

References

- Adalberth, K. (1997, July). Energy use during the life cycle of buildings: a method. *Building and Environment*, 32(4), 317–320. doi: 10.1016/S0360-1323(96)00068-6
- Agoudjil, B., Benchabane, A., Boudenne, A., Ibos, L., & Fois, M. (2011, February). Renewable materials to reduce building heat loss: Characterization of date palm wood. *Energy and Buildings*, 43(23), 491–497. doi: 10.1016/j.enbuild.2010.10.014
- Al-Homoud, D. M. S. (2005, March). Performance characteristics and practical applications of common building thermal insulation materials. *Building and Environment*, 40(3), 353–366. doi: 10.1016/j.buildenv.2004.05.013
- Al-Obaidi, K. M., Ismail, M., & Abdul Rahman, A. M. (2014, September). Passive cooling techniques through reflective and radiative roofs in tropical houses in Southeast Asia: A literature review. *Frontiers of Architectural Research*, 3(3), 283–297. doi: 10.1016/j foar.2014.06.002
- Alvarado, J. L., Terrell Jr., W., & Johnson, M. D. (2009, September). Passive cooling systems for cement-based roofs. *Building and Environment*, 44(9), 1869–1875. doi: 10.1016/j.buildenv.2008.12.012
- Annie Paul, S., Boudenne, A., Ibos, L., Candau, Y., Joseph, K., & Thomas, S. (2008, September). Effect of fiber loading and chemical treatments on thermophysical properties of banana fiber/polypropylene commingled composite materials. *Composites Part A: Applied Science and Manufacturing*, 39(9), 1582–1588. doi: 10.1016/j.compositesa.2008.06.004
- Asdrubali, F., D'Alessandro, F., & Schiavoni, S. (2015, July). A review of

- unconventional sustainable building insulation materials. *Sustainable Materials and Technologies*, 4, 1–17. doi: 10.1016/j.susmat.2015.05.002
- Baik, J.-J., Kwak, K.-H., Park, S.-B., & Ryu, Y.-H. (2012, December). Effects of building roof greening on air quality in street canyons. *Atmospheric Environment*, 61, 48–55. doi: 10.1016/j.atmosenv.2012.06.076
- Bastidas-Arteaga, E., Schoefs, F., Stewart, M. G., & Wang, X. (2013, June). Influence of global warming on durability of corroding RC structures: A probabilistic approach. *Engineering Structures*, 51, 259–266. doi: 10.1016/j.engstruct.2013.01.006
- Berndtsson, J. C., Bengtsson, L., & Jinno, K. (2009, March). Runoff water quality from intensive and extensive vegetated roofs. *Ecological Engineering*, 35(3), 369–380. doi: 10.1016/j.ecoleng.2008.09.020
- Bianchini, F., & Hewage, K. (2012, February). How green are the green roofs? Lifecycle analysis of green roof materials. *Building and Environment*, 48, 57–65. doi: 10.1016/j.buildenv.2011.08.019
- Blanusa, T., Vaz Monteiro, M. M., Fantozzi, F., Vysini, E., Li, Y., & Cameron, R. W. F. (2013, January). Alternatives to Sedum on green roofs: Can broad leaf perennial plants offer better cooling service? *Building and Environment*, 59, 99–106. doi: 10.1016/j.buildenv.2012.08.011
- Boden, T.A., Andres, R.J., & Marland, G. (2016). *Global, Regional, and National Fossil-Fuel CO₂ Emissions*. Carbon Dioxide Information Analysis Center (CDIAC).
- Bozorg Chenani, S., Lehvvirta, S., & Hkkinen, T. (2015, March). Life cycle assessment of layers of green roofs. *Journal of Cleaner Production*, 90, 153–162. doi: 10.1016/j.jclepro.2014.11.070
- British Standards Institution. (1996). *Loading for buildings. Part 1, Part 1.*, London: BSI.
- British Standards Institution. (1997). *Structural use of concrete*. London: BSI.
- Building Schedule of Rates*. (2015). Office of the Chief Secretary, Western Province, Sri Lanka.

- Chai, Q., & Zhang, X. (2010, October). Technologies and policies for the transition to a sustainable energy system in china. *Energy*, 35(10), 3995–4002. doi: 10.1016/j.energy.2010.04.033
- Chan, A. L. S., & Chow, T. T. (2013, July). Evaluation of Overall Thermal Transfer Value (OTTV) for commercial buildings constructed with green roof. *Applied Energy*, 107, 10–24. doi: 10.1016/j.apenergy.2013.02.010
- Chen, C.-F. (2013, March). Performance evaluation and development strategies for green roofs in Taiwan: A review. *Ecological Engineering*, 52, 51–58. doi: 10.1016/j.ecoleng.2012.12.083
- Chen, H., Ooka, R., Huang, H., & Tsuchiya, T. (2009, November). Study on mitigation measures for outdoor thermal environment on present urban blocks in Tokyo using coupled simulation. *Building and Environment*, 44(11), 2290–2299. doi: 10.1016/j.buildenv.2009.03.012
- Chikhi, M., Agoudjil, B., Boudenne, A., & Gherabli, A. (2013, November). Experimental investigation of new biocomposite with low cost for thermal insulation. *Energy and Buildings*, 66, 267–273. doi: 10.1016/j.enbuild.2013.07.019
- Connelly, M., & Hodgson, M. (2011, April). Laboratory experimental investigation of the acoustical characteristics of vegetated roofs. *The Journal of the Acoustical Society of America*, 129(4), 2393–2393. doi: 10.1121/1.3587778
- de Dear, R. J., & Brager, G. S. (2002, July). Thermal comfort in naturally ventilated buildings: revisions to ASHRAE Standard 55. *Energy and Buildings*, 34(6), 549–561. doi: 10.1016/S0378-7788(02)00005-1
- Dimoudi, A., Androutsopoulos, A., & Lykoudis, S. (2006, June). Summer performance of a ventilated roof component. *Energy and Buildings*, 38(6), 610–617. doi: 10.1016/j.enbuild.2005.09.006
- Emmanuel, R. (2004, October). Estimating the environmental suitability of wall materials: preliminary results from Sri Lanka. *Building and Environment*, 39(10), 1253–1261. doi: 10.1016/j.buildenv.2004.02.012
- Fanger, P. O. (1970). *Thermal comfort: analysis and applications in environmental*

- engineering*. Copenhagen: Danish technical press.
- Feng, C., Meng, Q., & Zhang, Y. (2010, June). Theoretical and experimental analysis of the energy balance of extensive green roofs. *Energy and Buildings*, 42(6), 959–965. doi: 10.1016/j.enbuild.2009.12.014
- Fioretti, R., Palla, A., Lanza, L. G., & Principi, P. (2010, August). Green roof energy and water related performance in the Mediterranean climate. *Building and Environment*, 45(8), 1890–1904. doi: 10.1016/j.buildenv.2010.03.001
- Francis, R. A., & Lorimer, J. (2011, June). Urban reconciliation ecology: The potential of living roofs and walls. *Journal of Environmental Management*, 92(6), 1429–1437. doi: 10.1016/j.jenvman.2011.01.012
- Frontczak, M. J., & Wargocki, P. (2011). Literature survey on how different factors influence human comfort in indoor environments. *Building and Environment*, 46(4), 922–937. doi: 10.1016/j.buildenv.2010.10.021
- Fuller, K., & Peterson, S. (1996). *Life Cycle Costing Manual for the Federal Energy Management Program*. U.S. Government Printing Office.
- Gavenas, E., Rosendahl, K. E., & Skjerpen, T. (2015, October). CO₂-emissions from Norwegian oil and gas extraction. *Energy*, 90, Part 2, 1956–1966. doi: 10.1016/j.energy.2015.07.025
- Getter, K. L., Rowe, D. B., & Andresen, J. A. (2007, December). Quantifying the effect of slope on extensive green roof stormwater retention. *Ecological Engineering*, 31(4), 225–231. doi: 10.1016/j.ecoleng.2007.06.004
- Goodhew, S., & Griffiths, R. (2005, May). Sustainable earth walls to meet the building regulations. *Energy and Buildings*, 37(5), 451–459. doi: 10.1016/j.enbuild.2004.08.005
- Halawa, E., van Hoof, J., & Soebarto, V. (2014, September). The impacts of the thermal radiation field on thermal comfort, energy consumption and controlA critical overview. *Renewable and Sustainable Energy Reviews*, 37, 907–918. doi: 10.1016/j.rser.2014.05.040
- Halwatura, R. U., & Jayasinghe, M. T. R. (2007, December). Strategies for improved micro-climates in high-density residential developments in tropical

- climates. *Energy for Sustainable Development*, 11(4), 54–65. doi: 10.1016/S0973-0826(08)60410-X
- Halwatura, R. U., & Jayasinghe, M. T. R. (2008). Thermal performance of insulated roof slabs in tropical climates. *Energy and Buildings*, 40(7), 1153–1160. doi: 10.1016/j.enbuild.2007.10.006
- Halwatura, R. U., & Jayasinghe, M. T. R. (2009, June). Influence of insulated roof slabs on air conditioned spaces in tropical climatic conditionsA life cycle cost approach. *Energy and Buildings*, 41(6), 678–686. doi: 10.1016/j.enbuild.2009.01.005
- Halwatura, R. U., Mallawarachchi, R. S., & Jayasinghe, M. T. R. (2007). Cyclone resistant insulated roof slabs. In *Proceedings of the International Conference on Mitigation of the Risk of Natural Disasters* (Vol. 27, p. 28).
- Hendrickson, C. T., Lave, D. L. B., & Matthews, H. S. (2006). *Environmental Life Cycle Assessment of Goods and Services: An Input-output Approach*. Resources for the Future.
- Hinkel, J., Nicholls, R. J., Tol, R. S. J., Wang, Z. B., Hamilton, J. M., Boot, G., ... Klein, R. J. T. (2013, December). A global analysis of erosion of sandy beaches and sea-level rise: An application of DIVA. *Global and Planetary Change*, 111, 150–158. doi: 10.1016/j.gloplacha.2013.09.002
- Hoff, J. (2007, January). *A new approach to roof life cycle analysis*.
- Huberman, N., Pearlmutter, D., Gal, E., & Meir, I. A. (2015). Optimizing Structural Roof Form for Life-Cycle Energy Efficiency. *Energy and Buildings*. doi: 10.1016/j.enbuild.2015.07.008
- Humphreys, M. A. (1981). Chapter 15 the Dependence of Comfortable Temperatures upon Indoor and Outdoor Climates*. In K. C. a. J. A. Clark (Ed.), *Studies in Environmental Science* (Vol. 10, pp. 229–250). Elsevier.
- Ihara, T., Kikegawa, Y., Asahi, K., Genchi, Y., & Kondo, H. (2008, January). Changes in year-round air temperature and annual energy consumption in office building areas by urban heat-island countermeasures and energy-saving measures. *Applied Energy*, 85(1), 12–25. doi: 10.1016/j.apenergy.2007.06.012

Internet Geography. (n.d.).

- Islam, H., Jollands, M., & Setunge, S. (2015, February). Life cycle assessment and life cycle cost implication of residential buildingsA review. *Renewable and Sustainable Energy Reviews*, 42, 129–140. doi: 10.1016/j.rser.2014.10.006
- Isobe, M. (2013, October). Impact of global warming on coastal structures in shallow water. *Ocean Engineering*, 71, 51–57. doi: 10.1016/j.oceaneng.2012.12.032
- Jayasinghe, M. T. R., Attalage, R. A., & Jayawardena, A. I. (2002, March). Thermal comfort in proposed three-storey passive houses for warm humid climates. *Energy for Sustainable Development*, 6(1), 63–73. doi: 10.1016/S0973-0826(08)60300-2
- Keoleian, G. A., Blanchard, S., & Reppe, P. (2000). Life-cycle energy, costs, and strategies for improving a single-family house. *Journal of Industrial Ecology*, 4(2), 135–156.
- Khedari, J., Charoenvai, S., & Hirunlabh, J. (2003, March). New insulating particleboards from durian peel and coconut coir. *Building and Environment*, 38(3), 435–441. doi: 10.1016/S0360-1323(02)00030-6
- Kofoworola, O. F., & Gheewala, S. H. (2009, October). Life cycle energy assessment of a typical office building in Thailand. *Energy and Buildings*, 41(10), 1076–1083. doi: 10.1016/j.enbuild.2009.06.002
- Kosareo, L., & Ries, R. (2007, July). Comparative environmental life cycle assessment of green roofs. *Building and Environment*, 42(7), 2606–2613. doi: 10.1016/j.buildenv.2006.06.019
- Ksiazek, K., Fant, J., & Skogen, K. (2012, September). An assessment of pollen limitation on Chicago green roofs. *Landscape and Urban Planning*, 107(4), 401–408. doi: 10.1016/j.landurbplan.2012.07.008
- Kumar, R., & Kaushik, S. C. (2005, November). Performance evaluation of green roof and shading for thermal protection of buildings. *Building and Environment*, 40(11), 1505–1511. doi: 10.1016/j.buildenv.2004.11.015
- Kwong, Q. J., Adam, N. M., & Sahari, B. B. (2014, January). Thermal comfort assessment and potential for energy efficiency enhancement in modern tropical

- buildings: A review. *Energy and Buildings*, 68, Part A, 547–557. doi: 10.1016/j.enbuild.2013.09.034
- Lamnatou, C., & Chemisana, D. (2014, June). Photovoltaic-green roofs: a life cycle assessment approach with emphasis on warm months of Mediterranean climate. *Journal of Cleaner Production*, 72, 57–75. doi: 10.1016/j.jclepro.2014.03.006
- Lazzarin, R. M., Castellotti, F., & Busato, F. (2005, December). Experimental measurements and numerical modelling of a green roof. *Energy and Buildings*, 37(12), 1260–1267. doi: 10.1016/j.enbuild.2005.02.001
- Lean, H. H., & Smyth, R. (2009). *Co2 Emissions, Electricity Consumption And Output In Asean* (Development Research Unit Working Paper Series No. 13-09). Monash University, Department of Economics.
- Li, J.-f., Wai, O. W. H., Li, Y. S., Zhan, J.-m., Ho, Y. A., Li, J., & Lam, E. (2010, December). Effect of green roof on ambient CO₂ concentration. *Building and Environment*, 45(12), 2644–2651. doi: 10.1016/j.buildenv.2010.05.025
- Macilwain, C. (2000, January). Global-warming sceptics left out in the cold. *Nature*, 403(6767), 233–233. doi: 10.1038/35002154
- MacIvor, J. S., Margolis, L., Puncher, C. L., & Carver Matthews, B. J. (2013, November). Decoupling factors affecting plant diversity and cover on extensive green roofs. *Journal of Environmental Management*, 130, 297–305. doi: 10.1016/j.jenvman.2013.09.014
- Manohar, K. (2012, January). Experimental Investigation of Building Thermal Insulation from Agricultural By-products. *British Journal of Applied Science & Technology*, 2(3), 227–239. doi: 10.9734/BJAST/2012/1528
- Manohar, K., Ramlakhan, D., Kochhar, G., & Haldar, S. (2006, March). Biodegradable fibrous thermal insulation. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 28(1), 45–47. doi: 10.1590/S1678-58782006000100005
- Megri, A. C., Achard, G., & Haghigat, F. (1998, March). Using plastic waste as thermal insulation for the slab-on-grade floor and basement of a building. *Building and Environment*, 33(23), 97–104. doi: 10.1016/S0360-1323(97)00029

- Mounika, M., Ramaniah, K., Prasad, A. R., Rao, K. M., & Reddy, K. H. C. (2012). Thermal conductivity characterization of bamboo fiber reinforced polyester composite. *J. Mater. Environ. Sci*, 3(6), 1109–1116.
- Mjean, A., & Hope, C. (2013, September). Supplying synthetic crude oil from Canadian oil sands: A comparative study of the costs and CO₂ emissions of mining and in-situ recovery. *Energy Policy*, 60, 27–40. doi: 10.1016/j.enpol.2013.05.003
- Nagase, A., & Dunnett, N. (2010, September). Drought tolerance in different vegetation types for extensive green roofs: Effects of watering and diversity. *Landscape and Urban Planning*, 97(4), 318–327. doi: 10.1016/j.landurbplan.2010.07.005
- Nandapala, K., & Halwatura, R. (2014, December). Prioritizing effective means of retrofitting flat slabs to meet public demands in order to promote sustainable built environment. In *Proceedings of the Special Session on Sustainable Buildings and Infrastructure* (Vol. 1, pp. 174–180). Kandy, Sri Lanka.
- Nandapala, K., & Halwatura, R. (2016, December). Design of a durable roof slab insulation system for tropical climatic conditions. *Cogent Engineering*, 3(1), 1196526. doi: 10.1080/23311916.2016.1196526
- Ng, E., Chen, L., Wang, Y., & Yuan, C. (2012, January). A study on the cooling effects of greening in a high-density city: An experience from Hong Kong. *Building and Environment*, 47, 256–271. doi: 10.1016/j.buildenv.2011.07.014
- Nicol, F., & Humphreys, M. (2010, January). Derivation of the adaptive equations for thermal comfort in free-running buildings in European standard EN15251. *Building and Environment*, 45(1), 11–17. doi: 10.1016/j.buildenv.2008.12.013
- Nimana, B., Canter, C., & Kumar, A. (2015, April). Energy consumption and greenhouse gas emissions in the recovery and extraction of crude bitumen from Canadas oil sands. *Applied Energy*, 143, 189–199. doi: 10.1016/j.apenergy.2015.01.024
- Nordell, B. (2003, September). Thermal pollution causes global warming. *Global and*

- Planetary Change*, 38(34), 305–312. doi: 10.1016/S0921-8181(03)00113-9
- Oberndorfer, E., Lundholm, J., Bass, B., Coffman, R. R., Doshi, H., Dunnett, N., ... Rowe, B. (2007, January). Green Roofs as Urban Ecosystems: Ecological Structures, Functions, and Services. *BioScience*, 57(10), 823–833. doi: 10.1641/B571005
- Pachauri, R. K., Mayer, L., & Intergovernmental Panel on Climate Change (Eds.). (2015). *Climate change 2014: synthesis report*. Geneva, Switzerland: Intergovernmental Panel on Climate Change.
- Paiva, A., Pereira, S., S, A., Cruz, D., Varum, H., & Pinto, J. (2012, February). A contribution to the thermal insulation performance characterization of corn cob particleboards. *Energy and Buildings*, 45, 274–279. doi: 10.1016/j.enbuild.2011.11.019
- Panyakaew, S., & Fotios, S. (2011, July). New thermal insulation boards made from coconut husk and bagasse. *Energy and Buildings*, 43(7), 1732–1739. doi: 10.1016/j.enbuild.2011.03.015
- Parizotto, S., & Lamberts, R. (2011, July). Investigation of green roof thermal performance in temperate climate: A case study of an experimental building in Florianopolis city, Southern Brazil. *Energy and Buildings*, 43(7), 1712–1722. doi: 10.1016/j.enbuild.2011.03.014
- Parker, D. S., & Barkaszi Jr., S. F. (1997). Roof solar reflectance and cooling energy use: field research results from Florida. *Energy and Buildings*, 25(2), 105–115. doi: 10.1016/S0378-7788(96)01000-6
- Pinto, J., Cruz, D., Paiva, A., Pereira, S., Tavares, P., Fernandes, L., & Varum, H. (2012, September). Characterization of corn cob as a possible raw building material. *Construction and Building Materials*, 34, 28–33. doi: 10.1016/j.conbuildmat.2012.02.014
- Progelhof, R. C., Throne, J. L., & Ruetsch, R. R. (1976, September). Methods for predicting the thermal conductivity of composite systems: A review. *Polymer Engineering & Science*, 16(9), 615–625. doi: 10.1002/pen.760160905
- Pruteanu, M. (2010). Investigations Regarding the Thermal Conductivity of Straw .

Gheorghe Asachi Technical University, Jassy, Department of Civil and Industrial Engineering, 9–16.

- Prez-Lombard, L., Ortiz, J., & Pout, C. (2008). A review on buildings energy consumption information. *Energy and Buildings*, 40(3), 394–398. doi: 10.1016/j.enbuild.2007.03.007
- Romeo, C., & Zinzi, M. (2013, December). Impact of a cool roof application on the energy and comfort performance in an existing non-residential building. A Sicilian case study. *Energy and Buildings*, 67, 647–657. doi: 10.1016/j.enbuild.2011.07.023
- Rosenzweig, C., Solecki, W. D., Parshall, L., Chopping, M., Pope, G., & Goldberg, R. (2005, January). Characterizing the urban heat island in current and future climates in New Jersey. *Environmental Hazards*, 6(1), 51–62. doi: 10.1016/j.hazards.2004.12.001
- Ross, S. A. (1995). Uses, Abuses, and Alternatives to the Net-Present-Value Rule. *Financial Management*, 24(3), 96–102. doi: 10.2307/3665561
- Rowe, D. B. (2011, August). Green roofs as a means of pollution abatement. *Environmental Pollution*, 159(89), 2100–2110. doi: 10.1016/j.envpol.2010.10.029
- Schweitzer, O., & Erell, E. (2014, January). Evaluation of the energy performance and irrigation requirements of extensive green roofs in a water-scarce Mediterranean climate. *Energy and Buildings*, 68, Part A, 25–32. doi: 10.1016/j.enbuild.2013.09.012
- Sfakianaki, A., Pagalou, E., Pavlou, K., Santamouris, M., & Assimakopoulos, M. N. (2009, October). Theoretical and experimental analysis of the thermal behaviour of a green roof system installed in two residential buildings in Athens, Greece. *International Journal of Energy Research*, 33(12), 1059–1069. doi: 10.1002/er.1535
- Shaik, S., & Talanki, A. B. P. S. (2015, September). Optimizing the position of insulating materials in flat roofs exposed to sunshine to gain minimum heat into buildings under periodic heat transfer conditions. *Environmental Science and*

- Pollution Research*, 1–11. doi: 10.1007/s11356-015-5316-7
- Smith, K. R., & Roebber, P. J. (2011, March). Green Roof Mitigation Potential for a Proxy Future Climate Scenario in Chicago, Illinois. *Journal of Applied Meteorology and Climatology*, 50(3), 507–522. doi: 10.1175/2010JAMC2337.1
- Speak, A. F., Rothwell, J. J., Lindley, S. J., & Smith, C. L. (2013, May). Reduction of the urban cooling effects of an intensive green roof due to vegetation damage. *Urban Climate*, 3, 40–55. doi: 10.1016/j.uclim.2013.01.001
- Sun, C. Y. (n.d.). The thermal influence of green roofs on air temperature in Taipei City. *applied mechanics and materials*, 44, 1933–1937.
- Sun, T., Bou-Zeid, E., Wang, Z.-H., Zerba, E., & Ni, G.-H. (2013, February). Hydrometeorological determinants of green roof performance via a vertically-resolved model for heat and water transport. *Building and Environment*, 60, 211–224. doi: 10.1016/j.buildenv.2012.10.018
- Susca, T., Gaffin, S. R., & DellOsso, G. R. (2011, August). Positive effects of vegetation: Urban heat island and green roofs. *Environmental Pollution*, 159(89), 2119–2126. doi: 10.1016/j.envpol.2011.03.007
- Szokolay, S. (1991). Heating and cooling of buildings, in: H.J. Cowan (Ed.). In *Handbook of Architectural Technology* (pp. 323–365). New York: Van Nostrand Reinhold.
- Tabares-Velasco, P. C., Zhao, M., Peterson, N., Srebric, J., & Berghage, R. (2012, October). Validation of predictive heat and mass transfer green roof model with extensive green roof field data. *Ecological Engineering*, 47, 165–173. doi: 10.1016/j.ecoleng.2012.06.012
- Takebayashi, H., & Moriyama, M. (2007, August). Surface heat budget on green roof and high reflection roof for mitigation of urban heat island. *Building and Environment*, 42(8), 2971–2979. doi: 10.1016/j.buildenv.2006.06.017
- Tangjuank, S. (2011). Thermal insulation and physical properties of particleboards from pineapple leaves. *International Journal of Physical Sciences*, 6(19), 4528–4532.

- Teychenn, D. C., Franklin, R. E., & Erntroy, H. C. (1997). *Design of normal concrete mixes* (2. ed ed.) (No. 331). London: Constructions Research Communications. (OCLC: 246619225)
- Tong, S., Li, H., Zingre, K. T., Wan, M. P., Chang, V. W. C., Wong, S. K., ... Lee, I. Y. L. (2014, June). Thermal performance of concrete-based roofs in tropical climate. *Energy and Buildings*, 76, 392–401. doi: 10.1016/j.enbuild.2014.02.076
- Tracy Li. (2013, May). *What Can Bamboo Do About CO2?*
- Tsang, S. W., & Jim, C. Y. (2011, May). Theoretical evaluation of thermal and energy performance of tropical green roofs. *Energy*, 36(5), 3590–3598. doi: 10.1016/j.energy.2011.03.072
- Vandenbossche, V., Rigal, L., Saiah, R., & Perrin, B. (2012). New agro-materials with thermal insulation properties. In *Proceedings of the 18th International Sunflower Conference Mar del Plata, Argentina* (pp. 949–954).
- Van Renterghem, T., & Botteldooren, D. (2009, May). Reducing the acoustical faade load from road traffic with green roofs. *Building and Environment*, 44(5), 1081–1087. doi: 10.1016/j.buildenv.2008.07.013
- Van Renterghem, T., & Botteldooren, D. (2011, March). In-situ measurements of sound propagating over extensive green roofs. *Building and Environment*, 46(3), 729–738. doi: 10.1016/j.buildenv.2010.10.006
- Van Renterghem, T., Hornikx, M., Forssen, J., & Botteldooren, D. (2013, March). The potential of building envelope greening to achieve quietness. *Building and Environment*, 61, 34–44. doi: 10.1016/j.buildenv.2012.12.001
- VanWoert, N. D., Rowe, D. B., Andresen, J. A., Rugh, C. L., Fernandez, R. T., & Xiao, L. (2005). Green Roof Stormwater Retention. *Journal of Environment Quality*, 34(3), 1036. doi: 10.2134/jeq2004.0364
- Vijayaraghavan, K., Joshi, U. M., & Balasubramanian, R. (2012, March). A field study to evaluate runoff quality from green roofs. *Water Research*, 46(4), 1337–1345. doi: 10.1016/j.watres.2011.12.050
- Vijaykumar, K. C. K., Srinivasan, P. S. S., & Dhandapani, S. (2007, August). A

- performance of hollow clay tile (HCT) laid reinforced cement concrete (RCC) roof for tropical summer climates. *Energy and Buildings*, 39(8), 886–892. doi: 10.1016/j.enbuild.2006.05.009
- Villarreal, E. L., & Bengtsson, L. (2005, July). Response of a Sedum green-roof to individual rain events. *Ecological Engineering*, 25(1), 1–7. doi: 10.1016/j.ecoleng.2004.11.008
- Wang, Z., Wang, J., Richter, H., Howard, J. B., Carlson, J., & Levendis, Y. A. (2003, July). Comparative Study on Polycyclic Aromatic Hydrocarbons, Light Hydrocarbons, Carbon Monoxide, and Particulate Emissions from the Combustion of Polyethylene, Polystyrene, and Poly(vinyl chloride). *Energy & Fuels*, 17(4), 999–1013. doi: 10.1021/ef020269z
- Weng, Q., Lu, D., & Schubring, J. (2004, February). Estimation of land surface temperature/vegetation abundance relationship for urban heat island studies. *Remote Sensing of Environment*, 89(4), 467–483. doi: 10.1016/j.rse.2003.11.005
- Whittinghill, L. J., Rowe, D. B., & Cregg, B. M. (2013, January). Evaluation of Vegetable Production on Extensive Green Roofs. *Agroecology and Sustainable Food Systems*, 37(4), 465–484. doi: 10.1080/21683565.2012.756847
- Wolf, D., & Lundholm, J. T. (2008, June). Water uptake in green roof microcosms: Effects of plant species and water availability. *Ecological Engineering*, 33(2), 179–186. doi: 10.1016/j.ecoleng.2008.02.008
- Wong, J. K. W., & Lau, L. S.-K. (2013, July). From the urban heat island to the green island? A preliminary investigation into the potential of retrofitting green roofs in Mongkok district of Hong Kong. *Habitat International*, 39, 25–35. doi: 10.1016/j.habitatint.2012.10.005
- Wong, N. H., Chen, Y., Ong, C. L., & Sia, A. (2003, February). Investigation of thermal benefits of rooftop garden in the tropical environment. *Building and Environment*, 38(2), 261–270. doi: 10.1016/S0360-1323(02)00066-5
- Yang, J., Yu, Q., & Gong, P. (2008, October). Quantifying air pollution removal by green roofs in Chicago. *Atmospheric Environment*, 42(31), 7266–7273. doi:

10.1016/j.atmosenv.2008.07.003

- Yang, L., Yan, H., & Lam, J. C. (2014, February). Thermal comfort and building energy consumption implications A review. *Applied Energy*, 115, 164–173. doi: 10.1016/j.apenergy.2013.10.062
- Yao, R., & Steemers, K. (2005, June). A method of formulating energy load profile for domestic buildings in the UK. *Energy and Buildings*, 37(6), 663–671. doi: 10.1016/j.enbuild.2004.09.007
- Yarbrough, D. W., Wilkes, K. E., Olivier, P. A., Graves, R. S., & Vohra, A. (2005). Apparent thermal conductivity data and related information for rice hulls and crushed pecan shells. *Thermal Conductivity*, 27, 222–230.
- Zhang, X., Shen, L., Tam, V. W. Y., & Lee, W. W. Y. (2012, January). Barriers to implement extensive green roof systems: A Hong Kong study. *Renewable and Sustainable Energy Reviews*, 16(1), 314–319. doi: 10.1016/j.rser.2011.07.157
- Zhou, N., Gao, W., Nishida, M., Kitayama, H., & Ojima, T. (2004, December). Field study on the thermal environment of passive cooling system in RC building. *Energy and Buildings*, 36(12), 1265–1272. doi: 10.1016/j.enbuild.2003.09.012
- Zhou, X.-y., Zheng, F., Li, H.-g., & Lu, C.-l. (2010, July). An environment-friendly thermal insulation material from cotton stalk fibers. *Energy and Buildings*, 42(7), 1070–1074. doi: 10.1016/j.enbuild.2010.01.020