Appendix A: Reviewed articles

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| **No.** | **References** | **Title** | **Country** | **Research method** | **Document type** | **Major topics** | | | |
| **COVID-19 Impacts** | **Challenges & opportunities** | **Response strategies** | **Post-COVID-19 Interventions** |
|  | **Review papers** | |  |  |  |  |  |  |  |
| 1 | Pamidimukkala and Kermanshachi (2021) | Impact of Covid-19 on field and office workforce in construction industry | USA | Systematic literature review (SLR) | Journal article | **√** |  |  |  |
| 2 | Sierra (2022) | COVID-19: main challenges during construction stage | UK | Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) | Journal article |  | **√** |  |  |
| 3 | Li et al. (2022) | Impacts of COVID-19 on construction project management: a life cycle perspective | Australia | SLR | Journal article | **√** |  |  |  |
| 4 | Ayat et al. (2021) | Effects of the COVID-19 pandemic on the construction sector: a systemized review | Pakistan | SLR | Journal article | **√** |  |  |  |
| 5 | Kaklauskas et al. (2021) | COVID-19 and Green Housing: A Review of Relevant Literature | Lithuania | SLR | Journal article | **√** |  |  |  |
| 6 | Alfadil et al. (2022) | Construction industry from perspective of force majeure and environmental risk compared to the CoViD-19 outbreak: a systematic literature review | Malaysia | PRISMA | Journal article | **√** |  |  |  |
|  | **Empirical papers** | |  |  |  |  |  |  |  |
| 1 | Raoufi and Fayek (2022) | New Modes of Operating for Construction Organizations during the COVID-19 Pandemic: Challenges, Actions, and Future Best Practices | USA | Survey | Journal article |  |  | **√** |  |
| 2 | Lu et al. (2022) | Construction E-Inspection 2.0 in the COVID-19 Pandemic Era: A Blockchain-Based Technical Solution | Hong Kong | Design science research | Journal article |  |  | **√** |  |
| 3 | Wang et al. (2020) | Risk Identification and Responses of Tunnel Construction Management during the COVID-19 Pandemic | China | Qualitative case study | Journal article |  |  | **√** |  |
| 4 | Pirzadeh and Lingard (2021) | Working from Home during the COVID-19 Pandemic: Health and Well-Being of Project-Based Construction Workers | Australia | Multiwave survey | Journal article |  |  | **√** |  |
| 5 | Assaad and El-adaway (2021) | Guidelines for Responding to COVID-19 Pandemic: Best Practices, Impacts, and Future Research Directions | USA | Content analysis of literature and industry reports | Journal article |  |  | **√** |  |
| 6 | Hatoum et al. (2021) | Analysis of COVID-19 Concerns Raised by the Construction Workforce and Development of Mitigation Practices | USA | Qualitative descriptive analysis of the COVID-19 complaints data gathered by OSHA from construction job sites. | Journal article | **√** |  | **√** |  |
| 7 | Sheth (2022) | Disaster management in India's construction industry during the Covid-19 pandemic | India | Quantitative case study | Conference proceeding |  |  | **√** |  |
| 8 | Chih et al. (2022) | Resilience of Organizations in the Construction Industry in the Face of COVID-19 Disturbances: Dynamic Capabilities Perspective | Australia | Quantitative case study | Journal article |  |  | **√** |  |
| 9 | Davies et al. (2021) | Keeping Construction Going during the COVID-19 Pandemic | USA | Qualitative case study | Journal article |  |  | **√** |  |
| 10 | Sarvari et al. (2022) | A Global Survey of Infection Control and Mitigation Measures for Combating the Transmission of COVID-19 Pandemic in Buildings Under Facilities Management Services | Hong Kong | Online survey | Journal article |  |  | **√** |  |
| 11 | Yuan et al. (2022) | Effectiveness of Interventions for Controlling COVID-19 Transmission between Construction Workers and Their Close Contacts | Hong Kong | Sensitivity analysis | Journal article |  |  | **√** |  |
| 12 | Kim et al. (2021) | Feasibility Analysis of COVID-19 Response Guidelines at Construction Sites in South Korea Using CYCLONE in Terms of Cost and Time | South Korea | Cyclone model and case study | Journal article |  |  | **√** |  |
| 13 | Peiris and De Silva (2021) | RE-engineered factory acceptance testing under the new normal | Sri Lanka | Qualitative case study | Journal article |  |  | **√** |  |
| 14 | Yang et al. (2022) | Complex network-based research on organization collaboration and cooperation governance responding to COVID-19 | China | Content analysis | Journal article |  |  | **√** |  |
| 15 | Araya (2021) | Modelling working shifts in construction projects using an agent-based approach to minimize the spread of COVID-19 | Chile | Agent-based modelling | Journal article |  |  | **√** |  |
| 16 | Sowunmi et al. (2022) | An Investigation of Visualization Technologies for Remote Work in the Architecture, Engineering, and Construction Industry | USA | Experiment and survey | Conference proceeding |  |  | **√** |  |
| 17 | Trigle (2022) | Successfully managing Covid-19 on tunnelling operations for the Thames Tideway Tunnel, UK | UK | Qualitative and quantitative case study | Conference proceeding |  |  | **√** |  |
| 18 | Zhou et al. (2020) | Rapid construction and advanced technology for a Covid-19 field hospital in Wuhan, China | China | Qualitative case study | Journal article |  |  | **√** |  |
| 19 | Onubi et al. (2021) | Forecasting the schedule performance resulting from the adoption of social distancing in construction projects | Malaysia | Survey using PLS-SEM | Journal article |  |  | **√** |  |
| 20 | Pi et al. (2021) | Deep Learning for Visual Analytics of the Spread of COVID-19 Infection in Crowded Urban Environments | USA | Visual analysis approach using convolutional neural networks | Journal article |  |  | **√** |  |
| 21 | Luo et al. (2020) | Ultra-rapid delivery of specialty field hospitals to combat COVID-19: Lessons learned from the Leishenshan Hospital project in Wuhan | China | Qualitative case study | Journal article |  |  | **√** |  |
| 22 | Koniorczyk et al. (2022) | Performance of concrete containing recycled masks used for personal protection during coronavirus pandemic | Poland | Experimental | Journal article |  |  | **√** |  |
| 23 | Seagers et al. (2022) | Smart Robotic System to Fight the Spread of COVID-19 at Construction Sites | USA | Experimental | Conference proceeding |  |  | **√** |  |
| 24 | Zhang et al. (2020) | Fighting Covid-19 through fast delivery of a modular quarantine camp with smart construction | Hong Kong | Qualitative case study | Journal article |  |  | **√** |  |
| 25 | Lee et al. (2021) | Understanding Occupants' Physical Distancing Behaviour for Safer Facility Operation under COVID-19 in the Context of Educational Facilities | South Korea | Survey | Journal article |  |  | **√** |  |
| 26 | Castelblanco et al. (2022a) | In the Name of the Pandemic: A Case Study of Contractual Modifications in PPP Solicited and Unsolicited Proposals in COVID-19 Times | Colombia | Content analysis, qualitative case study | Conference proceeding |  |  | **√** |  |
| 27 | Bhatti and Wahab (2021) | Analysis and design of emergency field isolation hospital building using innovative rapidly construction prefabricated units to treat patients infected with COVID-19 | Saudi Arabia | Qualitative and quantitative case study | Journal article |  |  | **√** |  |
| 28 | Motaleb (2021) | Risk Response Development in Construction Projects Delay: Multiple Case Studies from UAE | UAE | Qualitative case study | Journal article |  |  | **√** |  |
| 29 | Lawani et al. (2022) | Designing Drone Game for Construction Site Inspection | UK | Experimental | Journal article |  |  | **√** |  |
| 30 | Zhang et al. (2021) | Multi-source sensor based urban habitat and resident health sensing: A case study of Wuhan, China | China | Qualitative and quantitative case study | Journal article |  |  | **√** |  |
| 31 | Spinola-Richards (2022) | Remote site supervision of a project in rural Uganda during Covid restrictions | Uganda | Qualitative case study | Conference proceeding |  |  | **√** |  |
| 32 | Lu et al. (2022) | Sharp schedule compression in urgent emergency construction projects via activity crashing, substitution and overlapping: a case study of Huoshengshan and Leishenshan Hospital projects in Wuhan | China | Qualitative case study | Journal article |  |  | **√** |  |
| 33 | Nikolić and Whyte (2021) | Visualizing a New Sustainable World: Toward the Next Generation of Virtual Reality in the Built Environment | Australia | Conceptual analysis and content analysis | Journal article |  |  | **√** |  |
| 34 | Seresht (2022) | Enhancing resilience in construction against infectious diseases using stochastic multi-agent approach | UK | Qualitative and quantitative case study | Journal article |  |  | **√** |  |
| 35 | Briggs et al. (2022) | Industrial construction safety policies and practices with cost impacts in a COVID-19 pandemic environment: A Louisiana DOW case study | USA | Qualitative and quantitative case study | Journal article | **√** |  | **√** |  |
| 36 | Nnaji et al. (2022) | Safety and health management response to COVID-19 in the construction industry: A perspective of fieldworkers | USA | Survey | Journal article |  |  | **√** |  |
| 37 | Aslan and Türkakın (2022) | A construction project scheduling methodology considering COVID-19 pandemic measures | Turkey | Multi-objective genetic algorithm and resource-constrained project scheduling techniques, case study | Journal article |  |  | **√** |  |
| 38 | Osunsanmi et al. (2022) | Modelling construction 4.0 as a vaccine for ensuring construction supply chain resilience amid COVID-19 pandemic | South Africa | Survey using structural equation modelling | Journal article |  |  | **√** |  |
| 39 | Kukoyi et al. (2022) | Managing the risk and challenges of COVID-19 on construction sites in Lagos, Nigeria | Nigeria | Qualitative-based open-ended questionnaire, content analysis | Journal article |  | **√** | **√** |  |
| 40 | Jones et al. (2022) | Adapting to COVID-19 on construction sites: what are the lessons for long-term improvements in safety and worker effectiveness? | UK | Semi-structured interview | Journal article |  |  | **√** |  |
| 41 | Salami et al. (2022) | Coping with the Covid-19 pandemic: an exploration of the strategies adopted by construction firms | Saudi Arabia | Field study, survey | Journal article |  |  | **√** |  |
| 42 | Olukolajo et al. (2022) | Covid-19 protocols: assessing construction site workers compliance | Nigeria | Survey | Journal article |  |  | **√** |  |
| 43 | Simpeh and Amoah (2022) | COVID-19 guidelines incorporated in the health and safety management policies of construction firms | South Africa | Qualitative-based open-ended questionnaire, content analysis | Journal article |  |  | **√** |  |
| 44 | Araya (2022) | Modelling the influence of multiskilled construction workers in the context of the covid-19 pandemic using an agent-based approach | Chile | Agent-based modelling approach | Journal article |  |  | **√** |  |
| 45 | Piromsartkoon (2022) | Business Resilience as Strategy for Survival and Pandemic Recovery of Selected Engineering Construction Companies in Thailand | Thailand | Qualitative case study | Conference proceeding |  |  | **√** |  |
| 46 | Zamani et al. (2022) | Government pandemic response strategies for AEC enterprises: lessons from COVID-19 | Malaysia | Systematic literature review, semi-structured interviews, survey | Journal article |  |  | **√** |  |
| 47 | Khalef et al. (2022) | Managing construction projects impacted by the COVID-19 pandemic: a contractual perspective | USA | Multi-step research approach | Journal article |  |  | **√** |  |
| 48 | Shehadeh et al. (2022) | A Gaussian mixture model evaluation of construction companies’ business acceptance capabilities in performing construction and maintenance activities during COVID-19 pandemic | Jordan | Qualitative and quantitative case study | Journal article |  |  | **√** |  |
| 49 | Goh et al. (2022) | Management of safe distancing on construction sites during COVID-19: A smart real-time monitoring system | Singapore | Design science research approach | Journal article |  |  | **√** |  |
| 50 | Subramaniam et al. (2021) | Overcoming the project communications management breakdown amongst foreign workers during the covid-19 pandemic in biophilia inveigled construction projects in Malaysia | Malaysia | Systematic literature review (SLR), focus group discussion (FGD) and questionnaire survey | Journal article |  |  | **√** |  |
| 51 | Ebekozien and Aigbavboa (2021) | COVID-19 recovery for the Nigerian construction sites: The role of the fourth industrial revolution technologies | Nigeria | Semi-structured interviews | Journal article |  |  | **√** |  |
| 52 | AlHanaee and AlHanaee (2021) | Smart Contract Using Blockchain in Construction and Infrastructure Sector in the COVID-19 Pandemic | UAE | Qualitative case study | Conference proceeding |  |  | **√** |  |
| 53 | Messi et al. (2021) | Addressing COVID-19 Spatial Restrictions on Construction Sites Using a BIM-Based Gaming Environment | Italy | Simulation, qualitative case study | Conference proceeding |  |  | **√** |  |
| 54 | Verán-Leigh and Brioso (2021) | Implementation of lean construction as a solution for the covid-19 impacts in residential construction projects in Lima, Peru | Peru | Qualitative and quantitative case study | Conference proceeding |  |  | **√** |  |
| 55 | Gomes and Melo (2021) | COVID-19 Prevention in Construction Sites: A Case Study in a Railway Project | Portugal | Conceptual analysis | Conference proceeding |  |  | **√** |  |
| 56 | Barry et al. (2021) | Compliance with COVID-19 regulations in micro-enterprises and SMEs in the Irish construction sector | Ireland | Interview | Conference proceeding |  |  | **√** |  |
| 57 | Salami et al (2021) | Tackling the impacts of Covid-19 on construction projects: an exploration of contractual dispute avoidance measures adopted by construction firms | Saudi Arabia | Field study, survey research for qualitative | Journal article |  |  | **√** |  |
| 58 | Igbal et al. (2021) | COVID-19 pandemic and construction industry: Impacts, emerging construction safety practices, and proposed crisis management framework | China | Content analysis of literature | Journal article |  |  | **√** |  |
| 59 | Wang et al. (2021a) | Exploring the adoption of BIM amidst the COVID-19 crisis in China | China | Structural equation modelling | Journal article |  |  | **√** |  |
| 60 | Simpeh and Amoah (2021) | Assessment of measures instituted to curb the spread of COVID-19 on construction site | South Africa | Open-ended questionnaire survey | Journal article |  |  | **√** |  |
| 61 | Elabd et al. (2020) | Social distancing in construction: Investigating the role of technologies in supporting remote management | Egypt | Theoretical review, expert interview | Journal article |  |  | **√** |  |
| 62 | Bakeli and Hafidi (2021) | COVID-19 infection risk management during construction activities: An approach based on Fault Tree Analysis (FTA) | Morocco | Probabilistic approach using the Fault Tree Analysis method | Journal article |  |  | **√** |  |
| 63 | Oey and Lim (2021) | Challenges and action plans in construction sector owing to COVID-19 pandemic – a case in Indonesia real estates | Indonesia | open questionnaire survey | Journal article |  | **√** | **√** |  |
| 64 | Osunsanmi et al. (2020) | Making a case for smart buildings in preventing corona-virus: focus on maintenance management challenges | South Africa | Questionnaire survey | Journal article |  |  | **√** |  |
| 65 | Zamani et al. (2021) | Effect of COVID-19 on building construction projects: Impact and response mechanisms | Malaysia | Semi-structured interview | Conference proceeding | **√** |  | **√** |  |
| 66 | Radzi et al. (2022) | Modelling COVID-19 Impacts and Response Strategies in the Construction Industry: PLS–SEM Approach | Malaysia | Systematic literature review, semi-structured interviews, survey | Journal article | **√** | **√** | **√** |  |
| 67 | Jones et al. (2022) | Adapting to COVID-19 on construction sites: what are the lessons for long-term improvements in safety and worker effectiveness? | UK | Semi-structured interviews | Journal article |  |  | **√** |  |
| 68 | Xiang et al. (2022) | Reconsidering adaptive industrialized construction in Chinese rural areas: responding to the challenge of COVID-19 | China | Qualitative and quantitative case study | Journal article |  |  | **√** |  |
| 69 | Castelblanco et al. (2022b) | Remedies to the PPP Crisis in the Covid-19 Pandemic: Lessons from the 2008 Global Financial Crisis | Colombia | Systematic Literature Review, , content analysis, social network concepts, community detection methods, and snowball procedures | Journal article | **√** |  | **√** |  |
| 70 | He et al. (2022a) | Exploit Social Distancing in Construction Scheduling: Visualize and Optimize Space–Time–Workforce Trade-off | China | Qualitative and quantitative case study | Journal article |  |  | **√** |  |
| 71 | Omatule et al. (2021) | Perceived COVID-19 Safety Risk and Safety Behaviour on Construction Sites: Role of Safety Climate and Firm Size | Malaysia | Partial least squares structural equation modeling technique | Journal article |  |  | **√** |  |
| 72 | Chen et al. (2021) | Modular composite building in urgent emergency engineering projects: A case study of accelerated design and construction of Wuhan Thunder God Mountain/Leishenshan hospital to COVID-19 pandemic | China | Qualitative case study | Journal article |  |  | **√** |  |
| 73 | Gatheeshgar et al. (2021) | Development of affordable steel-framed modular buildings for emergency situations (Covid-19) | UK | Qualitative and quantitative case study | Journal article |  |  | **√** |  |
| 74 | Tan et al. (2021) | Integrated Approaches to Design for Manufacture and Assembly: A Case Study of Huoshenshan Hospital to Combat COVID-19 in Wuhan, China | China | Focus group, interviews, and archival study | Journal article |  |  | **√** |  |
| 75 | Kilmartin-Lynch et al. (2021) | Preliminary evaluation of the feasibility of using polypropylene fibres from COVID-19 single-use face masks to improve the mechanical properties of concrete | Australia | Experiment | Journal article |  |  | **√** |  |
| 76 | Afkhamiaghd et al. (2020) | Preliminary modelling of Coronavirus (COVID-19) spread in construction industry | USA | Quantitative case study | Journal article |  |  | **√** |  |
| 77 | Elnagger and Elhegazy (2022) | Studying the impact of the COVID-19 pandemic on the construction industry in Egypt | Egypt | Survey | Journal article | **√** |  |  |  |
| 78 | Al-Mhdawi et al. (2022a) | Analysing the Impact of the COVID-19 Pandemic Risks on Construction Projects in Developing Countries: Case of Iraq | Iraq | Focus group, Analytic Hierarchy Process (AHP), survey | Conference proceeding | **√** | **√** |  |  |
| 79 | Leontie et al. (2022) | COVID-19 Pandemic and Its Effects on the Usage of Information Technologies in the Construction Industry: The Case of Romania | Romania | Exploratory in-depth interviews and online surveys | Journal article | **√** | **√** |  |  |
| 80 | Jeon et al. (2022) | Impact of COVID-19 on the US Construction Industry as Revealed in the Purdue Index for Construction | USA | Granger causality test and structural equation, modeling (SEM) analysis, multivariable prediction model | Journal article | **√** | **√** |  |  |
| 81 | Ogunrinde et al. (2022) | The Impact of the Covid-19 Pandemic on Construction Labour Force and Performance Metrics: A Case for Automation | Jordan | Qualitative and quantitative case study | Conference proceeding | **√** | **√** |  |  |
| 82 | Prasad et al. (2022) | Impact of the Covid-19 pandemic on construction organisations in India: a case study | India | Qualitative and quantitative case study | Journal article | **√** | **√** |  |  |
| 83 | Tan and Zainon (2022) | Impact of COVID-19 pandemic on the quantity surveying practices in Malaysia | Malaysia | Exploratory interviews, survey | Journal article | **√** |  |  |  |
| 84 | Awada et al. (2022) | Occupant health in buildings: Impact of the COVID-19 pandemic on the opinions of building professionals and implications on research | USA | Literature review, online survey | Journal article | **√** |  |  |  |
| 85 | Elrefaey et al. (2022) | Impacts of COVID-19 on the Use of Digital Technology in Construction Projects in the UAE | USA | Questionnaire survey | Journal article | **√** |  |  |  |
| 86 | Ling et al. (2022) | Impact of COVID-19 Pandemic on Demand, Output, and Outcomes of Construction Projects in Singapore | Singapore | Survey, content analysis, interview | Journal article | **√** | **√** |  |  |
| 87 | Goodger and Murray (2022) | How the Covid-19 pandemic helped to achieve better well-being in construction: a case study | UK | Qualitative and quantitative case study | Journal article | **√** |  |  |  |
| 88 | Ko and Abdulmajeed (2022) | Improving Construction Safety: Lessons Learned from COVID-19 in the United States | USA | Conceptual analysis | Journal article | **√** |  |  |  |
| 89 | Pamidimukkala et al. (2021) | Impacts of COVID-19 on Health and Safety of Workforce in Construction Industry | USA | Conceptual analysis | Conference proceeding | **√** | **√** |  |  |
| 90 | Jin et al. (2022) | Quantifying the evolutionary mechanism of COVID-19 impact on international construction multi-projects: a risk driver perspective | China | Parametric modelling, Monte Carlo and chaos theory | Journal article | **√** |  |  |  |
| 91 | Velázquez-Diaz et al. (2022) | Understanding COVID-19's Impacts on Multisector Stakeholder Values on Housing Resilience | USA | Semi-structured interviews | Conference proceeding | **√** |  |  |  |
| 92 | Onubi et al. (2022) | Moderating effect of project size on the relationship between COVID-19 safety protocols and economic performance of construction projects | Nigeria | Survey, partial least squares structural equation modelling | Journal article | **√** |  |  |  |
| 93 | Wang et al. (2021b) | How the COVID-19 Outbreak Affected Organizational Citizenship Behaviour in Emergency Construction Megaprojects: Case Study from Two Emergency Hospital Projects in Wuhan, China | China | Quantitative case study | Journal article | **√** |  |  |  |
| 94 | Al-Mhdawi et al. (2022b) | Capturing the Impact of COVID-19 on Construction Projects in Developing Countries: A Case Study of Iraq | Iraq | Literature analysis, semi-structured interviews, survey | Journal article | **√** | **√** |  |  |
| 95 | Baral et al. (2022) | Impact of COVID-19 on the Diversity of the Construction Workforce | USA | Quantitative case study | Journal article | **√** |  |  |  |
| 96 | Olatunde et al. (2022) | Impact of COVID-19 pandemic on indigenous contractors in a developing economy | Nigeria | Structured interview, content analysis, frequency, percentages | Journal article | **√** | **√** |  |  |
| 97 | Oladimeji et al. (2022) | Influence of COVID-19 pandemic on local construction firms’ viability | Nigeria | Survey | Journal article | **√** |  |  |  |
| 98 | Chigara and Moyo (2022) | Factors affecting the delivery of optimum health and safety on construction projects during the covid-19 pandemic in Zimbabwe | Zimbabwe | Web-based questionnaire survey | Journal article | **√** |  |  |  |
| 99 | King et al. (2022) | Critical analysis of pandemic impact on AEC organizations: the COVID-19 case | Malaysia | Systematic literature review, interview, survey | Journal article | **√** |  |  |  |
| 100 | Aigbavboa et al. (2022) | Unprepared industry meet pandemic: COVID-19 and the South Africa construction industry | South Africa | Survey | Journal article | **√** |  |  |  |
| 101 | Alhusban et al. (2022) | How the COVID 19 pandemic would change the future of architectural design | Jordan | Literature review, semi-structured interviews | Journal article | **√** |  |  |  |
| 102 | Rehman et al. (2022) | Impact of COVID-19 on project performance in the UAE construction industry | UAE | Semi-structured interview questions | Journal article | **√** | **√** |  |  |
| 103 | Agyekum et al. (2022) | The impact of COVID-19 on the construction industry in Ghana: the case of some selected firms | Ghana | Semi-structured interviews, thematic analysis | Journal article | **√** | **√** |  |  |
| 104 | Niroshana et al. (2022) | The impact of COVID-19 on the construction industry and lessons learned: a case of Sri Lanka | Sri Lanka | Survey | Journal article | **√** | **√** |  |  |
| 105 | Dobrucali et al. (2022) | Exploring the Impact of COVID-19 on the United States Construction Industry: Challenges and Opportunities | USA | Literature review, interview, questionnaire survey | Journal article | **√** | **√** |  |  |
| 106 | Rokooei et al. (2022) | Perception of COVID-19 impacts on the construction industry over time | Iran | Survey | Journal article | **√** | **√** |  |  |
| 107 | Essa et al. (2022) | Impact of Coronavirus Pandemic Crisis on Construction Control Processes in Egypt | Egypt | Questionnaire survey, case study | Conference proceeding | **√** |  |  |  |
| 108 | Boamah et al. (2022) | Exploring the impact of social capitals and knowledge creation on construction firms’ performance in the COVID-19 era | China | Survey, structural equation modelling | Journal article | **√** |  |  |  |
| 109 | Stride et al. (2021) | The effects of COVID-19 pandemic on the UK construction industry and the process of future-proofing business | UK | Semi-structured interviews from | Journal article | **√** |  |  |  |
| 110 | Aguilar et al. (2022) | Impact of COVID-19 protocols on IEQ and students’ perception within educational buildings in Southern Spain | Southern Spain | Qualitative and quantitative case study | Journal article | **√** |  |  |  |
| 111 | Ogunnusi et al. (2021) | Lessons learned from the impact of COVID-19 on the global construction industry | UK | Open-ended structured questionnaire survey | Journal article | **√** | **√** |  |  |
| 112 | Stiles et al. (2021) | Impact of COVID-19 on health and safety in the construction sector | UK | Observation | Journal article | **√** |  |  |  |
| 113 | Oo and Lim (2021) | Changes in job situations for women workforce in construction during the COVID-19 pandemic | Australia | Survey | Journal article | **√** |  |  |  |
| 114 | Gan and Koh (2021) | COVID-19 and Return-To-Work for the Construction Sector: Lessons from Singapore | Singapore | Qualitative case study | Journal article | **√** |  |  |  |
| 115 | Fernández et al. (2021) | Diagnosis of labour cost variation at residential buildings during the COVID-19 pandemic | Peru | Qualitative and quantitative case study | Conference proceeding | **√** |  |  |  |
| 116 | Amoah et al. (2021) | The COVID-19 pandemic: the woes of small construction firms in Ghana | Ghana | Interview | Journal article | **√** | **√** |  |  |
| 117 | Bsisu (2020) | The impact of COVID-19 pandemic on Jordanian civil engineers and construction industry | Jordan | Online survey | Journal article | **√** | **√** |  |  |
| 118 | Umar (2022) | The Impact of COVID-19 on the GCC Construction Industry | UK | Face-to-face online interviews | Journal article | **√** | **√** |  |  |
| 119 | Yang et al. (2021) | Opportunities and challenges for construction health and safety technologies under the COVID-19 pandemic in Chinese construction projects | China | Semi-structured interviews | Journal article | **√** | **√** |  |  |
| 120 | Husien et al. (2021) | COVID-19: Key global impacts on the construction industry and proposed coping strategies | Iraq | Content analysis | Conference proceeding | **√** | **√** |  |  |
| 121 | Susanti et al. (2021) | Lesson from Pandemic Covid-19 for Sustainability Construction in Indonesia | Indonesia | Survey | Conference proceeding | **√** |  |  |  |
| 122 | Rankohi et al. (2022) | The new-normal challenges and IPD solutions: a Canadian case study | Canada | Qualitative case study | Journal article |  | **√** |  |  |
| 123 | Simpeh et al. (2022) | Barriers to the implementation of COVID-19 safety regulations: insight from Ghanaian construction sites | Ghana | open-ended questionnaire | Journal article |  | **√** |  |  |
| 124 | Oo et al. (2021) | Women Workforce in Construction during the COVID-19 Pandemic: Challenges and Strategies | Australia | Survey | Journal article |  | **√** |  |  |
| 125 | Silva et al. (2022) | Post-pandemic Project Change Management Model: An Adaptable Framework Utilizing Levenberg-Marquardt Algorithm and Dynamic Causal Loop Diagram for Construction Innovation | Philippines | Survey | Conference proceeding |  |  |  | **√** |
| 126 | El Khateeb and Shawket (2022) | A new perception; generating well-being urban public spaces after the era of pandemics | Egypt | Literature review, interview | Journal article |  |  |  | **√** |
| 127 | Gamil et al. (2022) | Post COVID-19 pandemic possible business continuity strategies for construction industry revival a preliminary study in the Malaysian construction industry | Malaysia | Interview, questionnaire survey | Journal article |  |  |  | **√** |
| 128 | Ebekozien et al. (2021) | Construction industry post-COVID-19 recovery: Stakeholders perspective on achieving sustainable development goals | Nigeria | Face-to-face interviews, questionnaire survey | Journal article |  |  |  | **√** |
| 129 | Spennemann (2021) | Residential architecture in a post-pandemic world: Implications of covid-19 for new construction and for adapting heritage buildings | Australia | Conceptual analysis | Journal article |  |  |  | **√** |
| 130 | Ayat et al (2022) | Impact of the Coronavirus disease 2019 and the post-pandemic construction sector (Pakistan) | Pakistan | Interview, (Thematic analysis) | Journal article | **√** |  |  | **√** |
| 131 | Rani et al. (2022) | Impact of COVID-19 on Construction Projects: The Case of India | India | Interview, survey | Journal article | **√** |  |  |  |
| 132 | Araya (2021b) | Modelling the spread of COVID-19 on construction workers: An agent-based approach | Chile | Agent based modelling | Journal article |  |  | **√** |  |
| 133 | Araya et al. (2023) | Identifying the Impacts of COVID-19 on Chilean Construction Projects | Chile | Semi-structured interviews(content analysis) | Conference proceeding | **√** |  |  |  |
| 134 | Araya and Sierra (2021) | Influence between COVID-19 impacts and project stakeholders in Chilean construction projects | Chile | Semi-structured interview (content analysis) | Journal article | **√** |  | **√** |  |
| 135 | Seresht and RazaciAlavi (2021) | A framework to model the spread of infectious diseases on construction sites using hybrid agent-based modelling and Monte Carlo simulation | UK | Agent-based modelling (ABM), Monte Carlo simulation techniques (MCS) | Conference proceeding |  |  | **√** |  |
| 136 | Sadeh et al. (2022) | Predicting the trends and cost impact of COVID-19 OSHA citations on US construction contractors using machine learning and simulation | Italy | Multiple regression analysis, supervised machine learning, probabilistic Monte Carlo simulation | Journal article | **√** |  |  |  |
| 137 | Abubakar et al. (2022) | Delays and Financial Implications of COVID-19 for Contractors in Irrigation Projects | Australia | Qualitative case study | Journal article | **√** |  |  |  |
| 138 | Mohsen et al. (2021) | Impact of the COVID-19 Pandemic on Construction Industry in Malaysia | Malaysia | Conceptual analysis | Conference proceeding | **√** |  |  |  |
| 139 | Essa et al. (2020) | Covid-19 pandemic lockdown: The consequences towards project success in Malaysian construction industry | Malaysia | Interview | Journal article | **√** |  |  |  |
| 140 | Vasudevan and Yuen (2022) | The Challenges and Impacts of COVID-19 on the Construction Industry in Malaysia | Malaysia | Literature review, survey | Conference proceeding | **√** | **√** |  |  |
| 141 | Tan and Abdul-Samad (2022) | A study of the impact of COVID-19 on construction workforce productivity in Malaysia | Malaysia | Survey | Journal article | **√** |  |  |  |
| 142 | Soliman et al. (2022) | Impact of COVID-19 on labour’s motivational factors and construction productivity | Kuwait | Interview, survey (factor analysis) | Journal article | **√** |  |  |  |
| 143 | Jha et al. (2023) | A Risk Management Tool for Construction Sector India During Covid-19 Crisis | India | Expected Value Method (EVM) | Conference proceeding |  |  | **√** |  |
| 144 | Bhattacharyya and Hastak (2023) | Impact Analysis of Covid-19 Pandemic on Construction Employment in the United States | USA | Content analysis | Conference proceeding | **√** |  |  |  |
| 145 | Serne and Dang (2023) | Effective Safety Protocols and Project Productivity Impacts for Construction Companies in Washington State During the COVID-19 Pandemic | USA | Content analysis | Conference proceeding |  |  | **√** |  |
| 146 | Jens and Gregg (2021) | The impact on human behaviour in shared building spaces as a result of COVID-19 restrictions | Denmark | Experimental | Journal article | **√** |  |  |  |
| 147 | Al Amri and Marey-Perez (2020) | Impact of covid-19 on Oman's construction industry | Oman | Qualitative and quantitative case study | Journal article | **√** |  |  |  |
| 148 | Choi and Staley (2021) | Safety and health implications of COVID-19 on the United States construction industry | USA | Content analysis | Journal article | **√** |  |  |  |
| 149 | Alsharef et al. (2021) | Early impacts of the COVID-19 pandemic on the United States construction industry | USA | Interviews (Content analysis) | Journal article | **√** |  |  |  |
| 150 | Thomas and Saud (2021) | Disruption of Construction Industry During COVID-19 Pandemic—A Case Study from Ernakulam, Kerala, India | India | Delphi technique | Conference proceeding | **√** |  |  |  |
| 151 | Abdullah et al. (2021) | Economic challenges: Conceptual framework on factors affecting construction cost during COVID-19 pandemic in Malaysia | Malaysia | Conceptual analysis | Conference proceeding | **√** |  |  |  |
| 152 | Tong et al. (2021) | Psychosocial factors for safety performance of construction workers: taking stock and looking forward | China | Meta-analysis | Journal article | **√** |  |  |  |
| 153 | Nassereddine et al. (2021) | Propositions for a resilient, post-COVID-19 future for the AEC industry | USA | Conceptual analysis | Journal article |  |  | **√** | **√** |
| 154 | Casady and Baxter (2020) | Pandemics, public-private partnerships (PPPs), and force majeure| COVID-19 expectations and implications | UK | Qualitative case study | Journal article | **√** |  |  |  |
| 155 | Borg et al. (2022) | Surviving adversity: personal and career resilience in the AEC industry during the COVID-19 pandemic. | Australia | Survey, thematic analysis of the open-ended responses | Journal article |  |  | **√** |  |
| 156 | Sherratt and Dainty (2022) | The power of a pandemic: how Covid-19 should transform UK construction worker health, safety and wellbeing | UK | Conceptual analysis | Journal article | **√** | **√** |  |  |
| 157 | Liang et al. (2022) | Availability Heuristic in Construction Workforce Decision-Making amid COVID-19 Pandemic: Empirical Evidence and Mitigation Strategy | Canada | Experimental, field study | Journal article | **√** |  |  |  |
| 158 | He et al. (2022) | Exploit Social Distancing in Construction Scheduling: Visualize and Optimize Space–Time–Workforce Tradeoff | USA | Qualitative and quantitative case study | Journal article |  |  | **√** |  |
| 159 | Assaad et al. (2022) | The COVID-19 pandemic: A catalyst and accelerator for offsite construction technologies | USA | Interview, case study, | Journal article |  | **√** |  | **√** |