

**T. SALTHAMMER - LIST OF SCIENTIFIC PUBLICATIONS****EDITORIAL WORK:**

- [1] Salthammer T., Marutzky R. und Böttcher P. (Hrsg.) (1995): Umweltfreundliche und emissionsarme Möbel. Wilhelm-Klauditz-Institut, WKI-Bericht Nr. 31, Eigenverlag, Braunschweig.
- [2] Salthammer T. (Hrsg.) (1999): Strahlenhärtende Beschichtungssysteme für Holzoberflächen. Wilhelm-Klauditz-Institut, WKI-Bericht Nr. 34, Eigenverlag, Braunschweig.
- [3] Salthammer T. (ed.) (1999): Organic Indoor Air Pollutants. WILEY-VCH, Weinheim.
- [4] Salthammer T., Marutzky R. und Scheithauer M. (2003): Sensorische Prüfung von Produkten für den Innenraum. Wilhelm-Klauditz-Institut, WKI-Bericht Nr. 38, Eigenverlag, Braunschweig.
- [5] Morawska L. and Salthammer T. (eds.) (2003): Indoor Environment: Airborne Particles and Settled Dust. WILEY-VCH, Weinheim.
- [6] Salthammer T. and Schleibinger H. (eds.) (2009) Topical Issue: Indoor Air Quality and Climate. CLEAN – Soil, Air, Water, 37, Issue 6.
- [7] Salthammer T. and Uhde E. (eds.) (2009) Organic Indoor Air Pollutants, 2<sup>nd</sup> Edition. WILEY-VCH, Weinheim.
- [8] Morawska L. and Salthammer T. (2015) Special Issue: Indoor Air – contemporary sources, exposures and global implications. Atmospheric Environment, 106, April 2015.

**THESES:**

- [1] Salthammer T. (1986): Messung von Fluoreszenz-Zeit Funktionen mit einer rechnergesteuerten Mono-Photon Apparatur. Master Thesis, Braunschweig.
- [2] Salthammer T. (1990): Fluoreszenzspektroskopische Untersuchungen von Energieübertragungsprozessen an Perylen und 3,9-Dibromperylen. PhD Thesis, Braunschweig.
- [3] Salthammer T. (2008) Occurrence, dynamics and reactions of organic pollutants in the indoor environment. Habilitationsschrift (State Doctorate Thesis), Faculty of Life Sciences, Technical University of Braunschweig.

**BOOKS AND BOOK SECTIONS:**

- [1] Salthammer T. (1994): Effect of the air exchange on formaldehyde levels in indoor air. In: L. Weber (ed): Indoor Air Pollution. Siegel Buch GmbH, Ulm, 452-464.
- [2] Salthammer T. und Marutzky R. (1995): Kammerverfahren zur Bestimmung der Emissionen organischer Substanzen aus Materialien. In: E. Bagda (Hrsg.): Emissionen organischer Verbindungen aus Baustoffen und Beschichtungsmaterialien, Expert-Verlag, Renningen. Expert-Verlag, 74-95.
- [3] Salthammer T. (1999): Sick Building Syndrome. In Mersch-Sundermann V. (Hrsg.): Umweltmedizin, Thieme Verlag, Stuttgart, 552-554.
- [4] Salthammer T. (1999): Innenraumluftbelastung. In Mersch-Sundermann V. (Hrsg.): Umweltmedizin, Thieme Verlag, Stuttgart, 373-385.
- [5] Salthammer T (1999): Praktische Durchführung von Raumluftuntersuchungen - Literaturübersicht. In Mersch-Sundermann V. (Hrsg.): Umweltmedizin, Thieme Verlag, Stuttgart, 76-79.
- [6] Salthammer T. (1999): Indoor air pollution by emission of VOC from wood based furniture. In Salthammer T. (ed.): Organic Indoor Air Pollutants. WILEY-VCH, Weinheim, 203-218.
- [7] Salthammer T. (1999): Volatile organic ingredients of household and consumer products. In Salthammer T. (ed.): Organic Indoor Air Pollutants. WILEY-VCH, Weinheim, 219-232.
- [8] Schulz M. and Salthammer T. (1999): Sampling and analysis of aldehydes, phenols and diisocyanates. In

- Salthammer T. (ed.): Organic Indoor Air Pollutants. WILEY-VCH, Weinheim, 15-30.
- [9] Ball M. and Salthammer T. (1999): Sampling and analysis of PCDD/PCDF, PAH and PCB. In Salthammer T. (ed.): Organic Indoor Air Pollutants. WILEY-VCH, Weinheim, 45-56.
- [10] Wensing M. und Salthammer T. (1999): Emissionsprüfkammern und –zellen zur Charakterisierung der Freisetzung flüchtiger organischer Komponenten aus Produkten für den Innenraum. In Moriske H.-J. und Turowski E. (Hrsg.): Handbuch für Bioklima und Lufthygiene. ECOMED Verlag, Landsberg, Kapitel III-6.4.1, 1-18.
- [11] Salthammer T. (2000): Verunreinigung der Innenraumluft durch reaktive Substanzen – Nachweis und Bedeutung von Sekundärprodukten. In Moriske H.-J. und Turowski E. (Hrsg.): Handbuch für Bioklima und Lufthygiene. ECOMED Verlag, Landsberg, Kapitel III-6.4.2, 1-16.
- [12] Wensing M., Schulze D. und Salthammer T. (2002): Analytische Methoden zur Bestimmung von organischen Komponenten in der Raumluft. In Moriske H.-J. und Turowski E. (Hrsg.): Handbuch für Bioklima und Lufthygiene. ECOMED Verlag, Landsberg, Kapitel III-6.2.2, 1-31.
- [13] Moriske H.-J., Klar A., Wensing M. und Salthammer T. (2002): Plötzlich auftretende schwarze Staubablagerungen/Staubimmissionen in Wohnungen – das "Fogging"-Phänomen (Gesamtdarstellung). In Moriske H.-J. und Turowski E. (Hrsg.): Handbuch für Bioklima und Lufthygiene. ECOMED Verlag, Landsberg, Kapitel III-4.4.1, 1-44.
- [14] Seifert B. und Salthammer T. (2003): Innenräume. In Wichmann, Schlipköter und Füllgraff (Hrsg.): Handbuch der Umweltmedizin. ECOMED Verlag, Landsberg, Kapitel IV-1.2, 1-32.
- [15] Morawska L. and Salthammer T. (2003): Fundamentals of indoor particles and settled dust. In Morawska L. and Salthammer T. (eds.): Indoor Environment: Airborne Particles and Settled Dust. WILEY-VCH, Weinheim, 3-46.
- [16] Morawska L. and Salthammer T. (2003): Introduction to sampling and measurement techniques. In Morawska L. and Salthammer T. (eds.): Indoor Environment: Airborne Particles and Settled Dust. WILEY-VCH, Weinheim, 49-55.
- [17] Wensing M., Salthammer T. and Moriske H.-J. (2003): The phenomenon of "Black Magic Dust" in housings. In Morawska L. and Salthammer T. (eds.) Indoor Environment: Airborne Particles and Settled Dust. WILEY-VCH, Weinheim, 340-355.
- [18] Salthammer T. (2004): Emissions of volatile organic compounds from products and materials in indoor environments. In Pluschke P. (ed.): The Handbook of Environmental Chemistry. Volume 4F: Indoor Air Pollution, Springer, Heidelberg, 37-71.
- [19] Wensing M., Uhde E. und Salthammer T. (2004): Kunststoffadditive im Innenraum – Flammschutzmittel und Weichmacher. In Moriske H.-J. und Turowski E. (Hrsg.): Handbuch für Bioklima und Lufthygiene. ECOMED Verlag, Landsberg, III-4.4.15, S. 1-20.
- [20] Salthammer T. (2004): Vorkommen und Bewertung von flüchtigen organischen Verbindungen in Innenräumen – Internationaler Stand der Forschung. In Keller R., Senkpiel K., Samson R.A. und Hoekstra E.S. (eds.): Erfassung biogener und chemischer Schadstoffe des Innenraumes und die Bewertung umweltbezogener Gesundheitsrisiken. Schriftenreihe des Instituts für Medizinische Mikrobiologie und Hygiene der Universität Lübeck, Band 8, Verlag Schmidt-Römhild, Lübeck.
- [21] Schieweck A. und Salthammer T. (2006): Schadstoffe in Museen, Bibliotheken und Archiven, Wilhelm-Klauditz-Institut, Eigenverlag, Braunschweig.
- [22] Salthammer T. (2009): Emission test chambers and cells. In Salthammer T. and Uhde E. (eds.): Organic Indoor Air Pollutants, 2<sup>nd</sup> Edition, WILEY-VCH, Weinheim, 101-115.
- [23] Schieweck A., Salthammer T. and Watts S. (2009): Indoor pollutants in the museum environment. In Salthammer T. and Uhde E. (eds.): Organic Indoor Air Pollutants, 2<sup>nd</sup> Edition, WILEY-VCH, Weinheim, 273-300.
- [24] Schieweck A. and Salthammer T. (2013) Schadstoffe in Museen Bibliotheken und Archiven, 2. Auflage. IRB-Verlag, Stuttgart.
- [25] Salthammer T. (2014): Release of organic compounds and particulate matter from products, materials and electrical devices in the indoor environment. In Pluschke P. and Schleibinger H. (eds.): The Handbook of Environmental Chemistry. Indoor Air Pollution, 2<sup>nd</sup> Edition, Vol. 64, 1-35, Springer Verlag, Berlin, DOI: 10.1007/698\_2014\_258,
- [26] Kasal B., Friebel S., Gunschera J., Salthammer T., Schirp A., Schwab H. and Thole V. (2015) Wood-based materials. Ullmann's Encyclopedia of Industrial Chemistry, 1-56, DOI: 10.1002/14356007.r28\_r01.pub2.

- [27] Salthammer T., Gu, J., Gunschera J. and Schieweck A. (2020) Release of chemical compounds and particulate matter from wood and wood-based materials. In Niemz P. and Teischinger A. (eds.): Springer Handbook of Wood Science and Technology, submitted for publication.

#### PROCEEDINGS (Abstracts, extended Abstracts and full Papers):

- [1] Salthammer T. (1986): Steuerung einer Apparatur zur Messung von Fluoreszenz-Zeit Funktionen. EPIG-Symposium, Tübingen.
- [2] Salthammer T., Dreeskamp H., Birch D.J.S. and Imhof R.E. (1990): Quenching of perylene fluorescence by  $\text{Co}^{2+}$ -ions in solution. IUPAC-Symposium on Photochemistry, Warwick, UK.
- [3] Dreeskamp H., Komfort M., Küster J. and Salthammer T. (1991): Exciplexes of polycyclic aromatic hydrocarbons with  $\text{Ag}^+$ -ions. NATO Summer School on Photochemistry, Grenoble, France.
- [4] Birch D.J.S., Suhling K., Holmes A.S., Salthammer T. and Imhof R.E. (1992): Fluorescence energy transfer to metal ions in lipid bilayers. SPIE Vol. 1640, Time-Resolved Laser Spectroscopy in Biochemistry III, 707-718.
- [5] Salthammer T. (1992): Chemical and Physical Investigations on Wallcoverings. 2nd International Congress on Environmental Information & Communication (ECOINFORMA), Bayreuth.
- [6] Klipp H., Salthammer T., Illner H.M., Peek R.-D. und Marutzky R. (1993): Untersuchungen über Emissionen bei der thermischen Verwertung von holzschutzmittelhaltigen Holzresten. Dreiländer-Holztagung, Deutsche Gesellschaft für Holzforschung (DGfH), München, 143-154.
- [7] Böttcher P. und Salthammer T. (1994): Umweltverträglichkeit als Qualitätskriterium. In: E. Westkämper (Hrsg.): 9. Holztechnisches Kolloquium (HTK), Band 2: Recycling und Ökologische Aspekte. Schriftenreihe des IWF, Vulkan-Verlag, Essen, 14.1.
- [8] Salthammer T., Klipp H. and Peek R.-D. (1995): Emissions from the combustion of boron and fluoride containing wood. Proceedings of the 3rd International Symposium on Wood Preservation, Cannes, 258-263.
- [9] Salthammer T. (1995): Prüfung und Bewertung der Emissionen organischer Verbindungen aus Möbeloberflächen. In Salthammer T., Marutzky R. und Böttcher P. (Hrsg.): Umweltfreundliche und emissionsarme Möbel. Wilhelm-Klauditz-Institut, WKI-Bericht, Eigenverlag, Braunschweig, 121-135.
- [10] Salthammer T., Horn W. und Marutzky R. (1994): Emissionen organischer Verbindungen aus Holz und Holzwerkstoffen - neue Forschungsergebnisse. UTECH, Reinhaltung der Innenraumluft - 30. Seminar, Fortbildungszentrum, Gesundheits- und Umweltschutz (FGU), Berlin, 31-47.
- [11] Salthammer T., Klipp H. and Peek R.-D. (1994): Emissions from the combustion of wood treated with organic and inorganic preservatives. The International Research Group on Wood Preservation, IRG/WP 94-50019, Proceedings of the 25th Annual Meeting, Nusa Dua (Indonesia), 1994.
- [12] Marutzky R. und Salthammer T. (1995): VOC - Emissionen aus Möbellacken - Ursachen und Minderungsverfahren (Emisja lotnych składników organicznych (VOC) z lakierów stosowanych w meblarstwie - przyczyny i sposoby zmniejszania). In Urbanik E. (Hrsg.): Wymagania Unii Europejskiej A Stan Higieniczności Mebli I Materiałów Stosowanych Do Ich Produkcji. Instytut Technologii, Drewna, Poznań, 17-28.
- [13] Salthammer T. und Marutzky R. (1995): Bewertungsverfahren für VOC - Emissionen aus Möbeln aus deutscher und europäischer Sicht (Sposób oceny VOC - emisja z mebli w świetle przepisów niemieckich i europejskich). In Urbanik E. (Hrsg.): Wymagania Unii Europejskiej A Stan Higieniczności Mebli I Materiałów Stosowanych Do Ich Produkcji. Instytut Technologii Drewna, Poznań, 45-49.
- [14] Crump D. and Salthammer T. (1997): Testing and reduction of emissions from wood products 4th EUROWOOD Symposium: Wood - The Ecological Material. Trätec, Rapport P 9709084, Stockholm, 97-101.
- [15] Müller M.G., Salthammer T. and Cammenga H. (1997): Innenraumluftbelastung durch Holzschutzmittel: Dampfdruckmessungen als Beitrag zur verbesserten Abschätzung maximal möglicher Raumluftkonzentrationen. In: Bauchemie von der Forschung bis zur Praxis, GDCH-Fachgruppe Bauchemie, Monographie Bd. 11, Frankfurt, 249-253.
- [16] Marutzky R. and Salthammer T. (1998): VOC-emissions from coating materials - test procedures and evaluation. EUROWOOD Workshop: Coatings/Finishes for Wood Products. INETI - Instituto Nacional de Engenharia e Tecnologia Industrial, Oporto, Portugal.

- [17] Salthammer T. und Wismach C. (1999): VOC-Emissionen aus Beschichtungsmaterialien für den Innenraum während und nach der Verarbeitung. *Bauchemie von der Forschung bis zur Praxis*. GDCh-Fachgruppe Bauchemie, Bd. 15, Frankfurt, 123-127.
- [18] Wensing M. and Salthammer T. (1999): Bauschäden durch plötzliche Staubablagerungen in Wohnräumen. *Bauchemie von der Forschung bis zur Praxis*. GDCh-Fachgruppe Bauchemie, Bd. 15, Frankfurt, 250-254.
- [19] Salthammer T. (1999): Contribution of reactive compounds and secondary emission products to indoor air pollution – a review of case studies. In Commission on Air Pollution Prevention (KRDL) of VDI and DIN: *Recent Developments in Measurement and Assessment of Air Pollution*. VDI-Verlag, Heidelberg, VDI-Report no. 1443, 337-346.
- [20] Salthammer T. (1999): Emissionsarme UV-Systeme für Holzoberflächen. In Salthammer T. (Hrsg.): *Strahlenhärtende Beschichtungssysteme für Holzoberflächen*. Wilhelm-Klauditz-Institut, WKI-Bericht Nr. 34, Eigenverlag, 99-110.
- [21] Salthammer T., Hofmockel U., Lokai M., Prieto J. and Hansemann W. (1999): Application of UV-Curing for Low Emission Furniture Coatings. *Proceedings of RadTech'99*, Berlin, 159-164.
- [22] Salthammer T. (2000) Environmental aspects of parquet coatings for indoor use. *European Coatings Conference*, Berlin, 163-177, Vincentz Verlag, Hannover.
- [23] Salthammer T., Bednarek M. und Brakemeier A. (2001): Lösemittelfreie Naturfarben - Minimierung von VOC-Restemissionen. Bundesministerium für Verbraucherschutz, Ernährung und Landwirtschaft, Schriftenreihe "Nachwachsende Rohstoffe" Band 18, 273-281, Landwirtschaftsverlag GmbH, Münster.
- [24] Salthammer T., Meininghaus R. and Uhde E. (2001): The applicability of the FLEC for industrial products. *Proceedings of the 2<sup>nd</sup> International FLEC Symposium*, Copenhagen, 34-40.
- [25] Salthammer T., Uhde E. und Wensing M. (2002): Bestimmung von SVOC in Prüfkammern – Flammschutzmittel und Weichmacher. *Neuere Entwicklungen bei der Messung und Beurteilung der Luftqualität*. VDI-Berichte Nr. 1656, VDI-Verlag, Düsseldorf, 369-381.
- [26] Salthammer T. (2003): Holzgeruch – gesunde Natur oder ungesunde Chemie? In Salthammer T., Marutzky R. und Scheithauer M.: *Sensorische Prüfung von Produkten für den Innenraum*. Wilhelm-Klauditz-Institut, WKI-Bericht Nr. 38, Eigenverlag, Braunschweig.
- [27] Salthammer T. (2005): Wohngesundheit – Schadstoffe im Innenraum. *Frankfurter Bautage: Schäden bei der energetischen Gebäudemodernisierung*. Fraunhofer IRB Verlag, Stuttgart, 41-50.
- [28] Gunschera J., Markewitz D., Schulz N. and Salthammer T. (2008) Untersuchungen zur Umsetzung von VOC an mit Katalysator ausgerüsteten Baustoffen. *GDCh – gemeinsame Tagung der Fachgruppen Bauchemie und Lackchemie*, Koblenz, im Druck.
- [29] Gunschera J. and Salthammer T. (2010) Einflüsse von Bauprodukten auf die Diffusion von Formaldehyd in die Innenraumluft. *Umwelt, Gebäude & Gesundheit - 9. Fachkongress der Arbeitsgemeinschaft Ökologischer Forschungsinstitute (AGÖF)*, Nürnberg, 33-37.

#### **PEER REVIEWED PROCEEDINGS (Abstracts, extended Abstracts and full Papers):**

- [1] Salthammer T. and Fuhrmann F. (1993): Release of organic and inorganic compounds from wallcoverings. In Saarela K., Kalliokoski P. and Seppänen O. (eds.): *Proceedings of the 6th International Conference on Indoor Air Quality and Climate*, Helsinki, Finland, Vol. 2, 531-536.
- [2] Salthammer T. and Fuhrmann F. (1996): Emission of monoterpenes from wooden furniture. In Yoshizawa S., Kimura K., Ikeda K., Tanabe S. and Iwata T. (eds.): *Proceedings of the 7th International Conference on Indoor Air Quality and Climate*, Nagoya, Japan, Vol. 3, 607-612.
- [3] Salthammer T. (1996): VOC emissions from cabinet furnitures. Comparison of concentrations in the test chamber and the cabinet. In Yoshizawa S., Kimura K., Ikeda K., Tanabe S. and Iwata T. (eds.): *Proceedings of the 7th International Conference on Indoor Air Quality and Climate*, Nagoya, Japan, Vol. 3, 567-572.
- [4] Salthammer T., Fuhrmann F., Meininghaus R., Miertzsch H. and Wismach C. (1996): The German RAL-Wallcovering-Label: experience and progress. In Yoshizawa S., Kimura K., Ikeda K., Tanabe S. and Iwata T. (eds.): *Proceedings of the 7th International Conference on Indoor Air Quality and Climate*, Nagoya, Japan, Vol. 3, 543-548.

- 
- [5] Bednarek M., Fuhrmann F., Meyer B., Rohde D., Salthammer T., Schulz M. and Uhde E. (1997): Human exposure to air pollutants during a dinner. In Woods J.E., Grimsrud D.T. and Boschi N. (eds.): *Healthy Buildings/IAQ '97*, Washington D.C., Vol. 3, 209-214.
- [6] Uhde E., Borgschulte A. and Salthammer T. (1997): Characterization of FLEC: Impact of air velocities on VOC emission rates. In Woods J.E., Grimsrud D.T. and Boschi N. (eds.): *Healthy Buildings/IAQ '97*, Washington D.C., Vol. 3, 503-508.
- [7] Salthammer T., Bednarek M. and Fuhrmann F. (1999): Effect of climatic parameters on the release of VOC from UV-cured furniture coatings. In Raw G., Aizlewood C. and Warren P. (eds.): *Proceedings of the 8th International Conference on Indoor Air Quality and Climate*, Edinburgh, UK, Vol. 5, 99-104.
- [8] Uhde E., Fuhrmann F., Klare S. and Salthammer T. (1999): Identification of glycol derivatives by use of GC/MS. In Raw G., Aizlewood C. and Warren P. (eds.): *Proceedings of the 8th International Conference on Indoor Air Quality and Climate*, Edinburgh, UK, Vol. 4, 392-393.
- [9] Salthammer T., Wismach C. and Klare S. (1999): Human exposure to VOC during and after renovation work. In Raw G., Aizlewood C. and Warren P. (eds.): *Proceedings of the 8th International Conference on Indoor Air Quality and Climate*, Edinburgh, UK, Vol. 4, 999-1000.
- [10] Uhde E. and Salthammer T. (1999): Evaluation of emission test chambers by use of dynamic recovery rate determinations. In Raw G., Aizlewood C. and Warren P. (eds.): *Proceedings of the 8th International Conference on Indoor Air Quality and Climate*, Edinburgh, UK, Vol. 5, 105-110.
- [11] Wensing M. and Salthammer T. (1999): The phenomenon of black magic dust in housings. In Raw G., Aizlewood C. and Warren P. (eds.): *Proceedings of the 8th International Conference on Indoor Air Quality and Climate*, Edinburgh, UK, Vol. 2, 824-829.
- [12] Pardemann J., Salthammer T., Uhde E. and Wensing M. (2000): Flame retardants in the indoor environment. Part I: specification of the problem and results of screening tests. *Proceedings of Healthy Buildings 2000*, Helsinki, Finland, Vol. 4, 125-130.
- [13] Massold E., Riemann A., Salthammer T., Schwampe W., Uhde E., Wensing M. and Kephelopoulos S. (2000): Comparison of TVOC by GC/MS with direct reading instruments. *Proceedings of Healthy Buildings 2000*, Helsinki, Finland, Vol. 4, 67-72.
- [14] Massold E., Riemann A., Salthammer T., Schwampe W., Uhde E., Wensing M. and Kephelopoulos S. (2000): Determination of response factors for GC/MS of 64 volatile organic compounds for measuring TVOC. *Proceedings of Healthy Buildings 2000*, Helsinki, Finland, Vol. 4, 91-96.
- [15] Uhde E. and Salthammer T. (2000): Suitability of direct reading instruments for the measurement of VOC concentrations in emission test chambers. *Proceedings of Healthy Buildings 2000*, Helsinki, Finland, Vol. 4, 107-112.
- [16] Salthammer T. and Wensing M. (2002): Flame retardants in the indoor environment. Part IV: Classification of experimental data from indoor air, chamber tests and house dust. *Proceedings of the 9th International Conference on Indoor Air Quality and Climate*, Monterey, USA, Vol. 2, 213-218.
- [17] Wirts M. and Salthammer T. (2002): Emission of isocyanates from PUR adhesives. Time course of emission from curing PUR adhesive. *Proceedings of the 9th International Conference on Indoor Air Quality and Climate*, Monterey, USA, Vol. 3, 202-207.
- [18] Salthammer T. and Kühn V. (2002): Evaluation of indoor products by sensory and chemical testing. Part I: Application of olfactometry in test chambers. *Proceedings of the 9th International Conference on Indoor Air Quality and Climate*, Monterey, USA, Vol. 2, 255-260.
- [19] Massold E., Kühn V. and Salthammer T. (2002): Evaluation of indoor products by sensory and chemical testing. Part II: Comparison of olfactometric and VOC analysis. *Proceedings of the 9th International Conference on Indoor Air Quality and Climate*, Monterey, USA, Vol. 2, 261-266.
- [20] Salthammer T., Boehme C., Meyer B. and Siwinski N. (2003): Release of primary compounds and reaction products from oriented strand board (OSB). In Tham K.W., Sekhar C. and Cheong D.: *Proceedings of Healthy Buildings 2003*, Singapore, Vol.1, 160-165.
- [21] Salthammer T., Uhde E., Müller M.G. and Cammenga H.K (2003): Measurement of the saturation vapor pressure for estimating biocide concentrations in indoor air. In Tham K.W., Sekhar C. and Cheong D.: *Proceedings of Healthy Buildings 2003*, Singapore, Vol.1, 136-141.

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- [22] Salthammer T., Delius W., Fuhrmann F., Lohrengel B., Schieweck A. and Siwinski N. (2005): Organic indoor air pollutants in the Lower Saxony State Museum, Hanover, Germany. Proceedings of the 10th International Conference on Indoor Air Quality and Climate, Beijing, China, 782-786.
- [23] Gunschera J., Schulze A., Fuhrmann F., Uhde M., Uhde E. and Salthammer T. (2005): Chloroanisols as indoor pollutants originating from PCP metabolism. Proceedings of the 10th International Conference on Indoor Air Quality and Climate, Beijing, China, 2154-2158.
- [24] Wolkoff P., Salthammer T. and Woolfenden E.A. (2005) Comparing emission cells to small chambers for materials emissions testing. Proceedings of the 10th International Conference on Indoor Air Quality and Climate, Beijing, China, 1947-1951.
- [25] Wensing M., Schulz N., Schwarz A., Fuhrmann F., Uhde E. and Salthammer T. (2005) Practical Experience with a New Scheme for Health-related Evaluation of Volatile Organic Compounds Emissions (VOC and SVOC) from Building Products. Proceedings of the 10th International Conference on Indoor Air Quality and Climate, Beijing, China, 2112-2117.
- [26] Salthammer T., Siwinski N., Vogtenrath W. and Schieweck A. (2006): Occurrence of formaldehyde and organic acids in the museum environment. Proceedings of Healthy Buildings 2006, Lisboa, Portugal, Vol. 2, 283-286.
- [27] Salthammer T., Fuhrmann F., Schulz N. and Siwinski N. (2006) Removal of indoor contaminants by photocatalytic reaction. Proceedings of Healthy Buildings 06, Lisboa, Portugal, Vol. 2, 249-254.
- [28] Hasegawa A., Ikeda M., Sasaki K., Salthammer T. and Gunschera J. (2006): The effect of drying temperature on chemical substance emission rates from solid wood. Proceedings of Healthy Buildings 2006, Lisboa, Portugal, Vol. 4, 143-146.
- [29] Schripp T., Uhde E., Wensing M. and Salthammer T. (2006): Comparison of quick analytical methods to determine the emission of plastic samples to emission-test-chamber measurements. Proceedings of Healthy Buildings 2006, Lisboa, Portugal, Vol. 4, 23-28.
- [30] Wensing M., Pinz G., Bednarek M., Uhde E. and T. Salthammer (2006): Particle Measurement of Hardcopy Devices. Proceedings of Healthy Buildings 2006, Lisboa, Portugal, Vol. 2, 461-464.
- [31] Schieweck A., Markewitz D. and Salthammer T. (2007) Screening emission analysis of construction materials and evaluation of airborne pollutants in newly constructed display cases. Proceedings of Museum Microclimates, National Museum of Denmark, Copenhagen, 67-72.
- [32] Schripp T., Fauck C., Meinschmidt P., Wensing M., Moriske H.-J. and Salthammer T. (2008) Relationship between indoor air particle pollution and the phenomenon of „Black Magic Dust“ in housings. Proceedings of the 11th International Conference on Indoor Air Quality and Climate, Copenhagen, Paper ID 122.
- [33] Schripp T., Mulakampilly S.J., Delius W., Wensing M., Salthammer T., Kreuzig R. and Bahadir M. (2008) Comparison of ultra-fine particle release from active hardcopy devices in an emission test chamber and an office room. Proceedings of the 11th International Conference on Indoor Air Quality and Climate, Copenhagen, Paper ID 57.
- [34] Schripp T., Salthammer T., Clausen P.A. and Little J.C. (2008). Gas-particle partitioning of plasticizers in a tube-like flow chamber with minimized sink effect. Proceedings of the 11th International Conference on Indoor Air Quality and Climate, Copenhagen, Paper ID 76.
- [35] Schieweck A., Uhde E. and Salthammer T. (2008) Influence of artificial lighting on emissions of volatile organic compounds (VOC) in enclosed spaces. Proceedings of the 11th International Conference on Indoor Air Quality and Climate, Copenhagen, Paper ID 235.
- [36] Schieweck A. and Salthammer T. (2008) Primary and secondary emissions in museum showcases – Impact on exhibits. Proceedings of the 11th International Conference on Indoor Air Quality and Climate, Copenhagen, Paper ID 236.
- [37] Gunschera J., Fuhrmann F., Markewitz D. and Salthammer T. (2008) Assessment of the catalytic decomposition of volatile organic compounds for IAQ improvement. Proceedings of the 11th International Conference on Indoor Air Quality and Climate, Copenhagen, Paper ID 121.
- [38] Mentese S., Fuhrmann F. and Salthammer T. (2008) The Effect of building products on indoor air quality in a test house. Proceedings of the 11th International Conference on Indoor Air Quality and Climate, Copenhagen, Paper ID 66.

- [39] Wensing M., Schripp T., Delius W., Uhde E. and Salthammer T. (2008) Ultra-fine particle release from hardcopy devices: Influence of different parameters, sources, characterization and efficiency of filter accessories. Proceedings of the 11th International Conference on Indoor Air Quality and Climate, Copenhagen, Paper ID 179.
- [40] Morawska L., He C., Wang H., McGarry P., Salthammer T., Jayaratne R., Johnson G., Bostrom T., Modini R., Uhde E., Ayoko G., Wensing M. (2008) Particle Emission from laser printers: What are the particles and what makes a printer a high emitter? Proceedings of the 11th International Conference on Indoor Air Quality and Climate, Copenhagen, Paper ID 1024.
- [41] Schripp T., Fauck C. and Salthammer T. (2009) Application of the PTR-MS for the emission test of building products. In Hansel A. and Dunkl J. (eds.): 4<sup>th</sup> International Conference on Proton Transfer Reaction Spectrometry and its Applications, Innsbruck, 284-288.
- [42] Schossler P., Bahadir M. and Salthammer T. (2009) Emission of volatile and semi volatile organic compounds (VOCs/SVOCs) from plastics and foams used as artistic materials. Proceedings of Healthy Buildings 2009, Syracuse, Paper ID 108.
- [43] Schossler P., Bahadir M. and Salthammer T. (2009) Emission of volatile and semi volatile organic compounds (VOCs/SVOCs) from commercial artistic paints. Proceedings of Healthy Buildings 2009, Syracuse, Paper ID 107.
- [44] Wensing M., Delius W., Uhde E., Salthammer T., He C., Wang H., Morawska L. (2009) Ultra-fine particles (UFP) emitted from laser printers – chemical and physical characterization. Proceedings of Healthy Buildings 2009, Syracuse, Paper ID 171.
- [45] Wensing M., Delius W., Uhde E., Salthammer T., He C., Wang H., Morawska L. (2009) Ultra-fine particles (UFP) emitted from laser printers – influence of the fuser unit temperature on the general emission behavior. Proceedings of Healthy Buildings 2009, Syracuse, Paper ID 172.
- [46] Wang H., Morawska L., He C., Johnson G., Jayaratne R., Salthammer T., Uhde E., Bostrom T., Modini R., Ayoko G., McGarry P. and Wensing M. (2009) How to identify a high emitting printer? Proceedings of Healthy Buildings 2009, Syracuse, Paper ID 576.
- [47] Morawska L., He C., Johnson G., Jayaratne R., Salthammer T., Wang H., Uhde E., Bostrom T., Modini R., Ayoko G., McGarry P. and Wensing M. (2009) Printers and copiers: how to use science of emissions to minimize human exposures? Proceedings of Healthy Buildings 2009, Syracuse, Paper ID 578.
- [48] Schripp T. and Salthammer (2010) Beyond phthalates – analytical and modelling tasks of modern plasticisers. 1<sup>st</sup> International Workshop on SVOC in the Indoor Environment. June 1 and 2, Beijing.
- [49] Merzsch S., Wasisto H.S., Sökmen Ü., Waag A., Uhde E., Salthammer T., and Peiner E. (2010) Mass measurement of nanoscale aerosol particles using a piezoelectrically actuated resonant sensor. IEEE Sensors 2010 Conference, Waikoloa.
- [50] Salthammer T., Schripp T., Fauck C. and Fuhrmann F. (2011) Application of the PTR-MS for indoor related test chamber Studies. 5<sup>th</sup> International Conference on Proton Transfer Reaction Mass Spectrometry and its Applications. University of Innsbruck, Innsbruck University Press, 57-60.
- [51] Salthammer T. (2011) Use and misuse of indoor air guideline and reference values. Proceedings of the 12th International Conference on Indoor Air Quality and Climate, Austin, Texas, Paper ID a210\_3.
- [52] Salthammer T., Markewitz, D. and Gunschera J. (2011) Application of zeolites for the removal of indoor air pollutants. Proceedings of the 12th International Conference on Indoor Air Quality and Climate, Austin, Texas, Paper ID a437\_1.
- [53] Schripp T., Kirsch I. and Salthammer T. (2011) Properties of ultra-fine particles emitted from heated surfaces of household appliances. Proceedings of the 12th International Conference on Indoor Air Quality and Climate, Austin, Texas, Paper ID a775\_2.
- [54] Schripp T., Willenborg S. and Salthammer T. (2011) Developing an analytical model for the settling of lognormal size distributed particles. Proceedings of the 12th International Conference on Indoor Air Quality and Climate, Austin, Texas, Paper ID a982\_2.
- [55] Salthammer T., Uhde E., Omelan A., Lüdecke A. and Moriske H.-J. (2012) Release of elemental mercury from broken compact fluorescent lamps (CFLs). Proceedings of Healthy Buildings 2012, Brisbane, Paper ID 2B.4.
- [56] Mentese S., Gunschera J. and Salthammer T. (2012) Effect of Humidity Changes on Formaldehyde Levels in a Test House. Proceedings of Healthy Buildings 2012, Brisbane, Paper ID 8B.13.

- 
- [57] Mentese S., Gunschera J. and Salthammer T. (2012) Comparison of VOCs levels measured with different sorbents and ozone scrubber with and without ozone. Proceedings of Healthy Buildings 2012, Brisbane, Paper ID 9B.6.
- [58] Schripp T., Fauck C., Schulz N., Uhde E. and Salthammer T. (2013) Use of PTR-MS online monitoring for validation of emission test chamber experiments: reference source and odor assessment. 6<sup>th</sup> International Conference on Proton Transfer Reaction Mass Spectrometry and its Applications. University of Innsbruck, Innsbruck University Press, 220-223.
- [59] Merzsch S., Salthammer T., Wasisto H.S., Kirsch I., Uhde E., Waag A. and Peiner E. (2013) A personal sampler for direct mass determination of nano-particles using a resonant cantilever sensor. Technical Proceedings of the 2013 Nanotechnology Conference and Trade Show (Nanotech 2013), Vol. 2, 123-126.
- [60] Salthammer T. (2013) Formaldehyde in the ambient atmosphere - from an indoor pollutant to an outdoor pollutant? Environment and Health - Bridging South, North, East and West, Conference of ISEE; ISES and ISIAQ, Basel, Switzerland, Paper ID 3365. Abstract: Environmental Health Perspectives.
- [61] Schripp T., Wensing M., Wientzek S. and Salthammer T. (2013) Emissions from wood burning stoves and ethanol fireplaces into the indoor environment. Environment and Health - Bridging South, North, East and West, Conference of ISEE; ISES and ISIAQ, Basel, Switzerland, Paper ID 3737. Abstract: Environmental Health Perspectives.
- [62] Salthammer T. and Schripp T. (2014) Estimating the distribution of organic pollutants in the indoor environment from molecular properties. Proceedings of the 13th International Conference on Indoor Air and Climate, Hong Kong, Paper ID HP0185.
- [63] Schripp T., Giesen R., Scholtyssek J., Meyer B., Schwab H. and Salthammer T. (2014) Developing a reference source for formaldehyde emission testing of wooden building products. Proceedings of the 13th International Conference on Indoor Air and Climate, Hong Kong, Paper ID HP0123.
- [64] Salthammer T., Schulz N., Stolte R. and Uhde E. (2015) Statistical evaluation of human sensory response to acetone. Proceedings of Healthy Buildings America, Boulder, CO, 83-85.
- [65] Bekö G., Morrison G., Weschler C., Koch H., Salthammer, Schripp T., Toftum J. and Clausen G. (2016) Measurements of dermal uptake of nicotine directly from air and clothing. Proceedings of the 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, Paper ID 241.
- [66] Salthammer T., Uhde E., Schulz N. and Stolte R. (2016) Sensory evaluation of building products: influences of direct and indirect assessment. Proceedings of the 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, Paper ID 412.
- [67] Schripp T., Giesen R., Meyer B., Uhde E. and Salthammer T. (2016) Quantifying formaldehyde emissions from indoor products: Impact and consequences of the MBTH derivatization method. Proceedings of the 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, Paper ID 429.
- [68] Salthammer T., Uhde E., Schulz N. and Stolte R. (2016) Sensory evaluation of building products: a critical discussion of the overall method. Proceedings of the 14<sup>th</sup> International Conference on Indoor Air Quality and Climate, Ghent, Belgium, Paper ID 478.
- [69] Freitag J., Schieweck A., Gunschera J. and Salthammer T. (2016) A sampling method for very volatile organic compounds (VVOCs) using carbonaceous multi-bed sorbents. Proceedings of the 14th International Conference on Indoor Air Quality and Climate, Ghent, Belgium, Paper ID 485.
- [70] Freitag J., Schieweck A., Gunschera J. and Salthammer T. (2016) Applicability of carbonaceous sorbents for the determination of very volatile organic compounds (VVOCs) in indoor air. Proceedings of the 14th International Conference on Indoor Air Quality and Climate, Ghent, Belgium, Paper ID 487.
- [71] Giesen R., Schripp T. and Salthammer T. (2016) Characterizing a formaldehyde reference source for validation of emission test chambers. Proceedings of the 14th International Conference on Indoor Air Quality and Climate, Ghent, Belgium, Paper ID 552.
- [72] Morrison G., Bekö G., Weschler C.J., Schripp T., Salthammer T., Toftum J., Clausen G. and Frederiksen H. (2017) Dermal uptake of benzophenone-3 from clothing. Proceedings of Healthy Buildings Europe, Lublin, Poland, Paper ID 0229.
- [73] Huang S., Gao D., Zhang Y., Wei W., Weschler L.B., Salthammer T. and Kan H. (2017) The impact of national standards for building energy efficiency on indoor formaldehyde concentrations. Proceedings of Healthy Buildings Europe, Lublin, Poland, Paper ID 0144.



- 
- [74] Salthammer T. (2017) Formaldehyde sources in the indoor and outdoor environment. Proceedings of Healthy Buildings Europe, Lublin, Poland, Paper ID 0045.
- [75] Salthammer T., Gunschera J. and Markewitz D. (2017) By-products from portable photocatalytic air cleaners. Proceedings of Healthy Buildings Europe, Lublin, Poland, Paper ID 0046.
- [76] Gu J., Kirsch I., Schripp T., Froning F., D. Berthold D. and Salthammer T. (2017) Characterization of fine and ultrafine particles emitted from hardwood processing. European Aerosol Conference, Zürich, Switzerland, Paper ID T410N249
- [77] Salthammer T., Schieweck A., Uhde E., Salthammer L.C., Kumar P., and Morawska L. (2017) Indoor air quality in smart homes. Proceedings of Healthy Buildings Asia, Tainan, Taiwan, 103-106.
- [78] Salthammer T., Schieweck A., Gunschera J., Varol D. and Uhde E. (2017) Determination of VVOCs in indoor air. Proceedings of Healthy Buildings Asia, Tainan, Taiwan, 478-480.
- [79] Salthammer T., Bekö G., Clausen G., Koch H.M., Morrison G.C., Schripp T., Toftum J. and Weschler C.J. (2017) Assessing dermal exposure to nicotine – an interdisciplinary approach. International Society of Exposure Science, 27<sup>th</sup> Annual Meeting, Durham, NC, United States, Paper ID TH-PL-D2-649.
- [80] Morrison G., Bekö G., Clausen G., Koch H.M., Pälme C., Salthammer T., Schripp T., Toftum J. and Weschler C.J. (2017) Kinetics of dermal uptake of nicotine from air. International Society of Exposure Science, 27<sup>th</sup> Annual Meeting, Durham, NC, United States, Paper ID TH-PL-D2-650.
- [81] Gu J., Salthammer T. and Uhde E. (2018) Characterization of particles and volatile organic compounds emitted from the operation of a 3D-printer. Proceedings of the 15th International Conference on Indoor Air Quality and Climate, Philadelphia, PA, Paper ID 372.
- [82] Salthammer T., Schieweck A., Gu J., Ameri S. and Uhde E. (2018) Impact of outdoor climate and ambient air pollution on indoor air quality. Proceedings of the 15th International Conference on Indoor Air Quality and Climate, Philadelphia, PA, Paper ID 234.
- [83] Salthammer T. (2018) Formaldehyde concentrations and air exchange rates in European housings. Proceedings of the 15th International Conference on Indoor Air Quality and Climate, Philadelphia, PA, Paper ID 233.
- [84] Schieweck A. and Salthammer T. (2018) Reaction products formed on solid sorbents during analyses of very volatile organic compounds (VVOCs). Proceedings of the 15th International Conference on Indoor Air Quality and Climate, Philadelphia, PA, Paper ID 326.
- [85] Salthammer T., Zhang Y., Mo J., Koch H.M. and Weschler C.J. (2018) Multidisciplinary approaches for the assessment of human exposure to organic pollutants in the indoor environment. ISES-ISEE Joint Annual Meeting, Ottawa, Canada, Paper ID 2992075.
- [86] Uhde E., Varol D., Mull B. and Salthammer T. (2019) Quantitative distribution of SVOC substances in a room during and after cleaning measures. ISES-ISIAQ Joint Meeting, Kaunas, Lithuania, Paper ID MO-PL-E2-44.
- [87] Salonen H., Salthammer T. and Morawska L. (2019) Factors affecting the indoor concentration of ozone and ozone reaction products in school buildings and means to reduce exposure. ISES-ISIAQ Joint Meeting, Kaunas, Lithuania, Paper ID MO-PO-09.
- [88] Salthammer T. (2019) A critical comparison of Junge/Pankow and Goss/Schwarzenbach theory. ISES-ISIAQ Joint Meeting, Kaunas, Lithuania, Paper ID TU-SY-C1-13.
- [89] Schieweck A., Uhde E., Salthammer T., Salthammer L., Morawska, L., Mazaheri M. and Kumar P. (2019) Smart homes and the control of indoor air quality. ISES-ISIAQ Joint Meeting, Kaunas, Lithuania, Paper ID TU-PL-E1-24.
- [90] Salthammer T., Salonen H. and Morawska L. (2019) Factors affecting the indoor concentration of nitrogen dioxide in school and office environments. ISES-ISIAQ Joint Meeting, Kaunas, Lithuania, Paper ID TU-PO-23.
- [91] Salthammer T., Omelan A. and Goss K.-U. (2019) The hexadecane/air distribution coefficient - a key parameter for predicting the gas/particle distribution of SVOCs. ISES-ISIAQ Joint Meeting, Kaunas, Lithuania, Paper ID WE-PL-D1-18.
- [92] Gu J., Wensing M., Uhde E. Xia F. and Salthammer T. (2019) Characterization and control of emissions from desktop 3D printing. European Aerosol Conference, Gothenburg, Sweden, Paper ID O6\_A7\_H08.

**PEER REVIEWED ARTICLES:**

- [1] Löhmannsröben H.-G. and Salthammer T. (1989): Triplet energy transfer sensitized fluorescence in 3,9-dibromoperylene. *J. Photochem. Photobiol., A:Chemistry*, 49, 97-107.
- [2] Dreeskamp H., Salthammer T. and Läuffer A.G.E. (1989): Time-correlated single photon counting with alternate recording of excitation and emission. *J. Luminescence.*, 44, 161-165.
- [3] Komfort M., Löhmannsröben H.-G. and Salthammer T. (1990): The temperature dependence of photophysical processes in perylene, tetracene and some of their derivatives. *J. Photochem. Photobiol., A:Chemistry*, 51, 215-227.
- [4] Salthammer T., Dreeskamp H., Birch D.J.S. and Imhof R.E. (1990): Fluorescence quenching of perylene by  $\text{Co}^{2+}$ -ions via energy transfer in viscous and non viscous media. *J. Photochem. Photobiol., A:Chemistry*, 55, 53-62.
- [5] Holmes A.S, Birch D.J.S., Suhling K., Imhof R.E. and Salthammer T. (1991): Evidence for donor-donor energy transfer in lipid bilayers: perylene fluorescence quenching by  $\text{Co}^{2+}$ -ions. *Chem. Phys. Lett.*, 186, 189-194.
- [6] Salthammer T. (1992): Quantitative Bestimmung von Formaldehyd in der Innenraumluft. *Praxis der Naturwissenschaften*, 41, 24-26.
- [7] Salthammer T. (1992): Statistische Auswertung von Staubemissionsmessungen an Holzspänetrocknern. *Holz als Roh- und Werkstoff*, 50, 220.
- [8] Salthammer T. (1992): Analytik von polyzyklischen aromatischen Kohlenwasserstoffen (PAK) in imprägnierten Hölzern durch synchrone Fluoreszenzspektroskopie. *Holz als Roh- und Werkstoff*, 50, 328.
- [9] Salthammer T. (1992): Numerical simulation of pile-up distorted time-correlated single photon counting (TCSPC) Data. *J. Fluorescence*, 2, 23-27.
- [10] Birch D.J.S., Suhling K., Holmes A.S., Salthammer T. and Imhof R.E. (1993): Metal ion quenching of perylene fluorescence in lipid bilayers. *Pure & Appl. Chem.*, 65, 1687-1692.
- [11] Horn W., Brakemeier A., Salthammer T. and Marutzky R. (1993): Thermal and photochemical degradation of wood preservatives. *Fresenius Environ. Bull.*, 2, 576-581.
- [12] Salthammer T. (1993): Photophysical properties of 3,5-diacetyl-1,4-dihydrolutidine in solution: application to the analysis of formaldehyde. *J. Photochem. Photobiol., A: Chemistry*, 74, 195-201.
- [13] Salthammer T., Schriever E. and Marutzky R. (1993): Emissions from wallcoverings: test procedures and preliminary results. *Toxicological & Environmental Chemistry*, 40, 121-131.
- [14] Holmes A.S., Birch D.J.S. and Salthammer T. (1993): Quenching of perylene fluorescence by  $\text{Co}^{2+}$ -ions in DPPC-vesicles. *J. Fluorescence*, 3, 77-84.
- [15] Salthammer T., Klipp H., Illner H.M., Peek R.-D. und Marutzky R. (1994): Untersuchungen über Emissionen bei der thermischen Verwertung von holzschutzmittelhaltigen Holzresten. I: Öl/Lösemittel, Steinkohlenteeröle, CKB, Cu-HDO. *Holz Roh- Werkstoff*, 52, 247-252.
- [16] Salthammer T. (1994): Luftverunreinigende organische Substanzen in Innenräumen. *Chemie in unserer Zeit*, 28, 280-290.
- [17] Salthammer T., Klipp H., Illner H.M., Peek R.-D. und Marutzky R. (1995): Untersuchungen über Emissionen bei der thermischen Verwertung von holzschutzmittelhaltigen Holzresten. II: Bor- und fluorhaltige Schutzmittel. *Holz als Roh- und Werkstoff*, 53, 25-28.
- [18] Salthammer T., Klipp H., Peek R.-D. and Marutzky R. (1995): Formation of polychlorinated dibenzo-p-dioxins (PCDD) and polychlorinated dibenzofurans (PCDF) during the combustion of impregnated wood. *Chemosphere*, 30, 2051-2060.
- [19] Salthammer T., Fuhrmann F., Meyer B., Kaufhold S. and Schwarz A. (1995): Effects of climatic parameters on formaldehyde concentrations in indoor air. *INDOOR AIR*, 5, 120-128.
- [20] Salthammer T., Meininghaus R., Jacoby A. and Bahadir M. (1995): Distribution of air velocities in small test chambers. *Fresenius Environ. Bull.* 4, 695-700.
- [21] Salthammer T. (1996): Calculation of kinetic parameters from chamber tests using nonlinear regression. *Atmospheric*

Environment, 30, 161-171.

- [22] Uhde E., Salthammer T., Marutzky R. and Bahadir M. (1996): Heavy metal content of wooden furniture coating. *Toxicological & Environmental Chemistry*, 53, 25-31.
- [23] Meininghaus R., Salthammer T. and Bahadir M. (1996): A new method for the simultaneous determination of heavy metals in wallcoverings. *Fres. J. Anal. Chem.*, 354, 27-31.
- [24] Salthammer T. (1996): Emission of photoinitiator fragments from UV-cured furniture coatings. *J. Coatings Technol.*, 68, 41-47.
- [25] Meininghaus R., Fuhrmann F. and Salthammer T. (1996): Determination of TVOC in wallcoverings by headspace gas chromatography. *Fres. J. Anal. Chem.*, 356, 344-347.
- [26] Salthammer T. (1997): Emission of volatile organic compounds from furniture coatings. *Indoor Air*, 7, 189-197.
- [27] Salthammer T., Miertzsch H. and Wismach C. (1997): Absorption and fluorescence of 1-(2-pyridyl)-piperazine and four diisocyanate-derivatives in solution. *J. Photochem. Photobiol., A: Chemistry*, 107, 159-164.
- [28] Salthammer T. (1997): Holzlacke für Innenräume. *Farbe & Lack*, 103, 142-150.
- [29] Uhde E., Borgschulte A. and Salthammer T. (1998): Characterization of the Field and Laboratory Emission Cell - FLEC: Flow field and air velocities. *Atmospheric Environment*, 32, 773-781.
- [30] Schulz M. and Salthammer T. (1998): Determination of diisocyanate-emissions from building products: 4,4'-dimethylene-diisocyanate (MDI). *Fres. J. Anal. Chem.*, 362, 289-293.
- [31] Salthammer T., Schwarz A. and Fuhrmann F. (1999): Emission of reactive compounds and secondary products from wood-based furniture coatings. *Atmospheric Environment*, 33, 75-84.
- [32] Wensing M., Moriske H.-J. and Salthammer T. (1998): Das Phänomen der „Schwarzen Wohnungen“. *Gefahrstoffe – Reinhaltung der Luft*, 58, 463-468.
- [33] Meininghaus R., Salthammer T. and Knöppel H. (1999): Small scale investigations on interactions of volatile organic compounds with indoor materials – screening experiments. *Atmospheric Environment*, 33, 2395-2401.
- [34] Salthammer T., Hofmockel U., Lokai M., Prieto J. and Hansemann W. (1999): UV-curable furniture coatings with low emissions. *RadCure Letters*, no. 6/99, 92-95.
- [35] Buhr A., Genning C. and Salthammer T. (2000): Trace analysis of pentachlorophenol (PCP) in wood and wood based products - comparison of sample preparation procedures. *Fres. J. Anal. Chem.*, 367, 73-78.
- [36] Salthammer T. and Fuhrmann F. (2000): Release of acetic acid and furfural from cork products. *Indoor Air*, 10, 133-134.
- [37] Moriske H.-J., Rudolphi A., Salthammer T. und Wensing M. (2000): Zum Phänomen der Schwarzen Wohnungen – aktueller Sachstandsbericht. *Gesundheitsingenieur*, 121, 305-311.
- [38] Salthammer T. (2001): Umweltfreundliche UV-härtende Beschichtungen für Möbeloberflächen. *Farbe & Lack*, 107, 103-111.
- [39] Uhde E., Bednarek M. Fuhrmann F. and Salthammer T. (2001): Phthalic esters in the indoor environment - test chamber studies on PVC-coated wallcoverings. *INDOOR AIR*, 11, 150-155.
- [40] Salthammer T. (2001): Beurteilung der Belastung von Aufenthaltsräumen mit Pentachlorphenol anhand der PCP-Richtlinie. *Umweltmedizin in Forschung & Praxis*, 6, 79-85.
- [41] Moriske H.-J., Salthammer T., Wensing M., Klar A., Meinschmidt P., Pardemann J. und Schwampe W. (2001): Neue Untersuchungsergebnisse zum Phänomen "Schwarze Wohnungen". *Gefahrstoffe – Reinhaltung der Luft*, 61, 387-394.
- [42] Pohlandt-Schwandt K., Salthammer T. and Marutzky R. (2002): Reduction of soluble chromate in wood ash by formaldehyde. *Biomass & Bioenergy*, 22, 139-143.
- [43] Wirts M. and Salthammer T. (2002): Emission of isocyanates from PUR-adhesives - Influence of temperature, monomer content and curing mechanism. *Environmental Science & Technology*, 36, 1821-1826.

- [44] Salthammer T., Bednarek M., Fuhrmann F., Funaki R. and Tanabe S. (2002): Formation of organic indoor air pollutants by UV-curing chemistry, *J. Photochem. Photobiol. A: Chemistry*, 152, 1-9.
- [45] Salthammer T., Fuhrmann F. and Uhde E. (2003): Flame retardants in the indoor environment. Part II: Release of VOCs (triethylphosphate and chlorinated degradation products) from polyurethane. *Indoor Air*, 13, 49-52.
- [46] Schulze A., Salthammer T. und Marutzky R. (2003): Vorkommen polychlorierter Biphenyle (PCB) in Altholz. *Holz als Roh- und Werkstoff*, 61, 23-28.
- [47] Müller M., Salthammer T., Uhde E. and Cammenga H. (2003): Biocides in the indoor environment – correlation of vapor pressure measurement and climate chamber studies for estimation of concentrations in indoor air. *Fresenius Environ. Bull.*, 12, 497-502.
- [48] Wirts M., Grunwald D., Schulze D., Uhde E. and Salthammer T. (2003): Time course of isocyanate emission from curing PUR-adhesives. *Atmospheric Environment*, 37, 5467-5475.
- [49] Salthammer T., Kühn V., Massold E. und Schulz N. (2004): Beurteilung von Bauprodukten durch chemische und sensorische Prüfungen. *Gefahrstoffe – Reinhaltung der Luft*, 64, 111-117.
- [50] Gunschera J., Fuhrmann F., Salthammer T., A. Schulze and Uhde E. (2004): Formation and emission of chloroanisols as indoor pollutants. *Environmental Science and Pollution Research*, 11, 147-151.
- [51] Wensing M., Uhde E. and Salthammer T. (2005): Plastics additives in the indoor environment: flame retardants and plasticizers. *The Science of the Total Environment*, 339, 19-40.
- [52] Hepfner E., Stahl T., Salthammer T. und Mersch-Sundermann V. (2005): Genetische Toxizität innenraumrelevanter C<sub>4</sub>-C<sub>9</sub>-Aldehyde: aktueller Erkenntnisstand. *Umweltmedizin in Forschung & Praxis*, 10, 7-19.
- [53] Wolkoff P., Salthammer T. and Woolfenden E.A. (2005): Emission cells and comparison to small chambers for materials emissions testing. *Gefahrstoffe – Reinhaltung der Luft*, 65, 93-98.
- [54] Massold E., Bähr C., Salthammer T. and Brown S.K. (2005): Determination of VOC/TVOC using thermal desorption GC/MS - practical implications for test chamber experiments. *Chromatographia*, 62, 75-85.
- [55] Schwiebeck A., Genning C., Lohrengel B., Siwinski N. and Salthammer T. (2005) Organic and inorganic pollutants in storage rooms of the Lower Saxony State Museum, Hanover, Germany. *Atmospheric Environment*, 39, 6098-6108.
- [56] Wensing M., Schulz N. and Salthammer T. (2006): Kontrollierte Innenraumlufte - Mögliche Auswirkungen des AgBB-Schemas auf Emissionen aus Lacken. *Farbe & Lack*, 112, 61-64.
- [57] Scherer C., Schmohl A., Breuer K., Sedlbauer K., Salthammer T., Schripp T., Uhde E. und Wensing M. (2006): Praktische Erfahrungen mit Thermoextraktion als Schnelltestmethode für die Emissionsuntersuchung von Bauprodukten und Kunststoffmaterialien *Gefahrstoffe – Reinhaltung der Luft*, 66, 87-93.
- [58] Uhde E. and Salthammer T. (2006): Influence of molecular parameters on the sink effect in test chambers. *Indoor Air*, 16, 158-165.
- [59] Schieweck A., Delius W., Genning C., Siwinski N., Vogtenrath W. and Salthammer T. (2007): Occurrence of organic and inorganic biocides in the museum environment. *Atmospheric Environment*, 41, 3266-3275.
- [60] Uhde E. and Salthammer T. (2007): Impact of reaction products from building materials and furnishings on indoor air quality – A review of recent advances in indoor chemistry. *Atmospheric Environment*, 41, 3111-3128.
- [61] Schripp T., Nachtwey B., Toelke J., Salthammer T., Uhde E., Wensing M. and Bahadir M. (2007) A microscale device for measuring emissions from materials for indoor use: *Analytical and Bioanalytical Chemistry*, 387, 1907-1919.
- [62] Salthammer T. and Fuhrmann F. (2007): Photocatalytic surface reactions on indoor wall paint. *Environmental Science & Technology*, 41, 6573-6578.
- [63] Hughes P., Salthammer T., Schripp T., Wensing M., Woolfenden E., (2007): Micro-chamber thermal extractor - the latest cost effective solution for rapid materials emissions testing. *Journal of Harbin Institute of Technology*, 14, 259-262.
- [64] Schieweck A. Markewitz D. and Salthammer T. (2007) Chemical substances in newly constructed showcases. *Journal for Art Technology and Conservation*, 27, 280-284.
- [65] Weschler C.J., Salthammer T. and Fromme H. (2008) Gas-particle partitioning of phthalic acid esters in the indoor

environment. *Atmospheric Environment*, 42, 1449-1460

- [66] Schripp T., Uhde E., Wensing M., Salthammer T., He C., and Morawska L. (2008) Evaluation of ultra fine particle emissions from laser printers using emission test chambers. *Environmental Science & Technology*, 42, 4338-4343.
- [67] Salthammer T. (2008) Heavy air pollution in Beijing and possible impact on Olympic athletes. *CLEAN – Soil, Air, Water*, 36, 731-733 (DOI: 10.1002/clen.200800150).
- [68] Toftum J., Freund S., Salthammer T. and Weschler C.J. (2008) Secondary organic aerosols from ozone-initiated reactions with emissions from wood-based materials and a green paint. *Atmospheric Environment*, 42, 7632-7640 (DOI: 10.1016/j.atmosenv.2008.05.071).
- [69] Ludewig K., Meyer B., Salthammer T. und Marutzky R. (2008) Korrelationen zwischen den Formaldehydabgabewerten nach der Prüfkammermethode und den Formaldehydkennwerten nach Perforator- und Gasanalysemethode für Oriented Strand Board (OSB). *Holztechnologie*, 49, 36-41.
- [70] Salthammer T. and Mentese S. (2008) Comparison of analytical techniques for the determination of aldehydes in test chambers. *Chemosphere*, 73, 1351-1356 (DOI: 10.1026/j.chemosphere.2008.06.054).
- [71] Wensing M., Schripp T., Uhde E. and Salthammer T. (2008) Ultra fine particles release from hardcopy devices: sources, real room measurements and efficiency of filter accessories. *The Science of the Total Environment*, 407, 418-427 (DOI: 10.1016/j.scitotenv.2008.08.018).
- [72] Morawska L., He C., Johnson G., Jayaratne R., Salthammer T., Wang H., Uhde E., Bostrom T., Modini R., Ayoko G., McGarry P. and Wensing M. (2009) An investigation into the characteristics and formation mechanisms of particles originating from the operation of laser printers, *Environmental Science & Technology*, 43, 1015-1022 (DOI: 10.1021/es802193n).
- [73] Gunschera J., Andersen J.R., Schulz, N., Salthammer T. (2009) Surface-catalyzed reactions on pollutant-removing building products for indoor use, *Chemosphere*, 75, 476-482 (DOI: 10.1016/j.chemosphere.2008.12.055).
- [74] Schripp T., Mulakampilly S.J., Delius W., Uhde E., Wensing M., Salthammer T., Kreuzig R., Bahadir M., Wang L. and Morawska L. (2009) Comparison of ultra-fine particle release from hardcopy devices in emission test chambers and office rooms, *Gefahrstoffe – Reinhaltung der Luft*, 69, 71-76.
- [75] Salthammer T. and Bahadir M. (2009) Occurrence, dynamics and reactions of organic pollutants in the indoor environment. *CLEAN – Soil, Air, Water*, 37, 419-435.
- [76] Schieweck A. and Salthammer T. (2009) Airborne pollutants in museum showcases: emissions from construction and decoration materials, *Studies in Conservation*, 54, 218-235.
- [77] Wensing M., Schripp T., Uhde E. and Salthammer T. (2010) Corrigendum: Ultra fine particles release from hardcopy devices: sources, real room measurements and efficiency of filter accessories, *Science of the Total Environment*, 408, 996-997.
- [78] Schripp T., Fauck, C. and Salthammer T. (2010) Interferences in the determination of formaldehyde via PTR-MS: what do we learn from m/z 31? *International Journal of Mass Spectrometry*, 289, 170-172.
- [79] Salthammer T., Mentese S. and Marutzky R. (2010) Formaldehyde in the indoor environment, *Chemical Reviews*, 110, 2536-2572.
- [80] Riess U., Tegtbur U., Fauck C., Fuhrmann F., Markewitz D. and Salthammer T. (2010) Experimental setup and analytical methods for the non-invasive determination of volatile organic compounds, formaldehyde and NO<sub>x</sub> in exhaled human breath, *Analytica Chimica Acta*, 669, 53-62.
- [81] Schripp T., Fauck C. and Salthammer T. (2010) Chamber studies on mass transfer of di-(2-ethylhexyl)phthalate and di-n-butylphthalate from emission sources into house dust. *Atmospheric Environment*, 44, 2840-2845.
- [82] Schieweck A. and Salthammer T. (2011) Indoor air quality in passive-type museum showcases. *Journal of Cultural Heritage* 12, 2015-213.
- [83] Heitmann K., Wichmann H., Bahadir M., Gunschera J., Schulz N., Salthammer T. (2011) Chemical composition of burnt smell caused by accidental fires. *Chemosphere* 82, 237-243.
- [84] Salthammer T. (2011) Critical evaluation of approaches in setting indoor air quality guidelines and reference values, *Chemosphere* 82, 1507-1517.

- 
- [85] Schripp T., Kirsch I. and Salthammer T. (2011) Characterization of particle emission from household appliances, *Science of the Total Environment* 409, 2534-2540.
- [86] Salthammer T., Fauck C., Schripp T., Meinschmidt P. and Moriske H.-J. (2011) Effect of particle concentration and semi-volatile organic compounds on the phenomenon of 'black magic dust' in dwellings. *Building & Environment* 46, 1880-1890.
- [87] Wensing M., Schripp T., Uhde E. and Salthammer T. (2011) A comment on 'Submesothelial deposition of carbon nanoparticles after toner exposition: Case report'. *Diagnostic Pathology* 6, 20.
- [88] Schossler P., Schripp T. Salthammer T. and Bahadir M. (2011) Beyond phthalates: gas phase concentrations and modeled gas/particle distribution of modern plasticizers. *Science of the Total Environment* 409, 4031-4038.
- [89] Salthammer T., Uhde E., Omelan A., Lüdecke A. and Moriske H.-J. (2012) Estimating human indoor exposure to elemental mercury from broken compact fluorescent lamps (CFLs). *INDOOR AIR* 22, 289-298.
- [90] Merzsch S., Wasisto H.S., Waag A., Kirsch I., Uhde E., Salthammer T. and Peiner E. (2012) Cleaning of structured templates from nanoparticle accumulation using silicone. *Microsystem Technologies* 18, 835-842.
- [91] Wasisto H.S., Merzsch S., Waag A., Kirsch I., Uhde E., Salthammer T. and Peiner E. (2012) Determination of exposure to engineered carbon nanoparticles using a self-sensing piezoresistive silicon cantilever sensor. *Microsystem Technologies* 18, 905-915.
- [92] Salthammer T., Schripp T., Uhde E. and Wensing M. (2012) Aerosols generated by hardcopy devices and other electrical appliances. *Environmental Pollution* 169, 167-174.
- [93] Schripp T. Langer S. and Salthammer T. (2012) Interaction of ozone with some wooden building products, treated wood samples and exotic wood species, *Atmospheric Environment* 54, 365-372.
- [94] Wasisto H.S., Merzsch S. A., Stranz, A., Waag A., Uhde E., Salthammer T. and Peiner E. (2012) Femtogram Mass Measurement of Airborne Engineered Nanoparticles using Silicon Nanopillar Resonators. *Procedia Engineering*, Volume 47, 289-292.
- [95] Wasisto H.S., Merzsch S. A., Waag A., Kirsch I., Uhde E., Salthammer T. and Peiner E. (2012) Effect of Photoresist Coating on the Reusable Resonant Cantilever Sensors for Assessing Exposure to Airborne Nanoparticles. *Procedia Engineering*, 47, 302-305.
- [96] Wasisto H.S., Merzsch S.A., Waag A., Uhde E., Salthammer T. and Peiner E. (2013) Airborne engineered nanoparticles mass sensor based on a silicon resonant cantilever. *Sensors and Actuators B*, 180, 77-89.
- [97] Wasisto H.S., Merzsch S. A., Waag A., Uhde E., Salthammer T. and Peiner E. (2013) Portable cantilever-based airborne nanoparticle detector. *Sensors and Actuators B*, 187, 118-127.
- [98] Schripp T., Markewitz D., Salthammer T. (2013) Does the consumption of e-cigarettes cause passive vaping? *INDOOR AIR*, 23, 25-31.
- [99] Eschig S., Philipp C. and Salthammer T. (2013) Synthesis of fatty acid based 3,6-disubstituted-1,2,3,6-tetrahydrophthalic acid anhydride derivatives. *European Journal of Lipid Science and Technology*, 115, 101-110.
- [100] Gunschera J., Markewitz D. and Salthammer T. (2013) Catalysed reactions on mineral plaster materials used for indoor air purification, *CLEAN – Soil, Air, Water*, 41, 437-446.
- [101] Salthammer T. (2013) Formaldehyde in the ambient atmosphere: from an indoor pollutant to an outdoor pollutant? *Angewandte Chemie International Edition*, 52, 3320-3327.
- [102] Salthammer T. (2013) Formaldehyd in der Umgebungsluft: von der Innenluftverunreinigung zur Außenluftverunreinigung? *Angewandte Chemie*, 125, 3402-3410.
- [103] Bullermann J., Spohnholz R., Friebel S. and Salthammer T. (2013) Polyurethane dispersions based on renewable raw material - stability studies by variations of DMPA content and degree of neutralisation. *Progress in Organic Coatings*, 76, 609-615.
- [104] Gunschera J., Mentese S. and Salthammer T. (2013) Impact of building materials on indoor formaldehyde levels: effect of ceiling tiles, mineral fiber insulation and gypsum board. *Building & Environment* 64, 138-145.
- [105] Harnisch F. und Salthammer T. (2013) Die Chemie bei „Breaking Bad“. *Chemie in unserer Zeit*, 47, 214-221.

- [106] Wasisto H.S., Merzsch S., Stranz A., Waag A., Uhde E., Salthammer T. and Peiner E. (2013) Femtogram aerosol nanoparticle mass sensing utilising vertical silicon nanowire resonators. *Micro & Nano Letters* 8, 554-558.
- [107] Morawska L., Afshari A., Bae, G.-N., Buonanno G., Chao C., Hänninen O., Hofmann W., Isaxon C., Jayaratne E.R., Pasanen P., Salthammer T., Waring M. and Wierzbicka A. (2013) Indoor aerosols: from personal exposure to risk assessment. *INDOOR AIR* 23, 462-487.
- [108] Wasisto H.S., Merzsch S., Waag A., Uhde E., Salthammer T. and Peiner E. (2013) Evaluation of photoresist-based nanoparticle removal method for recycling silicon cantilever mass sensors. *Sensors and Actuators A* 202, 90-99.
- [109] Wasisto H.S., Merzsch S. A., Waag A., Uhde E., Salthammer T. and Peiner E. (2013) Silicon resonant nanopillar sensors for airborne titanium dioxide engineered nanoparticle mass detection. *Sensors and Actuators B* 189, 146-156.
- [110] Mauruschat D., Schumann A., Meinschmidt P., Gunschera J. and Salthammer T. (2014) Application of gas chromatography field asymmetric ion mobility spectrometry (GC-FAIMS) for the detection of organic preservatives in wood. *International Journal for Ion Mobility Spectrometry*, 17, 1-9.
- [111] Salthammer T., Schripp T., Wientzek S. and Wensing M. (2014) Impact of operated wood burning fireplace ovens on indoor air quality. *Chemosphere*, 103, 205-211, DOI 10.1016/j.chemosphere.2013.11.067.
- [112] Schripp T., Märk L., Etienne S. and Salthammer T. (2014) Application of Proton-Transfer-Reaction-Mass-Spectrometry (PTR-MS) for indoor air quality research. *INDOOR AIR*, 24, 178-189, DOI 10.1111/ina.12061.
- [113] Bullermann J., Spohnholz R., Friebel S. and Salthammer T. (2014) Synthesis and characterisation of polyurethane ionomers with trimellitic anhydride and dimethylolpropionic acid for self-emulsifying dispersions. *Journal of Polymer Science A*, 52, 680-690, DOI 10.1002/pola.27049.
- [114] Schripp T., Salthammer T., Wientzek S. and Wensing M. (2014) Characterization of emissions from operated ethanol fireplaces in test chambers. *Environmental Science & Technology*, 48, 3583-3590.
- [115] Schripp T., Salthammer T., Fauck C., Bekö G. and Weschler C. (2014) Latex paint as a delivery vehicle for diethylphthalate and di-n-butylphthalate: predictable boundary layer concentrations and emission rates. *Science of the Total Environment*, 494-495, 299-305, DOI: 10.1016/j.scitotenv.2014.06.141.
- [116] Eschig, S., Salthammer T. and Schirp C. (2014) Maleinisation of monounsaturated fatty acids by Rh-catalysis. *European Journal of Lipid Science and Technology*, 116, 943-951, DOI: 10.1002/ejlt.201300481.
- [117] Salthammer T. and Schripp T. (2015) Application of the Junge- and Pankow-equation for estimating indoor gas/particle distribution and exposure to SVOCs. *Atmospheric Environment*, 106, 467-476, DOI: 10.1016/j.atmosenv.2014.09.050.
- [118] Mishra N., Bartsch J., Ayoko G.A., Salthammer T. and Morawska L. (2015) Volatile Organic Compounds: General characteristics/distribution and their driving sources in urban schools. *Atmospheric Environment*, 106, 485-491.
- [119] Salthammer T. (2015) The formaldehyde dilemma. *International Journal for Hygiene and Environmental Health*, 218, 433-436, DOI:10.1016/j.ijheh.2015.02.005.
- [120] Kandula M., Schwenke T., Friebel S. and Salthammer T. (2015) Effect of ball milling on lignin polyesterification with  $\epsilon$ -caprolactone. *Holzforschung*, 69, 297-302, DOI: 10.1515/hf-2014-0053.
- [121] Mishra N., Ayoko G.A., Salthammer T. and Morawska L. (2015) Evaluating the risk of mixtures in the indoor air of primary school classrooms. *Environmental Science and Pollution Research*, 22, 15080-15088, DOI: 10.1007/s11356-015-4619-z
- [122] Weschler C.J., Bekö G., Koch H., Salthammer T., Schripp T., Toftum J. and Clausen G. (2015) Transdermal uptake of diethyl- and di(n-butyl) phthalate directly from air: experimental verification. *Environmental Health Perspectives*, 123, 928-934, DOI: 10.1289/ehp.1409151.
- [123] Salthammer T. (2016) Very Volatile organic Compounds (VVOCs): an understudied class of indoor pollutants. *INDOOR AIR*, 26, 25-38, DOI: 10.1111/ina.12173.
- [124] Morrison G., Weschler C.J., Bekö G., Koch H., Salthammer T., Schripp T., Toftum J., and Clausen G. (2016). Role of clothing in both accelerating and impeding dermal absorption of airborne SVOCs. *Journal of Exposure Science and Environmental Epidemiology*, 26, 113-118, DOI: 10.1038/jes.2015.42.
- [125] Bartsch J., Uhde E. and Salthammer T. (2016) Analysis of odour compounds from scented consumer products using

- gas chromatography-mass spectrometry and gas chromatography-olfactometry. *Analytica Chimica Acta*, 904, 98-106, DOI: 10.1016/j.aca.2015.11.031.
- [126] Mauruschat D., Plinke B., Aderhold J., Gunschera J., Meinschmidt P. and Salthammer T. (2016) Application of near-infrared spectroscopy for the fast detection and sorting of wood plastic composite and waste wood treated with wood preservatives, *Wood Science and Technology*, 50, 313-331, DOI: 10.1007/s00226-015-0785-x.
- [127] Gunschera J., Bansen B., Salthammer T., Zhao S. and Zhang B. (2016) Portable photocatalytic air cleaners: efficiencies and by-product generation, *Environmental Science and Pollution Research*, 23, 7482-7493, DOI: 10.1007/s11356-015-5992-3.
- [128] Salthammer T., Uhde E., Schripp T., Schieweck A., Mazaheri M., Clifford S., Morawska L., Buonanno G., Querol X., Viana M. and Kumar P. (2016) Children's well-being at schools: impact of climatic conditions and air pollution. *Environment International*, 94, 196-210, DOI: 10.1016/j.envint.2016.05.009.
- [129] Giesen R., Schripp T., Markewitz D., Meyer B., Schwab H., Uhde E. and Salthammer T. (2016) Comparison of methods for the determination of formaldehyde in air. *Analytical Letters*, 49, 1613-1621, DOI: 10.1080/00032719.2015.1107083.
- [130] Salthammer T., Schulz N., Stolte R., Bartsch J. and Uhde E. (2016) Human sensory response to acetone/air mixtures, *Indoor Air*, 26, 796-805, DOI:10.1111/ina.12262.
- [131] Bekö G., Morrison G., Weschler C.J., Koch H.M., Pälme C., Salthammer T., Schripp T., Toftum J. and Clausen G. (2017) Measurements of dermal uptake of nicotine directly from air and clothing, *Indoor Air*, 27, 427-433, DOI: 10.1111/ina.12327.
- [132] Jabbour N., Jayaratne R., Johnson G.R., Alroe J., Uhde E., Salthammer T., Cravigan L., Faghihi E.M., Kumar P. and Morawska L. (2017) A mechanism for the production of ultrafine particles from concrete fracture. *Environmental Pollution*, 222, 175-181, DOI: 10.1016/j.envpol.2016.12.059.
- [133] Huang S., Wei W., Weschler, L.B., Salthammer T., Kan H., Bu Z. and Zhang Y. (2017) Indoor formaldehyde concentrations in urban China: Preliminary study of some important influencing factors. *Science of the Total Environment*, 590-591, 394-405, DOI: 10.1016/j.scitotenv.2017.02.187.
- [134] Salthammer T., Giesen R. and Schripp T. (2017) A permeation-controlled formaldehyde reference source for application in environmental test chambers. *Chemosphere*, 184, 900-906, DOI: 10.1016/j.chemosphere.2017.06.057.
- [135] Morawska L., Ayoko G.A., Bae G.N., Buonanno G., Chao C.Y.H., Clifford S., Fu S.C., Hänninen O., He C., Isaxon C., Mazaheri M., Salthammer T., Waring M.S and Wierzbicka A. (2017) Airborne particles in indoor environment of homes, schools, offices and aged care facilities: the main routes of exposure. *Environment International*, 108, 75-83, DOI: 10.1016/j.envint.2017.07.025.
- [136] Morrison G.C., Bekö G., Weschler C.J., Schripp T., Salthammer T., Hill J., Andersson A.M., Toftum J., Clausen G. and Federiksen H. (2017) Dermal uptake of benzophenone-3 from clothing. *Environmental Science & Technology*, 51, 11371-11379, DOI: 10.1021/acs.est.7b02623.
- [137] Aldag N., Gunschera J. and Salthammer T. (2017) Release and absorption of formaldehyde by textiles. *Cellulose*, 24, 4509-4518, DOI: 10.1007/s10570-017-1393-8.
- [138] Salthammer T. (2017) "The air that I breathe" – der Innenraum als chemischer Reaktor, *Chemie in unserer Zeit*, 51, 308-323, DOI: 10.1002/ciuz.201700779.
- [139] Lorber M., Weschler, C.J., Morrison G., Bekö G., Gong M., Koch, H.M., Salthammer T., Schripp T., Toftum J., and Clausen G. (2017) Linking a dermal permeation and an inhalation model to a simple pharmacokinetic model to study airborne exposure to di(n-butyl) phthalate. *Journal of Exposure Science and Environmental Epidemiology*. 27, 601-609, DOI: 10.1038/jes.2016.48.
- [140] Bekö G., Morrison G.C., Weschler C.J., Koch H.M., Pälme C., Salthammer T., Schripp T., Eftekhari A., Toftum J., Clausen G. (2018) Dermal uptake of nicotine from air and clothing: experimental verification. *Indoor Air*, 28, 247-257, DOI: 10.1111/ina.12437.
- [141] Schieweck A., Gunschera J., Varol D. and Salthammer T. (2018) Analytical procedure for the determination of very volatile organic compounds (C3-C6) in indoor air. *Analytical and Bioanalytical Chemistry*, 410, 3171-3183, DOI: 10.1007/s00216-018-1004-z.
- [142] Birmili W., Kolossa-Gehrig M. Valtanen K., Debiak M. and Salthammer T. (2018) Qualität der Innenraumluft – ein



- Blick auf aktuelle Probleme und Herausforderungen. Bundesgesundheitsblatt, 61, 656-666, DOI: 10.1007/s00103-018-2737-8.
- [143] Salthammer T., Zhang Y., Mo J., Koch H. and Weschler C.J. (2018) Assessing human exposure to organic pollutants in the indoor environment. *Angewandte Chemie Int. Ed.*, 57, 12228-12263. DOI: 10.1002/anie.201711023.
- [144] Salthammer T., Zhang Y., Mo J., Koch H. and Weschler C.J. (2018) Erfassung der Humanexposition mit organischen Verbindungen in Innenraumumgebungen. *Angewandte Chemie*, 130, 12406-12443, DOI: 10.1002/ange.201711023.
- [145] Schieweck A., Uhde E., Salthammer T., Salthammer L.C., Morawska L., Mazaheri M. and Kumar P. (2018) Smart homes and the control of indoor air quality. *Renewable & Sustainable Energy Reviews*, 94, 705-718, DOI: 10.1016/j.rser.2018.05.057.
- [146] Salthammer T., Schieweck A., Gu J., Ameri S. and Uhde E. (2018) Future trends of ambient air pollution in Germany – implications for the indoor environment. *Building & Environment*, 143, 661-670. DOI: 10.1016/j.buildenv.2018.07.050.
- [147] Salonen H., Salthammer T. and Morawska L. (2018) Human exposure to ozone in school and office environments. *Environment International*, 119, 503-514, DOI: 10.1016/j.envint.2018.07.012.
- [148] Gu J., Kirsch I., Schripp T., Froning-Ponndorf F., Berthold D. and Salthammer T. (2018) Human exposure to fine and ultrafine particles from wood processing. *Atmospheric Environment* 193,101-108, DOI: 10.1016/j.atmosenv.2018.08.064.
- [149] Salthammer T. (2019) Data on formaldehyde sources, formaldehyde concentrations and air exchange rates in European housings. *Data in Brief* 22, 400-435, DOI: 10.1016/j.dib.2018.11.096.
- [150] Salthammer T. (2019) Formaldehyde sources, formaldehyde concentrations and air exchange rates in European housings. *Building and Environment* 150, 219-232 DOI: 10.1016/j.buildenv.2018.12.042.
- [151] Gu J., Wensing M., Uhde E. and Salthammer T. (2019). Characterization of particulate and gaseous pollutants emitted during operation of a desktop 3D printer. *Environment International* 123, 476-485, DOI: 10.1016/j.envint.2018.12.014.
- [152] Salthammer T. and Goss, K.-U. (2019) Predicting the gas/particle distribution of SVOCs in the indoor environment using poly-parameter Linear Free Energy relationships. *Environmental Science & Technology* 53, 2491-2499, DOI: 10.1021/acs.est.8b06585.
- [153] Salonen H., Salthammer T. and Morawska L. (2019) Human exposure to NO<sub>2</sub> in school and office indoor environments. *Environment International* 130, 104887, DOI: 10.1016/j.envint.2019.05.081.
- [154] Uhde E., Varol D., Mull B. and Salthammer T. (2019) Distribution of five SVOCs in a model room: effect of vacuuming and air cleaning measures. *Environmental Science: Processes & Impacts*, 21, 1353-1363, DOI: 10.1039/C9EM00121B.
- [155] Gu J., Uhde E., Wensing M., Xia F. and Salthammer T. (2019) Emission control of desktop three-dimensional printing: the effect of a filter cover and an air purifier. *Environmental Science and Technology Letters*, 6, 499-503, DOI: 10.1021/acs.estlett.9b00376.
- [156] Salthammer T. (2020) Emerging indoor pollutants. *International Journal of Hygiene and Environmental Health* 224, 113423, DOI: 10.1016/j.ijheh.2019.113423.
- [157] Gu J., Karrasch S. and Salthammer T. (2020) Review of the characteristics and possible health effects of particles emitted from laser printing devices. *Indoor Air*, 30, 396-421, DOI: 10.1111/ina.12646.
- [158] Salthammer T., Schulz N., Stolte R. and Uhde E. (2020) Sensory evaluation of building products in test chambers: influences of direct and indirect assessment, *Building and Environment* 172, 106668, DOI: 10.1016/j.buildenv.2020.106668.
- [159] Hurraß J., Salthammer T., Heinzow B., Birmili W., Butte W., Debiak M., Kolossa-Gehring M., Kraft M., Moriske H.-J. and Walker G. (2020) Nutzen und Grenzen von Hausstaubuntersuchungen in Innenräumen. *Gefahrstoffe – Reinhaltung der Luft* 80, 135-140.
- [160] Eichler C.M.A., Xu Y., Cohen Hubal E., Cao J., Weschler C.J., Salthammer T., Morrison G.C., Koivisto A.J., Zhang Y., Mandin C., Wei W., Blondeau P., Poppendieck D., Liu X., Delmaar C., Jolliet O., Shin H.-M., Diamond M.L., Shiraiwa M., Zuend A., Hopke P.K., Bi C., Kulmala M. and Little J.C. (2020) Assessing human exposure to chemicals in materials, products and articles: a modular mechanistic framework, submitted for publication.

- [161] Pibiri E., Omelan A., Uhde E. and Salthammer T. (2020) Effect of surface covering on the release of formaldehyde, acetaldehyde, formic acid and acetic acid from particleboard, submitted for publication.
- [162] Salthammer T. and Gunschera J. (2020) Release of formaldehyde and other organic compounds from nitrogen fertilizers, submitted for publication.
- [163] Salonen H., Salthammer T. and Morawska L. (2020) Human exposure to indoor air contaminants in different indoor sport environments, submitted for publication.
- [164] Birmili W., Daniels A., Schechner N., Bethke R., Brasse G., Conrad A., Hurraß J., Uhde E., Omelan A. and Salthammer T. (2020) Stagnating levels of formaldehyde in the indoor environment of German children and adolescents, submitted for publication.
- [165] *Salthammer T., Monegel F., Schulz N., Uhde E., Grimme S., Seibert J., Hohm U. and Palm W.-U. (2020) Sensory perception of non-deuterated and deuterated organic compounds, in preparation*
- [166] *Morrison G.C. and Salthammer T. (2020) Indoor pollutants, thermodynamics and you, in preparation.*

#### MISCELLEANEOUS:

- [1] Böttcher P. und Salthammer T. (1994): Umweltverträglichkeit als Qualitätskriterium der Oberflächenbehandlung von Holz in Innenräumen. AIT-Spezial, 63-65.
- [2] Salthammer T. und Marutzky R. (1995): Emissionen organischer Verbindungen aus Möbeloberflächen. Holz-Zentralblatt, Nr. 144/95, 2405; Nr. 6/96, 57-58.
- [3] Marutzky R., Hansemann W. und Salthammer T. (1996): Emissionsarme Oberflächen für lackiertes Holz. Holz-Zentralblatt, Nr. 68/96, 1102-1104.
- [4] Plehn W., Marutzky R. und Salthammer T. (1998): Einflüsse auf das Wohnklima. Informationsdienst Holz – Wohngeundheit im Holzbau, Deutsche Gesellschaft für Holzforschung (DGfH), München, 23-27.
- [5] Schieweck A., Hoffmann J., Genning C. und Salthammer T. (2005) Organische und anorganische Schadstoffe in Magazinen des Niedersächsischen Landesmuseums Hannover. RESTAURO, 111, 354-61.
- [6] Salthammer T. and Marutzky R. (2013) Bauen und Leben mit Holz. Informationsdienst Holz – Spezial, März 2013, Berlin.
- [7] Harnisch F. and Salthammer T. (2013) The chemistry of Breaking Bad. ChemistryViews by WILEY-VCH & ChemPubSoc Europe (<http://www.chemistryviews.org>). translated from Chemie in unserer Zeit, 2013, 47, 214-221.
- [8] Salthammer T. and Harnisch F. (2014) Die Chemie bei Breaking Bad – Entstehung einer Publikation und ihre Resonanz. Chemie in unserer Zeit, 48, 242-243.
- [9] Morawska L. and Salthammer T. (2015) Special Issue: Indoor Air - Contemporary sources, exposures and global implications. Atmospheric Environment, 106, 375.
- [10] Schirp A., Salthammer T. and Kasal B. (2016) Obituary Dr. Brigitte Dix. Europ. J. Wood Wood Prod., 74, 141-142.
- [11] Salthammer T. (2016) Quantity or quality? Historic and current trends in scientific publishing. Indoor Air, 26, 347-349.
- [12] Salthammer T., Li Y., Corsi R. Wargocki P. and Tham K.-W. (2017) ISIAQ Academy Awards 2016, Indoor Air, 27, 705-707, DOI: 10.1111/ina.12376.
- [13] Salthammer T. (2018) Zwischen Waseda und Wasabi – kulinarische Erfahrungen eines Wissenschaftlers, 2. Auflage, Eigenverlag, Braunschweig.
- [14] Salthammer T. (2019) They came from beyond science. Indoor Air, 29, 159-160, DOI: 10.1111/ina.12545.
- [15] [Destailats H. Singer B. and Salthammer T. \(2020\) Does vaping affect indoor air quality? Indoor Air, in press.](#)