

Robert D. Brown

CURRICULUM VITAE

April 2022

Academic Background

Ph.D. Micrometeorology, University of Guelph, Canada 1985

M.L.A. Landscape Architecture, University of Guelph, Canada 1982

B.Sc. Geography (*magnis cum honoribus*) University of Saskatchewan, Canada 1979

Academic Experience

Texas A&M University

Professor of Landscape Architecture and Urban Planning (2016-present)

University of Guelph

University Professor Emeritus (2018 – present)

Professor of Landscape Architecture, University of Guelph (1996 – 2016)

Associate Professor, University of Guelph (1990 - 1996)

Assistant Professor, University of Guelph (1985 - 1990)

Other University Appointments

2013 - Visiting Researcher, Wageningen University, Netherlands

2011 - Visiting Professor, University of Adelaide, Australia

2005 - Visiting Professor, University of Arizona, USA

2001-2002 - Visiting Professor, University of Tokyo, Japan

1997-1998 Visiting Professor, Chancellor College, University of Malawi, Zomba

1996-1997 - Visiting Researcher, National Institute of Agro-Environmental Sciences,
Tsukuba, Japan

1996 - Visiting Professor, University of Canberra, Australia

1991-1992 - Visiting Professor, Lincoln University, New Zealand

Administrative Roles

Director - School of Environmental Design and Rural Development (interim) (2006)

Director - Doctor of Philosophy Rural Studies (1997-1999)

Coordinator - Master of Landscape Architecture Program (1993-1997)

Founding Director - Landscape Research Group of Guelph (1987-1993)

Professional Memberships and Licensure

Fellow, Council of Educators in Landscape Architecture

Fellow, Canadian Society of Landscape Architects

Member, Saskatchewan Association of Landscape Architects (equivalent to state licensure in USA)

Recognition and Awards

2018: *University Professor Emeritus*. University of Guelph, Canada.

2016: *Presidential Investment Hire*: Texas A&M University, USA

2013-2014: *Research and Innovation Award*. Ontario Association of Landscape Architects. Recognizing the outstanding leadership, research and/or academic achievements, through scholarly activities, that contributes to the knowledge base that furthers the advancement of the art, the science, and the practice of landscape architecture.

2013-2014: *Inducted into the College of Fellows*. Canadian Society of Landscape Architects.

2009-2010: *Award of Excellence in Research*. American Society of Landscape Architects. Advisor for Graham Slater, winner of the American Society of Landscape Architects 2010 "Excellence Award for Research", the top international award for student research

2007-2008: *Regional Citation Award*. Canadian Society of Landscape Architects. Rural by Choice in Southern Ontario

Milburn, Lee-Anne M. and Robert D. Brown

2007-2008: *Merit Award for Research, Development and Communication*. New York State Chapter of the American Society of Landscape Architects. Microclimate Modeling of the New York Times Tower, Manhattan. Henry White, Cornelia Hann Oberlander, Robert D. Brown, Robert LeBlanc

2006-2007: *Elected Fellow*. College of Fellows of the Council of Educators in Landscape Architecture. The intent of the CELA Academy of Fellows is to honor a faculty member's lifetime accomplishments in teaching, scholarship/creative activity and service. The accomplishments must add up to excellent endeavor sustained over an extended period of time that is truly inspiring and significant

2006-2007: *National Teaching Medal*. Canadian Society of Landscape Architects. "In recognition of a substantial and significant contribution to a landscape architecture program of education". One award in Canada per year.

2004-2005: *National Merit Award*. Canadian Society of Landscape Architects. The Relationship Between Research and Design in Landscape Architecture
Milburn, Lee-Anne M. and Robert D. Brown

2004-2005: Ontario Agricultural College Distinguished Teaching Award.

2003-2004: Canadian Society of Landscape Architects National Merit Award.

1996-1997: Visiting Researcher Fellowship. Government of Japan

1995-1996: Council for Educators in Landscape Architecture Award of Distinction for the Creative Integration of Research and Teaching. Spokane, Washington

1995-1996: National Institute of Agro-Environmental Sciences. Recipient of Research Award for Foreign Specialists, Tsukuba, Japan

1994-1995: National Institute of Agro-Environmental Sciences. Recipient of Research Award for Foreign Specialists

RESEARCH AND SCHOLARSHIP

Metrics

Google Scholar, April 3, 2022

Citations: 5066

h-index: 34

i10-index: 72

Refereed Journal Articles Published

2022

106. Teshnehdel S, Gatto E, Li D, Brown RD. Improving Outdoor Thermal Comfort in a Steppe Climate: Effect of Water and Trees in an Urban Park. *Land*. 2022; 11(3):431.

<https://doi.org/10.3390/land11030431>

105. Kim, S. W., & Brown, R. D. (2022). Pedestrians' behavior based on outdoor thermal comfort and micro-scale thermal environments, Austin, TX. *Science of the total environment*, 808, 152143.

104. Lin J, Li D, Brown RD. Microclimatic Landscape Architecture: From Theory to Application. *Urban Science*. 2022; 6(1):9. <https://doi.org/10.3390/urbansci6010009>

103. Li, X., Zhang, Y., Li, D., Xu, Y., & Brown, R. D. (2022). Ameliorating cold stress in a hot climate: Effect of Winter Storm Uri on residents of subsidized housing neighborhoods. *Building and Environment*, 209, 108646.

102. Lee, K., & Brown, R. D. (2022). Effects of Urban Landscape and Sociodemographic Characteristics on Heat-Related Health Using Emergency Medical Service Incidents. *International Journal of Environmental Research and Public Health*, 19(3), 1287.

101. Tang H, Rising HH, Majji M, Brown RD. Long-Term Space Nutrition: A Scoping Review. *Nutrients*. 2022; 14(1):194. <https://doi.org/10.3390/nu14010194>

2021

100. Cheng, W., Li, D., Liu, Z., & Brown, R. D. (2021). Approaches for identifying heat-vulnerable populations and locations: A systematic review. *Science of The Total Environment*, 799, 149417.

99. Lee K, Brown RD. Estimating Terrestrial Radiation for Human Thermal Comfort in Outdoor Urban Space. *Atmosphere*. 2021; 12(12):1701. <https://doi.org/10.3390/atmos12121701>

98. Kim, Y. J., & Brown, R. D. (2021). A multilevel approach for assessing the effects of microclimatic urban design on pedestrian thermal comfort: The High Line in New York. *Building and Environment*, 205, 108244.

97. Karimi, A., Mohammad, P., Gachkar, S., Gachkar, D., García-Martínez, A., Moreno-Rangel, D., & Brown, R. D. (2021). Surface Urban Heat Island Assessment of a Cold Desert City: A Case Study over the Isfahan Metropolitan Area of Iran. *Atmosphere*, 12(10), 1368.
96. Vecellio, D. J., Bardenhagen, E. K., Lerman, B., & Brown, R. D. (2021). The role of outdoor microclimatic features at long-term care facilities in advancing the health of its residents: An integrative review and future strategies. *Environmental research*, 201, 111583.
95. Kim, S. W., & Brown, R. D. (2021). Urban heat island (UHI) variations within a city boundary: A systematic literature review. *Renewable and Sustainable Energy Reviews*, 148, 111256.
94. Li, D., Newman, G. D., Wilson, B., Zhang, Y., & Brown, R. D. (2021). Modeling the relationships between historical redlining, urban heat, and heat-related emergency department visits: An examination of 11 Texas cities. *Environment and Planning B: Urban Analytics and City Science*, 23998083211039854.
93. Kim, S.W. and R. D. Brown. 2021. Urban heat island (UHI) intensity and magnitude estimations: A systematic literature review. *Science of the Total Environment* 779, 146389
92. Vanos, J., Brown, R.D. In memoriam of Professor Terry Gillespie. *Int J Biometeorol* **65**, 985–987 (2021). <https://doi.org/10.1007/s00484-021-02144-7>
91. Vanos, J.K., Rykaczewski, K., Middel, A. *et al.* Improved methods for estimating mean radiant temperature in hot and sunny outdoor settings. *Int J Biometeorol* **65**, 967–983 (2021). <https://doi.org/10.1007/s00484-021-02131-y>
90. Lin J, Brown RD. Integrating Microclimate into Landscape Architecture for Outdoor Thermal Comfort: A Systematic Review. *Land*. 2021; 10(2):196. <https://doi.org/10.3390/land10020196>
- 2020
89. McWilliam, W., Wesener, A., Sukumar, A. and Brown, R.D., 2020. Reducing the Incidence of Skin Cancer through Landscape Architecture Design Education. *Sustainability*, 12(22), p.9402.
88. Lenzholzer, S., Carsjens, G.J., Brown, R.D., Tavares, S., Vanos, J., Kim, Y. and Lee, K., 2020. Awareness of urban climate adaptation strategies—an international overview. *Urban Climate*, 34, p.100705.
87. Cheng, W., J.O. Spengler, and R.D. Brown. 2020. A Comprehensive Model for Estimating Heat Vulnerability of Young Athletes. *International Journal of Environmental Research and Public Health*. Impact Factor 2.468
86. Hastings, S., Kim, S.W. and Brown, R.D., 2020. Face Temperature as an Indicator of Thermal Stress in Outdoor Work Environments. *Atmosphere*, 11(6), p.627. Impact Factor: 1.704
85. Cheng, W., Brown, R., Vernez, D. and Goldberg, D., 2020. Estimation of Individual Exposure to Erythral Weighted UVR by Multi-Sensor Measurements and Integral Calculation. *Sensors*, 20(15). Impact Factor 3.031

84. Lian, Z., Liu, B. and Brown, R.D., 2020. Exploring the Suitable Assessment Method and Best Performance of Human Energy Budget Models for Outdoor Thermal Comfort in Hot and Humid Climate Area. *Sustainable Cities and Society*. Impact Factor: 5.268. Cite Score: 7.5
83. Lenzholzer, S., Carsjens, G.J., Brown, R.D., Tavares, S., Vanos, J., Kim, Y. and Lee, K., 2020. Urban climate awareness and urgency to adapt: An international overview. *Urban Climate*, 33. Impact Factor: 3.834. Cite Score: 5.6
82. Sohn, W., Kim, J.H., Li, M.H., Brown, R.D. and Jaber, F.H., 2020. How does increasing impervious surfaces affect urban flooding in response to climate variability? *Ecological Indicators*, 118. Impact Factor: 4.800
81. Teshnehdel, S., H. Akbari, E. Di Giuseppe, and R.D. Brown. 2020. Effect of tree cover and tree species on microclimate and pedestrian comfort in a residential district in Iran. *Building and Environment*. Impact Factor 4.82
80. Cheng, W. and R.D. Brown. 2020. An Energy Budget Model for Estimating the Thermal Comfort of Children. *International Journal of Biometeorology*. Impact factor 2.377
79. Liu, Z., R. D. Brown, S. Zheng, L. Zhang, L. Zhao. 2020. The Effect of Trees on Human Energy Fluxes: An experimental study in Guangzhou, China. *International Journal of Biometeorology*. Impact factor 2.377
78. Zhao, L., Z. Liu, R. D. Brown, S. Zheng, and Y. Jiang. 2020. An In-Depth Analysis of the Effect of Trees on Human Energy Fluxes. *Urban Forestry and Urban Greening*. Impact factor 3.043
77. Brown, R.D, T. Tasnum, and Y.J. Kim. 2020. Assessing U.S. Landscape Architecture Faculty Research Contribution. *Land*. 9(3), 64; <https://doi.org/10.3390/land9030064> Impact factor 2.180
76. Brown, R.D. and R.C. Corry. 2020. Evidence-Based Landscape Architecture for Human Health and Well-Being. *Sustainability*. Impact factor 2.592
- 2019
75. Brown, R.D. 2019. Correcting the Error in Measuring Radiation Received by a Person: Introducing Cylindrical Radiometers. *Sensors*. 19 (23), 5085 Impact factor 3.031
74. Liu, B., Lian, Z. and Brown, R.D., 2019. Effect of Landscape Microclimates on Thermal Comfort and Physiological Wellbeing. *Sustainability*, 11 (19) 5387. Impact Factor 2.075
73. Stryker, J.A., Atkinson, J.L., Brown, R.D., Barney, D., Robinson, J.A.B., Duncan, J. and Finegan, E.J., 2019. Behavioral repertoire assessment of Bengal tigers (*Panthera tigris*) with focus on thermoregulatory behavior. *International journal of biometeorology*, pp.1-11. Impact factor 2.377
72. Vanos, J.K., Kosaka, E., Iida, A., Yokohari, M., Middel, A., Scott-Fleming, I. and Brown, R.D., 2019. Planning for spectator thermal comfort and health in the face of extreme heat: The Tokyo 2020 Olympic marathons. *Science of The Total Environment*, 657, pp.904-917. Impact factor 5.589

71. Sohn, W., Kim, J.H., Li, M.H. and Brown, R., 2019. The influence of climate on the effectiveness of low impact development: A systematic review. *Journal of environmental management*, 236, pp.365-379. Impact factor 4.865

70. Langley, W.N., R.C. Corry, and R.D. Brown. 2019. Core Knowledge Domains of Landscape Architecture. *Landscape Journal* 37:1 pp 9-21 Impact factor 0.117

69. French, E., J. Birchall, K. Landman, and R.D. Brown. 2019. Designing public open space to support seismic resilience: A systematic review. *International Journal of Disaster Risk Reduction*. (34) pp. 1-10 Impact factor 2.568

2018

68. Brown, R.D. 2018. Urban Design and City Microclimates. *Atmosphere* 9, (11) 448. Impact factor 1.074

67. Herdt, A., Brown, R., Scott-Fleming, I., Cao, G., MacDonald, M., Henderson, D. and Vanos, J., 2018. Outdoor Thermal Comfort during Anomalous Heat at the 2015 Pan American Games in Toronto, Canada. *Atmosphere*, 9(8), 321. Impact factor 1.074

66. Kosaka, E., I. Akiko, J. Vanos, A. Middel, M. Yokohari, and R.D. Brown. 2018. Microclimate Variation and Estimated Heat Stress of Runners in the 2020 Tokyo Olympic Marathon. *Atmosphere* 9(5), 192. Impact factor 1.074

65. Cox, V.S.K, R.C. Corry, and R.D. Brown 2018. Assessing UVB radiation received by school children in mid-latitude Ontario, Canada. *Children, Youth and Environments*. 28(1), pp.30-41.

2017

64. Graham, D.A., Vanos, J.K., Kenny, N.A. and Brown, R.D., 2017. Modeling the Effects of Urban Design on Emergency Medical Response Calls during Extreme Heat Events in Toronto, Canada. *International Journal of Environmental Research and Public Health*, 14(7), p.778.

63. Briggs, A.G., Gillespie, T.J. and Brown, R.D., 2017. Measuring facial cooling in outdoor windy winter conditions: an exploratory study. *International Journal of Biometeorology*, pp.1-5.

62. Waffle, A.D., Corry, R.C., Gillespie, T.J. and Brown, R.D., 2017. Urban heat islands as agricultural opportunities: An innovative approach. *Landscape and Urban Planning*, 161, pp.103-114.

2016

61. Lenzholzer, S. and Brown, R.D., 2016. Post-positivist microclimatic urban design research: A review. *Landscape and Urban Planning*, 153, pp.111-121.
60. Graham, D.A., Vanos, J.K., Kenny, N.A. and Brown, R.D., 2016. The relationship between neighbourhood tree canopy cover and heat-related ambulance calls during extreme heat events in Toronto, Canada. *Urban Forestry & Urban Greening*, 20, pp.180-186.
59. Milburn, L.A.S. and Brown, R.D., 2016. Research productivity and utilization in landscape architecture. *Landscape and Urban Planning*, 147, pp.71-77.

2015

58. McWilliam, W., Brown, R., Eagles, P., & Seasons, M. (2015). Evaluation of planning policy for protecting green infrastructure from loss and degradation due to residential encroachment. *Land Use Policy*, 47, 459-467.
57. Brown, R., Vanos, J., Kenny, N., & Lenzholzer, S. (2015). Designing urban parks that ameliorate the effects of climate change. *Landscape and Urban Planning*, 138, 118-131.
56. Mazhar, N., Brown, R., Kenny, N., & Lenzholzer, S. (2015). Thermal Comfort of Outdoor Spaces in Lahore Pakistan: Lessons for Bioclimatic Urban Design in the Context of Global Climate Change. *Landscape and Urban Planning*, 138, 110-117.

2014 and earlier

55. McWilliam, W., Eagles, P., Seasons, M., & Brown, R. D. (2014). Barriers to the effective planning and management of residential encroachment within urban forest edges: a Southern Ontario case study. *Urban Forestry & Urban Greening*, 13 (1), 48-62.
54. Lenzholzer, S. & Brown, R. (2013). Climate-Responsive Landscape Architecture Design Education. *Journal of Cleaner Production*, 61, 89-99.
53. Young, T., Finegan, E., & Brown, R. (2013). Effects of Summer Microclimates on Behavior of Lions and Tigers in Zoos. *International Journal of Biometeorology*, 57 (3), 381-190.
52. McWilliam, W. & Brown, R. (2012). Effectiveness of boundary structures in limiting residential encroachment into urban forests. *Landscape Research*, 37 (3), 301-325.
51. McWilliam, W., Eagles, P., Seasons, M., & Brown, R. (2012). Evaluation of planning and management approaches for limiting residential encroachment impacts within forest edges: A Southern Ontario case study. *Urban Ecosystems*, 15 (3), 753-772.
50. Vanos, J. K., Slater, G. A., Warland, J. S., Brown, R. D., Gillespie, T. J., NA Kenny (2012). Human energy budget modeling in urban parks in Toronto, Ontario and applications to emergency stress preparedness. *Journal of Applied Meteorology and Climatology*.
49. Corry, R. C., Laforteza, R., & Brown, R. D. (2011). Cultural acceptability of alternative pit and quarry rehabilitations. *Ecological Restoration*, 29, 64-72.

48. Brown, R., Kenny, N. A., & Corry, R. C. (2011). Testing the Microclimatic Habitat Design Framework in abandoned sand and gravel extraction sites using the Karner blue butterfly. *Ecological Restoration*, 29, 52-63.
47. Jackson, D. B., Kelly, S. D., & Brown, R. D. (2011). Design guidelines for integrating amphibian habitat into golf course landscapes. *Landscape and Urban Planning*, 103, 156-165.
46. Brown, R. (2011). Ameliorating the effects of climate change: Modifying microclimates through design. *Landscape and Urban Planning*, 100, 372-374.
45. Brown, R. & Corry, R. C. (2011). Evidence-Based Landscape Architecture: The Maturing of a Profession. *Landscape and Urban Planning*, 100, 327-329.
44. McWilliam, W., Eagles, P., Seasons, M., & Brown, R. (2010). The housing-forest interface: testing structural approaches for protecting suburban natural systems following development. *Urban Forestry & Urban Greening*, 9, 149-159.
43. McWilliam, W., Eagles, P., Seasons, M., & Brown, R. (2010). Assessing the degradation effects of local residents on urban forests in Ontario, Canada. *Arboriculture & Urban Forestry*, 36, 253-260.
42. Milburn, L., Brown, R., & Mulley, S. (2010). "...silver in the stars and gold in the morning sun": non-farm rural landowners' motivations for rural living and attachment to their land. *Landscape Research*, 35, 27-46.
41. Corry, R. C., Laforteza, R., & Brown, R. D. (2010). Ecological functionality of landscapes with alternative rehabilitations of depleted aggregate sites. *International Journal of Mining, Reclamation and Environment*, 24, 216-232.
40. Kenny, N. A., Warland, J. S., Brown, R. D., & Gillespie, T. J. (2009). Part A: Assessing the performance of the COMFA outdoor thermal comfort model on subjects performing physical activity. *International Journal of Biometeorology*, 53, 415-428.
39. Kenny, N. A., Warland, J. S., Brown, R. D., & Gillespie, T. J. (2009). Part B: Revisions to the COMFA outdoor thermal comfort model for application to subjects performing physical activity. *International Journal of Biometeorology*, 53, 429-441.
38. Laforteza, R., Corry, R., Sanesi, G., & Brown, R. D. (2008). Visual preference and ecological assessments for designed alternative brownfield rehabilitations. *Journal of Environmental Management*, 89, 257-269.
37. Kenny, N. A., Warland, J. S., Brown, R. D., & Gillespie, T. J. (2008). Estimating the radiation absorbed by a human. *International Journal of Biometeorology*, 52, 491-503.
36. Corry, R., Laforteza, R., Brown, R. D., & Robertson, P. J. (2008). Using Landscape Context to Guide Ecological Restoration: An Approach for Pits and Quarries in Ontario. *Ecological Restoration*, 26, 120-127.
35. Tang, J. & Brown, R. D. (2006). The Effect of Viewing a Landscape on Physiological Health of Elderly Women. *Journal of Housing for the Elderly*, 19, 189-204.
34. Laforteza, R., Sanesi, G., & Brown, R. D. (2004). Emerging Relationships Between Structure and Ecological Function in the Landscape. *Landscape Review*, 9, 149-155.

33. Ward, R., Sarah, E., & Brown, R. D. (2004). A Framework for Incorporating the Prevention of Lyme Disease Transmission into the Landscape Planning and Design Process. *Landscape and Urban Planning*, 66, 91-104.
32. Laforteza, R. & Brown, R. D. (2004). A Framework for Landscape Ecological Design of New Patches in the Rural Landscape. *Environmental Management*, 34, 461-473.
31. Milburn, R., Lee-Anne, M., Brown, R. D., Hilts, S. G., & Mulley, S. J. (2003). Assessing Academic Contributions in Landscape Architecture. *Landscape and Urban Planning*, 64, 119-129.
30. Lynn, N. A. & Brown, R. D. (2003). Effects of Recreational Use Impacts on Hiking Experiences in Natural Areas. *Landscape and Urban Planning*, 64, 77-87.
29. Milburn, L. & Brown, R. (2003). The Relationship Between Research and Design in Landscape Architecture. *Landscape and Urban Planning*, 64, 47-66.
28. Oxley, I., C, A., & Brown, R. D. (2003). Sustainability of Wilderness Sea Kayaking in the Bay of Fundy, Canada. *Ocean & Coastal Management*, 46, 189-197.
27. Laforteza, R., Sanesi, G., & Brown, R. (2003). Un approccio metodologico allaprogettazione di nuove aree verdi ad uso ricreativo e sportivo. *Genio Rurale - Estimo e Territorio*, 3, 20-29.
26. Milburn, L. & Brown, R. (2003). The Relationship of Age, Gender, and Education to Research Productivity in Landscape Architecture Faculty in North America. *Landscape Journal: design, planning, and management of the land*, 22, 54-62.
25. Hands, D. & Brown, R. (2002). Enhancing Visual Preference of Ecological Rehabilitation Sites. *Landscape and Urban Planning*, 58, 57-70.
24. Milburn, L. S., Brown, R. D., & Paine, C. (2001). "Research on Research": Research Attitudes and Behaviors of Landscape Architecture Faculty in North America. *Landscape and Urban Planning*, 57, 57-67.
23. Yokohari, M., Brown, R. D., Kato, K., & Yamamoto, S. (2001). The Cooling Effects of Paddy Fields on Summertime Air Temperature in Residential Tokyo, Japan. *Landscape and Urban Planning*, 53, 17-26.
22. McWilliam, W. & Brown, R. (2001). Effect of a Housing Development on Bird Species Diversity in a Forest Fragment in Ontario, Canada. *Landscape Research*, 26, 407-419.
21. Schwets, T. & Brown, R. D. (2000). Form and Structure of Maple Trees in Urban Environments. *Landscape and Urban Planning*, 46, 191-201.
20. LeBlanc, R. T. & Brown, R. D. (2000). The Use of Riparian Vegetation in Stream Temperature Modification. *Water and Environment Journal*, 14, 297-303.
19. LeBlanc, R. T., Brown, R., & FitzGibbon, J. (1997). Modeling the effects of land use change on the water temperature in unregulated urban streams. *Journal of Environmental Management*, 49, 445-469.
18. Kato, Y., Yokohari, M., & Brown, R. D. (1997). Integration and visualization of the ecological value of rural landscapes in maintaining the physical environment of Japan. *Landscape and Urban Planning*, 39, 69-82.

17. Yokohari, M., Brown, R. D., Kato, Y., & Moriyama, H. (1997). Effects of Paddy Fields on Summertime Air and Surface Temperatures in Urban Fringe Areas of Japan. *Landscape and Urban Planning*, 38, 1-11.
16. Fleury, A. M. & Brown, R. D. (1997). A framework for the design of wildlife conservation corridors with specific application to southwestern Ontario. *Landscape and Urban Planning*, 37, 163-186.
15. McGuckin, C. & Brown, R. (1995). A Landscape Ecological Model for Wildlife Enhancement of Stormwater Management Practices in Urban Greenways. *Landscape and Urban Planning*, 33, 227-246.
14. Baschak, L. A. & Brown, R. D. (1995). An Ecological Framework for the planning, design, and management of Urban River Greenways. *Landscape and Urban Planning*, 33, 211-225.
13. Takeuchi, K., Ide, M., Yokohari, M., & Brown, R. D. (1995). The relationship of landform and biodiversity in landscape ecology. *Transactions of the Japanese Geomorphological Union.*, 16, 215-225.
12. Brown, R., Hallett, M. E., & Stoltz, R. R. (1994). Student Learning Styles in Landscape Architecture Education. *Landscape and Urban Planning*, 30, 151-157.
11. Stoltz, R. R. & Brown, R. D. (1994). The Application of a Pedagogical Framework to the Design of University Courses. *Landscape and Urban Planning*, 30, 159-168.
10. Yokohari, M., Brown, R. D., & Takeuchi, K. (1994). A Framework for the Conservation of Rural Ecological Landscapes in the Urban Fringe Area in Japan. *Landscape and Urban Planning*, 29, 103-116.
9. Brown, R., O'Neill, S., & Gillespie, T. J. (1994). An Evaluation of the Solar Radiant Environment in the Shade of Deciduous Trees. *Arboricultural Journal*, 18, 193-204.
8. Deadman, P. J., Brown, R. D., & Gimblett, R. (1993). Modelling Rural Residential Settlement Pattern with Cellular Automata. *Journal of Environmental Management*, 37, 147-160.
7. Brown, R. D. & Gillespie, T. J. (1991). Estimating Crop Top Microclimates from Weather Station Data. *Atmosphere-Ocean*, 29, 110-132.
6. Brown, R. (1991). Personality Types in Landscape Architecture. *Landscape Review*, 9-14.
5. Kryś, S. A. & Brown, R. D. (1990). Measuring and Estimating Radiation Absorbed by a Vertical Cylinder in Complex Outdoor Environments. *International Journal of Biometeorology*, 34, 69-75.
4. Brown, R. & Gillespie, T. J. (1990). Estimating Radiation Received by a Person Under Different Species of Shade Trees. *Journal of Arboriculture*, 16, 158-161.
3. Brown, R., Kryś, S. A., & Gillespie, T. J. (1990). A Model for Estimating Radiation Received by a Person in the Landscape. *Landscape Research*, 15, 158-161.
2. Brown, R. & Cherkezoff, L. E. (1989). Of What Comfort Value, a Tree? *Journal of Arboriculture*, 4, 6-9.

1. Brown, R. & Gillespie, T. J. (1986). Estimating Outdoor Thermal Comfort Using a Cylindrical Radiation Thermometer and an Energy Budget Model. *International Journal of Biometeorology*, 30, 43-52.

Refereed Books

Book

5. Brown, R. (2010). *Design with Microclimate: The Secret to Comfortable Outdoor Space*. Washington D.C.: Island Press.
4. Brown, R. & Guan, Y. (2009). *Landscape Assessment for Planning and Design: Seeing the Landscape Again for the First Time*. China: Chinese Architectural and Building Press. In Chinese.
3. Brown, R. (2008). *Landscape Assessment for Planning and Design: Seeing the Landscape Again for the First Time*. Germany: VDM-Verlag.
2. Takeuchi, K., Brown, R., Washitani, I., Tsunekawa, A., & Yokohari, M. (2003). *Satayama: The Traditional Rural Landscape of Japan*. Tokyo: Springer-Verlag.
1. Brown, R. & Gillespie, T. J. (1995). *Microclimatic Landscape Design: Creating Thermal Comfort and Energy Efficiency*. New York: John Wiley & Sons.

Chapters in Books

19. Brown, R. & Gillespie, T. (2016). Thermally Comfortable Urban Environments.in *Landscape Architecture Research Methods*. Routledge. (pp. 263-284)
18. Laforteza, R., Corry, R., Sanesi, G., & Brown, R. (2008). Cultural Determinants of Spatial Heterogeneity in Forest Landscapes. *Patterns and Processes in Forest Landscapes*. (pp. 17-32). Springer.
17. Brown, R. & LeBlanc, R. (2007). Modifying Microclimates. *Landscape Architectural Graphic Standards: Student Edition*. John Wiley & Sons.
16. Gillespie, T. & Brown, R. (2007). Modifying Air Quality. *Landscape Architectural Graphic Standards: Student Edition*. New York: John Wiley & Sons.
15. Brown, R. & LeBlanc, R. (2007). Modifying Solar Radiation. *Landscape Architectural Graphic Standards: Student Edition*. New York.: John Wiley & Sons.
14. Gillespie, T. & Brown, R. (2007). Regional Climate. *Landscape Architectural Graphic Standards: Student Edition*. New York: John Wiley & Sons.
13. Brown, R. & LeBlanc, R. (2006). Modifying Wind. *Landscape Architectural Graphic Standards: Student Edition*. New York: John Wiley & Sons.
12. Tang, J. & Brown, R. (2006). The Effect of Viewing a Landscape on Physiological Health of Elderly Women.. *The Role of Outdoors in Residential Environments for Ageing*. New York: Haworth Press.

11. Seguchi, R., Brown, R., & Takeuchi, K. (2006). Land use Change From Traditional to Modern Eras: Saitama Prefecture, Japan. *Landscape Ecological Applications in Man-Influenced Areas – Linking Man and Nature Systems*. Tokyo: Springer-Verlag.
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Invited Lectures and Presentations

13. Brown, R. 2015. *The value of urban biodiversity in ameliorating global climate change and urban heat island intensification*. The 3rd GPSS-GLI International Symposium: Exploring the Frontiers of Sustainability Science. Tokyo, Japan
12. Brown, R. (2014). *Ameliorating the effects of global climate change through design*. Expert Seminar: Climate Responsive Design, Wageningen, Netherlands.

11. Brown, R. (2008). *Urban Microclimates: From Ryoan-Ji Temple to the New York Times Tower*. University of Adelaide, Adelaide, Australia.
10. Brown, R. (2006). *Urban Heat Islands, Arizona, and You*. University of Arizona, Tucson, Arizona.
9. Brown, R. (2006). *Urban Forestry to Cool Communities: Connecting Design to Microclimate*. Patterns and Processes in Forest Landscapes: Consequences of Human Management, Bari, Italy.
8. Brown, R. (2004). *Sustainable Landscape Planning: The Japanese Experience*. Brazilian Association of Landscape Architects, Sao Paulo, Brazil.
7. Brown, R. (2004). *The Social and Cultural Values of Urban Green Spaces*. Universidad Nacional Federico Villarreal, Lima, Peru.
6. Brown, R. (2003). *Microclimatic Design: Creating Thermally Comfortable Public Spaces*. The Robin Smith Memorial Lecture, Saskatoon, Saskatchewan.
5. Brown, R. (2003). *The New Rural Landscape*. University of Guelph, Guelph, Ontario.
4. Brown, R. (2003). *The Socio-Cultural Value of Urban Green Spaces*. Università degli Studi di Bari, Bari, Italy.
3. Brown, R. (2000). *Establishing Sustainable Regional Communities*. Yamanashi Institute of Environmental Sciences, Yamanashi, Japan
2. Brown, R. (1994). *Using Stochastic Models to Predict the Effects of Urban Expansion on Agro-Ecosystems*. National Institute of Agro-Environmental Sciences, Tsukuba, Japan
1. Brown, R. (1990). *Put Some Byte Into Your Design: How Computers Apply to Landscape Design*. Ontario Parks Association Conference, Windsor, Ontario.

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