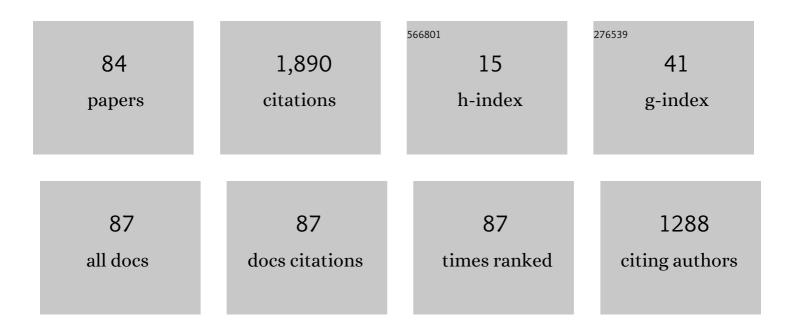


List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5055559/publications.pdf Version: 2024-02-01



| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Exploring the spatio-temporal characteristics and driving factors of urban expansion in Xi'an during 1930–2014. International Journal of Urban Sciences, 2023, 27, 39-64. | 1.3 | 4 |
| 2 | Evaluating the effectiveness of online teaching in architecture courses. Architectural Science Review, 2022, 65, 89-100. | 1.1 | 11 |
| 3 | The role of spatial configuration in moderating the relationship between social sustainability and urban density. Cities, 2022, 121, 103519. | 2.7 | 14 |
| 4 | The Identification, Development, and Evaluation of BIM-ARDM: A BIM-Based AR Defect Management System for Construction Inspections. Buildings, 2022, 12, 140. | 1.4 | 23 |
| 5 | A statistical shape grammar approach to analysing and generating design instances of Murcutt's domestic architecture. Environment and Planning B: Urban Analytics and City Science, 2021, 48, 929-944. | 1.0 | 2 |
| 6 | Impact of ecological security on urban sustainability in Western China—A case study of Xi'an. Environment and Planning B: Urban Analytics and City Science, 2021, 48, 1314-1339. | 1.0 | 1 |
| 7 | Explanatory defect causation model linking digital innovation, human error and quality improvement in residential construction. Automation in Construction, 2021, 123, 103505. | 4.8 | 13 |
| 8 | Linguistic and cultural perspectives on globalised design education. International Journal of Technology and Design Education, 2021, 31, 165-181. | 1.7 | 4 |
| 9 | Parametric Design: Theoretical Development and Algorithmic Foundation for Design Generation in Architecture. , 2021, , 1361-1383. | | 4 |
| 10 | A Critical Review of Computational Creativity in Built Environment Design. Buildings, 2021, 11, 29. | 1.4 | 8 |
| 11 | Shape Grammars: A Key Generative Design Algorithm. , 2021, , 1385-1405. | | 1 |
| 12 | Exploring the spatial pattern of historic Chinese towns and cities: A syntactical approach. Frontiers of Architectural Research, 2021, 10, 598-613. | 1.3 | 14 |
| 13 | Special double edition: socio-technological approaches to understanding and measuring building performance. Architectural Science Review, 2020, 63, 233-234. | 1.1 | 0 |
| 14 | Design Thinking: Creativity, Collaboration and Culture. , 2020, , . | | 12 |
| 15 | Walking distances from services and destinations for residential aged-care centres in Australian cities. Journal of Transport Geography, 2020, 85, 102707. | 2.3 | 6 |
| 16 | Design Strategies and Creativity. , 2020, , 33-63. | | 0 |
| 17 | Collaborative Design: Team Cognition and Communication. , 2020, , 113-145. | | 2 |
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| # | Article | IF | CITATIONS |
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| 19 | Design Thinking and Building Information Modelling. , 2020, , 147-163. | | 3 |
| 20 | Design Thinking Across Borders. , 2020, , 191-209. | | 0 |
| 21 | Measuring Cognitive Complexity. , 2020, , 85-110. | | 0 |
| 22 | The Language of Design Thinking. , 2020, , 211-233. | | 0 |
| 23 | Design Thinking and the Digital Ecosystem. , 2020, , 165-188. | | Ο |
| 24 | Conclusion: Three C's of Design Thinking. , 2020, , 237-245. | | 0 |
| 25 | Creative Micro-processes in Parametric Design. , 2020, , 65-84. | | 0 |
| 26 | Spatial Configuration and Density. International Review for Spatial Planning and Sustainable Development, 2020, 8, 87-100. | 0.6 | 4 |
| 27 | VRGlare: A Virtual Reality Lighting Performance Simulator for real-time Three-Dimensional Glare Simulation and Analysis. , 2020, , . | | 4 |
| 28 | Investigating the Social Impacts of High-Density Neighbourhoods Through Spatial Analysis. Communications in Computer and Information Science, 2019, , 264-278. | 0.4 | 2 |
| 29 | Cognitive and linguistic differences in architectural design. Architectural Science Review, 2019, 62, 248-260. | 1.1 | 10 |
| 30 | Mathematically defining and parametrically generating Traditional Chinese Private Gardens of the Suzhou Region and Style. Environment and Planning B: Urban Analytics and City Science, 2018, 45, 44-66. | 1.0 | 4 |
| 31 | A Justified Plan Graph (JPG) grammar approach to identifying spatial design patterns in an architectural style. Environment and Planning B: Urban Analytics and City Science, 2018, 45, 67-89. | 1.0 | 15 |
| 32 | Representation in Design Communication: Meaning-Making in a Collective Context. Frontiers in Built Environment, 2018, 4, . | 1.2 | 4 |
| 33 | Evaluating creativity in parametric design environments and geometric modelling environments. Architectural Science Review, 2018, 61, 443-453. | 1.1 | 5 |
| 34 | Parametric Design: Theoretical Development and Algorithmic Foundation for Design Generation in Architecture. , 2018, , 1-22. | | 1 |
| 35 | Shape Grammars: A Key Generative Design Algorithm. , 2018, , 1-21. | | 1 |
| 36 | A Design Grammar for Identifying Spatial Uniqueness of Murcutt's Rural Houses. KAIST Research Series, 2018, , 189-203. | 1.5 | 4 |

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| 37 | Historical building information model (BIM)+: sharing, preserving and reusing architectural design data. , 2018, , 123-144. | | 1 |
| 38 | A Combined Plan Graph and Massing Grammar Approach to Frank Lloyd Wright's Prairie Architecture. Nexus Network Journal, 2017, 19, 279-299. | 0.5 | 17 |
| 39 | Viraph: exploring the potentials of visibility graphs and their analysis. Visualization in Engineering, 2017, 5, . | 8.8 | 5 |
| 40 | Cognitive Challenges for Teamwork in Design. Advances in Higher Education and Professional Development Book Series, 2017, , 55-75. | 0.1 | 3 |
| 41 | The language of design: Spatial cognition and spatial language in parametric design. International Journal of Architectural Computing, 2016, 14, 277-288. | 0.9 | 10 |
| 42 | Representation in Collective Design: Are There Differences Between Expert Designers and the Crowd?. Lecture Notes in Computer Science, 2016, , 59-68. | 1.0 | 2 |
| 43 | The mathematics of spatial transparency and mystery: using syntactical data to visualise and analyse the properties of the Yuyuan Garden. Visualization in Engineering, 2016, 4, . | 8.8 | 16 |
| 44 | A syntactical comparative analysis of the spatial properties of Prairie style and Victorian domestic architecture. Journal of Architecture, 2016, 21, 348-374. | 0.1 | 13 |
| 45 | Architects' Cognitive Behaviour in Parametric Design. International Journal of Architectural Computing, 2015, 13, 83-101. | 0.9 | 13 |
| 46 | Empirical support for problem–solution coevolution in a parametric design environment. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2015, 29, 33-44. | 0.7 | 25 |
| 47 | Creativity and parametric design? Comparing designer's cognitive approaches with assessed levels of creativity. International Journal of Design Creativity and Innovation, 2015, 3, 78-94. | 0.8 | 28 |
| 48 | A syntactical and grammatical approach to architectural configuration, analysis and generation. Architectural Science Review, 2015, 58, 189-204. | 1.1 | 24 |
| 49 | Parametrically Generating New Instances of Traditional Chinese Private Gardens that Replicate Selected Socio-Spatial and Aesthetic Properties. Nexus Network Journal, 2015, 17, 807-829. | 0.5 | 19 |
| 50 | Generative Design Grammars: An Intelligent Approach Towards Dynamic and Autonomous Design. , 2015, , 619-631. | | 0 |
| 51 | Pentexonomy. International Journal of Web-Based Learning and Teaching Technologies, 2014, 9, 41-59. | 0.6 | 7 |
| 52 | Parametric Design Strategies for the Generation of Creative Designs. International Journal of Architectural Computing, 2014, 12, 263-282. | 0.9 | 27 |
| 53 | Evaluating Creativity in Parametric Design Processes and Products: A Pilot Study. , 2014, , 165-183. | | 10 |
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| 55 | Methods for Assessing 3D Virtual Worlds in Design Education. Advances in Game-based Learning Book Series, 2014, , 152-174. | 0.2 | 0 |
| 56 | Information lifecycle management with RFID for material control on construction sites. Advanced Engineering Informatics, 2013, 27, 108-119. | 4.0 | 51 |
| 57 | A shape grammar approach to computational creativity and procedural content generation in massively multiplayer online role playing games. Entertainment Computing, 2013, 4, 115-130. | 1.8 | 14 |
| 58 | Comparing Designers' Behavior in Responding to Unexpected Discoveries in Parametric Design Environments and Geometry Modeling Environments. International Journal of Architectural Computing, 2013, 11, 393-414. | 0.9 | 8 |
| 59 | Comparing Designers' Problem-Solving Behavior in a Parametric Design Environment and a Geometric Modeling Environment. Buildings, 2013, 3, 621-638. | 1.4 | 13 |
| 60 | Impact of Using Rule Algorithms on Designers' Behavior in a Parametric Design Environment: Preliminary Result from a Pilot Study. Communications in Computer and Information Science, 2013, , 13-22. | 0.4 | 5 |
| 61 | Understanding Cognitive Activities in Parametric Design. Communications in Computer and Information Science, 2013, , 38-49. | 0.4 | 9 |
| 62 | Towards an integrated generative design framework. Design Studies, 2012, 33, 185-207. | 1.9 | 161 |
| 63 | Notice of Retraction: Exploring students' demonstration of professional work integrated learning through e-portfolios. , 2011, , . | | 0 |
| 64 | Notice of Retraction: Examining the use of digital design and fabrication technologies in design education. , 2011, , . | | 0 |
| 65 | Automation in construction: Special issue CONVR 2009. Automation in Construction, 2011, 20, 227. | 4.8 | 0 |
| 66 | Technological advancements in synchronous collaboration: The effect of 3D virtual worlds and tangible user interfaces on architectural design. Automation in Construction, 2011, 20, 270-278. | 4.8 | 51 |
| 67 | A theoretical framework of a BIM-based multi-disciplinary collaboration platform. Automation in Construction, 2011, 20, 134-144. | 4.8 | 439 |
| 68 | Virtuality – Offering Opportunities for Creativity?. , 2011, , 183-190. | | 0 |
| 69 | Design Collaboration for Intelligent Construction Management in Mobilie Augmented Reality. , $2011,$, . | | 2 |
| 70 | Understanding and facilitating BIM adoption in the AEC industry. Automation in Construction, 2010, 19, 988-999. | 4.8 | 607 |
| 71 | Interactive Graphical Representation for Collaborative 3D Virtual Worlds. Computer-Aided Civil and Infrastructure Engineering, 2010, 25, 55-68. | 6.3 | 12 |
| 72 | Interactive Graphical Representation for Architectural Style Study in 3D Virtual Worlds. Architectural Science Review, 2009, 52, 99-107. | 1.1 | 0 |

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| 73 | Construction defect management using a telematic digital workbench. Automation in Construction, 2009, 18, 814-824. | 4.8 | 41 |
| 74 | Complexity, Human Agents, and Architectural Design: A Computational Framework. Design Principles and Practices, 2009, 3, 115-126. | 0.7 | 5 |
| 75 | Designing Virtual Worlds for 3D Electronic Institutions. , 2007, , 397-400. | | 0 |
| 76 | An agent approach to supporting collaborative design in 3D virtual worlds. Automation in Construction, 2005, 14, 189-195. | 4.8 | 32 |
| 77 | Dynamic Designs of 3D Virtual Worlds Using Generative Design Agents. , 2005, , 239-248. | | 13 |
| 78 | A Grammar for the Dynamic Design of Virtual Architecture Using Rational Agents. International Journal of Architectural Computing, 2003, 1, 489-501. | 0.9 | 5 |
| 79 | Constructivist Learning Theory in Virtual Design Studios. , 0, , 139-162. | | 10 |
| 80 | What Architectural Historians can Learn from Augmented Reality Technologies?. , 0, , . | | 1 |
| 81 | Applying Augmented Reality to Preserving Industrial Heritage. , 0, , . | | 0 |
| 82 | Methods for Assessing 3D Virtual Worlds in Design Education. , 0, , 355-372. | | 0 |
| 83 | The Introduction of a Problem-Based Learning Approach to the Implementation of a Virtual Reality Context. , 0, , 226-247. | | 0 |
| 84 | Computational Methods and Technologies. , 0, , 412-419. | | 2 |