



Recherche Santé Environnement Intérieur

Veille scientifique sur le thème *Santé Environnement intérieur*

2003 – 2^{ème} trimestre

87 articles ont été répertoriés pendant la période du 12 avril au 30 juin 2003.

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:** The RAGENA dynamic model of radon generation, entry and accumulation indoors
AU: Font, L; Baixeras, C
SO: SCIENCE OF THE TOTAL ENVIRONMENT, 307 (1-3): 55-69 MAY 20 2003
2. **TI:** Measurements of radon exhalation from building materials under model climate conditions
AU: Jann, O; Koppke, J; Lehmann, R; Schneider, U
SO: GEFAHRSTOFFE REINHALTUNG DER LUFT, 63 (1-2): 49-52 JAN-FEB 2003
3. **TI:** Detection of Po-210 on filter papers 16 years after use for the collection of short-lived radon progeny in a room
AU: Abu-Jarad, F; Fazal-ur-Rehman
SO: JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, 67 (1): 27-33 2003
4. **TI:** A combination study of indoor radon and in situ gamma spectrometry measurements in Greek dwellings
AU: Clouvas, A; Xanthos, S; Antonopoulos-Domis, M
SO: RADIATION PROTECTION DOSIMETRY, 103 (4): 363-366 2003

- NO₂, O₃

5. **TI:** The measurement of atmospheric pollutants by passive sampling at the Uffizi Gallery, Florence.
AU: De Santis, F; Vazzana, C; Meniqielli, S; Allegrini, I
SO: ANNALI DI CHIMICA, 93 (1-2): 45-53 JAN-FEB 2003
6. **TI:** Ozone-initiated reactions with mixtures of volatile organic compounds under simulated indoor conditions
AU: Fan, ZH; Liroy, P; Weschler, C; Fiedler, N; Kipen, H; Zhang, JF
SO: ENVIRONMENTAL SCIENCE & TECHNOLOGY, 37 (9): 1811-1821 MAY 1 2003

I-2. COV, CO Semi-Volatils

7. **TI:** Mass transfer of volatile organic compounds from painting material in a standard field and laboratory emission cell
AU: Zhang, LZ; Niu, JL
SO: INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, 46 (13): 2415-2423 JUN 2003
8. **TI:** Automated measurements of ammonia and nitric acid in indoor and outdoor air
AU: Fischer, ML; Littlejohn, D; Lunden, MM; Brown, NJ
SO: ENVIRONMENTAL SCIENCE & TECHNOLOGY, 37 (10): 2114-2119 MAY 15 2003
9. **TI:** Comparison of three small chamber test methods for the measurement of VOC emission rates from paint
AU: Afshari, A; Lundgren, B; Ekberg, LE
SO: INDOOR AIR, 13 (2): 156-165 JUN 2003
10. **TI:** A screening assessment of emissions of volatile organic compounds and particles from heated indoor dust samples
AU: Pedersen, EK; Bjorseth, O; Syversen, T; Mathiesen, M
SO: INDOOR AIR, 13 (2): 106-117 JUN 2003

11. **TI:** Determination of organophosphorus flame retardants in indoor dust: Screening method with GC/NPD
AU: Nagorka, R; Ullrich, D
SO: GEFAHRSTOFFE REINHALTUNG DER LUFT, 63 (3): 79-84 MAR 2003
12. **TI:** Non-volatile organic substances in Hamburg indoor dust
AU: Kersten, W; Reich, T
SO: GEFAHRSTOFFE REINHALTUNG DER LUFT, 63 (3): 85-91 MAR 2003
- **Phtalates**
13. **TI:** Effect of indoor climate on the rate and degradation mechanism of plasticized poly (vinyl chloride)
AU: Shashoua, YR
SO: POLYMER DEGRADATION AND STABILITY, 81 (1): 29-36 JUL 2003
- **HAP**
14. **TI :** The characterisation of polycyclic aromatic hydrocarbons emissions from burning of different firewood species in Australia
AU : Zou, LY; Zhang, WD; Atkiston, S
SO : ENVIRONMENTAL POLLUTION, 124 (2): 283-289 2003
- **PCB**
15. **TI:** Characterization of polymer-coated glass as a passive air sampler for persistent organic pollutants
AU : Harner, T; Farrar, NJ; Shoeib, M; Jones, KC; Gobas, FAPC
SO : ENVIRONMENTAL SCIENCE & TECHNOLOGY, 37 (11): 2486-2493 JUN 1 2003

I-3. Particules

16. **TI:** How do the indoor size distributions of airborne submicron and ultrafine particles in the absence of significant indoor sources depend on outdoor distributions?
AU: Franck, U; Herbarth, O; Wehner, B; Wiedensohler, A; Manjarrez, M
SO: INDOOR AIR, 13 (2): 174-181 JUN 2003
17. **TI:** Contribution of incense burning to indoor PM10 and particle-bound polycyclic aromatic hydrocarbons under two ventilation conditions
AU: Lung, SCC; Kao, MC; Hu, SC
SO : INDOOR AIR, 13 (2): 194-199 JUN 2003

I-4. Biocontaminants

18. **TI:** Interlaboratory test - identification of indoor fungi
AU: Gabrio, T; Dill, I; Fischer, G; Grun, L; Rabe, R; Samson, R; Seidl, HNP; Szewzyk, R; Trautmann, C; Warscheid, T; Weidner, U
SO : ALLERGOLOGIE, 26 (3): 95-102 MAR 2003
19. **TI:** Reproducibility of allergen, endotoxin and fungi measurements in the indoor environment
AU: Heinrich, J; Holscher, B; Douwes, J; Richter, K; Koch, A; Bischof, W; Fahlbusch, B; Kinne, RW; Wichmann, HE; INGA Study Grp
SO: J. OF EXPOSURE ANALYSIS AND ENVIRON. EPIDEMIOLOGY, 13 (2): 152-160 MAR 2003
20. **TI:** Release of *Streptomyces albus* propagules from contaminated surfaces
AU: Rafa L. Górny, Gediminas Mainelisa, Sergey A. Grinshpun, Klaus Willeke, Jacek Dutkiewicz and Tiina Reponen
SO: Environmental Research Volume 91, Issue 1 , January 2003, Pages 45-53

21. **TI:** Starch in plasterboard sustains *Streptomyces californicus* growth and bioactivity of spores
AU: Murtoniemi T., Keinanen M.M., Nevalainen A., Hirvonen M.R.
SO: Journal of Applied Microbiology, 94(6) 2003
22. **TI:** Determination of fungal spore release from wet building materials
AU: Kildeso J; Wurtz, H; Nielsen, KF; Kruse, P; Wilkins, K; Thrane, U; Gravesen, S; Nielsen, PA; Schneider T
SO: INDOOR AIR, 13 (2): 148-155 JUN 2003
23. **TI:** The relationship of housing and household characteristics to the indoor concentrations of Der f 1, Der p 1, and Fel d 1 measured in dust and air samples
AU: Peterson, EL; Ownby, DR; Johnson, CC
SO: ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY, 90 (5): 564-571 MAY 2003
24. **TI:** Strategies and targets for establishing a multicenter trial: "Identifikation of indoor relevant moulds"
AU: Gabrio, T; Dill, I; Fischer, G; Grun, L; Rabe, R; Samson, R; Seidl, HP; Szewzyk, R; Trautmann, C; Warscheid, T; Weidner, U
SO: MYCOSES, 46: 32-36 Suppl. 1 2003
25. **TI:** House dust-mite allergen and cat allergen variability within carpeted living room floors in domestic dwellings
AU: Loan, R; Siebers, R; Fitzharris, P; Crane, J
SO: INDOOR AIR, 13 (2): 92-95 JUN 2003
26. **TI:** Determinants of endotoxin levels in carpets in New Zealand homes
AU: Wickens, K; Douwes, J; Siebers, R; Fitzharris, P; Wouters, I; Doekes, G; Mason, K; Hearfield, M; Cunningham, M; Crane, J
SO: INDOOR AIR, 13 (2): 128-135 JUN 2003

I-5. Pesticides

27. **TI:** Pyrethroids used indoors - Biological monitoring of exposure to pyrethroids following an indoor pest control operation
AU: Leng, G; Ranft, U; Sugiri, D; Hadnagy, W; Berger-Preiss, E; Idel, H
SO: INTERNATIONAL JOURNAL OF HYGIENE AND ENVIRONMENTAL HEALTH, 206 (2): 85-92 MAR 2003

I-7. Fumée de tabac environnementale

28. **TI:** Alkaloids in environmental tobacco smoke-filled rooms
AU: Lourenco, MG; Matos, A
SO: INT JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 83 (3): 189-197 MAR 2003
29. **TI:** Occupational exposure of non-smoking restaurant personnel to environmental tobacco smoke in Finland
AU: Johnsson, T; Tuomi, T; Hyvarinen, M; Svinhufvud, J; Rothberg, M; Reijula, K
SO: AMERICAN JOURNAL OF INDUSTRIAL MEDICINE, 43 (5): 523-531 MAY 2003



II- LIEUX DE VIE

II-1. Habitat privé

Aucun article

II-2. Transports

30. **TI**: Commuter exposure to aromatic VOCs in public transportation modes in Hong Kong

AU: Lau, WL; Chan, LY

SO: SCIENCE OF THE TOTAL ENVIRONMENT, 308 (1-3): 143-155 JUN 1 2003

31. **TI**: Characterization of endotoxin and 3-hydroxy fatty acid levels in air and settled dust from commercial aircraft cabins

AU: Hines, CJ; Waters, MA; Larsson, L; Petersen, MR; Saraf, A; Milton, DK

SO: INDOOR AIR, 13 (2): 166-173 JUN 2003

32. **TI**: Exposure to Particulate Matter, Volatile Organic Compounds, and Other Air Pollutants Inside Patrol Cars

AU: Michael Riediker, Ronald Williams, Robert Devlin, Thomas Griggs, and Philip Bromberg

SO: Environ. Sci. Technol., 37 (10), 2084 -2093, 2003. 10.1021/es026264y S0013-936X(02)06264-8

II-3. Autres lieux de vie

- Musées

33. **TI**: Multidisciplinary environmental monitoring at the Kunsthistorisches Museum, Vienna

AU: Sturaro, G; Camuffo, D; Brimblecombe, P; Van Grieken, R; Busse, HJ; Bernardi, A; Valentino, A; Blades, N; Gysels, K; Deutsch, F; Wieser, M; Buczolits, S

SO: JOURNAL OF TRACE AND MICROPROBE TECHNIQUES, 21 (2): 273-294 2003

- Ecoles / Crèches

34. **TI**: Increased levels of bacterial markers and CO₂ in occupied school rooms

AU: Fox, A; Harley, W; Feigley, C; Salzberg, D; Sebastian, A; Larsson, L

SO: JOURNAL OF ENVIRONMENTAL MONITORING, 5 (2): 246-252 APR 2003

35. **TI**: Microbiological air contamination in some educational settings

AU: Karwowska, E

SO: POLISH JOURNAL OF ENVIRONMENTAL STUDIES, 12 (2): 181-185 2003

36. **TI**: Airflow and particle control with different ventilation systems in a classroom

AU: Holmberg, S; Chen, Q

SO: INDOOR AIR, 13 (2): 200-204 JUN 2003

II-4. Ventilation

37. **TI**: Revised air-exchange efficiency considering occupant distribution in ventilated rooms

AU: Zhao, B; Li, XT; Li, DN; Yang, JR

SO: JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION, 53 (6): 759-763 JUN 2003

II-5. Modélisation

38. **TI:** Comparing zonal and CFD model predictions of isothermal indoor airflows to experimental data
AU: Mora, L; Gadgil, AJ; Wurtz, E
SO : INDOOR AIR, 13 (2): 77-85 JUN 2003
39. **TI:** Control strategies for sub-micrometer particles indoors: model study of air filtration and ventilation
AU: Jamriska, M; Morawska, L; Ensor, DS
SO: INDOOR AIR, 13 (2): 96-105 JUN 2003
40. **TI:** Analysis of visitation frequency through particle tracking method based on LES and model experiment
AU: Kato, S; Ito, K; Murakami, S
SO: INDOOR AIR, 13 (2): 182-193 JUN 2003
41. **TI:** Using a spreadsheet to compute contaminant exposure concentrations given a variable emission rate
AU : Nicas, M; Armstrong, TW
SO : AIHA JOURNAL, 64 (3): 368-375 MAY-JUN 2003
- **Modélisation des transferts air ext. - air int.**
42. **TI:** Modeling ventilation and radon in new Dutch dwellings
AU: Janssen, MPM
SO : INDOOR AIR, 13 (2): 118-127 JUN 2003
43. **TI:** Evaluation of the Johnson and Ettinger model for prediction of indoor air quality
AU: Hers, I; Zapf-Gilje, R; Johnson, PC; Li, L
SO: GROUND WATER MONITORING AND REMEDIATION, 23 (2): 119-133 SPR 2003
44. **TI:** Modeling entry of micron-sized and submicron-sized particles into the indoor environment
AU: Jeng, CJ; Kindzierski, WB; Smith, DW
SO: AEROSOL SCIENCE AND TECHNOLOGY, 37 (10): 753-769 OCT 2003

II-6. Air extérieur – Air intérieur

45. **TI:** Changes in airborne fungi from the outdoors to indoor air; Large HVAC systems in nonproblem buildings in two different climates
AU : Kemp, PC; Neumeister-Kemp, HG; Esposito, B; Lysek, G; Murray, F
SO : AIHA JOURNAL, 64 (2): 269-275 MAR-APR 2003
46. **TI:** Evaluation of indoor BTX in an outskirt zone of Rome (Italy)
AU: Bertoni, G; Tappa, R; Ciuchini, C
SO: ANNALI DI CHIMICA, 93 (1-2): 27-33 JAN-FEB 2003
47. **TI:** Determination of polycyclic aromatic hydrocarbons in indoor and outdoor air with chromatographic methods
AU: Zhu, LZ; Shen, XY; Liu, YJ
SO: JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, 38 (5): 779-792 2003
48. **TI:** Residential indoor, outdoor, and workplace concentrations of carbonyl compounds: Relationships with personal exposure concentrations and correlation with sources
AU: Jurvelin, JA; Edwards, RD; Vartiainen, M; Pasanen, P; Jantunen, MJ
SO: JOURNAL OF THE AIR & WASTE MANAGEMENT ASSOCIATION, 53 (5): 560-573 MAY 2003

49. **TI:** Quantitative prediction of traffic pollutant transmission into buildings
AU: Chang, TJ; Huang, MY; Wu, YT; Liao, CM
SO: JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, 38 (6): 1025-1040 2003
50. **TI:** Initial attempts to profile health effects with types of exposures in Anniston, Alabama
AU: Carpenter, DO; Morris, DL; Legator, M
SO: FRESenius ENVIRONMENTAL BULLETIN, 12 (2): 191-195 Sp. Iss. SI 2003
51. **TI:** Comparison of outdoor and indoor mobile source-related volatile organic compounds between low- and high-floor apartments
AU: Jo, WK; Kim, KY; Park, KH; Kim, YK; Lee, HW; Park, JK
SO: ENVIRONMENTAL RESEARCH, 92 (2): 166-171 JUN 2003
52. **TI :** Elemental analysis of airborne particulate matter and cooling water in west Texas residences
AU: Paschold, H; Li, WW; Morales, H; Pingitore, NE; Maciejewska, B
SO : ATMOSPHERIC ENVIRONMENT, 37 (19): 2681-2690 JUN 2003
53. **TI :** Correlations between short-term indoor and outdoor PM concentrations at residences with evaporative coolers
AU : Li, WW; Paschold, H; Morales, H; Chianelli, J
SO : ATMOSPHERIC ENVIRONMENT, 37 (19): 2691-2703 JUN 2003



III- EFFETS SANITAIRES

III-1. Effets chez l'animal

54. **TI:** The effect of endotoxin on the production of IgE, IgG1 and IgG2a antibodies against the cat allergen Fel d 1 in mice

AU : Ormstad, H; Groeng, EC; Duffort, O; Lovik, M

SO : TOXICOLOGY, 188 (2-3): 309-318 JUN 30 2003

III-2. Effets chez l'homme

- **Radon**

55. **TI:** Radon exposure and lung cancer

AU : Planinic, J; Faj, D; Vukovic, B; Faj, Z; Radolic, V; Suveljak, B

SO: JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, 256 (2): 349-352 2003

- **Biocontaminants**

56. **TI:** Allergen sensitivity and asthma severity at an inner city asthma center

AU: Akerman, M; Valentine-Maher, S; Rao, M; Taningco, G; Khan, R; Tuysugoglu, G; Joks, R

SO : JOURNAL OF ASTHMA, 40 (1): 55-62 2003

57. **TI:** The relationship between indicators of building dampness and respiratory health in young Swedish adults

AU: Gunnbjornsdottir, MI; Norback, D; Plaschke, P; Norrman, E; Bjornsson, E; Janson, C

SO: RESPIRATORY MEDICINE, 97 (4): 302-307 APR 2003

58. **TI :** Comparison of Allergen-Induced Late Inflammatory Reactions in the Nose and in the Skin in House Dust Mite-Allergic Patients with or without Asthma

AU : Christa E. Lopuhaä, Marielle J. de Riemer, Theo A. Out, Deman H.S. Sjamsoedin, Rob C. Aalberse, Henk M. Jansen, Jaring S. van der Zee

SO: Int Arch Allergy Immunol 2003;130(4):266-274

59. **TI:** Schistosoma mansoni infection is associated with a reduced course of asthma

AU: Medeiros, M; Figueiredo, JP; Almeida, MC; Matos, MA; Araujo, MI; Cruz, AA; Atta, AM; Rego, MAV; de Jesus, AR; Taketomi, EA; Carvalho, EM

SO: JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY, 111 (5): 947-951 MAY 2003

ARTICLE DE SYNTHÈSE

60. **TI:** Mycotoxins of Aspergilli; Exposure and health effects

AU: Reijula, K; Tuomi, T

SO : FRONTIERS IN BIOSCIENCE, 8: S232-S235 MAY 2003

ARTICLE DE SYNTHÈSE

61. **TI:** Clinical implications of mycotoxins and Stachybotrys

AU: Revankar, SG

SO: AMERICAN JOURNAL OF THE MEDICAL SCIENCES, 325 (5): 262-274 MAY 2003

ARTICLE DE SYNTHÈSE

62. **TI:** Do indoor molds in nonindustrial environments threaten workers' health? A review of the epidemiologic evidence

AU: Kolstad, HA; Brauer, C; Iversen, M; Sigsgaard, T; Mikkelsen, S

SO: EPIDEMIOLOGIC REVIEWS, 24 (2): 203-217 2002

- **Sick Building Syndrome**

63. **TI:** Environmental risk factors and work-related lower respiratory symptoms in 80 office buildings: An exploratory analysis of NIOSH data

AU: Mendell, MJ; Naco, GM; Wilcox, TG; Sieber, WK

SO: AMERICAN JOURNAL OF INDUSTRIAL MEDICINE, 43 (6): 630-641 JUN 2003

- **Fumée de tabac environnementale**

64. **TI:** Respiratory health effects of exposure to environmental tobacco smoke

AU: Chan-Yeung, M; Dimich-Ward, H

SO: RESPIROLOGY, 8 (2): 131-139 JUN 2003

III-3. Populations sensibles

- **Enfants**

65. **TI:** Current PCB exposure in children and youths in Germany

AU: Heudorf, U; Angerer, J

SO: MONATSSCHRIFT KINDERHEILKUNDE, 151 (3): 293-300 MAR 2003

66. **TI:** German Environmental Survey for children

AU: Schulz, C; Becker, K; Seiwert, M

SO: GESUNDHEITSWESEN, 64: S69-S79 Suppl. 1 DEC 2002

67. **TI:** Subpopulations at increased risk of adverse health outcomes from air pollution

AU: Annesi-Maesano, I; Agabiti, N; Pistelli, R; Couilliot, MF; Forastiere, F

SO: EUROPEAN RESPIRATORY JOURNAL, 21: 57S-63S Suppl. 40 MAY 2003

68. **TI:** Aggregate exposures of nine preschool children to persistent organic pollutants at day care and at home

AU: Wilson, NK; Chuang, JC; Lyu, C; Menton, R; Morgan, MK

SO: J OF EXPOSURE ANALYSIS AND ENVIRONMENTAL EPIDEMIOLOGY, 13 (3): 187-202 MAY 2003

69. **TI:** Lung hyperpermeability and asthma prevalence in schoolchildren: unexpected associations with the attendance at indoor chlorinated swimming pools

AU: Bernard, A; Carbone, S; Michel, O; Higuier, S; de Burbure, C; Buchet, JP; Hermans, C; Dumont, X; Doyle, I

SO: OCCUPATIONAL AND ENVIRONMENTAL MEDICINE, 60 (6): 385-394 JUN 2003

- **Personnes âgées**

70. **TI:** Indoor air pollution and respiratory health in the elderly

AU: Simoni, M; Jaakkola, MS; Carrozzi, L; Baldacci, S; Di Pede, F; Viegi, G

SO: EUROPEAN RESPIRATORY JOURNAL, 21: 15S-20S Suppl. 40 MAY 2003

- **Asthmatiques**

71. **TI:** Effect of ozone and aeroallergens on the respiratory health of asthmatics

AU: Ross, MA; Persky, VW; Chung, J; Curtis, L; Ramakrishnan, V; Wadden, RA; Hryhorczuk, DO

SO: ARCHIVES OF ENVIRONMENTAL HEALTH, 57 (6): 568-578 NOV-DEC 2002



IV- EVALUATION DES RISQUES

IV-1 Expologie

- **Biomarqueurs**

72. **TI:** Quantification of polycyclic aromatic hydrocarbons (PAHs) in human hair by HPLC with fluorescence detection: a biological monitoring method to evaluate the exposure to PAHs
AU: Toriba, A; Kuramae, Y; Chetiyankornkul, T; Kizu, R; Makino, T; Nakazawa, H; Hayakawa, K
SO: BIOMEDICAL CHROMATOGRAPHY, 17 (2-3): 126-132 MAR-APR 2003

73. **TI:** Environmental benzene exposure assessment for parent-child pairs in Rouen, France
AU: Kouniali, A; Cicoella, A; Gonzalez-Flesca, N; Dujardin, R; Gehanno, JF; Bois, FY
SO: SCIENCE OF THE TOTAL ENVIRONMENT, 308 (1-3): 73-82 JUN 1 2003

74. **TI:** Nasal lavage method in the monitoring of upper airway inflammation: Seasonal and individual variation
AU: Roponen, M; Seuri, M; Nevalainen, A; Randell, J; Hirvonen, MR
SO: INHALATION TOXICOLOGY, 15 (7): 649-661 JUN 2003

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

75. **TI:** Description and demonstration of the EXPOLIS simulation model: Two examples of modeling population exposure to particulate matter
AU: Kruize, H; Hanninen, O; Breugelmans, O; Lebret, E; Jantunen, M
SO: JOURNAL OF EXPOSURE ANALYSIS AND ENVIRONMENTAL EPIDEMIOLOGY, 13 (2): 87-99 MAR 2003

76. **TI:** Distributions, associations, and partial aggregate exposure of pesticides and polynuclear aromatic hydrocarbons in the Minnesota Children's Pesticide Exposure Study (MNCPEs)
AU: Clayton, CA; Pellizzari, ED; Whitmore, RW; Quackenboss, JJ; Adgate, J; Sefton, K
SO: JOURNAL OF EXPOSURE ANALYSIS AND ENVIRONMENTAL EPIDEMIOLOGY, 13 (2): 100-111 MAR 2003

77. **TI:** Human exposure to indoor residential cyfluthrin residues during a structured activity program
AU: Williams, RL; Bernard, CE; Krieger, RI
SO: JOURNAL OF EXPOSURE ANALYSIS AND ENVIRONMENTAL EPIDEMIOLOGY, 13 (2): 112-119 MAR 2003

IV-2 Evaluation des risques

Pas d'article

V- GESTION

78. **TI** : Metakaolin as a radon retardant from concrete

AU: Lau, BMF; Balendran, RV; Yu, KN

SO: RADIATION PROTECTION DOSIMETRY, 103 (3): 273-276 2003

79. **TI**: Disodium octaborate tetrahydrate (DOT) application and vacuum cleaning, a combined strategy to control house dust mites

AU: Codina, R; Lockey, RF; Diwadkar, R; Mobly, LL; Godfrey, S

SO : ALLERGY, 58 (4): 318-324 APR 2003

80. **TI**: Photodegradation of volatile organic compounds (VOCs) and NO for indoor air purification using TiO₂: promotion versus inhibition effect of NO

AU: Ao, CH; Lee, SC; Mak, CL; Chan, LY

SO: APPLIED CATALYSIS B-ENVIRONMENTAL, 42 (2): 119-129 MAY 8 2003

81. **TI**: Heterogeneous photocatalytic oxidation of acetone for air purification by near UV-irradiated titanium dioxide

AU: Chang, CP; Chen, JN; Lu, MC

SO : JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, 38 (6): 1131-1143 2003

ARTICLE DE SYNTHÈSE

82. **TI**: Reducing domestic exposure to environmental tobacco smoke: a review of attitudes and behaviours

AU: Green, E; Courage, C; Rushton, L

SO: J. OF THE ROYAL SOCIETY FOR THE PROMOTION OF HEALTH, 123 (1): 46-51 MAR 2003

VI- ARTICLES GENERAUX SUR LA THEMATIQUE

83. **TI:** The interaction between physical and social-psychological factors in indoor environmental health
AU: Bass, B; Economou, V; Lee, CKK; Perks, T; Smith, SA; Yip, Q
SO: ENVIRONMENTAL MONITORING AND ASSESSMENT, 85 (2): 199-219 JUN 2003
84. **TI:** The 3-year follow-up study in a block of flats - experiences in the use of the Finnish indoor climate classification
AU : Tuomainen, M; Tuomainen, A; Liesivuori, J; Pasanen, AL
SO: INDOOR AIR, 13 (2): 136-147 JUN 2003
85. **TI:** Impact of varying area of polluting surface materials on perceived air quality
AU: Sakr, W; Knudsen, HN; Gunnarsen, L; Haghighat, F
SO: INDOOR AIR, 13 (2): 86-91 JUN 2003
86. **TI:** Characterization of Polar Organic Compounds in the Organic Film on Indoor and Outdoor Glass Windows
AU: Qin-Tao Liu, Rachel Chen, Brian E. McCarry, Miriam L. Diamond and Bagher Bahavar
SO : Environ. Sci. Technol., 37 (11), 2340 -2349, 2003. 10.1021/es020848i S0013-936X(02)00848-9
87. **TI :** Exposure of infants to outdoor and indoor air pollution in low-income urban areas - a case study of Delhi
AU : Saksena, S; Singh, PB; Prasad, RK; Prasad, R; Malhotra, P; Joshi, V; Patil, RS
SO : JOURNAL OF EXPOSURE ANALYSIS AND ENVIRONMENTAL EPIDEMIOLOGY, 13 (3): 219-230 MAY 2003

----- FIN VEILLE SCIENTIFIQUE 2^{ème} trimestre 2003 -----

BILAN DES ARTICLES DE SYNTHÈSE (4)

TI: Mycotoxins of Aspergilli; Exposure and health effects

AU: Reijula, K; Tuomi, T

SO : FRONTIERS IN BIOSCIENCE, 8: S232-S235 MAY 2003

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