



Recherche Santé Environnement Intérieur

Veille scientifique sur le thème *Santé Environnement intérieur*

2002 – 4^{ème} trimestre

133 articles ont été répertoriés pendant la période du 1^{er} octobre au 31 décembre 2002.

Les articles sont classés selon les chapitres suivants :

I- SUBSTANCES

- I-1. Gaz inorganiques (radon, O₃, NO_x, CO)
- I-2. Composés Organiques Volatils et Composés Organiques Semi-Volatils
- I-3. Particules
- I-4. Biocontaminants
- I-5. Pesticides / biocides
- I-6. Métaux
- I-7. Fumée de tabac environnementale

II- LIEUX DE VIE

- II-1. Habitat privé
- II-2. Transports
- II-3. Autres lieux de vie : écoles, bureaux, espaces de loisirs, lieux publics
- II-4. Ventilation
- II-5. Modélisation
- II-6. Relations air intérieur - air extérieur

III- EFFETS SANITAIRES

- III-1. Effets chez l'animal
- III-2. Effets chez l'homme
- III-3. Populations sensibles

IV- EVALUATION DES RISQUES

- IV-1. Expologie : mesure de l'exposition et ses outils (indicateurs biologiques, budgets espace-temps)
- IV-2. Evaluation des risques

V- GESTION / REMEDIATION

VI- ARTICLES GENERAUX SUR LA THEMATIQUE

Chaque article, à l'exception des articles de synthèse qui sont compilés en fin de document, n'apparaît que dans un seul chapitre. Le lecteur est dès lors invité à compléter sa consultation d'un chapitre particulier par une recherche par mot-clé.

Le lecteur est invité à se reporter à la note relative à la veille scientifique pour la liste des revues et bases de recherche bibliographique consultées dans le cadre de la veille scientifique menée par le réseau RSEIN.



I- SUBSTANCES

I-1. Gaz inorganiques

- **RADON**

1. **TI**: Relationship between radon concentrations in indoor air and in soil gas

AU: Vaupotic, J; Andjelov, M; Kobal, I

SO: ENVIRONMENTAL GEOLOGY, 42 (6): 583-587 SEP 2002

2. **TI**: Radon Studies in the Vertical 15 UD Pelletron Accelerator Facility

AU: Sonkawade R.G., Lochab S.P., Ramola R.C.

SO: Indoor + Built Environment 11(4), 221-226, 2002

- **O₃**

3. **TI**: Development of passive sampler technique for ozone monitoring. Estimation of indoor and outdoor ozone concentration

AU: Helaleh, MIH; Ngudiwaluyo, S; Korenaga, T; Tanaka, K

SO: TALANTA, 58 (4): 649-659 OCT 16 2002

ARTICLE DE SYNTHÈSE

4. **TI**: Free radical chemistry and its concern with indoor air quality: an open problem

AU: Ingrosso, G

SO: MICROCHEMICAL JOURNAL, 73 (1-2): 221-236 OCT 2002

I-2. COV, CO Semi-Volatils

5. **TI**: Health hazards from laser printers?

AU: Smola, T; Georg, H; Hohensee, H

SO: GEFAHRSTOFFE REINHALTUNG DER LUFT, 62 (7-8): 295-301 JUL-AUG 2002

6. **TI**: Pollutants in house dust as indicators of indoor contamination

AU: Butte, W; Heinzow, B

SO: REVIEWS OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, VOL 175: 1-46 2002

7. **TI**: Formation of organic indoor air pollutants by UV-curing chemistry

AU: Salthammer, T; Bednarek, A; Fuhrmann, F; Funaki, R; Tanabe, SI

SO: J. OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, 152 (1-3): 1-9 SEP 20 2002

8. **TI**: Long-term sampling: Suitable monitoring strategy for determination of semi-volatile PAHs at outdoor and indoor sites

AU: Bertoni, G; Cecinato, A; Mabilia, R; Tappa, R

SO: CHROMATOGRAPHIA, 56 (5-6): 361-365 SEP 2002

9. **TI**: Characterization and comparison of three passive air samplers for persistent organic pollutants

AU: Shoeib, M; Harner, T

SO: ENVIRONMENTAL SCIENCE & TECHNOLOGY, 36 (19): 4142-4151 OCT 1 2002

10. **TI**: Coplanar Polychlorinated Biphenyls (PCB) in Indoor Air

AU: Martin Kohler, Markus Zennegg, and Roger Waeber

SO: Environ. Sci. Technol., 36 (22), 4735 -4740, 2002. 10.1021/es025622u S0013-936X(02)05622-5

11. **TI:** Modelling of volatile organic compounds emission from dry building materials
AU: Hongyu Huang and Fariborz Haghighat,
SO: Building and Environment Volume 37, Issue 12, December 2002, Pages 1349-1360
12. **TI:** Multi-adsorbent preconcentration/focusing module for portable-GC/microsensor-array analysis of complex vapor mixtures.
AU : Lu CJ, Zellers ET.
SO: Analyst 2002 Aug;127(8):1061-8
13. **TI:** Concentrations of formaldehyde and other carbonyls in environments affected by incense burning.
AU: Ho SS, Yu JZ.
SO: J Environ Monit 2002 Oct;4(5):728-33
14. **TI:** Determination of formaldehyde traces in fabric and in indoor air by a kinetic fluorimetric method
AU: Fan, J; Tang, YJ; Feng, SL
SO: INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 82 (6): 361-367 JUN 2002
15. **TI:** Laser-induced fluorescence and UV detection of derivatized aldehydes in air samples using capillary electrophoresis
AU: Pereira, EA; Carrilho, E; Tavares, MFM
SO: JOURNAL OF CHROMATOGRAPHY A, 979 (1-2): 409-416 DEC 6 2002
16. **TI:** Diffusion studies of VOC mixtures in a building material
AU: R. Meininghaus, E. Uhde
SO: Indoor Air Volume 12 Issue 4 Page 215 - December 2002
17. **TI:** Sources of formaldehyde, other aldehydes and terpenes in a new manufactured house
AU: A. T. Hodgson, D. Beal, J. E. R. McIlvaine
SO: Indoor Air Volume 12 Issue 4 Page 235 - December 2002
18. **TI:** Field survey of indoor air quality in detached houses in Niigata Prefecture
AU: J. Sakaguchi and S. Akabayashi
SO: Indoor Air Volume 13 Issue s6 Page 42 - January 2003

ARTICLE DE SYNTHÈSE

19. **TI :** Organic compounds as indicators of air pollution
AU: L. Mølhavé
SO: Indoor Air Volume 13 Issue s6 Page 12 - January 2003

I-3. Particules

20. **TI:** Analytical solution to change in size distribution of polydisperse particles in closed chamber due to diffusion and sedimentation
AU: S. H. Park and K. W. Lee,
SO: Atmospheric Environment Volume 36, Issue 35, November 2002, Pages 5459-5467
21. **TI:** A high volume apparatus for the condensational growth of ultrafine particles for inhalation toxicological studies
AU : Demokritou, P; Gupta, T; Koutrakis, P
SO : AEROSOL SCIENCE AND TECHNOLOGY, 36 (11): 1061-1072 NOV 2002
22. **TI:** Generation and quantification of ultrafine particles through terpene/ozone reaction in a chamber setting
AU: Rohr, AC; Weschler, CJ; Koutrakis, P; Spengler, JD
SO: AEROSOL SCIENCE AND TECHNOLOGY, 37 (1): 65-78 JAN 2003
23. **TI:** Spatial distribution of indoor aerosol deposition under accidental release conditions
AU: Sajo, E; Zhu, H; Courtney, JC
SO: HEALTH PHYSICS, 83 (6): 871-883 DEC 2002

24. **TI:** Development and evaluation of a personal particulate organic and mass sampler
AU : Pang, YB; Gundel, LA; Larson, T; Finn, D; Liu, LJS; Claiborn, CS
SO: ENVIRONMENTAL SCIENCE & TECHNOLOGY, 36 (23): 5205-5210 DEC 1 2002

25. **TI :** Fine Particles (PM₁) in Four Different Indoor Environments
AU: Branis M., Rezacova P., Guignon N.
SO: Indoor + Built Environment 11(4), 184-190, 2002

ARTICLE DE SYNTHÈSE

26. **TI:** Dust: A Metric for Use in Residential and Building Exposure Assessment and Source Characterization
AU: Liou P.J., Freeman N.C.G., Millette J.R.
SO: Environmental Health Perspectives, 110(10), 969-983

ARTICLE DE SYNTHÈSE

27. **TI:** Chapter two: methodologies for characterisation of combustion sources and for quantification of their emissions
AU: A. P. Mitra, Lidia Morawska, Chhemendra Sharma and Jim Zhang
SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 903-922

ARTICLE DE SYNTHÈSE

28. **TI:** Fine PM measurements: personal and indoor air monitoring
AU: M. Jantunen, O. Hänninen, K. Koistinen and J. H. Hashimi
SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 993-1007

ARTICLE DE SYNTHÈSE

29. **TI:** Combustion sources of particles. 1. Health relevance and source signatures
AU: Lidia Morawska, and Junfeng (Jim) Zhang
SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 1045-1058

ARTICLE DE SYNTHÈSE

30. **TI:** Combustion sources of particles: 2. Emission factors and measurement methods
AU: Junfeng (Jim) Zhang, and Lidia Morawska
SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 1059-1074

ARTICLE DE SYNTHÈSE

31. **TI:** Particle deposition indoors: a review (summary version)
AU : A. C. K. Lai
SO: Indoor Air Volume 12 Issue 4 Page 211 - December 2002

I-4. Biocontaminants

32. **TI:** Effect of air-conditioner on fungal contamination
AU: Nobuo Hamada, and Tadao Fujita
SO: Atmospheric Environment Volume 36, Issue 35, November 2002, Pages 5443-5448

33. **TI:** Isolation and identification of *Aspergillus fumigatus* mycotoxins on growth medium and some building materials
AU: Nieminen, SM; Karki, R; Auriola, S; Toivola, M; Laatsch, H; Laatikainen, R; Hyvarinen, A; von Wright, A
SO: APPLIED AND ENVIRONMENTAL MICROBIOLOGY, 68 (10): 4871-4875 OCT 2002

34. **TI:** House-dust mites and mattresses
AU: Schei, MA; Hessen, JO; Lund, E
SO: ALLERGY, 57 (6): 538-542 JUN 2002

35. **TI:** Validity of detection of microbial growth in buildings by trained dogs
AU: Eeva Kauhanen, Mikko Harri, Aino Nevalainen and Timo Nevalainen
SO: Environment International Volume 28, Issue 3, July 2002, Pages 153-157

36. **TI:** Casein, an important house dust allergen
AU: Makinen-Kiljunen, S; Mussalo-Rauhamaa, H
SO: ALLERGY, 57 (11): 1084-1085 NOV 2002
37. **TI:** Microbial Volatile Organic Compound Emission Rates and Exposure Model
AU: Menetrez M.Y., Foarde K.K.
SO: Indoor + Built Environment 11(4), 208-213, 2002
38. **TI:** Determining the Growth and Validity of Micro-Organisms in Carpets and Mattresses in Non-Problem Dwellings by Measuring CO₂ released during Respiration
AU: Kemp P.C., H.G. Neumeister-Kemp, Koch C., G. Lysek, F. Murray
SO: Indoor + Built Environment 11(4), 214-220, 2002
39. **TI:** Monitoring Indoor Airborne Fungi and Bacteria in the Different Areas of Trakya University Hospital, Edirne, Turkey
AU: Sarica S., Asan A.,
SO: Indoor + Built Environment 11(5), 285 - 292, 2002
40. **TI:** Short-term versus long-term filter cassette sampling for viable fungi in indoor air: comparative performance of the Sartorius MD8 and the GSP sampler
AU: Engelhart, S; Exner, M
SO: INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH, 205 (6): 443-451 OCT 2002
41. **TI:** House dust mite allergen levels in German day-care centers
AU: Engelhart, S; Bieber, T; Exner, M
SO: INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH, 205 (6): 453-457 OCT 2002
42. **TI:** Volatile metabolites from microorganisms grown on humid building materials and synthetic media
AU: Claeson, AS; Levin, JO; Blomquist, G; Sunesson, AL
SO: JOURNAL OF ENVIRONMENTAL MONITORING, 4 (5): 667-672 OCT 2002
43. **TI:** The prevalence of mouse allergen in inner-city homes
AU: Stelmach, I; Jerzynska, J; Stelmach, W; Majak, P; Chew, G; Kuna, P
SO: PEDIATRIC ALLERGY AND IMMUNOLOGY, 13 (4): 299-302 AUG 2002
44. **TI:** House dust mite allergen levels in carpeted sleeping accommodation are higher in private houses than public places
AU: Mamoon, HA; Henry, RL; Stuart, JE; Gibson, PG
SO: JOURNAL OF PAEDIATRICS AND CHILD HEALTH, 38 (6): 568-570 DEC 2002
45. **TI:** Effect of liner and core materials of plasterboard on microbial growth, spore-induced inflammatory responses, and cytotoxicity in macrophages
AU: Murtoniemi, T; Nevalainen, A; Suutari, M; Hirvonen, MR
SO: INHALATION TOXICOLOGY, 14 (11): 1087-1101 NOV 2002

ARTICLE DE SYNTHÈSE

46. **TI:** An update on pollen and fungal spore aerobiology
AU: Burge, HA
SO: JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, 110 (4): 544-552 OCT 2002

ARTICLE DE SYNTHÈSE

47. **TI:** The fundamentals of fungi
AU: Armstrong, S; Liaw, J
SO: ASHRAE JOURNAL, 44 (11): 18-+ NOV 2002

I-5. Pesticides

48. **TI:** Indoor pyrethroid exposure in homes with woollen textile floor coverings
AU: Berger-Preiss, E; Levsen, K; Leng, G; Idel, H; Sugiri, D; Ranft, U
SO: INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH, 205 (6): 459-472
OCT 2002

I-6. Métaux lourds

49. **TI:** Lead in candle emissions
AU: Shirley J. Wasson, Zhishi Guo, Jenia A. McBrien and Laura O. Beach
SO: The Science of The Total Environment Volume 296, Issues 1-3, 16 September 2002, Pages 159-174

I-7. Fumée de tabac environnementale

Aucun article



II- LIEUX DE VIE

II-1. Habitat privé

- **Appareils de chauffage**

50. **TI**: Chemical and physical characterization of emissions from birch wood combustion in a wood stove
AU: Emma Hedberg, Adam Kristensson, Michael Ohlsson, Christer Johansson, Per-Åke Johansson, Erik Swietlicki, Vaclav Vesely, Ulla Wideqvist and Roger Westerholm
SO: Atmospheric Environment Volume 36, Issue 30, October 2002, Pages 4823-4837

II-2. Transports

51. **TI**: Ocular, nasal, dermal and general symptoms among commercial airline crews
AU: Lindgren, T; Andersson, K; Dammstrom, BG; Norback, D
SO: INTERNATIONAL ARCHIVES OF OCCUPATIONAL AND ENVIRONMENTAL HEALTH, 75 (7): 475-483 SEP 2002

52. **TI**: Commuter exposure to particulate matter in public transportation modes in Hong Kong
AU: L. Y. Chan, , W. L. Lau, S. C. Lee and C. Y. Chan
SO: Atmospheric Environment Volume 36, Issue 21, July 2002, Pages 3363-3373

53. **TI**: Exposure level of carbon monoxide and respirable suspended particulate in public transportation modes while commuting in urban area of Guangzhou, China
AU: L. Y. Chan, , a, W. L. Lau, S. C. Zoub, Z. X. Caob and S. C. Laib
SO: Atmospheric Environment Volume 36, Issue 38, December 2002, Pages 5831-5840

54. **TI**: Cabin air quality: indoor pollutants and climate during intercontinental flights with and without tobacco smoking
AU: T. Lindgren, D. Norbäck
SO: Indoor Air Volume 12 Issue 4 Page 263 - December 2002

ARTICLE DE SYNTHÈSE

55. **TI**: Analysis and implications of aircraft disinsectants
AU: C. van Netten,
SO: The Science of The Total Environment Volume 293, Issues 1-3, 3 July 2002, Pages 257-262

II-3. Autres lieux de vie

- **Ecoles / Crèches**

56. **TI**: Indoor air quality assessment of daycare facilities with carbon dioxide, temperature, and humidity as indicators.
AU: Ferng SF, Lee LW.
SO: J Environ Health 2002 Nov;65(4):14-18, 22

ARTICLE DE SYNTHÈSE

57. **TI**: Health effects of mold exposure in public schools.
AU: Santilli J.
SO: Curr Allergy Asthma Rep 2002 Nov;2(6):460-7

- **Restaurants**

58. **TI:** An Evaluation of Ventilation System Flow Rates and Levels of Carbon Dioxide, Ambient Temperature, and Relative Humidity in Restaurants

AU: Farhang Akbar-Khanzadeh ; Yin Tan ; Eric N. Brown ; Mahboubeh Akbar-Khanzadeh

SO: Applied Occupational and Environmental Hygiene Volume: 17 Number: 9 Page: 640 -- 647

- **Parkings**

59. **TI:** Exposure to Carbon Monoxide in Enclosed Multi-Level Parking Garages in the Central Athens Urban Area

AU: Chaloulakou A., Duci A., Spyrellis N.

SO: Indoor + Built Environment 11(4), 191-201, 2002

II-4. Ventilation

60. **TI:** The effects of ventilation operations in determining contributions of VOCs sources in air-conditioned tropical buildings

AU: Zuraimi, MS; Tham, KW; Sekhar, SC

SO: BUILDING AND ENVIRONMENT, 38 (1): 23-32 JAN 2003

61. **TI:** Effect of chemical composition on VOC transfer through rotating heat exchangers

AU: Roulet, CA; Pibiri, MC; Knutti, R; Pfeiffer, A; Weber, A

SO: ENERGY AND BUILDINGS, 34 (8): 799-807 SEP 2002

62. **TI:** Odour emissions from an HVAC-system

AU: Bitter, F; Fitzner, K

SO: ENERGY AND BUILDINGS, 34 (8): 809-816 SEP 2002

63. **TI:** Performance analysis on hybrid ventilation system for residential buildings using a test house

AU: H. Yoshino, J. Liu, J. Lee, J. Wada

SO: Indoor Air Volume 13 Issue s6 Page 28 - January 2003

ARTICLE DE SYNTHÈSE

64. **TI:** Why, when and how do HVAC-systems pollute the indoor environment and what to do about it? The European AIRLESS project

AU: Bluysen, PM; Cox, C; Seppanen, O; Fernandes, ED; Clausen, G; Muller, B; Roulet, CA

SO: BUILDING AND ENVIRONMENT, 38 (2): 209-225 FEB 2003

II-5. Modélisation

- **Modélisation des émissions et concentrations**

65. **TI:** Hydroxyl radicals in indoor environments

AU: Sarwar, G; Corsi, R; Kimura, Y; Allen, D; Weschler, CJ

SO: ATMOSPHERIC ENVIRONMENT, 36 (24): 3973-3988 AUG 2002

66. **TI:** An empirical model to predict indoor NO₂ concentrations

AU: Milind M. Kulkarni and Rashmi S. Patil

SO: Atmospheric Environment Volume 36, Issue 30, October 2002, Pages 4777-4785

67. **TI:** Mathematical model for simulation of VOC emissions and concentrations in buildings

AU: Tongbao Cheng, , Yi Jiang, Ying Xu and Yinping Zhang

SO: Atmospheric Environment Volume 36, Issue 32, October 2002, Pages 5025-5030

68. **TI:** A linear model of the effects of residence time distribution on mixing pattern in a ventilated airspace

AU: Liao, CM; Liang, HM

SO: BUILDING AND ENVIRONMENT, 38 (1): 11-21 JAN 2003

69. **TI:** Measurements and computations of contaminant's distribution in an office environment

SO: Building and Environment Volume 38, Issue 1, January 2003, Pages 135-145

AU: K. W. D. Cheong, , E. Djunaedy, T. K. Poh, K. W. Tham, S. C. Sekhar, N. H. Wong and M. B. Ullah

70. **TI:** An investigation of air inlet velocity in simulating the dispersion of indoor contaminants via computational fluid dynamics

AU: Lee, E; Feigley, CE; Khan, J

SO: ANNALS OF OCCUPATIONAL HYGIENE, 46 (8): 701-712 NOV 2002

71. **TI:** Modeling and CFD prediction for diffusion and adsorption within room with various adsorption isotherms

AU: S. Murakami, S. Kato, K. Ito, Q. Zhu

SO: Indoor Air Volume 13 Issue s6 Page 20 - January 2003

ARTICLE DE SYNTHÈSE

72. **TI:** Review of indoor emission source models. Part 1. Overview

AU: Guo, ZH

SO: ENVIRONMENTAL POLLUTION, 120 (3): 533-549 2002

ARTICLE DE SYNTHÈSE

73. **TI:** Review of indoor emission source models. Part 2. Parameter estimation

AU: Guo, ZH

SO: ENVIRONMENTAL POLLUTION, 120 (3): 551-564 2002

- **Modélisation des expositions**

ARTICLE DE SYNTHÈSE

74. **TI:** Receptor modeling application framework for particle source apportionment

AU: John G. Watson, Tan Zhu, Judith C. Chow, Johann Engelbrecht, Eric M. Fujita and William E. Wilson

SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 1093-1136

ARTICLE DE SYNTHÈSE

75. **TI:** Modeling exposure to particulate matter

AU: Demetrios J. Moschandreas and Sumeet Saksena

SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 1137-1150

II-6. Air extérieur – Air intérieur

76. **TI:** Characterizing indoor and outdoor 15 minute average PM2.5 concentrations in urban neighborhoods

AU: Ramachandran, G; Adgate, JL; Pratt, GC; Sexton, K

SO: AEROSOL SCIENCE AND TECHNOLOGY, 37 (1): 33-45 JAN 2003

77. **TI:** The Relationships between Indoor and Outdoor Respirable Particulate Matter: Meteorology, Chemistry and Personal Exposure

AU: Shilton V., Giess, Mitchell, Williams

SO: Indoor + Built Environment 11(5), 266 - 274, 2002



III- EFFETS SANITAIRES

III-1. Effets chez l'animal

78. **TI**: Interference of a short-term exposure to nitrogen dioxide with allergic airways responses to allergenic challenges in BALB/c mice
AU: Proust, B; Lacroix, G; Robidel, F; Marliere, M; Lecomte, A; Vargaftig, BB
SO: MEDIATORS OF INFLAMMATION, 11 (4): 251-260 2002
79. **TI**: Inflammatory potential of the spores of *Penicillium spinulosum* isolated from indoor air of a moisture-damaged building in mouse lungs
AU: Jussila, J; Komulainen, H; Kosma, VM; Pelkonen, J; Hirvonen, MR
SO: ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, 12 (3): 137-145 OCT 2002
80. **TI**: *Mycobacterium terrae* isolated from indoor air of a moisture-damaged building induces sustained biphasic inflammatory response in mouse lungs
AU: Jussila, J; Komulainen, H; Huttunen, K; Roponen, M; Iivanainen, E; Torkko, P; Kosma, VM; Pelkonen, J; Hirvonen, MR
SO: ENVIRONMENTAL HEALTH PERSPECTIVES, 110 (11): 1119-1125 NOV 2002
81. **TI**: An Extract of *Stachybotrys chartarum* Causes Allergic Asthma-like Responses in a BALB/c Mouse Model
AU: Michael E. Viana Najwa Haykal Coates, Stephen H. Gavett, MaryJane K. Selgrade, Stephen J. Vesper and Marsha D. W. Ward
SO: Toxicological Sciences 70, 98-109 (2002)
82. **TI**: A High-Molecular-Weight Mite Antigen (HM1) Fraction Aggravates Airway Hyperresponsiveness of Allergic Mice to House Dusts and Whole Mite Cultures
SO: Int Arch Allergy Immunol 2002;129:204-211
AU: Airo Tategaki, Seiji Kawamoto, Takahide Okuda, Tsunehiro Aki, Hiroshi Yasueda, Osamu Suzuki, Kazuhisa Ono, Seiko Shigeta
83. **TI**: In vitro effects of monophthalates on cytokine expression in the monocytic cell line THP-1 and in peripheral
AU: Glue, C; Millner, A; Bodtger, U; Jinquan, T; Poulsen, LK
SO: TOXICOLOGY IN VITRO, 16 (6): 657-662 DEC 2002

III-2. Effets chez l'homme

- **Radon**

84. **TI**: Glass-based radon-exposure assessment and lung cancer risk
AU: Lagarde, F; Falk, R; Almren, K; Nyberg, F; Svensson, H; Pershagen, G
SO: JOURNAL OF EXPOSURE ANALYSIS AND ENVIRONMENTAL EPIDEMIOLOGY, 12 (5): 344-354
85. **TI**: Exposure to residential radon and lung cancer in Spain: A population-based case-control study
AU: Barros-Dios, JM; Barreiro, MA; Ruano-Ravina, A; Figueiras, A
SO: AMERICAN JOURNAL OF EPIDEMIOLOGY, 156 (6): 548-555 SEP 15 2002

- **CO**

86. **TI**: Identifying and managing adverse environmental health effects: 6. Carbon monoxide poisoning.
AU: Abelsohn A, Sanborn MD, Jessiman BJ, Weir E.
SO: Canadian Medical Association Journal 2002 Jun 25;166(13):1685-90

87. **TI:** MRI and Neuropsychological Correlates of Carbon Monoxide exposure: A Case Report
AU: Devine S.A., Kirkley S.M., Palumbo C.L., White R.F.
SO: Environmental Health Perspectives, 110(10), 969-983

- **Biocontaminants**

88. **TI:** Influence of natural exposure to pollens and domestic animals on airway responsiveness and inflammation in sensitized non-asthmatic subjects
AU: Boulay, ME; Boulet, LP
SO: INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY, 128 (4): 336-343 AUG 2002

89. **TI:** Genotoxicity of gliotoxin, a secondary metabolite of *Aspergillus fumigatus*, in a battery of short-term test systems
AU: Nieminen, SM; Maki-Paakkanen, J; Hirvonen, MR; Roponen, M; von Wright, A
SO: MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS, 520 (1-2): 161-170 SEP 26 2002

90. **TI:** Association between Mite Allergen (Der p 1, Der f 1, Blo t 5) Levels and Microscopic Identification of Mites or Skin Prick Test Results in Asthmatic Subjects
AU: Manoel Medeiros Jr, Joanemile P. Figueiredo, Maria C. Almeida, Ajax M. Atta, Ernesto A. Taketomi, Deise A.O. Silva, Silvia A. Terra, Welma W. Amorim, Ricardo S. Pinho, Maria I. Araujo, Edgar M. Carvalho
SO: Int Arch Allergy Immunol 2002;129:237-241

91. **TI:** Building-related symptoms and molds: a two-step intervention study
AU: N. E. Ebbehøj, M. Ø. Hansen, T. Sigsgaard, L. Larsen
SO: Indoor Air Volume 12 Issue 4 Page 273 - December 2002

ARTICLE DE SYNTHÈSE

92. **TI:** Characterization and Immunobiology of House Dust Mite Allergens
AU: Wayne R. Thomas, Wendy-Anne Smith, Belinda J. Hales, Kristina L. Mills, Richard M. O'Brien
SO: Int Arch Allergy Immunol 2002;129:1-18

ARTICLE DE SYNTHÈSE

93. **TI:** Immunobiology of Fungal Allergens
AU: Viswanath P. Kurup, Horng-Der Shen, Hari Vijay
SO: Int Arch Allergy Immunol 2002;129:181-188

- **Effets sanitaires des produits de combustion**

94. **TI:** Exposure to indoor combustion and adult asthma outcomes: environmental tobacco smoke, gas stoves, and woodsmoke
AU: Eisner, MD; Yelin, EH; Katz, PP; Earnest, G; Blanc, PD
SO: THORAX, 57 (11): 973-978 NOV 2002

- **Allergies**

95. **TI:** Nasal mucosal histamine reactivity among young students and teachers, having no or prolonged exposure to a deteriorated indoor climate
AU: Rudblad, S; Andersson, K; Bodin, L; Stridh, G; Juto, JE
SO: ALLERGY, 57 (11): 1029-1035 NOV 2002

III-3. Populations sensibles

- **Enfants**

96. **TI:** Critical windows of exposure to household pesticides and risk of childhood leukemia
AU: Ma, XM; Buffler, PA; Gunier, RB; Dahl, G; Smith, MT; Reinier, K; Reynolds, P
SO: ENVIRONMENTAL HEALTH PERSPECTIVES, 110 (9): 955-960 SEP 2002

97. **TI:** Home and allergic characteristics of children with asthma in seven US urban communities and design of an environmental intervention: The Inner-City Asthma Study
AU: Crain, EF; Walter, M; O'Connor, GT; Mitchell, H; Gruchalla, RS; Kattan, M; Malindzak, GS; Enright, P; Evans, R; Morgan, W; Stout, JW
SO: ENVIRONMENTAL HEALTH PERSPECTIVES, 110 (9): 939-945 SEP 2002

98. **TI:** Infant respiratory symptoms associated with indoor heating sources
AU: Triche, EW; Belanger, K; Beckett, W; Bracken, MB; Holford, TR; Gent, J; Jankun, T; McSharry, JE; Leaderer, BP
SO: AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE, 166 (8): 1105-1111 OCT 15 2002

99. **TI:** House dust endotoxin and allergic sensitization in children
AU: Gehring, U; Bischof, W; Fahlbusch, B; Wichmann, HE; Heinrich, J
SO: AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE, 166 (7): 939-944 OCT 1 2002

100. **TI:** Environmental tobacco smoke exposure and nocturnal symptoms among inner-city children with asthma
AU: Morkjaroenpong, V; Rand, CS; Butz, AM; Huss, K; Eggleston, P; Malveaux, FJ; Bartlett, SJ
SO: JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, 110 (1): 147-153 JUL 2002

101. **TI:** Feather bedding and house dust mite sensitization and airway disease in childhood.
AU : Ponsonby AL, Kemp A, Dwyer T, Carmichael A, Couper D, Cochrane J.
SO : J Clin Epidemiol 2002 Jun;55(6):556-62

102. **TI :** Asthma in children exposed to nitrogen dioxide in ice arenas
AU : Thunqvist P., Lija G., Wickman M., Pershagen G.
SO : European Respiratory Journal 20(3) 2002 646-650

ARTICLE DE SYNTHÈSE

103. **TI:** Do allergens play a role in early childhood asthma?
AU: Kemp, AS
SO: MEDICAL JOURNAL OF AUSTRALIA, 177: S52-S54 Suppl. S SEP 16 2002

- **Personnes âgées**

104. **TI:** Asthma in the elderly - Cockroach sensitization and severity of airway obstruction in elderly nonsmokers
AU: Rogers, L; Cassino, C; Berger, KI; Goldring, RM; Norman, RG; Klugh, T; Reibman, J
SO: CHEST, 122 (5): 1580-1586 NOV 2002



IV- EVALUATION DES RISQUES

IV-1 Expologie

- **Biomarqueurs**

105.TI: Urinary 2,5-dichlorophenol as biological index for p-dichlorobenzene exposure in the general population

AU : Yoshida, T; Andoh, K; Fukuhara, M

SO : ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, 43 (4): 481-485 NOV 2002

- **Evaluation de l'exposition globale ; budget espace-temps**

106.TI: Personal exposure monitoring of particulate matter nitrogen dioxide, and carbon monoxide, including susceptible groups

AU: Harrison, RM; Thornton, CA; Lawrence, RG; Mark, D; Kinnersley, RP; Ayres, JG

SO: OCCUPATIONAL AND ENVIRONMENTAL MEDICINE, 59 (10): 671-679 OCT 2002

107.TI: Contribution of indoor and outdoor environments to PM2.5 personal exposure of children - VESTA study

AU: Gauvin, S; Reungoat, P; Cassadou, S; Dechenaux, J; Momas, I; Just, J; Zmirou, D

SO: SCIENCE OF THE TOTAL ENVIRONMENT, 297 (1-3): 175-181 OCT 7 2002

108.TI: Levels and Sources of Personal Inhalation Exposure to Volatile Organic Compounds

AU: Young Min Kim, Stuart Harrad and Roy M. Harrison

SO: Environ. Sci. Technol., 36 (24), 5405 -5410, 2002. 10.1021/es010148y S0013-936X(01)00148-1

ARTICLE DE SYNTHÈSE

109.TI: Chapter one: exposure measurements

AU: Judith C. Chow, Johann P. Engelbrecht, Natalie C. G. Freeman, Jamal Hisham Hashim, Matti Jantunen, Jon-Pierre Michaud, Sandra Saenz de Tejada, John G. Watson, Fusheng Weig, William E. Wilson, Mayayuki Yasuno and Tan Zhu

SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 873-901

ARTICLE DE SYNTHÈSE

110.TI: Chapter three: methodology of exposure modeling

AU: Demetrios J. Moschandreas, John Watson, Peter D'Abreton, Joseph Scire, Tan Zhu, Werner Klein and Sumeet Saksena

SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 923-946

ARTICLE DE SYNTHÈSE

111.TI: Methods for collecting time/activity pattern information related to exposure to combustion products

AU: Natalie C. G. Freeman, , a and Sandra Saenz de Tejadab

SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 979-992

ARTICLE DE SYNTHÈSE

112.TI: Exposure efficiency: an idea whose time has come?

SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 1075-1091

AU: John S. Evans, Scott K. Wolff, Kanchanasak Phonboon, Jonathan I. Levy and Kirk R. Smith

ARTICLE DE SYNTHÈSE

113.TI: Accessible tools for classification of exposure to particles

AU: Michael Brauer and Sumeet Saksena

SO : Chemosphere Volume 49, Issue 9, December 2002, Pages 1151-1162

- **Etude des expositions par substance**

114.TI: Inhaled formaldehyde: Exposure estimation, hazard characterization, and exposure-response analysis

AU: Liteplo, RG; Meek, ME

SO: JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH-PART B-CRITICAL REVIEWS, 6 (1): 85-114 2002

IV-2 Evaluation des risques

Aucun article

V- GESTION – REMEDIATION – AMELIORATION DE LA QAI

- 115.**TI**: The use of LCA to develop eco-label criteria for hard floor coverings on behalf of the European flower
AU: Baldo, GL; Rollino, S; Stimmeder, G; Fieschi, M
SO: INTERNATIONAL JOURNAL OF LIFE CYCLE ASSESSMENT, 7 (5): 269-275 2002
- 116.**TI**: Influence of raw materials on the formulation of interior emulsion paints from the point of view of EN 13300
AU: Konner, W
SO: MACROMOLECULAR SYMPOSIA, 187: 895-908 SEP 2002
- 117.**TI**: Oxidative decomposition of formaldehyde by metal oxides at room temperature
AU: Yoshika Sekine
SO: Atmospheric Environment Volume 36, Issue 35, November 2002, Pages 5543-5547
- 118.**TI**: Air quality in a simulated office environment as a result of reducing pollution sources and increasing ventilation
AU: Wargocki, P; Bako-Biro, Z; Clausen, G; Fanger, PO
SO: ENERGY AND BUILDINGS, 34 (8): 775-783 SEP 2002
- 119.**TI**: The role of house dust mite elimination in the management of childhood asthma: an unresolved issue
AU: Boner, A; Pescollderungg, L; Silverman, M
SO: ALLERGY, 57: 23-31 Suppl. 74 2002
- 120.**TI**: Removal of indoor pollutants under UV irradiation by a composite TiO₂-zeolite sheet prepared using a papermaking technique
AU: H. Ichiura, , T. Kitaoka and H. Tanaka
SO: Chemosphere Volume 50, Issue 1, January 2003, Pages 79-83
- 121.**TI**: Air filtration devices in the control of indoor allergens.
SO: Curr Allergy Asthma Rep 2002 Sep;2(5):397-400
AU: Wood RA.
- 122.**TI**: Environmental controls in the management of allergic asthma
AU: Bush, RK
SO: MEDICAL CLINICS OF NORTH AMERICA, 86 (5): 973-+ SEP 2002
- 123.**TI**: Comparison of Home Lead Dust Reduction Techniques on Hard Surfaces: The New Jersey Assessment of Cleaning Techniques Trial
AU: Rich D.Q., Rhoads G.G., Yiin L-M., Zhang J., Bai Z., Adgate J.L., Ashley P.J., Liroy P.J.
SO: Environmental Health Perspectives, 110(9), 889-893
- 124.**TI**: Performance and costs of particle air filtration technologies
AU: W. J. Fisk, D. Faulkner, J. Palonen, O. Seppanen
SO: Indoor Air Volume 12 Issue 4 Page 223 - December 2002
- 125.**TI**: Testing Antimicrobial Efficiency on Porous Materials
AU: Menetrez M.Y., Foarde K.K., DE Jesus V.R.
SO: Indoor + Built Environment 11(4), 202-207, 2002

VI- ARTICLES GENERAUX SUR LA THEMATIQUE

126. **TI**: The origin, fate, and health effects of combustion by-products: A research framework
AU: Avakian, MD; Dellinger, B; Fiedler, H; Gullet, B; Koshland, C; Marklund, S; Oberdorster, G; Safe, S; Sarofim, A; Smith, KR; Schwartz, D; Suk, WA
SO: ENVIRONMENTAL HEALTH PERSPECTIVES, 110 (11): 1155-1162 NOV 2002

127. **TI**: Using willingness to pay to evaluate the implementation of Canada's residential radon exposure guideline.
AU: Spiegel JM, Krewski D.
SO: Can J Public Health 2002 May-Jun;93(3):223-8

128. **TI**: Indoor Air Health Risk Perceptions in Australia
AU: Dingle P, Lalla F.
SO: Indoor + Built Environment 11(5), 275 - 284, 2002

129. **TI**: The effect of structures on indoor humidity - possibility to improve comfort and perceived air quality
AU: C. J. Simonson, M. Salonvaara, T. Ojanen
SO: Indoor Air Volume 12 Issue 4 Page 243 - December 2002

130. **TI**: Database system, AFoDAS/AVODAS, on indoor air organic compounds in Japan
AU: J. S. Park and K. Ikeda
SO: Indoor Air Volume 13 Issue s6 Page 35 - January 2003

ARTICLE DE SYNTHESE

131. **TI**: Policy uses of particulate exposure estimates
AU: Michael Brauer, John S. Evans, H. Keith Florig, Kanchanasa Phonboonb, Sumeet Saksena, Guojun Song
SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 947-959

ARTICLE DE SYNTHESE

132. **TI**: Trends in Europe to reduce the indoor air pollution of VOCs
SO: Indoor Air Volume 13 Issue s6 Page 5 - January 2003
AU: P. Wolkoff

ARTICLE DE SYNTHESE

133. **TI**: The right to healthy indoor air: status by 2002
AU: L. Mølhave and M. Krzyzanowski
SO: Indoor Air Volume 13 Issue s6 Page 50 - January 2003

----- FIN VEILLE SCIENTIFIQUE 4^{ème} trimestre 2002 -----

BILAN DES ARTICLES DE SYNTHÈSE (28)

TI: Free radical chemistry and its concern with indoor air quality: an open problem

AU: Ingrosso, G

SO: MICROCHEMICAL JOURNAL, 73 (1-2): 221-236 OCT 2002

TI: Organic compounds as indicators of air pollution

AU: L. Mølhave

SO: Indoor Air Volume 13 Issue s6 Page 12 - January 2003

TI: Dust: A Metric for Use in Residential and Building Exposure Assessment and Source Characterization

AU: Lioy P.J., Freeman N.C.G., Millette J.R.

SO: Environmental Health Perspectives, 110(10), 969-983

TI: Fine PM measurements: personal and indoor air monitoring

AU: M. Jantunen, O. Hänninen, K. Koistinen and J. H. Hashimi

SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 993-1007

TI: Combustion sources of particles. 1. Health relevance and source signatures

AU: Lidia Morawska, and Junfeng (Jim) Zhang

SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 1045-1058

TI: Combustion sources of particles: 2. Emission factors and measurement methods

AU: Junfeng (Jim) Zhang, and Lidia Morawska

SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 1059-1074

TI: Particle deposition indoors: a review (summary version)

AU: A. C. K. Lai

SO: Indoor Air Volume 12 Issue 4 Page 211 - December 2002

TI: An update on pollen and fungal spore aerobiology

AU: Burge, HA

SO: JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, 110 (4): 544-552 OCT 2002

TI: The fundamentals of fungi

AU: Armstrong, S; Liaw, J

SO: ASHRAE JOURNAL, 44 (11): 18-+ NOV 2002

TI: Analysis and implications of aircraft disinsectants

AU: C. van Netten,

SO: The Science of The Total Environment Volume 293, Issues 1-3, 3 July 2002, Pages 257-262

TI: Health effects of mold exposure in public schools.

AU: Santilli J.

SO: Curr Allergy Asthma Rep 2002 Nov;2(6):460-7

TI: Why, when and how do HVAC-systems pollute the indoor environment and what to do about it? The European AIRLESS project

AU: Bluysen, PM; Cox, C; Seppanen, O; Fernandes, ED; Clausen, G; Muller, B; Roulet, CA

SO: BUILDING AND ENVIRONMENT, 38 (2): 209-225 FEB 2003

TI: Review of indoor emission source models. Part 1. Overview

AU: Guo, ZH

SO: ENVIRONMENTAL POLLUTION, 120 (3): 533-549 2002

TI: Review of indoor emission source models. Part 2. Parameter estimation

AU: Guo, ZH

SO: ENVIRONMENTAL POLLUTION, 120 (3): 551-564 2002

- TI:** Receptor modeling application framework for particle source apportionment
AU: John G. Watson, Tan Zhu, Judith C. Chow, Johann Engelbrecht, Eric M. Fujita and William E. Wilson
SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 1093-1136
- TI:** Modeling exposure to particulate matter
AU: Demetrios J. Moschandreas and Sumeet Saksena
SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 1137-1150
- TI:** Characterization and Immunobiology of House Dust Mite Allergens
AU: Wayne R. Thomas, Wendy-Anne Smith, Belinda J. Hales, Kristina L. Mills, Richard M. O'Brien
SO: Int Arch Allergy Immunol 2002;129:1-18
- TI:** Immunobiology of Fungal Allergens
SO: : Int Arch Allergy Immunol 2002;129:181-188
AU: Viswanath P. Kurup, Horng-Der Shen, Hari Vijay
- TI:** Do allergens play a role in early childhood asthma?
AU: Kemp, AS
SO: MEDICAL JOURNAL OF AUSTRALIA, 177: S52-S54 Suppl. S SEP 16 2002
- TI:** Chapter one: exposure measurements
AU: Judith C. Chow, Johann P. Engelbrecht, Natalie C. G. Freeman, Jamal Hisham Hashim, Matti Jantunen, Jon-Pierre Michaud, Sandra Saenz de Tejada, John G. Watson, Fusheng Weig, William E. Wilson, Mayayuki Yasuno and Tan Zhu
SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 873-901
- TI:** Chapter two: methodologies for characterisation of combustion sources and for quantification of their emissions
AU: A. P. Mitra, Lidia Morawska, Chhemendra Sharma and Jim Zhang
SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 903-922
- TI:** Chapter three: methodology of exposure modeling
AU: Demetrios J. Moschandreas, John Watson, Peter D'Abreton, Joseph Scire, Tan Zhu, Werner Klein and Sumeet Saksena
SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 923-946
- TI:** Methods for collecting time/activity pattern information related to exposure to combustion products
AU: Natalie C. G. Freeman, , a and Sandra Saenz de Tejadab
SO: Chemosphere Volume 49, Issue 9, December 2002, Pages 979-992
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