

Karl-Heinz Naumann - Publications

1. Influence of biodiesel fuel composition on the morphology and microstructure of particles emitted from Diesel engines
N. Savic, M. M. Rahman, B. Miljevic, H. Saathoff, K. H. Naumann, T. Leisner, J. Riches, B. Gupta, N. Motta, Z. D. Ristovski
[Carbon **104**, 179 \(2016\)](#)
2. Observation of viscosity transition in α -pinene secondary organic aerosol
E. Järvinen, K. Ignatius, L. Nichman, T. B. Kristensen, C. Fuchs, N. Höppel, J. C. Corbin, J. Craven, J. Duplissy, S. Ehrhart, I. El Haddad, C. Frege, S. J. Gates, H. Gordon, C. R. Hoyle, T. Jokinen, P. Kallinge, J. Kirkby, A. Kiselev, K.-H. Naumann, T. Petäjä, T. Pinterich, A. S. H. Prevot, H. Saathoff, T. Schiebe, K. Sengupta, M. Simon, J. Tröstl, A. Virtanen, P. Vochezer, S. Vogt, A. C. Wagner, R. Wagner, C. Williamson, P. M. Winkler, C. Yan, U. Baltensperger, N. M. Donahue, R. C. Flagan, M. Gallagher, A. Hansel, M. Kulmala, F. Stratmann, D. R. Worsnop, O. Möhler, T. Leisner, and M. Schnaiter
[Atmos. Chem. Phys. **16**, 4423 \(2016\)](#)
3. Modelling and measurement of particle deposition for cell exposure at the air-liquid interface
A. Comouth, H. Saathoff, K.-H. Naumann, S. Muelhopt, H.-R. Paur, T. Leisner
[J. Aerosol Sci. **63**, 103 \(2013\)](#)
4. Aging of biogenic secondary organic aerosol via gas-phase OH radical reactions
Neil M. Donahue, Kaytlin M. Henry, Thomas F. Mentel, Astrid Kiendler-Scharr, Christian Spindler, Birger Bohn, Theo Brauers, Hans P. Dorn, Hendrik Fuchs, Ralf Tillmann, Andreas Wahner, Harald Saathoff, Karl-Heinz Naumann, Ottmar Möhler, Thomas Leisner, Lars Müller, Marc-Christopher Reinnig, Thorsten Hoffmann, Kent Salo, Mattias Hallquist, Mia Frosch, Merete Bilde, Torsten Tritscher, Peter Barmet, Arnaud P. Praplan, Peter F. DeCarlo, Josef Dommen, Andre S.H. Prévôt, and Urs Baltensperger
[Proc. Natl. Acad. Sci. USA **109**, 13503 \(2012\)](#)
5. Single Particle Soot Photometer intercomparison at the AIDA chamber
M. Laborde, M. Schnaiter, C. Linke, H. Saathoff, K.-H. Naumann, O. Möhler, S. Berlenz, U. Wagner, J. W. Taylor, D. Liu, M. Flynn, J. D. Allan, H. Coe, K. Heimerl, F. Dahlkötter, B. Weinzierl, A. G. Wollny, M. Zanatta, J. Cozic, P. Laj, R. Hitzenberger, J. P. Schwarz, and M. Gysel
[Atmos. Meas. Tech. **5**, 3077 \(2012\)](#)
6. Formation of 3-methyl-1,2,3-butanetricarboxylic acid via gas phase oxidation of pinonic acid – a mass spectrometric study of SOA aging
L. Müller, M. C. Reinnig, K.-H. Naumann, H. Saathoff, T. F. Mentel, N. M. Donahue, and T. Hoffmann
[Atmos. Chem. Phys. **12**, 1483 \(2012\)](#)
7. Volatility of secondary organic aerosol during OH radical induced ageing
K. Salo, M. Hallquist, Å. M. Jonsson, H. Saathoff, K.-H. Naumann, G. Spindler, R. Tillmann, H. Fuchs, B. Bohn, F. Rubach, Th. F. Mentel, L. Müller, M. Reinnig, T. Hoffmann, and N. M. Donahue
[Atmos. Chem. Phys. **11**, 11055 \(2011\)](#)
8. A review of optical measurements at the aerosol and cloud chamber AIDA
R. Wagner, C. Linke, K.-H. Naumann, M. Schnaiter, M. Vragel, M. Gangl, and H. Horvath
[J. Quant. Spectrosc. Radiat. Transfer **110**, 930 \(2009\)](#)
9. Temperature dependence of yields of secondary organic aerosols from the ozonolysis of α -pinene and limonene
H. Saathoff, K.-H. Naumann, O. Möhler, Å. M. Jonsson, M. Hallquist, A. Kiendler-Scharr, T. Mentel, R. Tillmann, and U. Schurath
[Atmos. Chem. Phys. **9**, 1551 \(2009\)](#)
10. Chamber Simulations of Cloud Chemistry: The AIDA Chamber
R. Wagner, H. Bunz, C. Linke, O. Möhler, K.-H. Naumann, H. Saathoff, M. Schnaiter, U. Schurath
in "Environmental Simulation Chambers: Application to Atmospheric Chemical Processes", I. Barnes, K. Rudzinski (Eds.), Springer 2005
11. Absorption Amplification of Black Carbon Internally Mixed with Secondary Organic Aerosol
M. Schnaiter, C. Linke, O. Möhler, K.-H. Naumann, H. Saathoff, R. Wagner, U. Schurath, B. Wehner
*J. Geophys. Res. **110** (D19), 19204 (2005)*
12. Aerosol chamber study of optical constants and N_2O_5 uptake on supercooled $\text{H}_2\text{SO}_4/\text{H}_2\text{O}/\text{HNO}_3$ solution droplets at polar stratospheric cloud temperatures

- Robert Wagner, Karl-Heinz Naumann, Alexander Mangold, Ottmar Möhler, Harald Saathoff, and Ulrich Schurath*
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13. Gasification of a soot aerosol by O₃ and NO₂: Temperature dependence of the reaction probability
S. Kamm, H. Saathoff, K.-H. Naumann, O. Möhler, U. Schurath
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 14. COSIMA - a computer program simulating the dynamics of fractal aerosols
Karl-Heinz Naumann
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 15. Transmission electron microscopical and aerosol dynamical characterization of soot aerosols
M. Wentzel, H. Gorzawski, K.-H. Naumann, H. Saathoff, and S. Weinbruch
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 16. UV-VIS-NIR spectral optical properties of soot and soot-containing aerosols
M. Schnaiter, H. Horvath, O. Möhler, K.-H. Naumann, H. Saathoff, O.W. Schöck
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 17. Coating of soot and (NH₄)₂SO₄-particles by ozonolysis of α-pinene
H. Saathoff, O. Möhler, K.-H. Naumann, M. Schnaiter, W. Schöck, U. Schurath, E. Weingartner, and U. Baltensperger
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 18. Carbon mass determination during the AIDA soot aerosol campaign 1999
H. Saathoff, K.-H. Naumann, M. Schnaiter, W. Schöck, E. Weingartner, L. Krämer, Z. Bozoki, U. Pöschl, R. Niessner, and U. Schurath, J. Aerosol Sci. **34**, 1399 (2003)
 19. [Klimawirksamkeit und Chemie atmosphärischer Rußaerosole - Untersuchungen in der AIDA-Anlage](#)
K.-H. Naumann, H. Saathoff, M. Schnaiter, R. Wagner
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 20. Aerosol Chamber Studies of the Loss and Formation of Reactive Intermediates on Tropospheric Aerosols
H. Saathoff, O. Möhler, K.-H. Naumann, M. Schnaiter, W. Schöck, E. Weingartner, and U. Schurath
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H. Saathoff, K.-H. Naumann, and U. Schurath
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 24. Comparison of the Optical Properties of Diesel Soot and Spark Generated Soot
M. Schnaiter, K.-H. Naumann, A. Nink, H. Saathoff, W. Schöck and U. Schurath
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 25. Trace gas interactions with spark generated and diesel engine soot
H. Saathoff, S. Kamm, O. Möhler, K.-H. Naumann and U. Schurath
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 27. UV-VIS-NIR Extinction Spectroscopy of Aerosols Relevant for the Atmosphere
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in "Proceedings of the 3rd workshop of the EUROTRAC-2 subproject Chemical Mechanism Development (CMD), Aachen, 1999"

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35. Heterogeneous Chemistry of Nitrogen Oxides and Ozone on the Surface of Soot Agglomerates
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37. Temperature Dependence of Slow Heterogeneous Reactions on Soot Aerosol
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