

# Allan McRobie

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

1,023  
citations

687363

13  
h-index

526287

27  
g-index

27  
all docs

27  
docs citations

27  
times ranked

883  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Graphical Stability Analysis of Maillart's Roof at Chiasso. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2022, 32, 538-546.               | 0.8  | 3         |
| 2  | Data-driven aerodynamic analysis of structures using Gaussian Processes. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2022, 222, 104911.   | 3.9  | 8         |
| 3  | Grid-shell design and analysis via reciprocal discrete Airy stress functions. <i>International Journal of Space Structures</i> , 2022, 37, 150-164.  | 1.0  | 2         |
| 4  | Graphic stability of generalised motions. <i>International Journal of Solids and Structures</i> , 2022, 256, 111787.   | 2.7  | 2         |
| 5  | Stability of trusses by graphic statics. <i>Royal Society Open Science</i> , 2021, 8, 201970.  | 2.4  | 5         |
| 6  | Emergence of the London Millennium Bridge instability without synchronisation. <i>Nature Communications</i> , 2021, 12, 7223.  | 12.8 | 12        |
| 7  | Unified geometrical framework for the plastic design of reinforced concrete structures. <i>Structural Concrete</i> , 2020, 21, 2320-2338.  | 3.1  | 2         |
| 8  | Discontinuous Maxwell-Rankine stress functions for space frames. <i>International Journal of Space Structures</i> , 2018, 33, 35-47.   | 1.0  | 1         |
| 9  | Polarities in structural analysis and design: n-dimensional graphic statics and structural transformations. <i>International Journal of Solids and Structures</i> , 2018, 152-153, 272-293.  | 2.7  | 25        |
| 10 | Graphic kinematics, visual virtual work and elastographics. <i>Royal Society Open Science</i> , 2017, 4, 170202.   | 2.4  | 5         |
| 11 | The geometry of structural equilibrium. <i>Royal Society Open Science</i> , 2017, 4, 160759.   | 2.4  | 12        |
| 12 | Maxwell and Rankine reciprocal diagrams via Minkowski sums for two-dimensional and three-dimensional trusses under load. <i>International Journal of Space Structures</i> , 2016, 31, 203-216.                                     | 1.0  | 31        |
| 13 | Mechanisms and states of self-stress of planar trusses using graphic statics, part I: The fundamental theorem of linear algebra and the Airy stress function. <i>International Journal of Space Structures</i> , 2016, 31, 85-101. | 1.0  | 28        |
| 14 | Mechanisms and states of self-stress of planar trusses using graphic statics, part II: Applications and extensions. <i>International Journal of Space Structures</i> , 2016, 31, 102-111.  | 1.0  | 20        |
| 15 | Graphic statics using discontinuous Airy stress functions. <i>International Journal of Space Structures</i> , 2016, 31, 121-134.   | 1.0  | 18        |
| 16 | Infrastructure Provision, Gender, and Poverty in Indian Slums. <i>World Development</i> , 2015, 66, 468-486.   | 4.9  | 72        |
| 17 | How large is the Upper Indus Basin? The pitfalls of auto-delineation using DEMs. <i>Journal of Hydrology</i> , 2014, 509, 442-453.   | 5.4  | 78        |
| 18 | Parallels between wind and crowd loading of bridges. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120430.   | 3.4  | 16        |

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|----|---|------|-----------|
| 19 | The Lateral Dynamic Stability of Stockton Infinity Footbridge Using Complex Modes. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2012, 22, 545-551. | 0.8  | 7         |
| 20 | Engineering as a tool for improving human habitat. International Journal of Management and Decision Making, 2009, 10, 270.  | 0.1  | 10        |
| 21 | Nonlinear Dynamics of Mechanical Systems Under Complicated Forcing. Nonlinear Dynamics, 2006, 43, 127-136.  | 5.2  | 1         |
| 22 | Crowd synchrony on the Millennium Bridge. Nature, 2005, 438, 43-44.   | 27.8 | 474       |
| 23 | Theoretical mechanics: Crowd synchrony on the Millennium Bridge. Nature, 2005, 438, 43-44.  | 27.8 | 129       |
| 24 | Diversity and Adaptation of Shelters in Transitional Settlements for IDPs in Afghanistan. Disasters, 2003, 27, 273-287.   | 2.2  | 15        |
| 25 | A comparative study of numerical methods for fluid structure interaction analysis in long-span bridge design. Wind and Structures, an International Journal, 2002, 5, 101-114.  | 0.8  | 27        |
| 26 | The post-processed Galerkin method applied to non-linear shell vibrations. Dynamical Systems, 1999, 14, 163-181.  | 0.7  | 19        |