study. PLoS ONE, 2016, 11, e0144783.	2.5	28
43	Impairment of Motor Function Correlates with Neurometabolite and Brain Iron Alterations in Parkinsonâ€™s Disease. Cells, 2019, 8, 96.	4.1	28
44	Breathing and Heart Rate during Experimental Solvent Exposure of Young Adults with Self-Reported Multiple Chemical Sensitivity (sMCS). NeuroToxicology, 2003, 24, 179-186.	3.0	27
45	Chemosensory effects during acute exposure to N-methyl-2-pyrrolidone (NMP). Toxicology Letters, 2007, 175, 44-56.	0.8	27
46	Neurobehavioral effects during exposures to propionic acidâ€”An indicator of chemosensory distraction?. NeuroToxicology, 2009, 30, 1223-1232.	3.0	27
47	Evaluation of ethyl acetate on three dimensions: Investigation of behavioral, physiological and psychological indicators of adverse chemosensory effects. Toxicology Letters, 2008, 182, 102-109.	0.8	26
48	Time courses of sensory irritations due to 2-butanone and ethyl benzene exposure: Influences of self-reported multiple chemical sensitivity (sMCS). International Journal of Hygiene and Environmental Health, 2002, 204, 367-369.	4.3	24
49	Neurobehavioral performance in human volunteers during inhalation exposure to the unpleasant local irritant cyclohexylamine. NeuroToxicology, 2012, 33, 1180-1187.	3.0	24
50	The Effects of Toluene Plus Noise on Hearing Thresholds: An Evaluation Based on Repeated Measurements in the German Printing Industry. International Journal of Occupational Medicine and Environmental Health, 2008, 21, 191-200.	1.3	23
51	Toluene exposure below 50Âppm and cognitive function: a follow-up study with four repeated measurements in rotogravure printing plants. International Archives of Occupational and Environmental Health, 2004, 77, 1-9.	2.3	22
52	Neurobehavioral and neurophysiological effects after acute exposure to a single peak of 200 ppm toluene in healthy volunteers. NeuroToxicology, 2015, 48, 50-59.	3.0	22
53	The involvement of TRP channels in sensory irritation: a mechanistic approach toward a better understanding of the biological effects of local irritants. Archives of Toxicology, 2016, 90, 1399-1413.	4.2	22
54	Neurobehavioural test results and exposure to inorganic mercury: in search of dose-response relations. Archives of Toxicology, 2004, 78, 207-211.	4.2	20

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55	Stress lowers the detection threshold for foul-smelling 2-mercaptoethanol. Stress, 2016, 19, 18-27.	1.8	20
56	Nasal Function in Self-Reported Chemically Intolerant Individuals. Archives of Environmental Health, 2002, 57, 247-254.	0.4	19
57	Changes of neurobehavioral and sensory functions due to toluene exposure below 50ppm?. Environmental Toxicology and Pharmacology, 2005, 19, 635-643.	4.0	19
58	Responses to Trigeminal Irritants at Different Locations of the Human Nasal Mucosa. Laryngoscope, 2008, 118, 152-155.	2.0	19
59	â€œSymptoms associated with environmental factorsâ€•(SAEF) â€“ Towards a paradigm shift regarding â€œidiopathic environmental intoleranceâ€•and related phenomena. Journal of Psychosomatic Research, 2020, 131, 109955.	2.6	19
60	Impact of Biological and Lifestyle Factors on Cognitive Aging and Work Ability in the Dortmund Vital Study: Protocol of an Interdisciplinary, Cross-sectional, and Longitudinal Study. JMIR Research Protocols, 2022, 11, e32352.	1.0	18
61	Considerations for the design and technical setup of a human whole-body exposure chamber. Inhalation Toxicology, 2012, 24, 99-108.	1.6	17
62	Neurobehavioral effects of experimental exposures to low levels of styrene. Toxicology Letters, 2004, 151, 183-192.	0.8	16
63	Effect of acute exposure to toluene on cortical excitability, neuroplasticity, and motor learning in healthy humans. Archives of Toxicology, 2018, 92, 3149-3162.	4.2	15
64	Assessment of low dose effects of acute sulphur dioxide exposure on the airways using non-invasive methods. Archives of Toxicology, 2010, 84, 121-127.	4.2	14
65	Axonal and dendritic localization of mRNAs for glycogen-metabolizing enzymes in cultured rodent neurons. BMC Neuroscience, 2014, 15, 70.	1.9	14
66	Association of exposure to manganese and iron with relaxation rates R1 and R2*- magnetic resonance imaging results from the WELDOX II study. NeuroToxicology, 2018, 64, 68-77.	3.0	14
67	Associations between former exposure to manganese and olfaction in an elderly population: Results from the Heinz Nixdorf Recall Study. NeuroToxicology, 2017, 58, 58-65.	3.0	13
68	Digital research data: from analysis of existing standards to a scientific foundation for a modular metadata schema in nanosafety. Particle and Fibre Toxicology, 2022, 19, 1.	6.2	13
69	Psychophysiological functions of subjects with self-reported multiple chemical sensitivity (sMCS) during experimental solvent exposure. International Journal of Hygiene and Environmental Health, 2002, 204, 371-373.	4.3	12
70	Interindividual differences in chemosensory perception: Toward a better understanding of perceptual ratings during chemical exposures. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2016, 79, 1026-1040.	2.3	11
71	Alternative in vitro assays to assess the potency of sensory irritantsâ€”Is one TRP channel enough?. NeuroToxicology, 2017, 60, 178-186.	3.0	11
72	Editorial: Evaluation of chemosensory effects due to occupational exposures. International Archives of Occupational and Environmental Health, 2006, 79, 265-267.	2.3	10

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73	Neurobehavioral effects of exposure to propionic acid revisitedâ€"Does psychosocial stress interfere with distractive effects in volunteers?. NeuroToxicology, 2016, 55, 102-111.	3.0	10
74	Assessment of neurotoxic effects of tri-cresyl phosphates (TCPs) and cresyl saligenin phosphate (CBDP) using a combination of in vitro techniques. NeuroToxicology, 2017, 59, 210-221.	3.0	10
75	Does seasonal allergic rhinitis increase sensitivity to ammonia exposure?. International Journal of Hygiene and Environmental Health, 2017, 220, 840-848.	4.3	10
76	Occupational Exposure to Manganese and Fine Motor Skills in Elderly Men: Results from the Heinz Nixdorf Recall Study. Annals of Work Exposures and Health, 2017, 61, 1118-1131.	1.4	10
77	Intranasal effects in chemically sensitive volunteers: an experimental exposure study. Environmental Toxicology and Pharmacology, 2003, 14, 129-137.	4.0	9
78	Statistical means to enhance the comparability of data within a pooled analysis of individual data in neurobehavioral toxicology. Toxicology Letters, 2011, 206, 144-151.	0.8	8
79	Multidimensional assessment of self-reported chemical intolerance and its impact on chemosensory effects during ammonia exposure. International Archives of Occupational and Environmental Health, 2016, 89, 947-959.	2.3	8
80	Are multitasking abilities impaired in welders exposed to manganese? Translating cognitive neuroscience to neurotoxicology. Archives of Toxicology, 2017, 91, 2865-2877.	4.2	8
81	Associations between blood lead, olfaction and fine-motor skills in elderly men: Results from the Heinz Nixdorf Recall Study. NeuroToxicology, 2018, 68, 66-72.	3.0	8
82	Odor Thresholds and Breathing Changes of Human Volunteers as Consequences of Sulphur Dioxide Exposure Considering Individual Factors. Safety and Health at Work, 2011, 2, 355-364.	0.6	7
83	Olfactory Acuity and Automatic Associations to Odor Words Modulate Adverse Effects of Ammonia. Chemosensory Perception, 2016, 9, 27-36.	1.2	7
84	Somatosensory Response to Trigeminal Stimulation: A Functional Near-Infrared Spectroscopy (fNIRS) Study. Scientific Reports, 2018, 8, 13771.	3.3	7
85	Mechanical strain mimicking breathing amplifies alterations in gene expression induced by SiO₂ NPs in lung epithelial cells. Nanotoxicology, 2019, 13, 1227-1243.	3.0	7
86	Prediction of human sensory irritation due to ethyl acrylate: the appropriateness of time-weighted average concentrationâ€‰Ã—â€‰time models for varying concentrations. Archives of Toxicology, 2017, 91, 3051-3064.	4.2	6
87	Lignans and sesquiterpene lactones from Hypochaeris radicata subsp. neapolitana (Asteraceae,) Tj ETQq1 1 0.784314 rgBT /Overlock	2.9	6
88	Electrophysiological Correlates of Impaired Response Inhibition During Inhalation of Propionic Acid. Journal of Psychophysiology, 2013, 27, 131-141.	0.7	6
89	Sniffinâ€™ Sticks and Olfactometer-Based Odor Thresholds for n-Butanol: Correspondence and Validity for Indoor Air Scenarios. Atmosphere, 2020, 11, 472.	2.3	5
90	Spatiotemporal Processing of Bimodal Odor Lateralization in the Brain Using Electroencephalography Microstates and Source Localization. Frontiers in Neuroscience, 2020, 14, 620723.	2.8	4

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91	Developmental neurotoxicity: the case of perfluoroalkylated compounds. Archives of Toxicology, 2012, 86, 1333-1334.	4.2	3
92	A short-term inhalation study to assess the reversibility of sensory irritation in human volunteers. Archives of Toxicology, 2020, 94, 1687-1701.	4.2	3
93	Association of exposure to manganese and fine motor skills in welders - Results from the WELDOX II study. NeuroToxicology, 2021, 82, 137-145.	3.0	3
94	Direct Current Stimulation in Cell Culture Systems and Brain Slicesâ€"New Approaches for Mechanistic Evaluation of Neuronal Plasticity and Neuromodulation: State of the Art. Cells, 2021, 10, 3583.	4.1	3
95	Toward better research practiceâ€"Shortcomings decreasing the significance of epidemiological studies in the toxicological field. NeuroToxicology, 2014, 45, 238-246.	3.0	1
96	Neurodevelopmental basis of health and disease. NeuroToxicology, 2014, 43, 143-159.	3.0	1
97	Neurodevelopmental basis of health and disease. NeuroToxicology, 2014, 43, 1-2.	3.0	1
98	Neural mechanisms of functional impairment across the lifespan. NeuroToxicology, 2017, 59, 131-132.	3.0	1
99	How Structured Metadata Acquisition Contributes to the Reproducibility of Nanosafety Studies: Evaluation by a Round-Robin Test. Nanomaterials, 2022, 12, 1053.	4.1	1
100	Highlight report. Archives of Toxicology, 2012, 86, 1335-1336.	4.2	0
101	Highlight report: Translocation of nanoparticles through barriers. Archives of Toxicology, 2015, 89, 2469-2470.	4.2	0
102	Neurotoxicology: an update on epidemiology, mechanisms, and pathology. Acta Neuropathologica, 2019, 138, 339-341.	7.7	0
103	Aluminium affects neurospheres at human in vivo relevant concentrations. Archives of Toxicology, 2020, 94, 3601-3602.	4.2	0