



Recherche Santé Environnement Intérieur

Veille scientifique sur le thème *Santé Environnement intérieur*

2005 – 1^{er} trimestre

162 articles ont été répertoriés pendant la période du 1^{er} février 2005 au 30 avril 2005.

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. **Titre** : Estimation of Rn-222 release from the phosphogypsum board used in housing panels.

Auteur(s) : Jang, M., C. S. Kang, et al. (2005).

Journal : Journal of Environmental Radioactivity 80(2): 153-160.

2. **Titre** : Activity size distributions of some naturally occurring radionuclides Be-7, K-40 and Pb-212 in indoor and outdoor environments.

Auteur(s) : Mohamed, A. (2005).

Journal : Applied Radiation and Isotopes 62(5): 751-757.

3. **Titre** : Interlaboratory comparison of three methods for the determination of the radon exhalation rate of building materials.

Auteur(s) : de Jong, P; van Dijk, W de Vries, W ; van der Graaf, E R. Roelofs, L M. M.

Journal : Health Physics. 88(1):59-64, January 2005.

I-2. COV, COSEMI-VOLATILS

- COV

4. **Titre** : Study of effect of adsorptive building material on formaldehyde concentrations: development of measuring methods and modeling of adsorption phenomena.

Auteur(s) : Ataka, Y., S. Kato, et al. (2004).

Journal : Indoor Air 14: 51-64.

5. **Titre** : Detection of single and mixed VOCs by smell and by sensory irritation.

Auteur(s) : Cometto-Muniz, J. E., W. S. Cain, et al. (2004).

Journal : Indoor Air 14: 108-117.

6. **Titre** : Development of a highly sensitive method for determining atmospheric carbonyl compounds by passive sampling and application of the method to a survey of indoor air.

Auteur(s) : Fusaya, M., T. Ohura, et al. (2004).

Journal : International Journal of Environmental Analytical Chemistry 84(14-15): 1035-1044.

7. **Titre** : Use of solid-phase microextraction for the detection of acetic acid by ion-trap gas chromatography-mass spectrometry and application to indoor levels in museums.

Auteur(s) : Godoi, A. F. L., L. Van Vaeck, et al. (2005).

Journal : Journal of Chromatography A 1067(1-2): 331-336.

8. **Titre** : Partition coefficients of selected environmentally important volatile organic compounds determined by gas-liquid chromatography with polydimethylsiloxane stationary phase.

Auteur(s) : Kloskowski, A., W. Chrzanowski, et al. (2005).

Journal : Journal of Chemical Thermodynamics 37(1): 21-29.

9. **Titre** : Gas chromatographic-mass spectroscopic determination of benzene in indoor air during the use of biomass fuels in cooking time.

Auteur(s) : Sinha, S. N., P. K. Kulkarni, et al. (2005)

Journal : Journal of Chromatography A 1065(2): 315-319.

10. **Titre** : Portable system for near-real time measurement of gaseous formaldehyde by means of parallel scrubber stopped-flow absorptiometry.
Auteur(s) : Toda, K., K. I. Yoshioka, et al. (2005)
Journal : Analytica Chimica Acta 531(1): 41-49.
11. **Titre** : Determination of methoxyphenols in ambient atmospheric particulate matter: Tracers for wood combustion
Auteur(s) : Simpson, C. D., M. Paulsen, et al. (2005)
Journal : Environmental Science & Technology 39(2): 631-637.
12. **Titre** : Stability of workroom air volatile organic compounds on solid adsorbents for thermal desorption gas chromatography
Auteur(s) : Volden, J., Y. Thomassen, et al. (2005)
Journal : Analytica Chimica Acta 530(2): 263-271.
13. **Titre** : Dependence on sampling rates of Radiello((R)) diffusion sampler for BTEX measurements with the concentration level and exposure time.
Auteur(s) : Pennequin-Cardinal, A., H. Plaisance, et al. (2005)
Journal : Talanta 65(5): 1233-1240.
14. **Titre** : Selectivity enhancement of metal oxide gas sensors using a micromachined gas chromatographic column.
Auteur(s) : Zampolli, S., I. Elmi, et al. (2005)
Journal : Sensors and Actuators B-Chemical 105(2): 400-406.
15. **Titre** : An experimental comparison of a kinetic model for the reaction of alpha-pinene and Delta(3)-carene with ozone and nitrogen oxides.
Auteur(s) : Pommer, L., J. Fick, et al. (2004)
Journal : Indoor Air 14: 75-83.
- **Matériaux**
16. **Titre** : An inverse approach for estimating the initial distribution of volatile organic compounds in dry building material.
Auteur(s) : Li, F. and J. L. Niu (2005)
Journal : Atmospheric Environment 39(8): 1447-1455.
17. **Titre** : Emissions from thermal insulations - Part 1: development and characteristics of the test apparatus.
Auteur(s) : Virta, J., M. Koivula, et al. (2005)
Journal : Building and Environment 40(6): 797-802.
- **Semi-volatils**
18. **Titre** : Occurrence of organotin compounds in house dust in Berlin (Germany).
Auteur(s) : Fromme, H., A. Mattulat, et al. (2005).
Journal : Chemosphere 58(10): 1377-1383.
19. **Titre** : A simple and fast micromethod for the analysis of polychlorinated biphenyls in air by sorbent enrichment and ultrasound-assisted solvent extraction.
Auteur(s) : Barro, R., S. Ares, et al. (2005).
Journal : Analytical and Bioanalytical Chemistry 381(1): 255-260.
20. **Titre** : Polybrominated diphenyl ethers (PBDEs) in US computers and domestic carpet vacuuming: Possible sources of human exposure.
Auteur(s) : Schechter, A., O. Papke, et al. (2005)
Journal : Journal of Toxicology and Environmental Health-Part a-Current Issues 68(7): 501-513.

21. **Titre** : Novel flame retardants, 1,2-bis(2,4,6-tribromophenoxy)ethane and 2,3,4,5,6-pentabromoethylbenzene, in United States' environmental samples.
Auteur(s) : Hoh, E., L. Y. Zhu, et al. (2005)
Journal : Environmental Science & Technology 39(8): 2472-2477.
22. **Titre** : Direct quantitative analysis of phthalate esters as micro-contaminants in cleanroom air and wafer surfaces by auto-thermal desorption-gas chromatography-mass spectrometry.
Auteur(s) : Kang, Y. H., W. Den, et al. (2005)
Journal : Journal of Chromatography A 1070(1-2): 137-145.
23. **Titre** : Polybrominated diphenyl ethers in house dust and clothes dryer lint
Auteur(s) : Stapleton, H. M., N. G. Dodder, et al. (2005).
Journal : Environmental Science & Technology 39(4): 925-931

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24. **Titre** : Plastics additives in the indoor environment - flame retardants and plasticizers
Auteur(s) : Wensing, M., E. Uhde, et al. (2005)
Journal : Science of the Total Environment 339(1-3): 19-40.

I-3. Particules

25. **Titre** : Characterization of indoor sources of fine and ultrafine particles: a study conducted in a full-scale chamber.
Auteur(s) : Afshari, A., U. Matson, et al. (2005).
Journal : Indoor Air 15(2): 141-150.

I-4. Biocontaminants

26. **Titre** : Seasonal variation in micromycetes of Moscow dwellings.
Auteur(s) : Antropova, A. B., V. L. Mokeeva, et al. (2004).
Journal : Mikologiya I Fitopatologiya 38(5): 32-41.
27. **Titre** : Detection of airborne Stachybotrys chartarum macrocyclic trichothecene mycotoxins on particulates smaller than conidia.
Auteur(s) : Brasel, T. L., D. R. Douglas, et al. (2005).
Journal : Applied and Environmental Microbiology 71(1): 114-122.
28. **Titre** : A global indicator as a tool to follow airborne molecular contamination in a controlled environment.
Auteur(s) : Cariou, S., J. M. Guillot, et al. (2005).
Journal : Analytical and Bioanalytical Chemistry 381(4): 850-853.
29. **Titre** : A simple multiplex polymerase chain reaction assay for the identification of four environmentally relevant fungi contaminants.
Auteur(s) : Dean, T. R., B. Roop, et al. (2005)
Journal : Journal of Microbiological Methods 61(1): 9-16.
30. **Titre** : Determination of mould concentrations in homes and schools in Baden-Wurttemberg.
Auteur(s) : Gabrio, T., S. Broser, et al. (2004).
Journal : Gesundheitswesen 66(8-9): 528-535.
31. **Titre** : Fungi in the air of selected social welfare homes in the Malopolskie and Podlaskie provinces - a comparative study.
Auteur(s) : Gniadek, A., A. B. Macura, et al. (2005).
Journal : International Biodeterioration & Biodegradation 55(2): 85-91.

32. **Titre** : Microbial volatile organic compounds as indicators of fungi. Can an electronic nose detect fungi in indoor environments?
Auteur(s) : Kuske, M., A. C. Romain, et al. (2005).
Journal : Building and Environment 40(6): 824-831.
33. **Titre** : Evaluation of home allergen sampling devices.
Auteur(s) : Sercombe, J. K., D. Liu-Brennan, et al. (2005)
Journal : Allergy 60(4): 515-520.
34. **Titre** : A regional comparison of mold spore concentrations outdoors and inside "clean" and "mold contaminated" southern California buildings
Auteur(s) : Baxter, D. M., J. L. Perkins, et al. (2005).
Journal : Journal of Occupational and Environmental Hygiene 2(1): 8-18.
35. **Titre** : Is indoor "mold madness" upon us?
Auteur(s) : Zacharisen, M. C. and J. N. Fink (2005)
Journal : Annals of Allergy Asthma & Immunology 94(1): 12-13.
- ARTICLE DE SYNTHÈSE**
36. **Titre** : Filamentous microorganisms and their fragments in indoor air
Auteur(s) : Gorny, R. L. (2004)
Journal : A review." Annals of Agricultural and Environmental Medicine 11(2): 185-197.

I-5. Pesticides

I-6. Métaux lourds

37. **Titre** : Can metal concentrations in indoor dust be predicted from soil geochemistry?
Auteur(s) : Rasmussen, P. E. (2004).
Journal : Canadian Journal of Analytical Sciences and Spectroscopy 49(3): 166-174.
38. **Titre** : Heavy metal contents of indoor airdust particulate matter from Adapazari, Turkey.
Auteur(s) : Dundar, M. S. and F. Ozdemir (2005)
Journal : Fresenius Environmental Bulletin 14(3): 189-193.
39. **Titre** : Residential dust lead loading immediately after intervention in the HUD lead hazard control grant program.
Auteur(s) : Dixon, S. L., J. W. Wilson, et al. (2004)
Journal : Journal of Occupational and Environmental Hygiene 1(11): 716-724.

I-7. Fumée de tabac environnementale

40. **Titre** : Environmental tobacco smoke research published in the journal Indoor and Built Environment and associations with the tobacco industry.
Auteur(s) : Game, D., M. Watson, et al. (2005).
Journal : Lancet 365(9461): 804-809.
41. **Titre** : Investigating cigarette-smoke indoor pollution in a controlled environment.
Auteur(s) : Hallos, C. H., V. D. Assimakopoulos, et al. (2005)
Journal : Science of the Total Environment 337(1-3): 183-190.
42. **Titre** : Environmental tobacco smoke exposure in public places of European cities
Auteur(s) : M Nebot, M J López, G Gorini, M Neuberger, S Axelsson, M Pilali, C Fonseca, K Abdennbi, A Hackshaw, H Moshammer, A M Laurent, J Salles, M Georgouli, M C Fondelli, E Serrahima, F Centrich and S K Hammond
Journal : Tobacco Control 2005;14:60-63
43. **Titre** : A study of reactive oxygen species in mainstream of cigarette
Auteur(s) : Huang, M. F., W. L. Lin, et al. (2005).
Journal : Indoor Air 15(2): 135-140.



II- LIEUX DE VIE

II-1. Habitat privé

- Caractéristiques du bâti

44. **Titre** : Building characteristics affect the risk of allergy development.

Auteur(s) : Hesselmar, B., B. Aberg, et al. (2005).

Journal : Pediatric Allergy and Immunology 16(2): 126-131.

- Système de chauffage

45. **Titre** : Room chamber assessment of the pollutant emission properties of (nominally) low-emission unflued gas heaters.

Auteur(s) : Brown, S. K., K. J. Mahoney, et al. (2004).

Journal : Indoor Air 14: 84-91.

II-2. Transports

46. **Titre** : Maximum exposure levels for xylene, formaldehyde and acetaldehyde in cars.

Auteur(s) : Schupp, T., H. M. Bolt, et al. (2005)

Journal : Toxicology 206(3): 461-470.

II-3. Autres lieux de vie

- Ecoles

47. **Titre** : Comparison of predicted and derived measures of volatile organic compounds inside four new relocatable classrooms.

Auteur(s) : Hodgson, A. T., D. G. Shendell, et al. (2004).

Journal : Indoor Air 14: 135-144.

48. **Titre** : Indoor air pollutants: Limited-resource households and child care facilities.

Auteur(s) : Laquatra, J., L. E. Maxwell, et al. (2005)

Journal : Journal of Environmental Health 67(7): 39-43.

49. **Titre** : Statistical analysis of parameters influencing the relationship between outdoor and indoor air quality in schools

Auteur(s) : Poupard, O., P. Blondeau, et al. (2005)

Journal : Atmospheric Environment 39(11): 2071-2080.

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50. **Titre** : Indoor allergens in settled school dust: a review of findings and significant factors.

Auteur(s) : Tranter, D. C. (2005)

Journal : Clinical and Experimental Allergy 35(2): 126-136.

- Lieux publics

51. **Titre** : An evidential example of airborne bacteria in a crowded, underground public concourse in Tokyo.

Auteur(s) : Seino, K., T. Takano, et al. (2005)

Journal : Atmospheric Environment 39(2): 337-341.

- **Piscines**

52. **Titre** : Pathways of trihalomethane uptake in swimming pools.
Auteur(s) : Erdinger, L., K. P. Kuhn, et al. (2004).
Journal : International Journal of Hygiene and Environmental Health 207(6): 571-575.

- **Hôpitaux**

53. **Titre** : Aspergillus surveillance project at a large tertiary-care hospital.
Auteur(s) : Curtis, L., S. Cali, et al. (2005).
Journal : Journal of Hospital Infection 59(3): 188-196.

- **Musées**

54. **Titre** : Hydrogen sulfide and carbonyl sulfide in the museum environment - Part 1.
Auteur(s) : Ankersmit, H. A., N. H. Tennent, et al. (2005).
Journal : Atmospheric Environment 39(4): 695-707.

II-4. Ventilation

55. **Titre** : Impact of various air exchange rates on the levels of environmental tobacco smoke (ETS) components.
Auteur(s) : Kotzias, D., O. Geiss, et al. (2004)
Journal : Fresenius Environmental Bulletin 13(12B): 1536-1549.

56. **Titre** : Natural ventilation performance of a double-skin facade with a solar chimney.
Auteur(s) : Ding, W. T., Y. J. Hasemi, et al. (2005).
Journal : Energy and Buildings 37(4): 411-418.

57. **Titre** : Comparison of performances of displacement and mixing ventilations. Part I: thermal comfort.
Auteur(s) : Lin, Z., T. T. Chow, et al. (2005).
Journal : International Journal of Refrigeration-Revue Internationale Du Froid 28(2): 276-287.

58. **Titre** : Comparison of performances of displacement and mixing ventilations. Part II: indoor air quality.
Auteur(s) : Lin, Z., T. T. Chow, et al. (2005)
Journal : International Journal of Refrigeration-Revue Internationale Du Froid 28(2): 288-305.

59. **Titre** : Demand Controlled Systems With Fuzzy Controllers to Maintain Indoor Air Quality - An Energy Saving Approach
Auteur(s) : SA Grace, D Mohan Lal and C Sharmeela
Journal : The International Journal of Ventilation Volume 3: June 2004 Issue 1

60. **Titre** : Analysis of Contaminant Removal Efficiency Assessment in a Ventilated Room
Auteur(s) : Ake Ahiman Akoua, Francis Allard, Claudine Beghein, Bernard Collignan
Journal : The International Journal of Ventilation Volume 3 September 2004 Issue 2

61. **Titre** : Controllable Background Ventilation in Dwellings - The Equivalent Opening Area Needed to Achieve Appropriate Indoor Air Quality
Auteur(s) : I Ridley, J Fox, and T Oreszczyn
Journal : The International Journal of Ventilation Volume 3 September 2004 Issue 2

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62. **Titre** : A Review of Evidence Linking Ventilation Rates in Dwellings and Respiratory Health - A Focus on House Dust Mites and Mould
Auteur(s) : M Davies, M Ucci, M McCarthy, T Oreszczyn, I Ridley, D Mumovic, J Singh and S Pretlove
Journal : The International Journal of Ventilation Volume 3 September 2004 Issue 2

II-5. Modélisation

63. **Titre** : Experimental and numerical study on indoor temperature and humidity with free water surface.
Auteur(s) : Liu, J., Y. Aizawa, et al. (2005)
Journal : Energy and Buildings 37(4): 383-388.
64. **Titre** : An attic-interior infiltration and interzone transport model of a house
Auteur(s) : Walker, I. S., T. W. Forest, et al. (2005)
Journal : Building and Environment 40(5): 701-718.
65. **Titre** : Comparison of the modelling and the experimental results on concentrations of ultra-fine particles indoors.
Auteur(s) : Matson, U. (2005)
Journal : Building and Environment 40(7): 996-1002.

II-6. Air extérieur – Air intérieur

66. **Titre** : Should people be physically active outdoors on smog alert days?
Auteur(s) : Campbell, M. E., Q. Li, et al. (2005).
Journal : Canadian Journal of Public Health-Revue Canadienne De Sante Publique 96(1): 24-28.
67. **Titre** : Measurements of fine and ultrafine particles in Helsinki: connection between outdoor and indoor air quality.
Auteur(s) : Hameri, K., T. Hussein, et al. (2004)
Journal : Boreal Environment Research 9(6): 459-467.
68. **Titre** : Volatility of indoor and outdoor ultrafine particulate matter near a freeway.
Auteur(s) : Kuhn, T., M. Krudysz, et al. (2005)
Journal : Journal of Aerosol Science 36(3): 291-302.
69. **Titre** : Indoor/outdoor relationships of carbon monoxide and oxides of nitrogen in domestic homes with roadside, urban and rural locations in a central Indian region
Auteur(s) : Lawrence, A. J., A. Mask, et al. (2005)
Journal : Indoor Air 15(2): 76-82.
70. **Titre** : Vertical distribution of PAHs in the indoor and outdoor PM_{2.5} in Guangzhou, China
Auteur(s) : Li, C. L., J. M. Fu, et al. (2005)
Journal : Building and Environment 40(3): 329-341.
71. **Titre** : Indoor-outdoor relationships and infiltration behavior of elemental components of outdoor PM_{2.5} for Boston-area homes.
Auteur(s) : Long, C. M. and J. A. Sarnat (2004).
Journal : Aerosol Science and Technology 38: 91-104.
72. **Titre** : Use of personal-indoor-outdoor sulfur concentrations to estimate the infiltration factor and outdoor exposure factor for individual homes and persons.
Auteur(s) : Wallace, L. and R. Williams (2005)
Journal : Environmental Science & Technology 39(6): 1707-1714.
73. **Titre** : Relationship of Indoor, Outdoor and Personal Air (RIOPA) Study: Study design, methods and quality assurance/control results.
Auteur(s) : Weisel, C. P., J. F. Zhang, et al. (2005)
Journal : Journal of Exposure Analysis and Environmental Epidemiology 15(2): 123-137.
74. **Titre** : Penetration of freeway ultrafine particles into indoor environments.
Auteur(s) : Zhu, Y. F., W. C. Hinds, et al. (2005)
Journal : Journal of Aerosol Science 36(3): 303-322.



III- EFFETS SANITAIRES

III-1. Effets chez l'animal – Toxicologie expérimentale

75. **Titre** : Dose-dependent allergic responses to an extract of *Penicillium chrysogenum* in BALB/c mice.
Auteur(s) : Chung, Y. J., N. H. Coates, et al. (2005).
Journal : *Toxicology* 209(1): 77-89.
76. **Titre** : Toxicokinetics of BDE 47 in female mice: Effect of dose, route of exposure, and time.
Auteur(s) : Staskal, D. F., J. J. Diliberto, et al. (2005).
Journal : *Toxicological Sciences* 83(2): 215-223.
77. **Titre** : Interactions between *Streptomyces californicus* and *Stachybotrys chartarum* can induce apoptosis and cell cycle arrest in mouse RAW264.7 macrophages.
Auteur(s) : Penttinen, P., J. Pelkonen, et al. (2005)
Journal : *Toxicology and Applied Pharmacology* 202(3): 278-288.
78. **Titre** : Analysis of the structure and allergenicity of recombinant pro- and mature Der p 1 and Der f 1: Major conformational IgE epitopes blocked by prodomains.
Auteur(s) : Takai, T., T. Kato, et al. (2005)
Journal : *Journal of Allergy and Clinical Immunology* 115(3): 555-563.
79. **Titre** : Immunological characterization of a recombinant tropomyosin from a new indoor source, *Lepisma saccharina*.
Auteur(s) : Barletta, B., C. Butteroni, et al. (2005)
Journal : *Clinical and Experimental Allergy* 35(4): 483-489.

III-2. Effets chez l'homme

80. **Titre** : Symptoms of Asthma and the Home Environment. The ISAAC I and III Cross-Sectional Surveys in Munster, Germany
Auteur(s) : Behrens, T., W. Maziak, et al.
Journal : *International Archives of Allergy and Immunology*.
81. **Titre** : Investigations into the indoor environment and respiratory health in Boston public housing.
Auteur(s) : Hynes HP, Brugge D, Osgood ND, Snell J, Vallarino J, Spengler J.
Journal : *Reviews on Environmental Health* 2004 Jul-Dec;19(3-4):271-89.

ARTICLE DE SYNTHÈSE

82. **Titre** : Indoor air quality and human health - Truth vs mass hysteria.
Auteur(s) : Chang, C. and M. E. Gershwin (2004).
Journal : *Clinical Reviews in Allergy & Immunology* 27(3): 219-239.

- **Radon**

83. **Titre** : Estimated risks of radon-induced lung cancer for different exposure profiles based on the new EPA model.
Auteur(s) : Chen, J. (2005).
Journal : *Health Physics* 88(4): 323-333.
84. **Titre** : Radon in homes and risk of lung cancer: collaborative analysis of individual data from 13 European case-control studies.
Auteur(s) : Darby, S., D. Hill, et al. (2005).
Journal : *British Medical Journal* 330(7485): 223-226.

85. **Titre** : Residential radon and risk of lung cancer - A combined analysis of 7 north American case-control studies.

Auteur(s) : Krewski, D., J. H. Lubin, et al. (2005).

Journal : Epidemiology 16(2): 137-145.

86. **Titre** : Residential radon exposure, diet and lung cancer: A case-control study in a Mediterranean region.

Auteur(s) : Bochicchio, F., F. Forastiere, et al. (2005)

Journal : International Journal of Cancer 114(6): 983-991.

87. **Titre** : Examining the relationship between lung cancer and radon in small areas across Scotland.

Auteur(s) : Pearce, J. and P. Boyle (2005)

Journal : Health & Place 11(3): 275-282.

88. **Titre** : Increased lung cancer risk due to residential radon in a pooled and extended analysis of studies in germany.

Auteur(s) : Wichmann, H Erich ; Rosario, Angelika Schaffrath; Heid, Iris M.; Kreuzer, Michaela; Heinrich, Joachim; Kreienbrock, Lothar

Journal : Health Physics. 88(1):71-79, January 2005.

- **COV**

89. **Titre** : The effect on human eye blink frequency of exposure to limonene oxidation products and methacrolein.

Auteur(s) : Nojgaard, J. K., K. B. Christensen, et al. (2005)

Journal : Toxicology Letters 156(2): 241-251.

- **Biocontaminants**

90. **Titre** : Characterization of a population presenting with suspected mold-related health effects.

Auteur(s) : Bobbitt, R. C., M. S. Crandall, et al. (2005).

Journal : Annals of Allergy Asthma & Immunology 94(1): 39-44.

91. **Titre** : Inner City Asthma Study: Relationships among sensitivity, allergen exposure, and asthma morbidity.

Auteur(s) : Gruchalla, R. S., J. Pongracic, et al. (2005).

Journal : Journal of Allergy and Clinical Immunology 115(3): 478-485.

92. **Titre** : Respiratory allergy to the indoor ant (Monomorium pharaonis) not related to sting allergy.

Auteur(s) : Kim, C. W., S. Y. Choi, et al. (2005).

Journal : Annals of Allergy Asthma & Immunology 94(2): 301-306.

93. **Titre** : Nasal mucosal histamine reactivity among teachers six years after working in a moisture-damaged school.

Auteur(s) : Rudblad, S., K. Andersson, et al. (2005)

Journal : Scandinavian Journal of Work Environment & Health 31(1): 52-58.

94. **Titre** : A time-series study of sick building syndrome: chronic, biotoxin-associated illness from exposure to water-damaged buildings.

Auteur(s) : Shoemaker, R. C. and D. E. House (2005)

Journal : Neurotoxicology and Teratology 27(1): 29-46.

95. **Titre** : Variation in total and specific IgE: Effects of ethnicity and socioeconomic status.

Auteur(s) : Litonjua, A. A., J. C. Celedon, et al. (2005)

Journal : Journal of Allergy and Clinical Immunology 115(4): 751-757.

96. **Titre** : Pet ownership and exposure to indoor allergens.

Auteur(s) : van der Wouden, J. C. and R. M. D. Bernsen (2005).

Journal : Archives of Pediatrics & Adolescent Medicine 159(4): 401-401.

Editorial

97. **Titre** : Predictors of indoor exposure to mouse allergen in urban and suburban homes in Boston.

Auteur(s) : Phipatanakul, W., D. R. Gold, et al. (2005)

Journal : Allergy 60(5): 697-701.

98. **Titre** : Does the triad of fungi, bacteria and exposure to moisture have an impact on chronic hyperplastic sinusitis?

Auteur(s) : Kostamo, K., M. Richardson, et al. (2005)

Journal : Indoor Air 15(2): 112-119.

ARTICLE DE SYNTHÈSE

99. **Titre** : Health effects of indoor fungi.

Auteur(s) : Portnoy, J. M., K. Kwak, et al. (2005)

Journal : Annals of Allergy Asthma & Immunology 94(3): 313-320.

ARTICLE DE SYNTHÈSE

100. **Titre** : Allergy and infection: understanding their relationship

Auteur(s) : Custovic, A., C. Murray, et al. (2005)

Journal : Allergy 60: 10-13.

- **SBS**

101. **Titre** : Aerobiology as a tool to help in episodes of occupational allergy in work places.

Auteur(s) : Carinanos, P., P. Alcazar, et al. (2004).

Journal : Journal of Investigational Allergology and Clinical Immunology 14(4): 300-308.

102. **Titre** : Sick building syndrome and perceived indoor environment in relation to energy saving by reduced ventilation flow during heating season: a 1 year intervention study in dwellings.

Auteur(s) : Engvall, K., P. Wickman, et al. (2005).

Journal : Indoor Air 15(2): 120-126.

103. **Titre** : Mucous membrane and lower respiratory building related symptoms in relation to indoor carbon dioxide concentrations in the 100-building BASE dataset.

Auteur(s) : Erdmann, C. A. and M. G. Apte (2004).

Journal : Indoor Air 14: 127-134.

104. **Titre** : Worker performance and ventilation in a call center: analyses of work performance data for registered nurses.

Auteur(s) : Federspiel, C. C., W. J. Fisk, et al. (2004).

Journal : Indoor Air 14: 41-50.

105. **Titre** : Association of air-conditioning with respiratory symptoms in office workers in tropical climate.

Auteur(s) : Graudenz, G. S., C. H. Oliveira, et al. (2005).

Journal : Indoor Air 15(1): 62-66.

106. **Titre** : Impact of the home indoor environment on adult asthma and rhinitis.

Auteur(s) : Blanc, P. D., M. D. Eisner, et al. (2005)

Journal : Journal of Occupational and Environmental Medicine 47(4): 362-372.

- **Humidité**

107. **Titre** : Insomnia is more common among subjects living in damp buildings

Auteur(s) : Janson, C., D. Norback, et al. (2005)

Journal : Occupational and Environmental Medicine 62(2): 113-118.

108. **Titre** : Respiratory Morbidity in Office Workers in a Water-Damaged Building

Auteur(s) : Jean M. Cox-Ganser, Sandra K. White, Rebecca Jones, Ken Hilsbos, Eileen Storey Paul L. Enright Carol Y. Rao, and Kathleen Kreiss

Journal : Environmental Health Perspectives Volume 113, Number 4, April 2005 485-490

109. **Titre** : Work-related asthma in teachers in Connecticut: association with chronic water damage and fungal growth in schools.

Auteur(s) : Dangman KH, Bracker AL, Storey E.

Journal : Connecticut Medicine 2005 Jan;69(1):9-17.

- **Fumée de tabac environnementale**

110. **Titre** : Extent of exposure to environmental tobacco smoke (ETS) and its dose-response relation to respiratory health among adults - art. no. 13

Auteur(s) : Maziak, W., K. D. Ward, et al. (2005)

Journal : Respiratory Research 6(13): 13-13.

111. **Titre** : Carcinogen specific dosimetry model for passive smokers of various ages.

Auteur(s) : Robinson, R. J. (2005)

Journal : Science of the Total Environment 338(3): 201-212.

III-3. Populations sensibles

- **Enfants**

112. **Titre** : Correlation between inhalant allergen-specific IgE and pulmonary function in children with asthma.

Auteur(s) : Choi, S. Y., M. H. Sohn, et al. (2005).

Journal : Pediatric Pulmonology 39(2): 150-155.

113. **Titre** : Office pediatrics: current issues in lower respiratory infections in children.

Auteur(s) : Klig, J. E. and N. B. Shah (2005)

Journal : Current Opinion in Pediatrics 17(1): 111-118.

114. **Titre** : The effect of pet ownership on the risk of allergic sensitisation and bronchial asthma.

Auteur(s) : Liccardi, G., G. D'Amato, et al. (2005)

Journal : Respiratory Medicine 99(2): 227-233.

115. **Titre** : Day care center characteristics and children's respiratory health.

Auteur(s) : Nafstad, P., J. J. K. Jaakkola, et al. (2005)

Journal : Indoor Air 15(2): 69-75.

116. **Titre** : Relationship between physical, environmental and sociodemographic factors and school performance in primary schoolchildren

Auteur(s) : Ozmert, E. N., K. Yurdakok, et al. (2005).

Journal : Journal of Tropical Pediatrics 51(1): 25-32.

117. **Titre** : Children's exposure to volatile organic compounds as determined by longitudinal measurements in blood.

Auteur(s) : Sexton, K., J. L. Adgate, et al. (2005)

Journal : Environmental Health Perspectives 113(3): 342-349.

118. **Titre** : Pulmonary effects of indoor- and outdoor-generated particles in children with asthma.

Auteur(s) : Koenig, J. Q., T. F. Mar, et al. (2005).

Journal : Environmental Health Perspectives 113(4): 499-503.

119. **Titre** : Home Dampness and Molds, Parental Atopy, and Asthma in Childhood: a Six-year Population-based Cohort Study

Auteur(s) : Jouni J. K. Jaakkola, Bing-Fang Hwang, and Niina Jaakkola

Journal : Environ Health Perspect 113:357-361

120. **Titre** : Lead poisoning in South African children: the hazard is at home.

Auteur(s) : Mathee A, von Schirnding Y, Montgomery M, Rollin H.

Journal : Reviews in Environmental Health 2004 Jul-Dec;19(3-4):347-61.

- **Asthmatiques**

121. **Titre** : Mold sensitization is common amongst patients with severe asthma requiring multiple hospital admissions

Auteur(s) : B Ronan O'Driscoll, Linda C Hopkinson and David W Denning

Journal : BMC Pulmonary Medicine 2005, **5**:4



IV- EVALUATION DES RISQUES

IV-1 Explogie

- Biomarqueurs

122. **Titre** : Chlorpyrifos accumulation patterns for child-accessible surfaces and objects and urinary metabolite excretion by children for 2 weeks after crack-and-crevice application.

Auteur(s) : Hore, P., M. Robson, et al. (2005).

Journal : Environmental Health Perspectives 113(2): 211-219.

123. **Titre** : Markers of environmental tobacco smoke (ETS) exposure.

Auteur(s) : Metz-Favre, C., C. Donnay, et al. (2005)

Journal : Revue Des Maladies Respiratoires 22(1): 81-92.

124. **Titre** : Mass spectrometric profile of exhaled breath - field study by PTR-MS.

Auteur(s) : Moser, B., F. Bodrogi, et al. (2005)

Journal : Respiratory Physiology & Neurobiology 145(2-3): 295-300.

125. **Titre** : Smoky indoor cooking fires are associated with elevated hemoglobin concentration in iron-deficient women

Auteur(s) : Neufeld, L. M., J. D. Haas, et al. (2004)

Journal : Revista Panamericana De Salud Publica-Pan American Journal of Public Health 15(2): 110-118.

- Connaissance des expositions

126. **Titre** : Monitor-to-monitor temporal correlation of air pollution in the contiguous US.

Auteur(s) : Ito, K., S. De Leon, et al. (2005).

Journal : Journal of Exposure Analysis and Environmental Epidemiology 15(2): 172-184.

127. **Titre** : Multi-route trihalomethane exposure in households using municipal tap water treated with chlorine or ozone-chlorine.

Auteur(s) : Jo, W. K., K. D. Kwon, et al. (2005).

Journal : Science of the Total Environment 339(1-3): 143-152.

128. **Titre** : Airborne exposure to trihalomethanes from tap water in homes with refrigeration-type and evaporative cooling systems.

Auteur(s) : Kerger, B. D., D. R. Suder, et al. (2005).

Journal : Journal of Toxicology and Environmental Health-Part a-Current Issues 68(6): 401-429.

129. **Titre** : Issues related to time averaging of exposure in modeling risks associated with intermittent exposures to lead.

Auteur(s) : Lorenzana, R. M., R. Troast, et al. (2005).

Journal : Risk Analysis 25(1): 169-178.

130. **Titre** : Naphthalene distributions and human exposure in a Southern California

Auteur(s) : Lu, R., J. Wu, et al. (2005).

Journal : Atmospheric Environment 39(3): 489-507.

131. **Titre** : Personal exposures to VOC in the upper end of the distribution--relationships to indoor, outdoor and workplace concentrations

Auteur(s) : Edwards, R. D., C. Schweizer, et al. (2005)

Journal : Atmospheric Environment 39(12): 2299-2307.

132. **Titre** : Characterization of model error in a simulation of fine particulate matter exposure distributions of the working age population in Helsinki, Finland.

Auteur(s) : Hamminen, O. O., J. T. Tuomisto, et al. (2005)

Journal : Journal of the Air & Waste Management Association 55(4): 446-457.

133. **Titre** : The Steubenville Comprehensive Air Monitoring Program (SCAMP): Overview and statistical considerations

Auteur(s) : Connell, D. P., J. A. Withum, et al. (2005)

Journal : Journal of the Air & Waste Management Association 55(4): 467-480.

134. **Titre** : Development of an individual exposure model for application to the Southern California children's health study

Auteur(s) : Wu, J., F. Lurmann, et al. (2005)

Journal : Atmospheric Environment 39(2): 259-273.

IV-2 Evaluation des risques

Pas d'article

GESTION

- par la réglementation

135. **Titre** : Strength of clean indoor air laws and smoking related outcomes in the USA.

Auteur(s) : McMullen, K. M., R. C. Brownson, et al. (2005)

Journal : Tobacco Control 14(1): 43-48.

136. **Titre** : Implementation of a Smoke-Free Policy on School Premises and Tobacco Control as a Priority Among Municipal Health Promotion Activities: Nationwide Survey in Japan

Auteur(s) : Kazunori Kayaba, MD, Chihiro Wakabayashi, MHE, Naoko Kunisawa, MA, Hiromi Shinmura, MS and Hiroshi Yanagawa, MD, MPH

Journal : American Journal of Public Health March 2005, Vol 95, No. 3, 420-422

137. **Titre** : Senate eyes new green legislation (Senators Jeffords and Lautenberg introduce legislation to improve indoor-air quality in schools and federal buildings).

Auteur(s) : Holtzman, A. (2004).

Journal : Architecture 93(9): 22-22.

Editorial

138. **Titre** : The Seattle-King County Healthy Homes Project: A randomized, controlled trial of a community health worker intervention to decrease exposure to indoor asthma triggers.

Auteur(s) : Krieger, J. W., T. K. Takaro, et al. (2005)

Journal : American Journal of Public Health 95(4): 652-659.

139. **Titre** : Science-based recommendations to prevent or reduce potential exposure to biological, chemical, and physical agents in schools.

Auteur(s) : Shendell, D. G., C. Barnett, et al. (2004)

Journal : Journal of School Health 74(10): 390-396.

ARTICLE DE SYNTHÈSE

140. **Titre** : Interventions to improve children's health by improving the housing environment.

Auteur(s) : Chaudhuri N.

Journal : Reviews in Environmental Health 2004 Jul-Dec;19(3-4):197-222

- technique

141. **Titre** : The effectiveness of stand alone air cleaners for shelter-in-place.

Auteur(s) : Ward, M., J. A. Siegel, et al. (2005)

Journal : Indoor Air 15(2): 127-134.

142. **Titre** : Indoor air pollution control.

Auteur(s) : Oanh, N. T. K. and Y. T. Hung (2005)

Journal : Advanced Air and Noise Pollution Control. 2: 237-272

143. **Titre** : Photodegradation of gaseous volatile organic compounds (VOCs) using TiO₂ photoirradiated by an ozone-producing UV lamp: decomposition characteristics, identification of by-products and water-soluble organic intermediates.

Auteur(s) : Jeong, J., K. Sekiguchi, et al. (2005).

Journal : Journal of Photochemistry and Photobiology a-Chemistry 169(3): 279-287.

144. **Titre** : Photocatalytic oxidation of n-butanol under fluorescent visible light lamp over commercial TiO₂ (Hombicat UV100 and Degussa P25).

Auteur(s) : Kirchnerova, J., M. L. H. Cohen, et al. (2005).

Journal : Applied Catalysis a-General 282(1-2): 321-332.

145. **Titre** : Kinetic modeling of promotion and inhibition of temperature on photocatalytic degradation of benzene vapor.

Auteur(s) : Wu, J. F., C. H. Hung, et al. (2005)

Journal : Journal of Photochemistry and Photobiology a-Chemistry 170(3): 299-306.

146. **Titre** : Effects of ceiling-mounted HEPA-UV air filters on airborne bacteria concentrations in an indoor therapy pool building.

Auteur(s) : Kujundzic, E., D. A. Zander, et al. (2005)

Journal : Journal of the Air & Waste Management Association 55(2): 210-218.

147. **Titre** : New type of fresh air processor with liquid desiccant total heat recovery

Auteur(s) : Li, Z., X. H. Liu, et al. (2005)

Journal : Energy and Buildings 37(6): 587-593.

148. **Titre** : Mitigation of a radon-rich Belgian dwelling using active subslab depressurization.

Auteur(s) : Paridaens, J., L. de Saint-Georges, et al. (2005)

Journal : Journal of Environmental Radioactivity 79(1): 25-37.

DIVERS

- Généralités sur la thématique

149. **Titre** : Listening to the occupants: a Web-based indoor environmental quality survey.
Auteur(s) : Zagreus, L., C. Huizenga, et al. (2004)
Journal : Indoor Air 14: 65-74.

ARTICLE DE SYNTHÈSE

150. **Titre** : The epidemiology and genetics of asthma risk associated with air pollution
Auteur(s) : Peden, D. B. (2005).
Journal : Journal of Allergy and Clinical Immunology 115(2): 213-219.

ARTICLE DE SYNTHÈSE

151. **Titre** : Indoor air pollution.
Auteur(s) : Brimblecombe, P. and M. Cashmore (2004).
Journal : Journal De Physique Iv 121: 209-221.

152. **Titre** : Brain inflammation and Alzheimer's-like pathology in individuals exposed to severe air pollution.
Auteur(s) : Calderon-Garciduenas, L., W. Reed, et al. (2004).
Journal : Toxicologic Pathology 32(6): 650-658.

- PVD

153. **Titre** : The global distribution of risk factors by poverty level.
Auteur(s) : Blakely, T., S. Hales, et al. (2005).
Journal : Bulletin of the World Health Organization 83(2): 118-126.

154. **Titre** : Environmental risks in the developing world: exposure indicators for evaluating interventions, programmes, and policies - art. no. 22.
Auteur(s) : Ezzati, M., J. Utzinger, et al. (2005).
Journal : Journal of Epidemiology and Community Health 59(1): 15-22.

155. **Titre** : DDT indoor residual spray, still an effective tool to control Anopheles fluviatilis-transmitted Plasmodium falciparum malaria in India.
Auteur(s) : Gunasekaran, K., S. S. Sahu, et al. (2005).
Journal : Tropical Medicine & International Health 10(2): 160-168.

156. **Titre** : Patterns of household concentrations of multiple indoor air pollutants in China.
Auteur(s) : He, G. L., B. Ying, et al. (2005).
Journal : Environmental Science & Technology 39(4): 991-998.

- Autres

157. **Titre** : Investigations on ribosomal DNA of indoor wood decay fungi for their characterization and identification.
Auteur(s) : Moreth, U. and O. Schmidt (2005)
Journal : Holzforschung 59(1): 90-93.

158. **Titre** : Simple tool to evaluate energy demand and indoor environment in the early stages of building design.
Auteur(s) : Nielsen, T. R. (2005).
Journal : Solar Energy 78(1): 73-83.

159. **Titre** : Thermal perceptions and preferences in indoor environments.
Auteur(s) : Petit, C., E. Siekierski, et al. (2004)
Journal : Journal of Sensory Studies 19(5): 395-421.

160. **Titre** : Air distribution numerical simulating of isothermal jet with interference parameters in large space

Auteur(s) : Ye, X. J. and Z. W. Lian (2005).

Journal : Simulation Modelling Practice and Theory 13(2): 139-155.

161. **Titre** : Role of air distribution in SARS transmission during the largest nosocomial outbreak in Hong Kong

Auteur(s) : Li, Y., X. Huang, et al. (2005)

Journal : Indoor Air 15(2): 83-95.

162. **Titre** : Multi-zone modeling of probable SARS virus transmission by airflow between flats in Block E, Amoy Gardens

Auteur(s) : Li, Y., S. Duan, et al. (2005)

Journal : Indoor Air 15(2): 96-111.

BILAN DES ARTICLES DE SYNTHÈSE (10)

Titre : Filamentous microorganisms and their fragments in indoor air

Auteur(s) : Gorny, R. L. (2004)

Journal : A review." Annals of Agricultural and Environmental Medicine 11(2): 185-197.

Titre : Filamentous microorganisms and their fragments in indoor air

Auteur(s) : Gorny, R. L. (2004)

Journal : A review." Annals of Agricultural and Environmental Medicine 11(2): 185-197.

Titre : Indoor allergens in settled school dust: a review of findings and significant factors.

Auteur(s) : Tranter, D. C. (2005)

Journal : Clinical and Experimental Allergy 35(2): 126-136.

Titre : A Review of Evidence Linking Ventilation Rates in Dwellings and Respiratory Health - A Focus on House Dust Mites and Mould

Auteur(s) : M Davies, M Ucci, M McCarthy, T Oreszczyn, I Ridley, D Mumovic, J Singh and S Pretlove

Journal : The International Journal of Ventilation Volume 3 September 2004 Issue 2

Titre : Indoor air quality and human health - Truth vs mass hysteria.

Auteur(s) : Chang, C. and M. E. Gershwin (2004).

Journal : Clinical Reviews in Allergy & Immunology 27(3): 219-239.

Titre : Health effects of indoor fungi.

Auteur(s) : Portnoy, J. M., K. Kwak, et al. (2005)

Journal : Annals of Allergy Asthma & Immunology 94(3): 313-320.

Titre : Allergy and infection: understanding their relationship

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Titre : Indoor air pollution.

Auteur(s) : Brimblecombe, P. and M. Cashmore (2004).

Journal : Journal De Physique Iv 121: 209-221.