

## CV: Peder Wolkoff - MSc, PhD, DSc(Med)

National Research Centre for the Working Environment (NRCWE), Denmark ([pwo@nrcwe.dk](mailto:pwo@nrcwe.dk))


### Academic degrees and education

1996	<b>DSc(Med)</b>	University of Copenhagen (Indoor environmental science) <sup>1</sup> (Faculty of Medicine)
1976-1978	<b>Post Doctoral Fellow</b>	University of Ottawa
1976/4-9	<b>NATO Science Fellow</b>	Der Universiteit van Amsterdam
1976	<b>PhD</b>	University of Copenhagen (org. chem., mass spectrometry) (Faculty of Science)
1972	<b>MSc</b>	University of Copenhagen (org. chem.) (Faculty of Science)

### Academic career

2015-2017	“Named Person” at NRCWE
2009-	Adjunct professor (full), Dept. of Chemistry, University of Copenhagen
2004-2012	Research professor (full) in Indoor Environmental Science, NRCWE, Denmark
1991-2015	Project coordinator, Indoor Air and Chemistry group, NRCWE, Denmark
1990-	Senior Researcher, NRCWE, Denmark
1982-1990	Scientist, NIOH, Denmark
1979-1981	Senior Research Fellow (funded by NRC), University of Copenhagen
1975	Research Fellow, University of Copenhagen (funded by NRC)
1972-1973	Research Associate, Brock University, Ontario

### Bibliometrics – peer-reviewed papers

- Co-authored: **152** papers in peer-reviewed journals (leading: 86; solo: **19**)
- Co-authored: **22** peer-reviewed papers - the last five years
- First/last authorship: **12** - the last five years
- Citations (ISI, Web of Knowledge): average rate/paper: **>32** h-index: 37
-  Top-cited Science Citation Papers (ISI): 2
- Citations (Google Scholar): h-index: 49
- ResearchGate Score: 46.75

### Links

<http://scholar.google.dk/citations?user=kla8IEAAAAAJ&hl=da>

[https://www.researchgate.net/profile/Peder\\_Wolkoff](https://www.researchgate.net/profile/Peder_Wolkoff)

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### Inventions - Achievements - Awards - Honors

1991	Invention: Field and Laboratory Emission Cell (FLEC) – ISO (16000-7) and ASTM (D-7143) standards
1994	Invention: Danish Indoor Climate Labelling Scheme for construction products' emission
2015	Certificate of Outstanding Contribution in Reviewing – The Editors of Atmospheric Environment
2012-	Secretary for Scientific Committee “Indoor Air Quality and Health” Int Comm on Occup Health (ICOH)
2002-	Editorial Board, “Indoor Air” Journal
2011-2013	Editorial Board, “TheScientificWorld” Journal
2000	Best Poster Award at Healthy Buildings '00 by ISIAQ
1999	Best Paper Award in Indoor Air Journal (1996-1998) by ISIAQ
1998	Scandinavian Indoor Climate Award by ISS Denmark
1997	Elected Academy Fellow of ISIAQ (International Society of Indoor Air Quality)

### Memberships/expert/administrative experience/supervision (2002 and onwards)

- “Harmonization of Indoor material emissions labelling systems in the EU”, EU Collaborative Action, 2002-2005
- “Prioritization of building materials as indoor pollution sources”, EU Collaborative Action, 2006-2009
- “Harmonisation of the health-based evaluation of indoor material emissions in EU”, EU-LCI Action, 2010-2015
- “EU-LCI harmonization” featured by DG Growth, 2016-
- “Ozone-Initiated Chemistry and Its impact on IAQ and Human Health”, EU Collaborative Action, 2006-2007.
- Temporary expert for WHO (Indoor Air Quality Guidelines), 2008-2010
- Expert for AirCareCouncil, UK, 2009 –2014
- Scientific Committee on “Work and Vision”, Int. Comm. on Occup Health (ICOH), 2003 -
- Scientific Advisory Board – “Indoor Environment Quality” – Rockwool International, 2004 - 2014
- Technical assessor for Danish Accreditation of Laboratories (DANAK), 1985 -

<sup>1</sup> Publication No. 54.

## Referee (regular) for journals

Atmos Environ – Building&Environment - Chemosphere – Environ Res – Environ Health – Environ Science Technol – Environ Int - Indoor Air - J. Hazard Materials - STOTEN

## Reviews and evaluations

Austrian Research Council, FORMAS (Sweden), Hong Kong Research Grant Council  
Professorship and Lecturership evaluations

## Organizer/convener of international conferences, symposia and courses

- NIVA Courses on Indoor Air Quality: 1989, 1992, 1996, 1999, 2003, 2006
- Clean Air at Work, Brussels, 1991; EURO Course, Ispra, 1992
- International FLEC Symposia, Copenhagen: 1999 and 2001
- Atmos. Chem. - Indoor Pollution Session – Euro. Geochem. Union Meeting, Vienna, April 2005
- INTROP, workshop on “Reactive indoor air chemistry” financed by ESF, Borås, September 2008.
- National organizing committee member for Indoor Air 2008 International Conference, Lyngby, August 2008

## Supervising/Teaching

- 7 PhDs and 8 MScs
- Lectured at advanced courses since 1989
- Teaching at the Copenhagen Master of Excellence graduate school “Environmental Chemistry and Health” at University of Copenhagen, 2009-2015
- Course leader: NIVA (Nordic Advanced Training in Occupational Health) “Indoor Air Quality Problems”, 1989, 1992, 1996, 2002, and 2006

## Participation in EU and Danish projects (2009-2018)

- “OFFICAIR” (On the reduction of health effects from combined exposure to indoor air pollutants in modern offices) funded by the European Union 7th Framework (Agreement 265267) under the Theme: ENV.2010.1.2.2-1. 2010-2013.  
[http://www.officair-project.eu/index.php?option=com\\_content&view=article&id=9&Itemid=6](http://www.officair-project.eu/index.php?option=com_content&view=article&id=9&Itemid=6)
- “EPHECT” (Emission, Exposure Patterns, and Health Effects of consumer Products in the EU), funded by European Union, Executive Agency for Health and Consumers under the sub-action: Healthy environments. 2010-2013.  
<https://sites.vito.be/sites/ephect/Pages/home.aspx>
- “CISBO” (Centre for Indoor Climate and Healthy Dwellings). Funded by Real Dania. 2009-June – 2015-Dec.  
<http://www.cisbo.dk/english>
- (Airway effects of spray products for surface coating) Luftvejseffekter af sprayprodukter til overfladebehandling og imprægnering - toksikologisk og fysisk/kemisk karakterisering. Funded by Working Environment Research Council, 2010-2014 and Ministry of Environment (Danish EPA) in 2012.
- Biocides in spray products – exposure and health (Biocider i sprayprodukter - eksponering og sundhed). Funded by Danish EPA, 2015-2018.

## 152 publications in journals with peer-review - 2017 – 1972 P WOLKOFF

Leading or responsible author in 86 papers; sole author of 19 papers

🔥 Two top-cited SCI-papers

### 2017 (5)

152. VOCs and aldehydes source identification in European office buildings - The OFFICAIR study. Campagnolo, D.; Saraga, D.E.; Cattaneo, A.; Spinazze, A.; Mandin, C.; Mabilia, R.; Perreca, P.; Sakellaris, I.; Canha, N.; Mihucz, V.G.; Szigeti, T.; Ventura, G.; Madureira, J.; Fernandes, E.D.O.; de Kluizenaar, Y.; Cornelissen, E.; Hänninen, O.; Carrer, P.; **Wolkoff**, P.; Cavallo, D.M.; Bartzis, J.G. *Build Environ* (2017) in press.
151. **Wolkoff**, P., Nielsen, G.D. Effects by inhalation of abundant fragrances in indoor air – an overview. *Environ Int* (2017) in press.
150. Mandin, C., Trantallidi, M., Cattaneo, A., Canha, N., Mihucz, V.G., Szigetti, T., Mabilia, R., Perreca, E., Spinazzé, A., Fossati, S., De Kluizenaar, Y., Cornelissen, E., Sakellaris, I., Saraga, D., Hänninen, O., Fernandes, E.D.O., Ventura, G., **Wolkoff**, P., Carrer, P., Bartzis, J. Assessment of indoor air quality in office buildings across Europe – The OFFICAIR study. *Sci Tot Environ*, **579** (2017) 169-178.
149. **Wolkoff**, P. External eye symptoms in indoor environments. *Indoor Air*, **27** (2017) in press.
148. Nielsen, G.D., Larsen, S.T., **Wolkoff**, P. Re-evaluation of the WHO (2010) formaldehyde indoor air quality guideline for cancer risk assessment. *Arch Toxicol* **91** (2017) 35-61.

### 2016-2015 (5)

147. Hansen, J.S., Nørgaard, A.W., Koponen, I.K., Sørli, J.B., Paidi, M.D., Hansen, S., Clausen, P.A., Nielsen, G.D., **Wolkoff**, P., Larsen, S.T. Limonene and its ozone-initiated reaction products attenuate allergic lung inflammation in mice. *J Immunotoxicol*, **13** (2016) 793-803.
146. Madsen, A.M., Larsen, S.T., Koponen, I.K., Kling, K.I., Barooni, A., Karotki, D.G., Tendal, K., Frederiksen, M.W., **Wolkoff**, P. Generation and characterization of indoor fungal aerosols for inhalation studies. *Appl Environ Microbiol*, **82** (2016) 2479-

2493.

145. **Wolkoff, P.**, Crump, D.J., Harrison, T.T.C. Pollutant exposures and health symptoms in aircrew and office workers: Is there a link? *Environ Int*, **82** (2016) 74-84.
144. Trantallidi, M., Dimitropoulou, C., **Wolkoff, P.**, Kephelopoulou, S., Carrer, P. EPHECT III: Health risk assessment of exposure to household consumer products. *Sci Tot Environ*, **536** (2015) 903-913.
143. Bartzis, J., **Wolkoff, P.**, Stranger, M., Efthimiou, G., Tolis, E., Maes, F., Nørgaard, A.W., Ventura, G., Kalimeri, K., Goelen, E., Fernandes, O. Intercomparisons on organic emissions from indoor use of consumer products' use. *J Hazard Mat.*, **285** (2015) 37-45.

#### 2014-2013 (12)

142. Nørgaard, A.W., Kofoed-Sørensen, V., Mandin, C., Ventura, G., Mabilia, R., Perreca, E., Cattaneo, A., Spinazzè, A., Mihucz, V.G., Szigeti, T., de Kluzenaar, Y., Cornelissen, H.J.M., Trantallidi, M., Carrer, P., Sakellaris, I., Bartzis, J., **Wolkoff, P.** Ozone-initiated Terpene Reaction Products in Five European Offices: Replacement of a Floor Cleaning Agent, *Environ Sci Technol*, **48** (2014) 13331-13339.
141. Duch, P., Nørgaard, A.W., Hansen, J.S., Sørli, J.B., Jacobsen, P., Lynggard, F., Levin, M., Nielsen, G.D., **Wolkoff, P.**, Ebbehøj, N., Larsen, S.T. Pulmonary toxicity following exposure to aerosolized nanoparticle. Clinical and toxicological evaluation of an outbreak, *Clin Toxicol*, **52** (2014) 498-505.
140. Vibenholt, A., Clausen, P.A., **Wolkoff, P.** Ozone reaction characteristics of indoor floor dust examined in the emission cell "FLEC", *Chemosphere*, **107** (2014) 230-239.
139. Nørgaard, A.W., Kudal, J.D., Kofoed-Sørensen, V., Koponen, I.K., **Wolkoff, P.** Airway effects of ozone-initiated VOC and particle emissions from a cleaning agent and an air freshener: A risk assessment, *Environ Int*, **68** (2014) 209-218.
138. Nørgaard, A.W., Hansen, J.S., Sørli, J.B., Levin, M., **Wolkoff, P.**, Nielsen, G.D., Larsen, S.T. Pulmonary toxicity of perfluorinated siloxanes in nanofilm spray products: Solvent dependence, *Toxicol Sci*, **137** (2014) 179-188.
137. Hansen, J.S., Nielsen, G.D., Sørli, J.B., Clausen, P.A., **Wolkoff, P.**, Larsen, S.T. Adjuvant and inflammatory effects in mice after repeated subchronic inhalation of allergen and ozone-initiated limonene reaction products, *J Toxicol Environ Health A*, **76** (2013) 1085-1095.
136. Nørgaard, A.W., Vibenholt, A., Benassi, M., Clausen, P.A., **Wolkoff, P.** Study of ozone-initiated limonene reaction products by low temperature plasma ionization mass spectrometry, *J Am Soc Mass Spectrom*, **24** (2013) 1090-1096.
135. Larsen, S.T., **Wolkoff, P.**, Hammer, M., Kofoed-Sørensen, V., Clausen, P.A., Nielsen, G.D., Acute airway effects of airborne formaldehyde in sensitized and non-sensitized mice housed in a dry or humid environment, *Toxicol Appl Pharmacol*, **268** (2013) 294-299.
134. Nørgaard, A.W., Kofoed-Sørensen, V., Svensmark, B., **Wolkoff, P.**, Clausen, P.A. Gas chromatography interfaced with atmospheric pressure ionization-quadrupole time-of-flight-mass spectrometry by low-temperature plasma ionization, *Anal Chem*, **85** (2013) 28-32.
133. **Wolkoff, P.**, Larsen, S.T., Hammer, M., Kofoed-Sørensen, V., Clausen, P.A., Nielsen, G.D. Human reference values for acute airway effects of five common ozone-initiated terpene reaction products in indoor air, *Toxicol Lett*, **216** (2013) 54-64.
132. Nielsen, G.D., Larsen, S.T., **Wolkoff, P.** Recent trend in risk assessment of airborne formaldehyde, *Arch Toxicol*, **87** (2013) 73-98.
131. **Wolkoff, P.** Indoor air pollutants in office environments: assessment of comfort, health, and performance. *Int J Hyg Environ Health*, **216** (2013) 371-394. □ Highly cited paper (ISI, Web of Knowledge)

#### 2012-2011 (4)

130. **Wolkoff, P.**, Clausen, P.A., Larsen, S.T., Hammer, M., Nielsen, G.D. Airway effects of repeated exposures to ozone-initiated limonene oxidation products as model of indoor air mixtures. *Toxicol Lett*, **209** (2012) 166-172.
129. Clausen, P.A., Liu, Z., Kofoed-Sørensen, V., Little, J., **Wolkoff, P.** The influence of temperature on the emission of di-(2-ethylhexyl) phthalate (DEHP) from PVC flooring in the emission cell FLEC. *Environ Sci Technol*, **46** (2012) 909-915.
128. **Wolkoff, P.**, Kärcher, T., Mayer, H. Problems of the outer eyes in the office environment: An ophthalmologic approach. *J Occup Environ Med*, **54** (2012) 621-631.
127. Nørgaard, A.W., Janfelt, C., Benassi, M., **Wolkoff, P.**, Lauritsen, F.R. Electrospray and desorption ionization analysis of reactive organo-functionalized silanes in nano film products, *J Mass Spectrom*, **46** (2011) 402-410.

#### 2010-2009 (8)

126. **Wolkoff, P.** Ocular discomfort by environmental and personal risk factors altering the precorneal tear film. *Toxicol Lett*, **199** (2010) 203-212.
125. **Wolkoff, P.**, Nielsen, G.D. Non-cancer effects of formaldehyde and relevance for setting an indoor air guideline. *Environ Int*, **36** (2010) 788-799.
124. Nørgaard, A.W., **Wolkoff, P.**, Lauritsen, F.R. Characterization of nano film spray products by mass spectrometry. *Chemosphere*, **80** (2010) 1377-1386.
123. Nielsen, G.D., **Wolkoff, P.** Cancer effects of formaldehyde: A proposal for an indoor air guideline value. *Arch Toxicol* **84** (2010) 423-446.
122. Nørgaard, A.W., Larsen, S.T., Hammer, M., Poulsen, S.S., Jensen, K.A., Nielsen, G.D., **Wolkoff, P.** Lung damage in mice after inhalation of nanofilm spray products: The role of perfluorination and free OH groups, *Toxicol Sci*, **116** (2010) 216-224.
121. Nørgaard, A.W., Jensen, K.A., Janfelt, C., Lauritsen, F.R., Clausen, P.A., **Wolkoff, P.** Release of VOCs and particles during use of nano film spray products, *Environ Sci Technol*, **43** (2009) 7824-7830.
120. Carslaw, N., Langer, S., **Wolkoff, P.** Where is the link between reactive indoor air chemistry and health effects? *Atmos Environ*, **43** (2009) 3808-3809.
119. Vibenholt, A., Nørgaard, A.W., Clausen, P.A., **Wolkoff, P.** Formation and stability of secondary ozonides from monoterpenes studied by mass spectrometry, *Chemosphere*, **76** (2009) 572-577.

#### 2008-2007 (15)

118. Clausen, P.A. Knudsen, H.N., Larsen, K., **Wolkoff**, P., Wilkins, C.K. Use of thermal desorption gas chromatography olfactometry/mass spectrometry for the comparison of identified and unidentified odor active compounds emitted from building products containing linseed oil, *J. Chromatography A* **1210** (2008) 203-211.
117. **Wolkoff**, P., Clausen, P.A., Larsen, K., Hammer, M. and Nielsen, G.D. Acute airway effects of ozone-initiated *d*-limonene chemistry: Importance of gaseous products. *Toxicol Lett*, **181** (2008) 171-176.
116. **Wolkoff**, P. "Healthy" eye in office-like environments. *Environ Int*, **34** (2008) 1204-1214.
115. Nielsen, P.K., Sjøgaard, K., Skotte, J., **Wolkoff**, P. Ocular surface area and human eye blink frequency during VDU work – the effect of monitor position. *European J. Physiology*, **103** (2008) 1-7.
114. Nørgaard, A.W., Nøjgaard, J.K., Clausen, P.A., **Wolkoff**, P. Secondary ozonides of substituted cyclohexenes: A new class of pollutants characterized by collision-induced dissociation mass spectrometry using negative chemical ionization, *Chemosphere*, **70** (2008) 2032-2038.
113. Nøjgaard, J.K., Nørgaard, A.W. and **Wolkoff**, P. On-line analysis of secondary ozonides from cyclohexene and *d*-limonene ozonolysis using atmospheric sampling Townsend discharge ionization mass spectrometry, *Atmos Environ*, **41** (2007) 8345-8354.
112. **Wolkoff**, P., Kjærgaard, S.K. The dichotomy of relative humidity in office-like environments. *Environ Int*, **33** (2007) 850-857.
111. Cain, W.S., Schmidt, R. and **Wolkoff**, P. Olfactory detection of ozone and *d*-limonene: Reactants in indoor spaces, *Indoor Air*, **17** (2007) 337-347.
110. Nøjgaard, J.K., Nørgaard, A.W. and **Wolkoff**, P. Atmospheric sampling of some endocyclic alkene secondary ozonides using Townsend discharge ionization mass spectrometry, *Int J Mass Spectrom*, **263** (2007) 88-93.
109. Nielsen, G.D., **Wolkoff**, P., Alarie, Y. Sensory irritation: Risk assessment approaches, *Regul Toxicol Pharmacol*, **48** (2007) 6-18.
108. Wilkins, C.K., **Wolkoff**, P., Knudsen, H.N., Clausen, P.A. The impact of information on perceived air quality – "organic" versus "synthetic" building materials, *Indoor Air*, **17** (2007) 130-134.
107. Nielsen, G.D., Larsen, S.T., Olesen, O., Løvik, M., Poulsen, L.K., Glue, C., **Wolkoff**, P. Do indoor chemicals promote airway allergy? *Indoor Air*, **17** (2007) 226-235.
106. Nørgaard, J.K., Larsen, K. and **Wolkoff**, P. Atmospheric sampling Townsend discharge ionisation mass spectrometry for analysis of gas-phase mixtures. *International Journal of Mass Spectrometry*, **260** (2007) 49-56.
105. Clausen, P.A., Xu, Y., Kofoed-Sørensen, V., Little, J.C., **Wolkoff**, P. The influence of humidity on the emission of di-(2-ethylhexyl) phthalate (DEHP) from vinyl flooring in the emission cell "FLEC". *Atmos Environ*, **41** (2007) 3217-3224.
104. Knudsen, H.N., Clausen, P.A., Wilkins, C.K. and **Wolkoff**, P. Sensory and chemical evaluation of odorous emissions from building products with and without linseed oil. *Building and Environment*, **42** (2007) 4059-4067.

#### 2006-2005 (10)

103. Nørgaard, A.W., Nøjgaard, J.K., Larsen, K., Spørring, S. Wilkins, C.K., Clausen, P.A., **Wolkoff**, P. Secondary limonene endo-ozonide: A major product from gas-phase ozonolysis of *R*-(+)-limonene at ambient temperature. *Atmos Environ*, **40** (2006) 3460-3466.
102. **Wolkoff**, P., Nøjgaard, J.K., Franck, C., Skov, P. Udtørrer det moderne kontormiljø øjnene? *Ugeskrift for læger*, (2006), 3893-3896.
101. **Wolkoff**, P., Nøjgaard, J.K., Franck, C. Skov, P. The modern office environment desiccates the eyes? *Indoor Air* (2006) **16**, 258-265.
100. Nøjgaard, J.K., Stenby, C., Bilde, M., Nielsen, O.J., **Wolkoff**, P. The effect of NO<sub>x</sub> on particle formation during ozonolysis of two abundant monoterpenes indoors", *Atmos Environ* **40** (2006) 1030-1042.
99. **Wolkoff**, P., Wilkins, C.K., Clausen, P.A., Nielsen, G.D. Organic compounds in office environments – Sensory irritation, odor, measurements, and the role of reactive chemistry, *Indoor Air*, **16** (2006) 7-19. □ *Highly cited paper (ISI, Web of Knowledge)*
98. Nielsen, G.D., Larsen, S.T., Hougaard, K.S., Hammer, M., **Wolkoff**, P., Clausen, P.A., Wilkins, C.K., Alarie, Y. Mechanism of acute inhalation effects of (+) and (-)- $\alpha$ -pinene in BALB/c mice, *Pharmacol Toxicol* **96** (2005) 420-428.
97. Nøjgaard, J.K., Christensen, K.B., **Wolkoff**, P. "The effect on human blink frequency by exposure to limonene oxidation products and methacrolein", *Toxicol Lett*, **156** (2005) 241-251.
96. **Wolkoff**, P., Klenø, J., Troiano, P. and Piccoli, B. Eye complaints in the office environment: The influence of the precorneal tear film integrity and eye blinking efficiency. *Occup Environ Med* **62** (2005) 4-12.
95. **Wolkoff**, P., Salthammer, T., Woolfenden, E.A. Emission Cells and Comparison to Small Chambers for Materials Emissions Testing, *Gefahrstoffe – Reinhaltung der Luft* **65** (2005) 93-98.
94. Carslaw, N., **Wolkoff**, P. A new European initiative for indoor air pollution research, *Indoor Air* **16** (2006) 4-6.

#### 2004-2003 (5)

93. Klenø, J. and **Wolkoff**, P. Changes in Eye Blink Frequency as a Measure of Trigeminal Stimulation by Exposure to Limonene Oxidation Products, Isoprene Oxidation Products and Nitrate Radicals, *Int Arch Occup Environ Health*, **77** (2004) 235-243.
92. Clausen, P.A., Hansen, V., Gunnarsen, L., Afshari, A., **Wolkoff**, P. Emission and sorption of di(2-ethylhexyl)phthalate from PVC flooring into air and dust in FLEC and CLIMPAQ. *Environ Sci Technol*. **39** (2004) 2531-2537.
91. **Wolkoff**, P., Skov, P., Franck, C., Petersen, L.P. Eye irritation and environmental factors in the office environment. Hypotheses, causes, and a physiological model, *Scan J Work, Environ & Health*, **29** (2003) 411-430.
90. Wilkins, C.K., **Wolkoff**, P., Clausen, P.A., Hammer, M. and Nielsen, G.D. Upper airway irritation of terpene/ozone oxidation products (TOPs). Dependence on reaction time relative humidity, and initial ozone concentration, *Toxicol Lett*, **143** (2003) 109-114.
89. Knudsen, H.N., Nielsen, P.A., Clausen, P.A., Wilkins, C.K. and **Wolkoff**, P. Sensory evaluation of emissions from selected building products exposed to ozone, *Indoor Air*, **13** (2003) 223-231.
88. **Wolkoff**, P. Trends in Europe to Reduce the Indoor Air Pollution of VOCs, *Indoor Air*, **13** (Suppl. 6) (2003) 5-11.

#### 2002-2000 (10)

87. Vejrup, K.V. and **Wolkoff**, P. Linear alkylbenzene sulphonates in indoor floor dust. *Science Tot Environ*, **300** (2002) 51-58.
86. Klenø, J.G., **Wolkoff**, P., Clausen, P.A., Wilkins, C.K. and Pedersen, T. Degradation of the adsorbent Tenax TA by nitrogen oxides, ozone, hydrogen peroxide, OH radical, and limonene oxidation products, *Environ Sci Technol*, **37** (2002) 4121-4126.
85. Rohr, A., Wilkins, C.K., Clausen, P.A., Hammer, M., Nielsen, G.C., **Wolkoff**, P and Spengler, J.D. Upper airway and pulmonary effects of oxidation products of (+)- $\alpha$ -Pinene, d-limonene and isoprene in BALB/c mice, *Inhal Toxicol*, **14** (2002) 663-684.
84. **Wolkoff**, P. and Nielsen, G.D. Organic compounds in indoor air – Their relevance for perceived indoor air quality, *Atmos Environ*, **35** (2001) 4407-4417.
83. Klenø, J.G., Clausen, P.A., Weschler, C., **Wolkoff**, P. Determination of ozone removal rates by selected building products using the FLEC emission cell, *Environ Sci Technol*, **35** (2001) 2548-2553.
82. Wilkins, C.K., Clausen, P.A., **Wolkoff**, P. Larsen, S.T., Hammer, M., Larsen, K., Hansen, V., Nielsen, G.D. Formation of strong airway irritants in a model mixture of isoprene/ozone, *Environ Health Perspect*, **109** (2001) 937-941.
81. Clausen, P.A., Wilkins, C.K., **Wolkoff**, P. and Nielsen, G.D. Chemical and biological evaluation of a reaction mixture of R-(+)-limonene/ozone: Formation of strong airway irritants, *Environ Int*, **26** (2001) 511-522.
80. Larsen, S.T., Hougaard, K.S., Hammer, M., Alarie, Y., **Wolkoff**, P., Clausen, P.A., Wilkins, C.K. and Nielsen, G.D. Effects of R-(+)- and R-(-)-limonene on the respiratory tract in mice, *Hum Exp Toxicol*, **19** (2000) 457-466.
79. Peitersen, J., Brohus, H., Hyldgaard, C.E., Nielsen, J.B., Valbjørn, O., Hauschildt, P., Kjærgaard, S.K., **Wolkoff**, P. The effect of renovating an office building on occupants' comfort and health, *Indoor Air*, **11** (2001) 10-25.
78. **Wolkoff**, P., Clausen, P.A., Wilkins, C.K., and Nielsen, G.D. Strong airway irritants formed in terpene/ozone mixtures, *Indoor Air*, **10** (2000) 82-91.

#### 1999-1998 (9)

77. Nielsen, G.D., Hougaard, K.S., Larsen, S.T., **Wolkoff**, P., Clausen, P.A., Wilkins, C.K., Alarie, Y. Sensory irritation, pulmonary irritation and bronchoconstriction due to acute airborne exposures to formaldehyde and ozone in BALB/c mice, *Hum Exp Toxicol*, **18** (1999) 400-409.
76. **Wolkoff**, P. How to evaluate VOC emissions from building products. A perspective, *Sci Tot Environ*, **227** (1999) 199-213.
75. **Wolkoff**, P. Photocopiers and Indoor Air Pollution, New Directions paper in *Atmos Environ*, **33** (1999) 2129-2130.
74. Knudsen, H.N., Kjær, U.D., Nielsen, P.A., **Wolkoff**, P. Sensory and Chemical Characterization of Emissions from Building Products: Impact of Concentration and Air Velocity, *Atmos Environ*, **33** (1999) 1217-1230.
73. **Wolkoff**, P., Clausen, P.A., Wilkins, C.K., Hougaard, K.S., Nielsen, G.D. Formation of Strong Airway Irritants in a Model Mixture of (+)- $\alpha$ -Pinene/Ozone, *Atmos Environ (Fast track)*, **33** (1999) 693-698.
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