

# Koen Steemers

## List of Publications by Year in Descending Order

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**Version:** 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59  
papers

4,157  
citations

29  
h-index

64  
g-index

70  
ext. papers

4,654  
ext. citations

5.2  
avg, IF

5.96  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 59 | Positive Energy Districts: Identifying Challenges and Interdependencies. <i>Sustainability</i> , <b>2021</b> , 13, 10551   | 3.6  | 4         |
| 58 | The Contribution of Building-Integrated Photovoltaics (BIPV) to the Concept of Nearly Zero-Energy Cities in Europe: Potential and Challenges Ahead. <i>Energies</i> , <b>2021</b> , 14, 6015         | 3.1  | 6         |
| 57 | Urban living walls: reporting on maintenance challenges from a review of European installations. <i>Architectural Science Review</i> , <b>2020</b> , 63, 526-535                                     | 2.6  | 5         |
| 56 | Modelling energy retrofit using household archetypes. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110224  | 7    | 10        |
| 55 | Density and coverage values as indicators of thermal diversity in open spaces: Comparative analysis of London and Paris based on sun and wind shadow maps. <i>Cities</i> , <b>2020</b> , 100, 102645 | 5.6  | 5         |
| 54 | Living wall influence on the microclimates of sheltered urban conditions: results from monitoring studies. <i>Architectural Science Review</i> , <b>2020</b> , 1-12                                  | 2.6  | 2         |
| 53 | Effects of microclimate and human parameters on outdoor thermal sensation in the high-density tropical context of Dhaka. <i>International Journal of Biometeorology</i> , <b>2020</b> , 64, 187-203  | 3.7  | 12        |
| 52 | Outdoor thermal comfort and summer PET range: A field study in tropical city Dhaka. <i>Energy and Buildings</i> , <b>2019</b> , 198, 149-159   | 7    | 35        |
| 51 | Adaptive comfort assessments in urban neighbourhoods: Simulations of a residential case study from London. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109322                                   | 7    | 4         |
| 50 | Assessing the impact of a differentiated retrofit approach in UK domestic buildings. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1343, 012173                                       | 0.3  | 2         |
| 49 | Household archetypes and behavioural patterns in UK domestic energy use. <i>Energy Efficiency</i> , <b>2018</b> , 11, 761-771  | 3    | 31        |
| 48 | Modeling space preferences for accurate occupancy prediction during the design phase. <i>Automation in Construction</i> , <b>2018</b> , 93, 135-147  | 9.6  | 5         |
| 47 | Improving the soundscape quality of urban areas exposed to aircraft noise by adding moving water and vegetation. <i>Journal of the Acoustical Society of America</i> , <b>2018</b> , 144, 2906       | 2.2  | 15        |
| 46 | Forecasting how residential urban form affects the regional carbon savings and costs of retrofitting and decentralized energy supply. <i>Applied Energy</i> , <b>2017</b> , 186, 549-561             | 10.7 | 30        |
| 45 | Exposure duration in overheating assessments: a retrofit modelling study. <i>Building Research and Information</i> , <b>2017</b> , 45, 60-82   | 4.3  | 15        |
| 44 | Tailoring domestic retrofit by incorporating occupant behaviour. <i>Energy Procedia</i> , <b>2017</b> , 122, 427-432   | 2.3  | 10        |
| 43 | Microclimatic modelling in assessing the impact of urban geometry on urban thermal environment. <i>Sustainable Cities and Society</i> , <b>2017</b> , 34, 293-308                                    | 10.1 | 65        |

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| 42 | Modelling building users' space preferences for group work: a discrete-choice experiment. <i>Architectural Science Review</i> , <b>2017</b> , 60, 460-471   | 2.6  | 7   |
| 41 | Lively Social Space, Well-Being Activity, and Urban Design: Findings From a Low-Cost Community-Led Public Space Intervention. <i>Environment and Behavior</i> , <b>2017</b> , 49, 685-716                                     | 5.6  | 36  |
| 40 | Solar energy and urban morphology: Scenarios for increasing the renewable energy potential of neighbourhoods in London. <i>Renewable Energy</i> , <b>2015</b> , 73, 10-17   | 8.1  | 123 |
| 39 | Using Display Energy Certificates to quantify public sector office energy consumption. <i>Building Research and Information</i> , <b>2015</b> , 43, 691-709   | 4.3  | 20  |
| 38 | Energy retrofit and occupant behaviour in protected housing: A case study of the Brunswick Centre in London. <i>Energy and Buildings</i> , <b>2014</b> , 80, 120-130  | 7    | 71  |
| 37 | Urban Microclimates and Simulation <b>2013</b> , 77-97  |      | 4   |
| 36 | A statistical analysis of a residential energy consumption survey study in Hangzhou, China. <i>Energy and Buildings</i> , <b>2013</b> , 66, 193-202   | 7    | 116 |
| 35 | Environmental Control and the Creation of Well-being. <i>Springer Optimization and Its Applications</i> , <b>2012</b> , 69-81   | 0.4  | 1   |
| 34 | Behavioural, physical and socio-economic factors in household cooling energy consumption. <i>Applied Energy</i> , <b>2011</b> , 88, 2191-2200   | 10.7 | 158 |
| 33 | Modelling domestic energy consumption at district scale: A tool to support national and local energy policies. <i>Environmental Modelling and Software</i> , <b>2011</b> , 26, 1186-1198                                      | 5.2  | 107 |
| 32 | Using Display Energy Certificates to quantify schools' energy consumption. <i>Building Research and Information</i> , <b>2011</b> , 39, 535-552   | 4.3  | 31  |
| 31 | Night-time naturally ventilated offices: Statistical simulations of window-use patterns from field monitoring. <i>Solar Energy</i> , <b>2010</b> , 84, 1216-1231  | 6.8  | 34  |
| 30 | Energy efficient design and occupant well-being: Case studies in the UK and India. <i>Building and Environment</i> , <b>2010</b> , 45, 270-278  | 6.5  | 44  |
| 29 | Thermal performance of a naturally ventilated building using a combined algorithm of probabilistic occupant behaviour and deterministic heat and mass balance models. <i>Energy and Buildings</i> , <b>2009</b> , 41, 489-499 | 7    | 99  |
| 28 | Implications of urban settings for the design of photovoltaic and conventional façades. <i>Solar Energy</i> , <b>2009</b> , 83, 69-80   | 6.8  | 28  |
| 27 | Overview of an innovative EU-China collaboration in education and research in sustainable built environment. <i>Renewable Energy</i> , <b>2009</b> , 34, 2080-2087  | 8.1  | 6   |
| 26 | Assessing the natural ventilation cooling potential of office buildings in different climate zones in China. <i>Renewable Energy</i> , <b>2009</b> , 34, 2697-2705  | 8.1  | 57  |
| 25 | Household energy consumption: a study of the role of occupants. <i>Building Research and Information</i> , <b>2009</b> , 37, 625-637  | 4.3  | 173 |

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| 24 | Space Planning, Ventilation and Energy Efficiency in Offices. <i>International Journal of Ventilation</i> , <b>2009</b> , 8, 9-22   | 1.1 | 2   |
| 23 | Natural ventilation in practice: linking facade design, thermal performance, occupant perception and control. <i>Building Research and Information</i> , <b>2008</b> , 36, 608-624  | 4.3 | 39  |
| 22 | Space Planning and Energy Efficiency in Office Buildings: The Role of Spatial and Temporal Diversity. <i>Architectural Science Review</i> , <b>2008</b> , 51, 133-145               | 2.6 | 10  |
| 21 | Time-dependent occupant behaviour models of window control in summer. <i>Building and Environment</i> , <b>2008</b> , 43, 1471-1482   | 6.5 | 184 |
| 20 | Design and overall energy performance of a ventilated photovoltaic facade. <i>Solar Energy</i> , <b>2007</b> , 81, 383-388  | 4.4 | 116 |
| 19 | Space Planning and Energy Efficiency in Laboratory Buildings: The Role of Spatial, Activity and Temporal Diversity. <i>Architectural Science Review</i> , <b>2007</b> , 50, 281-292 | 2.6 | 3   |
| 18 | Energy policy and standard for built environment in China. <i>Renewable Energy</i> , <b>2005</b> , 30, 1973-1988  | 8.1 | 173 |
| 17 | A method of formulating energy load profile for domestic buildings in the UK. <i>Energy and Buildings</i> , <b>2005</b> , 37, 663-671   | 7   | 319 |
| 16 | Energy consumption and urban texture. <i>Energy and Buildings</i> , <b>2005</b> , 37, 762-776   | 7   | 350 |
| 15 | Ventilation strategies for urban housing: lessons from a PoE case study. <i>Building Research and Information</i> , <b>2005</b> , 33, 17-31   | 4.3 | 13  |
| 14 | Intermediate space and environmental diversity. <i>Urban Design International</i> , <b>2004</b> , 9, 61-71  | 1.6 | 2   |
| 13 | Energy and the city: density, buildings and transport. <i>Energy and Buildings</i> , <b>2003</b> , 35, 3-14   | 7   | 300 |
| 12 | Building form and environmental performance: archetypes, analysis and an arid climate. <i>Energy and Buildings</i> , <b>2003</b> , 35, 49-59  | 7   | 205 |
| 11 | Thermal comfort and psychological adaptation as a guide for designing urban spaces. <i>Energy and Buildings</i> , <b>2003</b> , 35, 95-101  | 7   | 462 |
| 10 | Towards a research agenda for adapting to climate change. <i>Building Research and Information</i> , <b>2003</b> , 31, 291-301  | 4.3 | 35  |
| 9  | Thermal comfort in outdoor urban spaces: understanding the human parameter. <i>Solar Energy</i> , <b>2001</b> , 70, 227-235   | 6.8 | 435 |
| 8  | Radiation absorption and urban texture. <i>Building Research and Information</i> , <b>1998</b> , 26, 103-112  | 4.3 | 18  |
| 7  | LT Method 3.0 as strategic energy-design tool for Southern Europe. <i>Energy and Buildings</i> , <b>1996</b> , 23, 251-256  | 7   | 29  |

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| 6 | Research into practice: Potsdamer Platz, Berlin. <i>Architectural Research Quarterly</i> , <b>1995</b> , 1, 76-81  | 0.3 |    |
| 5 | Daylighting design: Enhancing energy efficiency and visual quality. <i>Renewable Energy</i> , <b>1994</b> , 5, 950-958                                   | 8.1 | 14 |
| 4 | Research into practice: A case study in the application of technical studies in architectural design. <i>Renewable Energy</i> , <b>1991</b> , 1, 419-428 | 8.1 |    |
| 3 | Energy and Environment in Architecture   |     | 41 |
| 2 | Daylight Design of Buildings   |     | 13 |
| 1 | Active urbanism: The potential effect of urban design on bone health. <i>Cities and Health</i> , 1-15  | 2.8 | 3  |