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des Helmholtz-Zentrums für Umweltforschung GmbH – UFZ

Forschungsbereich Gesundheit

Forschen für die Umwelt

Vorbemerkung

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahre 2012 erschienenen Publikationen des Forschungsbereichs Energie, die von Mitarbeitern der Helmholtz-Zentrum für Umweltforschung GmbH - UFZ verfasst, mitverfasst oder herausgegeben wurden.

Redaktionsschluss für diese Publikationsliste war der 27. Juni 2013.

Im Unterschied zu externen Autoren sind UFZ Angehörige bei allen Publikationen durch **fette Schrift** hervorgehoben.

Das anschließende alphabetische Register verzeichnet alle UFZ Autoren mit den jeweiligen laufenden Nummern ihrer Publikationen.

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Artikel in ISI gelisteten Zeitschriften

1. Abburi, R., **Kalkhof, S.**, Oehme, R., Kiontke, A., Birkemeyer, C. (2012):
Artifacts in amine analysis from anodic oxidation of organic solvents upon electrospray ionization for mass spectrometry
Eur. J. Mass Spectrom. **18** (3), 301 - 312
Impact Factor: 1,207
2. Batscheider, A., Zakrzewska, S., Heinrich, J., Teuner, C.M., Menn, P., Bauer, C.P., Hoffmann, U., Koletzko, S., **Lehmann, I.**, Herbarth, O., von Berg, A., Berdel, D., Krämer, U., Schaaf, B., Wichmann, H.E., Leidl, R. (2012):
Exposure to second-hand smoke and direct healthcare costs in children – results from two German birth cohorts, GINIplus and LISAplus
BMC Health Serv. Res. **12**, art 344
Impact Factor: 1,66
3. **Bauer, M., Gräbsch, C.**, Gminski, R., Ollmann, A.I.H., Borm, P., Dietz, A., **Herbarth, O., Wichmann, G.** (2012):
Cement-related particles interact with proinflammatory IL-8 chemokine from human primary oropharyngeal mucosa cells and human epithelial lung cancer cell line A549
Environ.Toxicol. **27** (5), 297 - 306
Impact Factor: 2,407
4. **Bauer, M., Gräbsch, C., Schlink, U.**, Klopp, N., Illig, T., Krämer, U., von Berg, A., Schaaf, B., Borte, M., Heinrich, J., Herbarth, O., **Lehmann, I., Röder, S.** (2012):
Genetic association between obstructive bronchitis and enzymes of oxidative stress
Metab.-Clin. Exp. **61** (12), 1771 - 1779
Impact Factor: 2,664
5. **Blaschke, U., Eismann, K., Böhme, A., Paschke, A., Schüürmann, G.** (2012):
Structural alerts for the excess toxicity of acrylates, methacrylates, and propiolates derived from their short-term and long-term bacterial toxicity
Chem. Res. Toxicol. **25** (1), 170 - 180
Impact Factor: 3,779
6. **Bönisch, U., Böhme, A., Kohajda, T., Mögel, I., Schütze, N., von Bergen, M.**, Simon, J.C., **Lehmann, I., Polte, T.** (2012):
Volatile organic compounds enhance allergic airway inflammation in an experimental mouse model
PLoS One **7** (7), e39817
Impact Factor: 4,092

7. Buehligen, J.U., Averbeck, M., Echtermeyer, F., **Polte, T.**, Simon, J.C. (2012):
SDC4 mediated cell migration affects the severity of induced asthma in mice
Exp. Dermatol. **21** (3), e5 - e5
Impact Factor: 3,543
8. Casas, L., Tischer, C., Tiesler, C., Brüske, I., Koletzko, S., Bauer, C.P.,
Wichmann, H.E., von Berg, A., Berdel, D., Krämer, U., Schaaf, B., **Lehmann, I.**,
Herbarth, O., Heinrich, J. (2012):
Association of gas cooking with children's respiratory health: results from GINIplus and
LISApplus birth cohort studies
Indoor Air **22** (6), 476 - 482
Impact Factor: 2,55
9. Flexeder, C., Thiering, E., Brüske, I., Koletzko, S., Bauer, C.P., Wichmann,
H.E., Mansmann, U., von Berg, A., Berdel, D., Krämer, U., Schaaf, B., **Lehmann, I.**,
Herbarth, O., Heinrich, J. (2012):
Growth velocity during infancy and onset of asthma in school-aged children
Allergy **67** (2), 257 - 264
Impact Factor: 6,271
10. Goettsch, C., **Kliemt, S.**, Sinnigen, K., **von Bergen, M.**, Hofbauer, L.C., **Kalkhof, S.**
(2012):
Quantitative proteomics reveals novel functions of osteoclast-associated receptor in
STAT signaling and cell adhesion in human endothelial cells
J. Mol. Cell. Cardiol. **53** (6), 829 - 837
Impact Factor: 5,166
11. Haas, S., Jahnke, H.-G., Moerbt, N., **von Bergen, M.**, Aharinejad, S., Andrukhova, O.,
Robitzki, A.A. (2012):
DIGE proteome analysis reveals suitability of ischemic cardiac *in vitro* model for
studying cellular response to acute ischemia and regeneration
PLoS One **7** (2), e31669
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12. Heinrich, J., Brueske, I., Cramer, C., Hoffmann, U., Schnappinger, M., Schaaf,
B., von Berg, A., Berdel, D., Kraemer, U., **Lehmann, I.**, Herbarth, O., Borte, M., Grübl,
A., Bauer, C., Beckmann, C., Behrendt, H., Ring, J., Koletzko, S. (2012):
GINIplus and LISApplus. Design and selected results of two German birth cohorts about
natural course of atopic diseases and its determinants. GINIplus und LISApplus. Design
und ausgewählte Ergebnisse zweier deutscher Geburtskohorten zum natürlichen Verlauf
atopischer Erkrankungen sowie deren Determinanten
Allergologie **35** (1), 20 - 31
Impact Factor: ,258

13. Heinrich, J., Brüske, I., Schnappinger, M., Standl, M., Flexeder, C., Thiering, E., Tischer, C., Tiesler, C.M.T., Wenig, C.M., Bauer, C.P., Schaaf, B., von Berg, A., Berdel, D., Krämer, U., Cramer, C., **Lehmann, I.**, Herbarth, O., Behrendt, H., Ring, J., Kühnisch, J., Koletzko, S. (2012):
Die zwei deutschen Geburtskohorten GINIplus und LISApplus. Two German Birth Cohorts: GINIplus and LISApplus
Bundesgesundheitsblatt - Gesundheitsforschung - Gesundheitsschutz **55** (6-7), 864 - 874
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14. **Herberth, G., Hinz, D., Bauer, M., Röder, S.**, Olek, S., Huehn, J., Sack, U., Borte, M., Simon, J., **Lehmann, I.** (2012):
Exposures during pregnancy modulate foetal regulatory T-cell development with consequences for the allergy risk of the child
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Impact Factor: 6,271
15. **Herberth, G., Hinz, D., Bauer, M., Röder, S.**, Olek, S., Hühn, J., Sack, U., Borte, M., Simon, J.C., **Lehmann, I.** (2012):
Environmental exposure during pregnancy modulates fetal Treg development with consequences for the allergy risk of the child
J. Immunol. **188** (Suppl.), 175.10
Impact Factor: 5,788
16. **Herberth, G., Hinz, D., Bauer, M., Röder, S.**, Olek, S., Hühn, J., Sack, U., Borte, M., Simon, J.C., **Lehmann, I.** (2012):
Environmental exposure during pregnancy modulates fetal Treg development with consequences for the allergy risk of the child
J. Reprod. Immunol. **94** (1), 54 - 54
Impact Factor: 2,966
17. **Hinz, D., Bauer, M., Röder, S.**, Olek, S., Huehn, J., Sack, U., **Borte, M.**, Simon, J.C., **Herberth, G., Lehmann, I.** (2012):
Lower treg number in cord blood is associated with significant increased risk against atopic dermatitis up to the second year of life
Eur. J. Epidemiol. **27** (Suppl. 1), S104
Impact Factor: 4,713
18. **Hinz, D., Bauer, M., Röder, S.**, Olek, S., Huehn, J., Sack, U., Borte, M., Simon, J.C., **Lehmann, I., Herberth, G.** (2012):
Cord blood Tregs with stable *FOXP3* expression are influenced by prenatal environment and associated with atopic dermatitis at the age of one year
Allergy **67** (3), 380 - 389
Impact Factor: 6,271

19. Hoernig, F., **Weisse, K., Röder, S., Kohajda, T., von Bergen-Tomm, M., Borte, M., Diez, U., Simon, J., Denburg, J., Lehmann, I.** (2012):
Infantile eosinophil/basophil progenitors are more sensitive to indoor chemical exposures compared to their mothers
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20. Italia, S., Batscheider, A., Heinrich, J., Wenig, C., Bauer, C.P., Koletzko, S., **Lehmann, I., Herbarth, O., von Berg, A., Berdel, D., Hoffmann, B., Schaaf, B., Wolfenstetter, S.B.** (2012):
Utilization and costs of conventional and alternative pharmaceuticals in children: results from the German GINIplus and LISApplus birth cohort studies
Pharmacoepidemiol. Drug Saf. **21** (10), 1102 - 1111
Impact Factor: 2,528
21. Kespohl, S., Kotschy-Lang, N., **Tomm, J.M., von Bergen, M., Maryska, S., Brüning, T., Raulf-Heimsoth, M.** (2012):
Occupational IgE-mediated softwood allergy: characterization of the causative allergen
Int. Arch. Allergy Immunol. **157** (2), 202 - 208
Impact Factor: 2,403
22. Kohlboeck, G., Sausenthaler, S., Standl, M., Koletzko, S., Bauer, C.-P., von Berg, A., Berdel, D., Krämer, U., Schaaf, B., **Lehmann, I., Herbarth, O., Heinrich, J.** (2012):
Food intake, diet quality and behavioral problems in children: results from the GINI-plus/LISA-plus studies
Ann. Nutr. Metab. **60** (4), 247 - 256
Impact Factor: 2,257
23. Landgraf, K., Friebe, D., Ullrich, T., Kratzsch, J., Dittrich, K., **Herberth, G., Adams, V., Kiess, W., Erbs, S., Körner, A.** (2012):
Chemerin as a mediator between obesity and vascular inflammation in children
J. Clin. Endocrinol. Metab. **97** (4), E556 - E564
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24. **Lehmann, I., Herberth, G.** (2012):
Cord blood immune status: predicting health or allergy?
Allergy **67** (4), 445 - 448
Impact Factor: 6,271

25. **Leitte, A.M., Schlink, U.,** Herbarth, O., Wiedensohler, A., Pan, X.C., Hu, M., Wehner, B., Breitner, S., Peters, A., Wichmann, H.E., **Franck, U.** (2012): Associations between size-segregated particle number concentrations and respiratory mortality in Beijing, China
Int. J. Environ. Health Res. **22** (2), 119 - 133
Impact Factor: ,864
26. Lipstein, N., Schaks, S., Dimova, K., **Kalkhof, S.,** Ihling, C., Kolbel, K., Ashery, U., Rhee, J., Brose, N., Sinz, A., Jahn, O. (2012): Non-conserved Ca²⁺/calmodulin binding sites in Munc13s differentially control synaptic short-term plasticity
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Impact Factor: 5,527
27. Lødrup Carlsen, K.C., Roll, S., Carlsen, K.-H., Mowinckel, P., Wijga, A.H., Brunekreef, B., Torrent, M., Roberts, G., Arshad, S.H., Kull, I., Krämer, U., von Berg, A., Eller, E., Høst, A., Kuehni, C., Spycher, B., Sunyer, J., Chen, C.-M., Reich, A., Asaranoj, A., Puig, C., **Herbarth, O.,** Mahachie John, J.M., Van Steen, K., Willich, S.N., Wahn, U., Lau, S., Keil, T. (2012): Does pet ownership in infancy lead to asthma or allergy at school age? Pooled analysis of individual participant data from 11 European birth cohorts
PLoS One **7** (8), e43214
Impact Factor: 4,092
28. Lozza, L., Farinacci, M., Stäber, M., **Bauer, M.,** Kaufmann, S.H.E. (2012): Granzyme B-producing plasmacytoid DCs facilitate CD8 T cell activation during BCG vaccination in the absence of IFN- α
Immunology **137** (Suppl. S1), 150 - 150
Impact Factor: 3,321
29. **Müller, S.A.,** van der Smissen, A., von Feilitzsch, M., Anderegg, U., **Kalkhof, S., von Bergen, M.** (2012): Quantitative proteomics reveals altered expression of extracellular matrix related proteins of human primary dermal fibroblasts in response to sulfated hyaluronan and collagen applied as artificial extracellular matrix
J. Mater. Sci.-Mater. Med. **23** (12), 3053 - 3065
Impact Factor: 2,316
30. **Oberbach, A., von Bergen, M.,** Blueher, S., Lehmann, S., Till, H. (2012): Combined serum proteomic and metabonomic profiling after laparoscopic sleeve gastrectomy in children and adolescents
J. Laparoendosc. Adv. Surg. Tech. **22** (2), 184 - 188
Impact Factor: 1,4

31. Otto, C., **Reiche, K., Hackermüller, J.** (2012):
Detection of differentially expressed segments in tiling array data
Bioinformatics **28** (11), 1471 - 1479
Impact Factor: 5,468
32. Peters, F.T., **Wissenbach, D.K.** (2012):
Systematic toxicological analysis using liquid chromatography-mass spectrometry:
techniques and inter-instrument reproducibility of mass
spectra/Systematisch-toxikologische Analyse mittels
Hochleistungsflüssigchromatographie-Massenspektrometrie: Techniken und
Reproduzierbarkeit von Massenspektren zwischen Instrumenten
LaboratoriumsMedizin **36** (2), 89 - 97
Impact Factor: ,184
33. **Petzold, S.,** Aeverbeck, M., Simon, J.C., **Polte, T.** (2012):
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34. **Petzold, S., Polte, T.,** Simon, J.C., Aeverbeck, M. (2012):
Bisphenol A regulates PPAR gamma expression in immune cells
Exp. Dermatol. **21** (3), e30 - e30
Impact Factor: 3,543
35. Pohler, P., Lehmann, J., Veneruso, V., **Tomm, J., von Bergen, M.,** Lambrecht, B., Kohn,
B., Weingart, C., Müller, T.H., Seltsam, A. (2012):
Evaluation of the tolerability and immunogenicity of ultraviolet C-irradiated autologous
platelets in a dog model
Transfusion **52** (11), 2414 - 2426
Impact Factor: 3,217
36. **Polte, T.** (2012):
Effect of mycotoxins on the development of perinatal-induced asthma protection by
endotoxin in the offspring
J. Reprod. Immunol. **94** (1), 122 - 122
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37. **Polte, T., Petzold, S.,** Echtermeyer, F., Pap, T., Simon, J., Aeverbeck, M. (2012):
Critical role for syndecan-4 in the development of allergic airway inflammation
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Impact Factor: 6,271

38. Salbach, J., **Kliemt, S.**, Rauner, M., Rachner, T.D., Goettsch, C., **Kalkhof, S., von Bergen, M.**, Moller, S., Schnabelrauch, M., Hintze, V., Scharnweber, D., Hofbauer, L.C. (2012):
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Biomaterials **33** (33), 8418 - 8429
Impact Factor: 7,404
39. **Schwarz, N., Schlink, U., Franck, U., Großmann, K.** (2012):
Relationship of land surface and air temperatures and its implications for quantifying urban heat island indicators - an application for the city of Leipzig(Germany)
Ecol. Indic. **18** , 693 - 704
Impact Factor: 2,695
40. Standl, M., Lattka, E., Stach, B., Koletzko, S., Bauer, C.P., von Berg, A., Berdel, D., Krämer, U., Schaaf, B., **Röder, S.**, Herbarth, O., Buyken, A., Drogies, T., Thiery, J., Koletzko, B., Heinrich, J. (2012):
FADS1 FADS2 Gene Cluster, PUFA Intake and Blood Lipids in Children: Results from the GINIplus and LISApplus Studies
PLoS One **7** (5), e37780
Impact Factor: 4,092
41. Standl, M., Sausenthaler, S., Lattka, E., Koletzko, S., Bauer, C.P., Wichmann, H.E., von Berg, A., Berdel, D., Kramer, U., Schaaf, B., **Lehmann, I.**, Herbarth, O., Klopp, N., Koletzko, B., Heinrich, J. (2012):
FADS gene cluster modulates the effect of breastfeeding on asthma. Results from the GINIplus and LISApplus studies
Allergy **67** (1), 83 - 90
Impact Factor: 6,271
42. Tischer, C., Gref, A., Standl, M., Bergström, A., Gehring, U., Brunekreef, B., Carlsten, C., McNutt, M., Henderson, J., Granell, R., Melen, E., Wickman, M., **Bauer, M.**, Heinrich, J. (2012):
Association of Glutathione-S-transferase P1 and domestic mould with asthma and allergy in children from five birth cohorts
Allergy **67** (Suppl. 96), 76 - 76
Impact Factor: 6,271
43. **von Bergen, M., Reiche, K.**, Hösler, N., **Rockstroh, M.**, Horn, F., **Hackermüller, J., Tomm, J.** (2012):
A time resolved analysis of nc/mRNA and protein expression throughout Th cell activation
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Impact Factor: 3,321

44. **Weisse, K., Herberth, G., Roeder, S., Borte, M., Heroux, D., Denburg, J.A., Lehmann, I.** (2012):
Cord blood (CB) eosinophil/basophil (Eo/B) progenitors predict respiratory outcomes until the age of two
J. Allergy Clin. Immunol. **129** (2 Suppl.), AB118 - AB118
Impact Factor: 11,003
45. **Weisse, K., Lehmann, I., Heroux, D., Kohajda, T., Herberth, G., Röder, S., von Bergen, M., Borte, M., Denburg, J.** (2012):
The LINA cohort: indoor chemical exposure, circulating eosinophil/basophil (Eo/B) progenitors and early life skin manifestations
Clin. Exp. Allergy **42** (9), 1337 - 1346
Impact Factor: 5,032
46. **Weisse, K., Winkler, S., Stangl, G., Hirche, F., Herberth, G., Hinz, D., Röder, S., Borte, M., Richter, T., Lehmann, I.** (2012):
Maternal and newborn vitamin D status and its impact on atopy development in the German LINA cohort study
Allergy **67** (SI), 201 - 201
Impact Factor: 6,271
47. **Weisse, K., Winkler, S., Stangl, G.I., Hirche, F., Herberth, G., Hinz, D., Bauer, M., Röder, S., Rolle-Kampczyk, U., von Bergen-Tomm, M., Olek, S., Sack, U., Borte, M., Richter, T., Lehmann, I.** (2012):
Maternal and newborn vitamin D status and its impact on fetal regulatory T cell development and children's atopy risk in the German LINA cohort study
J. Reprod. Immunol. **94** (1), 53 - 54
Impact Factor: 2,966
48. **Wirth, H., von Bergen, M., Murugaiyan, J., Roesler, U., Stokowy, T., Binder, H.** (2012):
MALDI-typing of infectious algae of the genus *Prototheca* using SOM portraits
J. Microbiol. Methods **88** (1), 83 - 89
Impact Factor: 2,086
49. **Wuttig, D., Zastrow, S., Füssel, S., Toma, M.I., Meinhardt, M., Kalman, K., Junker, K., Sanjmyatav, J., Boll, K., Hackermüller, J., Rolle, A., Grimm, M.O., Wirth, M.P.** (2012):
CD31, EDNRB and TSPAN7 are promising prognostic markers in clear-cell renal cell carcinoma revealed by genome-wide expression analyses of primary tumors and metastases
Int. J. Cancer **131** (5), E693 - E704
Impact Factor: 5,444

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50. **Kermer, R.**, Hedrich, S., **Taubert, M.**, **Baumann, S.**, Schlömann, M., Johnson, D.B., **Seifert, J.** (2012):
Elucidation of carbon transfer in a mixed culture of *Acidiphilium cryptum* and *Acidithiobacillus ferrooxidans* using protein-based stable isotope probing
Journal of Integrated OMICS **2** (1), 37 - 45
51. **Lehmann, I.**, Weiße, K. (2012):
Rauchen beeinflusst allergierelevante Stammzellen
Pneumologie **66** (12), 702
52. **Thiem, A.**, **Schlink, U.**, Pan, X.C., Hu, M., Peters, A., Wiedensohler, A., Breitner, S., Cyrus, J., Wehner, B., **Rösch, C.**, **Franck, U.** (2012):
Using non-negative matrix factorization for the identification of daily patterns of particulate air pollution in Beijing during 2004–2008
Atmospheric Chemistry and Physics Discussions **12** (5), 13015 - 13052
53. **Wirth, H.**, **von Bergen, M.**, Binder, H. (2012):
Mining SOM expression portraits: feature selection and integrating concepts of molecular function
BioData Mining **5** (October), art. 18

Buchherausgabe

54. **Richter, M.**, Weiland, U. (eds., 2012):
Applied urban ecology : a global framework
Wiley-Blackwell, Chichester, 219 pp.

Buchkapitel

55. Cramer, C., Link, E., Koletzko, S., **Lehmann, I.**, Heinrich, J., Wichmann, H.E., Bauer, C.P., von Berg, A., Berdel, D., Herbarth, O., Schaaf, B., Borte, M., Behrendt, H., Krämer, U. (2012):
The hygiene hypothesis does not apply to atopic eczema in childhood
In: Ring, J., Darsow, U., Behrendt, H. (eds.)
New trends in allergy and atopic eczema
Chemical Immunology and Allergy 96
Karger, Basel, p. 15 - 23
56. **Franck, U., Röder, S., Schlink, U., Borte, M.**, Herbarth, O., **Lehmann, I.** (2012):
Most relevant sources of indoor particles in children's rooms and respiratory health effects of size-segregated particles
In: Longhurst, J.W.S., Brebbia, C.A. (eds.)
Air pollution XX
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57. **Richter, M.**, Weiland, U. (2012):
Urban ecology – brief history and present challenges
In: Richter, M., Weiland, U. (eds.)
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Synthesizing urban ecology research and topics for urban environmental management
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Thematic–methodical approaches to applied urban ecology
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60. Suppan, P., **Franck, U.**, Schmitz, R., Baier, F. (2012):
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In: Heinrichs, D., Krellenberg, K., Hansjürgens, B., Martínez, F. (eds.)
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Berichtartikel

61. Birmili, W., Rehner, J., Boelke, C., Vogel, A., Weber, K., Sonntag, A., Rasch, F., Weinhold, K., Wiedensohler, A., **Franck, U.**, Schneider, F. (2012):
Raum-zeitlich hochaufgelöste Sondierung ultrafeine Partikel in der städtischen
Rauhigkeitsschicht von Leipzig
In: Raabe, A. (Hrsg.)
*METTOOLS VIII - Tagungsband : 20.03.2012 - 22.03.2012 ; [an der Universität Leipzig
; eine Tagung des Fachausschusses Umweltmeteorologie FAUMET der Deutschen
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Leipzig 49
Universität Leipzig, Institut für Meteorologie, Leipzig, S. 53
62. Birmili, W., Tomsche, L., Sonntag, A., Opelt, C., Weinhold, K., Nordmann, S.,
Heese, B., **Franck, U.** (2012):
Quellen und Verteilung ultrafeiner Partikel im Ballungsraum Dresden: Effekte von
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Universität Leipzig, Institut für Meteorologie, Leipzig, S. 117
63. **Rösch, C., Schlink, U., Röder, S., Kohajda, T., Franck, U., Thiem, A., Lehmann, I.**
(2012):
VOC-Muster in Leipziger Innenräumen
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64. **Schlink, U., Röder, S., Takacs, S., Kohajda, T., Franck, U., Thiem, A., Rösch, C., Lehmann, I.** (2012):
Volatile Organic Compounds in the indoor air of occupied apartments
In: Raabe, A. (ed.)
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Wissenschaftliche Mitteilungen aus dem Institut für Meteorologie der Universität Leipzig 49
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Tagungsbeitrag

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