



Recherche Santé Environnement Intérieur

Veille scientifique sur le thème *Santé Environnement intérieur*

2004 – 1^{er} trimestre

115 articles ont été répertoriés pendant la période du 18 novembre 2003 au 26 mars 2004.

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

1. **Title:** Spatial indoor radon distribution in Mexico City
Author: Franco-Marina, F.; Villalba-Caloca, J.; Segovia, N.; Tavera, L.
Journal: Science of the Total Environment Volume: 317 Issue: 1-3 Pages: 91-103

2. **Title:** Natural gamma radiation map (MARNA) and indoor radon levels in Spain
Author: Poncela, L. S. Q.; Fernandez, P. L.; Arozamena, J. G.; Sainz, C.; Fernandez, J. A.; Mahou, E. S.; Matarranz, J. L. M.; Cascon, M. C.
Journal: Environment International Volume: 29 Issue: 8 Pages: 1091-1096

- O₃

3. **Title:** The humidity dependence of ozone deposition onto a variety of building surfaces
Author: Grontoft, T.; Henriksen, J. F.; Seip, H. M.
Journal: Atmospheric Environment Volume: 38 Issue: 1 Pages: 59-68

- NO_x

4. **Title:** Characterization of indoor air quality using multiple measurements of nitrogen dioxide
Author: Yang, W.; Lee, K.; Chung, M.
Journal: Indoor Air Volume: 14 Issue: 2 Pages: 105-111

I-2. COV, COSEmi-Volatils

5. **Title:** A comparison of indoor air pollutants in Japan and Sweden: formaldehyde, nitrogen dioxide, and chlorinated volatile organic compounds
Author: Sakai, K.; Norback, D.; Mi, Y. H.; Shibata, E.; Kamijima, M.; Yamada, T.; Takeuchi, Y.
Journal: Environmental Research Volume: 94 Issue: 1 Pages: 75-85

6. **Title:** Portable sick house syndrome gas monitoring system based on novel colorimetric reagents for the highly selective and sensitive detection of formaldehyde
Author: Suzuki, Y.; Nakano, N.; Suzuki, K.
Journal: Environmental Science & Technology Volume: 37 Issue: 24 Pages: 5695-5700

7. **Title:** A study on the identification and quantification of sources of VOCs in 5 air-conditioned Singapore office buildings
Author: Zuraimi, M. S.; Tham, K. W.; Sekhar, S. C.
Journal: Building and Environment Volume: 39 Issue: 2 Pages: 165-177

- Emissions des matériaux

8. **Title:** Transient analysis of volatile organic compound concentrations for estimating emission rates
Author: Persily, A.; Howard-Reed, C.; Nabinger, S. J.
Journal: Atmospheric Environment Volume: 37 Issue: 39-40 Pages: 5505-5516

9. **Title:** Evaluation of emissions of total volatile organic compounds from carpets in an environmental chamber
Author: Guo, H.; Murray, F.; Lee, S. C.; Wilkinson, S.
Journal: Building and Environment Volume: 39 Issue: 2 Pages: 179-187

10. **Title:** A general model for analyzing single surface VOC emission characteristics from building materials and its application
Author: Xu, Y.; Zhang, Y. P.
Journal: Atmospheric Environment Volume: 38 Issue: 1 Pages: 113-119

11. **Title:** A new method for the rapid determination of volatile organic compound breakthrough times for a sorbent at concentrations relevant to indoor air quality

Author: Scahill, J.; Wolfrum, E. J.; Michener, W. E.; Bergmann, M.; Blake, D. M.; Watt, A. S.

Journal: Journal of the Air & Waste Management Association Volume: 54 Issue: 1 Pages: 105-110

12. **Title:** Time course of isocyanate emission from curing polyurethane adhesives

Author: Wirts M.

Journal: Atmospheric Environment, 37(39-40), 5467

13. **Title:** An analytical model for VOCs emission from dry building materials

Author : Deng

Source : Atmospheric Environment, 38(8), 1173

14. **Title :** Seasonal cycle of indoor-VOCs: comparison of apartments and cities

Author : Schlink U.

Journal : Atmospheric Environment, 38(8), 1181

- **Semi-volatils**

15. **Title:** Simultaneous determination of semivolatile organic compounds in indoor air by gas chromatography-mass spectrometry after solid-phase extraction

Author: Yoshida, T.; Matsunaga, I.; Oda, H.

Journal: Journal of Chromatography A Volume: 1023 Issue: 2 Pages: 255-269

16. **Title:** System for the generation of standard gas mixtures of volatile and semi-volatile organic compounds for calibrations of solid-phase microextraction and other sampling devices

Author: Koziel, J. A.; Martos, P. A.; Pawliszyn, J.

Journal: Journal of Chromatography A Volume: 1025 Issue: 1 Pages: 3-9

17. **Title:** Emissions of organophosphate and brominated flame retardants from selected consumer products and building materials

Author: Kemmlein S.

Journal: Atmospheric Environment, 27(39-40) 5485

18. **Title:** A study on emission of phthalate esters from plastic materials using a passive flux sampler

Author: Fujii M., Shinohara, N.

Journal: Atmospheric Environment, 27(39-40), 5495

19. **Title:** Microorganisms and volatile organic compounds in airborne dust from damp residences

Author: Nilsson, A.; Kihlstrom, E.; Lagesson, V.; Wessen, B.; Szponar, B.; Larsson, L.; Tagesson, C.

Journal: Indoor Air Volume: 14 Issue: 2 Pages: 74-82

20. **Title:** Emission of phthalates from PVC and other materials

Author: Afshari, A.; Gunnarsen, L.; Clausen, P. A.; Hansen, V.

Journal: Indoor Air Volume: 14 Issue: 2 Pages: 120-128

- **HAP**

21. **Title:** Polycyclic aromatic hydrocarbons in indoor and outdoor environments and factors affecting their concentrations

Author: Ohura, T.; Amagai, T.; Fusaya, M.; Matsushita, H.

Journal: Environmental Science & Technology Volume: 38 Issue: 1 Pages: 77-83

I-3. Particules

22. **Title:** The Research Triangle Park particulate matter panel study: PM mass concentration relationships
Author: Williams, R.; Suggs, J.; Rea, A.; Leovic, K.; Vette, A.; Croghan, C.; Sheldon, L.; Rodes, C.; Thornburg, J.; Ejire, A.; Herbst, M.; Sanders, W.
Journal: Atmospheric Environment Volume: 37 Issue: 38 Pages: 5349-5363
23. **Title:** The Research Triangle Park particulate matter panel study: modeling ambient source contribution to personal and residential PM mass concentrations
Author: Williams, R.; Suggs, J.; Rea, A.; Sheldon, L.; Rodes, C.; Thornburg, J.
Journal: Atmospheric Environment Volume: 37 Issue: 38 Pages: 5365-5378
24. **Title:** Development and application of protocols for the determination of response of real-time particle monitors to common indoor aerosols
Author: Jenkins, R. A.; Ilgner, R. H.; Tomkins, B. A.; Peters, D. W.
Journal: Journal of the Air & Waste Management Association Volume: 54 Issue: 2 Pages: 229-241

I-4. Biocontaminants

25. **Title:** A sampling method for comparing fungal concentrations in carpets
Author: Spurgeon, J. C.
Journal: Aiha Journal, Volume: 64, Issue: 6, Pages: 842-845
26. **Title:** Cockroach counts and house dust allergen concentrations after professional cockroach control and cleaning
Author: McConnell, R.; Jones, C.; Milam, J.; Gonzalez, P.; Berhane, K.; Clement, L.; Richardson, J.; Hanley-Lopez, J.; Kwong, K.; Maalouf, N.; Galvan, J.; Platts-Mills, T.
Journal: Annals of Allergy Asthma & Immunology Volume: 91 Issue: 6 Pages: 546-552
27. **Title:** Comparison of house dust mites found on different mattress surfaces
Author: de Oliveira, C. H.; Binotti, R. S.; Muniz, J. R. O.; dos Santos, J. C.; do Prado, A. P.; de Pinho, A. J.
Journal: Annals of Allergy Asthma & Immunology Volume: 91 Issue: 6 Pages: 559-562
28. **Title:** Characterization of the microbial community in indoor environments: a chemical-analytical approach
Author: Sebastian, A.; Larsson, L.
Journal: Applied and Environmental Microbiology Volume: 69 Issue: 6 Pages: 3103-3109
29. **Title:** An environmental assessment of mold concentrations and potential mycotoxin exposures in the greater Southeast Texas area
Author: Khan, N. N.; Wilson, B. L.
Journal: J of Environ Sci and Health Part a-Toxic/Hazard. Subst & Environ Engineering Vol: 38(12) 2759-2772
30. **Title:** Repeated measurements of allergens and endotoxin in settled house dust over a time period of 6 years
Author: Topp, R.; Wimmer, K.; Fahlbusch, B.; Bischof, W.; Richter, K.; Wichmann, H. E.; Heinrich, J.
Journal: Clinical and Experimental Allergy Volume: 33 Issue: 12 Pages: 1659-1666
31. **Title:** Minimizing pathogenic bacteria, including spores, in indoor air
Author: Utrup, L. J.; Werner, K.; Frey, A. H.
Journal: Journal of Environmental Health Volume: 66 Issue: 5 Pages: 19-24
32. **Title:** Variability of airborne cat allergen, Fel d1, in a public place
Author: Munir, A. K. M.; Einarsson, R.; Dreborg, S.
Journal: Indoor Air Volume: 13 Issue: 4 Pages: 353-358
33. **Title:** Seasonal variations in the occurrence of culturable airborne fungi in outdoor and indoor air in Cracow
Author: Medrela-Kuder, E.
Journal: International Biodeterioration & Biodegradation Volume: 52 Issue: 4 Pages: 203-205

34. **Title:** Detection of streptomycetes in house dust - comparison of culture and PCR methods
Author: Rintala, H.; Hyvarinen, A.; Paulin, L.; Nevalainen, A.
Journal: Indoor Air Volume: 14 Issue: 2 Pages: 112-119

I-5. Pesticides

35. **Title:** Suitability of small environmental chambers to test the emission of biocides from treated materials into the air
Author: Horn, W.; Jann, O.; Wilke, O.
Journal: Atmospheric Environment Volume: 37 Issue: 39-40 Pages: 5477-5483
36. **Title:** The distribution of chlorpyrifos following a crack and crevice type application in the US EPA Indoor Air Quality Research House
Author: Stout, D. M.; Mason, M. A.
Journal: Atmospheric Environment Volume: 37 Issue: 39-40 Pages: 5539-5549

I-6. Métaux lourds

37. **Title:** Sources and patterns of polycyclic aromatic hydrocarbons and heavy metals in fine indoor particulate matter of Greek houses
Author: Dermentzoglou, M.; Manoli, E.; Voutsas, D.; Samara, C.
Journal: Fresenius Environmental Bulletin Volume: 12 Issue: 12 Pages: 1511-1519
38. **Title:** Concentrations and solubility of metals from indoor and personal exposure PM2.5 samples
Author: Graney, J. R.; Landis, M. S.; Norris, G. A.
Journal: Atmospheric Environment Volume: 38 Issue: 2 Pages: 237-247

I-7. Fumée de tabac environnementale

39. **Title:** Determining size-specific emission factors for environmental tobacco smoke particles
Author: Klepeis, N. E.; Apte, M. G.; Gundel, L. A.; Sextro, R. G.; Nazaroff, W. W.
Journal: Aerosol Science and Technology Volume: 37 Issue: 10 Pages: 780-790
40. **Title:** Gas-phase organics in environmental tobacco smoke: 2. Exposure-relevant emission factors and indirect exposures from habitual smoking
Author: Singer
Journal: Atmospheric Environment, 37(39-40), 5561



II- LIEUX DE VIE

II-1. Habitat privé

- Comportements des occupants dans l'habitat

41. **Title:** Health effects associated with indoor storage of organic waste

Author: Herr, C. E. W.; zur Nieden, A.; Stilianakis, N. I.; Gieler, U.; Eikmann, T. F.

Journal: International Archives of Occupational and Environmental Health Volume: 77 Issue: 2 Pages: 90-96

II-2. Transports

42. **Title :** Personal exposure to particulate air pollution in transport microenvironments

Author : Gulliver

Journal : Atmospheric Environment, 38(1), 1

43. **Title :** Commuters' exposure to PM_{2.5}, CO, and benzene in public transport in the metropolitan area of Mexico City

Author : Gomez-Perales

Journal : Atmospheric Environment, 38(8), 1219

II-3. Autres lieux de vie

- Ecoles

44. **Title:** Air concentrations of VOCs in portable and traditional classrooms: Results of a pilot study in Los Angeles County

Author: Shendell, D. G.; Winer, A. M.; Stock, T. H.; Zhang, L.; Zhang, J. F.; Maberti, S.; Colome, S. D.

Journal: Journal of Exposure Analysis and Environmental Epidemiology Volume: 14 Issue: 1 Pages: 44-59

45. **Title:** Microbial exposure and mold-specific serum IgG levels among children with respiratory symptoms in 2 school buildings

Author: Hyvarinen, A.; Husman, T.; Laitinen, S.; Meklin, T.; Taskinen, T.; Korppi, M.; Nevalainen, A.

Journal: Archives of Environmental Health Volume: 58 Issue: 5 Pages: 275-283

- Restaurants

46. **Title:** A study of Environmental Tobacco Smoke in South Australian pubs, clubs and cafes

Author: Cenko, C.; Pisaniello, D.; Esterman, A.

Journal: International Journal of Environmental Health Research Volume: 14 Issue: 1 Pages: 3-11

- Hôtels

47. **Title:** Indoor and outdoor carbonyl compounds in the hotel ballrooms in Guangzhou, China

Author: Feng, Y. L.; Wen, S.; Wang, X. M.; Sheng, G. Y.; He, Q. S.; Tang, J. H.; Fu, J. M.

Journal: Atmospheric Environment Volume: 38 Issue: 1 Pages: 103-112

II-4. Ventilation

48. **Title:** Effect of outside air ventilation rate on volatile organic compound concentrations in a call center

Author: Hodgson, A. T.; Faulkner, D.; Sullivan, D. P.; DiBartolomeo, D. L.; Russell, M. L.; Fisk, W. J.

Journal: Atmospheric Environment Volume: 37 Issue: 39-40 Pages: 5517-5527

49. **Title:** Predicting particle deposition on HVAC heat exchangers
Author: Siegel, J. A.; Nazaroff, W. W.
Journal: Atmospheric Environment Volume: 37 Issue: 39-40 Pages: 5587-5596
50. **Title:** Experiments probing the influence of air exchange rates on secondary organic aerosols derived from indoor chemistry
Author: Weschler, C. J.; Shields, H. C.
Journal: Atmospheric Environment Volume: 37 Issue: 39-40 Pages: 5621-5631
51. **Title:** Effect of internal partitioning on indoor air quality of rooms with mixing ventilation - basic study
Author: Lee, H.; Awbi, H. B.
Journal: Building and Environment Volume: 39 Issue: 2 Pages: 127-141
52. **Title:** Effect of ventilation systems and air filters on decay rates of particles produced by indoor sources in an occupied townhouse
Author: Howard-Reed, C.; Wallace, L. A.; Emmerich, S. J.
Journal: Atmospheric Environment Volume: 37 Issue: 38 Pages: 5295-5306
53. **Title:** Effect of central fans and in-duct filters on deposition rates of ultrafine and fine particles in an occupied townhouse
Author: Wallace, L. A.; Emmerich, S. J.; Howard-Reed, C.
Journal: Atmospheric Environment Volume: 38 Issue: 3 Pages: 405-413
54. **Title:** A pilot study using scripted ventilation conditions to identify key factors affecting indoor pollutant concentration and air exchange rate in a residence
Author: Johnson, T.; Myers, J.; Kelly, T.; Wisbith, A.; Ollison, W.
Journal: Journal of Exposure Analysis and Environmental Epidemiology Volume: 14 Issue: 1 Pages: 1-22
55. **Title:** Formaldehyde as a basis for residential ventilation rates
Author: Sherman, M. H.; Hodgson, A. T.
Journal: Indoor Air Volume: 14 Issue: 1 Pages: 2-9
56. **Title:** Microbial contamination of indoor air due to leakages from crawl space: a field study
Author: Airaksinen, M.; Pasanen, P.; Kurnitski, J.; Seppanen, O.
Journal: Indoor Air Volume: 14 Issue: 1 Pages: 55-64

II-5. Modélisation

57. **Title:** Indoor pollutant mixing time in an isothermal closed room: an investigation using CFD
Author: Gadgil, A. J.; Lobscheid, C.; Abadie, M. O.; Finlayson, E. U.
Journal: Atmospheric Environment Volume: 37 Issue: 39-40 Pages: 5577-5586
58. **Title:** Modeling particle loss in ventilation ducts
Author: Sippola, M. R.; Nazaroff, W. W.
Journal: Atmospheric Environment Volume: 37 Issue: 39-40 Pages: 5597-5609
59. **Title:** Rapid measurement of indoor mass-transfer coefficients
Author: Morrison, G. C.; Ping, Z.; Wiseman, D. J.; Ongwande, M.; Chang, H.; Portman, J.; Regmi, S.
Journal: Atmospheric Environment Volume: 37 Issue: 39-40 Pages: 5611-5619
60. **Title:** Experimental and CFD evidence of multiple solutions in a naturally ventilated building
Author: Heiselberg, P.; Li, Y.; Andersen, A.; Bjerre, M.; Chen, Z.
Journal: Indoor Air Volume: 14 Issue: 1 Pages: 43-54

II-6. Air extérieur – Air intérieur

61. **Title:** Indoor/outdoor connections exemplified by processes that depend on an organic compound's saturation vapor pressure

Author: Weschler, C. J.

Journal: Atmospheric Environment Volume: 37 Issue: 39-40 Pages: 5455-5465

62. **Title:** Characterizing the source/sink behavior of double-layer building materials

Author: Kumar, D.; Little, J. C.

Journal: Atmospheric Environment Volume: 37 Issue: 39-40 Pages: 5529-5537

63. **Title:** The transformation of outdoor ammonium nitrate aerosols in the indoor environment

Au: Lunden, M. M.; Revzan, K. L.; Fischer, M. L.; Thatcher, T. L.; Littlejohn, D.; Hering, S. V.; Brown, N. J.

Journal: Atmospheric Environment Volume: 37 Issue: 39-40 Pages: 5633-5644

64. **Title:** A concentration rebound method for measuring particle penetration and deposition in the indoor environment

Author: Thatcher, T. L.; Lunden, M. M.; Revzan, K. L.; Sextro, R. G.; Brown, N. J.

Journal: Aerosol Science and Technology Volume: 37 Issue: 11 Pages: 847-864

65. **Title:** Fungal spore transport through a building structure

Author: Airaksinen, M.; Kurnitski, J.; Pasanen, P.; Seppanen, O.

Journal: Indoor Air Volume: 14 Issue: 2 Pages: 92-104

- **Présence d'un site industriel au voisinage**

66. **Title:** Exposure to volatile organic compounds in residences adjacent to dyeing industrial complex

Author: Jo, W. K.; Lee, J. W.; Shin, D. C.

Journal: International Archives of Occupational and Environmental Health Volume: 77 Issue: 2 Pages: 113-120

- **Logement situé sur un sol pollué**

67. **Title:** Comparison, validation, and use of models for predicting indoor air quality from soil and groundwater contamination

Author: Hers, I.; Zapf-Gilje, R.; Evans, D.; Li, L.

Journal: Soil & Sediment Contamination Volume: 11 Issue: 4 Pages: 491-527

68. **Title:** Single and multicomponent gas phase diffusion in a porous media: Modeling and laboratory measurements

Author: Partridge, G. P.; McLeary, K. S.; Showers, T. R.; Huebner, R. S.; Elliott, H. A.

Journal: Soil & Sediment Contamination Volume: 11 Issue: 4 Pages: 555-581

69. **Title:** Fate and transport of contaminants in indoor air

Author: Olson, D. A.; Corsi, R. L.

Journal: Soil & Sediment Contamination Volume: 11 Issue: 4 Pages: 583-601

70. **Title:** An evaluation of vapor intrusion into buildings through a study of field data

Author: Fitzpatrick, N. A.; Fitzgerald, J. J.

Journal: Soil & Sediment Contamination Volume: 11 Issue: 4 Pages: 603-623

71. **Title:** Chemical vapor intrusion from soil or groundwater to indoor air: Significance of unsaturated zone biodegradation of aromatic hydrocarbons

Author: DeVaul, G.; Ettinger, R.; Gustafson, J.

Journal: Soil & Sediment Contamination Volume: 11 Issue: 4 Pages: 625-641

72. **Title :** Compilation of tables of surface deposition velocities for O₃, NO₂ and SO₂ to a range of indoor surfaces

Author : Grontoft T.

Journal : Atmospheric Environment, 38(4), 533



III- EFFETS SANITAIRES

III-1. Effets chez l'animal

Pas d'article

III-2. Effets chez l'homme

- **Radon**

73. **Title:** Effects of residential radon on cancer incidence

Author: Lazar, I.; Toth, E.; Marx, G.; Cziegler, I.; Koteles, G. J.

Journal: Journal of Radioanalytical and Nuclear Chemistry Volume: 258: 3 Pages: 519-524

- **Biocontaminants**

74. **Title:** Comparison of skin tests to aeroallergens in Ankara and Seoul

Author: Sener, O.; Kim, Y. K.; Ceylan, S.; Ozanguc, N.; Yoo, T. J.

Journal: Journal of Investigational Allergology and Clinical Immunology Volume: 13 Issue: 3 Pages: 202-208

75. **Title:** Exposure levels and skin reactivity to German cockroach (*Blattella germanica*) in Croatia

Author: Macan, J.; Plavec, D.; Kanceljak, B.; Milkovic-Kraus, S.

Journal: Croatian Medical Journal Volume: 44 Issue: 6 Pages: 756-760

76. **Title:** Nasal symptoms among residents in moldy housing

Author: Ruoppi, P. I.; Husman, T. M.; Reiman, M. H.; Nuutinen, J.; Hyvarinen, A. M.; Nevalainen, A. I.

Journal: Scandinavian Journal of Work Environment & Health Volume: 29 Issue: 6 Pages: 461-467

- **SBS**

77. **Title:** Assessment of indoor air problems at work with a questionnaire

Author: Reijula, K.; Sundman-Digert, C.

Journal: Occupational and Environmental Medicine Volume: 61 Issue: 1 Pages: 33-38

78. **Title:** Significance of humidity and temperature on skin and upper airway symptoms

Author: Reinikainen, L. M.; Jaakkola, J. J. K.

Journal: Indoor Air Volume: 13 Issue: 4 Pages: 344-352

79. **Title:** Prevalence of respiratory symptoms among female flight attendants and teachers

Author: Whelan, E. A.; Lawson, C. C.; Grajewski, B.; Petersen, M. R.; Pinkerton, L. E.; Ward, E. M.; Schnorr, T. M.

Journal: Occupational and Environmental Medicine Volume: 60 Issue: 12 Pages: 929-934

80. **Title:** Psychosocial work environment and indoor air problems: a questionnaire as a means of problem diagnosis

Author: Lahtinen, M.; Sundman-Digert, C.; Reijula, K.

Journal: Occupational and Environmental Medicine Volume: 61 Issue: 2 Pages: 143-149

81. **Title:** Sick building syndrome

Author: Burge, P. S.

Journal: Occupational and Environmental Medicine Volume: 61 Issue: 2 Pages: 185-190

82. **Title:** Identification of responsible volatile chemicals that induce hypersensitive reactions to multiple chemical sensitivity patients

Author: Shinohara, N.; Mizukoshi, A.; Yanagisawa, Y.

Journal: Journal of Exposure Analysis and Environmental Epidemiology Volume: 14 Issue: 1 Pages: 84-91

83. **Title:** Decreased respiratory symptoms after intervention in artificially ventilated offices in Sao Paulo, Brazil
Author: Graudenz, G. S.; Kalil, J.; Saldiva, P. H.; Latorre, M. D.; Morato-Castro, F. F.
Journal: Chest Volume: 125 Issue: 1 Pages: 326-329
84. **Title:** Eye irritation and environmental factors in the office environment - hypotheses, causes and a physiological model
Author: Wolkoff, P.; Skov, P.; Franck, C.; Petersen, L. N.
Journal: Scandinavian Journal of Work Environment & Health Volume: 29 Issue: 6 Pages: 411-430
85. **Title:** The effect of cleaning on dust and the health of office workers - An intervention study
Author: Skulberg, K. R.; Skyberg, K.; Kruse, K.; Eduard, W.; Djupesland, P.; Levy, F.; Kjuus, H.
Journal: Epidemiology Volume: 15 Issue: 1 Pages: 71-78
86. **Title:** On the study of a sick building: the case of Athens Air Traffic Control Tower
Author: Assimakopoulos, V. D.; Helmis, C. G.
Journal: Energy and Buildings Volume: 36 Issue: 1 Pages: 15-22
87. **Title:** Comparison of risk factor profiles concerning self-reported skin complaints and objectively determined skin symptoms in German office workers
Author: Brasche, S.; Bullinger, M.; Schwab, R.; Gebhardt, H.; Herzog, V.; Bischof, W.
Journal: Indoor Air Volume: 14 Issue: 2 Pages: 137-143
88. **Title:** Objective recognition of cough sound as biomarker for aerial pollutants
Author: Van Hirtum, A.; Berckmans, D.
Journal: Indoor Air Volume: 14 Issue: 1 Pages: 10-15
89. **Title:** Class separation of buildings with high and low prevalence of SBS by principal component analysis
Author: Pommer, L.; Fick, J.; Sundell, J.; Nilsson, C.; Sjostrom, M.; Stenberg, B.; Andersson, B.
Journal: Indoor Air Volume: 14 Issue: 1 Pages: 16-23
90. **Title:** The Stockholm Indoor Environment Questionnaire: a sociologically based tool for the assessment of indoor environment and health in dwellings
Author: Engvall, K.; Norrby, C.; Sandstedt, E.
Journal: Indoor Air Volume: 14 Issue: 1 Pages: 24-33

III-3. Populations sensibles

- **Enfants**

91. **Title:** Symptoms of asthma: Comparison of a parent-completed retrospective questionnaire with a prospective daily symptom diary
Author: Hensley, M. J.; Chalmers, A.; Clover, K.; Gibson, P. G.; Toneguzzi, R.; Lewis, P. R.
Journal: Pediatric Pulmonology Volume: 36 Issue: 6 Pages: 509-513
92. **Title:** Residential arsenic and lead levels in an agricultural community with a history of lead arsenate use
Author: Wolz, S.; Fenske, R. A.; Simcox, N. J.; Palcisko, G.; Kissel, J. C.
Journal: Environmental Research Volume: 93 Issue: 3 Pages: 293-300
93. **Title:** Effect of indoor environmental factors on development of atopic symptoms in children followed up to 4 years of age
Author: Gustafsson, D.; Andersson, K.
Journal: Paediatric and Perinatal Epidemiology Volume: 18 Issue: 1 Pages: 17-25

94. **Title:** Epidemiologic research on lead levels in children and indoor air in Ciudad Juarez, Chihuahua, related with a smelter in El Paso, Texas
Author: Ordonez, B. R.; Romero, L. R.; Mora, R.
Journal: Salud Publica De Mexico Volume: 45 Pages: S281-S295
95. **Title:** Infant otitis media and the use of secondary heating sources
Author: Pettigrew, M. M.; Gent, J. F.; Triche, E. W.; Belanger, K. D.; Bracken, M. B.; Leaderer, B. P.
Journal: Epidemiology Volume: 15 Issue: 1 Pages: 13-20
96. **Title:** Children symptoms before and after knowing about an indoor fungal contamination
Author: Handal, G.; Leiner, M. A.; Cabrera, M.; Straus, D. C.
Journal: Indoor Air Volume: 14 Issue: 2 Pages: 87-91
97. **Title:** Building characteristics, indoor air quality and recurrent wheezing in very young children (BAMSE)
Author: Emenius, G.; Svartengren, M.; Korsgaard, J.; Nordvall, L.; Pershagen, G.; Wickman, M.
Journal: Indoor Air Volume: 14 Issue: 1 Pages: 34-42
98. **Title:** Molds in floor dust and building-related symptoms in adolescent school children
Author: Meyer, H. W.; Wurtz, H.; Suadicani, P.; Valbjorn, O.; Sigsgaard, T.; Gyntelberg, F.; Damib
Journal: Indoor Air Volume: 14 Issue: 1 Pages: 65-72



IV- EVALUATION DES RISQUES

IV-1 Expologie

- Biomarqueurs

99. **Title:** Assessment of environmental tobacco smoke exposure: urinary cotinine concentrations in children are strongly associated with the house dust concentrations of nicotine at home

Author: Willers, S.; Hein, H. O.; Jansson, L.

Journal: Indoor Air Volume: 14 Issue: 2 Pages: 83-86

- Evaluation de l'exposition globale : budget espace-temps

100. **Title:** Exposure of population and microenvironmental distributions of volatile organic compound concentrations in the EXPOLIS study

Author: Saarela, K.; Tirkkonen, T.; Laine-Ylijoki, J.; Jurvelin, J.; Nieuwenhuijsen, M. J.; Jantunen, M.

Journal: Atmospheric Environment Volume: 37 Issue: 39-40 Pages: 5563-5575

101. **Title:** Personal exposures to particles and their relationships with personal activities for chronic obstructive pulmonary disease patients living in Boston

Author: Rojas-Bracho, L.; Suh, H. H.; Catalano, P. J.; Koutrakis, P.

Journal: Journal of the Air & Waste Management Association, Volume: 54 Issue: 2 Pages: 207-217

102. **Title:** Comparison of personal, indoor, and outdoor exposures to hazardous air pollutants in three urban communities

Author: Sexton, K.; Adgate, J. L.; Ramachandran, G.; Pratt, G. C.; Mongin, S. J.; Stock, T. H.; Morandi, M. T.

Journal: Environmental Science & Technology Volume: 38 Issue: 2 Pages: 423-430

103. **Title:** Developing meaningful cohorts for human exposure models

Author: Graham, S. E.; McCurdy, T.

Journal: Journal of Exposure Analysis and Environmental Epidemiology Volume: 14 Issue: 1 Pages: 23-43

IV-2 Evaluation des risques

104. **Title:** Risk assessment of exposure to volatile organic compounds in different indoor environments

Author: Guo, H.; Lee, S. C.; Chan, L. Y.; Li, W. M.

Journal: Environmental Research, Volume: 94, Issue: 1, Pages: 57-66

105. **Title:** Exposure to secondhand smoke and excess lung cancer mortality risk among workers in the "5 B's": bars, bowling alleys, billiard halls, betting establishments, and bingo parlours

Author: Siegel, M.; Skeer, M.

Journal: Tobacco Control Volume: 12 Issue: 3 Pages: 333-338

V- GESTION

INDICE de QAI

106. **Title:** The link between symptoms of off ice building occupants and in-office air pollution: the Indoor Air Pollution Index

Author: Sofuoglu, S. C.; Moschandreas, D. J.

Journal: Indoor Air Volume: 13 Issue: 4 Pages: 332-343

107. **Title:** Biomarkers and other substitute measures in indoor air sciences

Author: Molhave, L.

Journal: Indoor Air Volume: 13 Issue: 4 Pages: 369-370

108. **Title:** Are we ready for indoor air pollution indices?

Author: Wolkoff, P.

Journal: Indoor Air Volume: 13 Issue: 4 Pages: 371-372

109. **Title:** What Indices of indoor air pollution can - and can't - do

Author: Moschandreas, D. J.; Sofuoglu, S. C.

Journal: Indoor Air Volume: 13 Issue: 4 Pages: 375-376

110. **Title:** Formulation and validation of an empirical moisture damage index

Author: Haverinen, U.; Vahteristo, M.; Pekkanen, J.; Husman, T.; Nevalainen, A.; Moschandreas, D.

Journal: Environmental Modeling & Assessment Volume: 8 Issue: 4 Pages: 303-309

111. **Title:** Indoor air quality and energy performance of air-conditioned office buildings in Singapore

Author: Sekhar, S. C.; Tham, K. W.; Cheong, K. W.

Journal: Indoor Air Volume: 13 Issue: 4 Pages: 315-331

112. **Title:** Electrostatic control of domestic dust and allergen particles for improved air quality

Author: Gaunt, L. F.; Jerrim, K. L.; Hughes, J. F.

Journal: Powder Technology Volume: 135 Pages: 354-360

113. **Title:** Abatement of cockroach allergens (Bla g 1 and Bla g 2) in low-income, urban housing: Month 12 continuation results

Author: Arbes, S. J.; Sever, M.; Mehta, J.; Gore, J. C.; Schal, C.; Vaughn, B.; Mitchell, H.; Zeldin, D. C.

Journal: Journal of Allergy and Clinical Immunology Volume: 113 Issue: 1 Pages: 109-114

VI- ARTICLES GENERAUX SUR LA THEMATIQUE

114. **Title:** "Can't stop the boy": Philip Morris' use of Healthy Buildings International to prevent workplace smoking bans in Australia

Author: Chapman, S.; Penman, A.

Journal: Tobacco Control Volume: 12 Pages: 107-112

115. **Title:** Effects of steady-state noise and temperature conditions on environmental perception and acceptability

Author: Pellerin, N.; Candas, V.

Journal: Indoor Air Volume: 14 Issue: 2 Pages: 129-136

BILAN DES ARTICLES DE SYNTHESE (0)

Aucun article de synthèse dans cette sélection