THE UNIVERSITY OF BRITISH COLUMBIA
Curriculum Vitae for Faculty Members

Date: 20240229 **Initials**: HF

1. SURNAME: Feng **FIRST NAME**: Haibo

2. DEPARTMENT/SCHOOL: Wood Science

3. FACULTY: Forestry

4. PRESENT RANK: Assistant Professor **SINCE**: Oct.2022

5. POST-SECONDARY EDUCATION

University or Institution	Degree	Subject Area	Dates
University of British Columbia	PhD	Civil Engineering	May. 2020
University of British Columbia	MASc.	Civil Engineering	Oct. 2013
Wuhan University of Science and Technology	BASc.	Construction Management	July 2008

Special Professional Qualifications

Leadership in Environmental and Energy Design (LEED)
Project Management Professional (PMP)
Fellowship of Higher Education Academy (FHEA)
Engineer-in-training (EIT)

6. EMPLOYMENT RECORD

(a) Prior to coming to UBC

University, Company or Organization	Rank or Title	Dates
Northumbria University	Assistant Professor	May 2020-Sep. 2022
University of British Columbia	Research Associate	May 2016- May 2020
Aplin&Martin Consultants Ltd.	Engineering Designer	2013 -2016
Civil Engineer	Al Jazera Consultants/Turner International.	2008 -2011

(b) At UBC

Rank or Title	Dates
Assistant Professor	**Oct. 2022 - Current**
Research Associate	**May 2016 - May 2020**

(c) Date of granting of tenure at UBC:

n/a

7. LEAVES OF ABSENCE

University, Company or Organization at which Leave was taken	Type of Leave	Dates

8. **TEACHING**

(a) Areas of special interest and accomplishments

Life Cycle Assessment and Management (Building Materials), Engineering Analysis, Construction Engineering and Management, Building Information Modelling, Zero carbon, Digital Fabrication.

(b) Courses Taught at UBC

Session	Course Number	Scheduled Hours	Class Size	Hours Taught			
				Lectures	Tutorials	Labs	Other
2023W2	WOOD491	70	38	42	22	6	
2023W2	WOOD449C	24	2	\	20	16	12
2022W2	WOOD449C	24	1	\	10	8	6
2020S	ENGR544	42	48 students	42			
2019W1	ENGR303	56	160 students	56			
2019S	APSC248	42	40 students	42			
2018W1	ENGR433	56	120 students	6			

(c) Micro-certificate Taught at UBC

Session	Course Name	Scheduled Hours	Class Size	Hours Taught			
				Lectures	Tutorials	Labs	Other
2023W1	Circular Bioeconomy Business Development	24	10	12	12		
2023W2	Zero Carbon Building Solutions	24	2	12	12		

(d) Graduate Research Supervision

Student Name	Program Type	Year		Supervisory Role (supervisor, co-supervisor, committee member)	
		Start	Finish		
Zhifan Zhu	M.A.Sc	2024		Supervisor	
Shiyao Zhu	Ph.D.	2023		Supervisor	
Yang Li	Ph.D.	2023		Supervisor	
Rojini Kathiravel	M.A.Sc.	2023		Supervisor	

(e) Graduate Research Supervision (Before UBC)

Student Name	Program Type	Year	Supervisory Role (supervisor, co-supervisor, committee member)

		Start	Finish		
Chenyu Ge	Ph.D.	2021	2024	Co-Supervisor	Supervisor: Dr. Shengfeng Qing
Dean Douglas	Ph.D.	2020	2023	Supervisor	
Jianfeng Zhao	Ph.D.	2018	2022	Co-Supervisor	Supervisor: Dr. David Greenwood
Pengwei He	Ph.D.	2017	2021	Co-Supervisor	Supervisor: Dr. Chang Wang
Rory Blackburn	M.Sc.	2022	2023	Supervisor	
Adole Onuh	M.Sc.	2021	2022	Supervisor	
Nikhil Lingamaneni	M.Sc.	2021	2022	Supervisor	
Marina Starinska	M.Sc.	2020	2021	Supervisor	
Kishore Kishore	M.Sc.	2020	2021	Supervisor	
Likitha Raghavendra	M.Sc.	2020	2021	Supervisor	

(f) Graduate Program Supervision

Student Name	Program Type	Year		Supervisory Role (supervisor, co-supervisor, committee member)
		Start	Finish	
Amir Kari (UBC)	Ph.D.	2020		Committee member
Irene Xiang (UBC)	M.A.Sc.	2020		Committee member
Yunshu Ouyang (UBC)	M.A.Sc.	2022		Committee member

(g) Undergraduate Research Supervision

Student Name	Program Type	Year		Supervisory Role (supervisor, co-supervisor, committee member)
		Start	Finish	
Ziheng Liu (UBC)	Research Assistant	Sept.2023	Dec.2023	Supervisor

(h) Visiting Research Scholar/Student Supervision

Scholar/Student Name	Program Type	Year		Supervisory Role (supervisor, co-supervisor, committee member)
		Start	Finish	
Hao Yang	CSC Visiting PhD student	Dec.2023	Dec.2024	Supervisor

(i) Continuing Education Activities

(j) Visiting Lecturer (indicate university/organization and dates)

- UBC Civil Engineering – CIVL520 Construction Planning and Control Nov. 2023
- Lobourough Univeristy, UK – School of Architecture, Building and Civil Engineering Oct.2023
- University of Northern British Columbia - School of Engineering Sep.2023
- UBC Forestry – Bioeconomy Science and Technology Nov.2022
- University College London (UCL) – The Bartlett School of Sustainable Construction. Nov.2022
- Lobourough Univeristy, UK – School of Architecture, Building and Civil Engineering Oct.2022
- University of Northern British Columbia - School of Engineering Sep.2022

(k) Academic Guest

- University of São Paulo, Brazil — Nov. 2018
- ETH Zurich Chair of Sustainable Construction, Switzerland — Jan. 2018 – Jun.2018
- Southeast University, Nanjing China — Jul.2018 – Aug.2018

9. SCHOLARLY AND PROFESSIONAL ACTIVITIES

(a) Areas of special interest and accomplishments

Dr. Feng's research area is in green building, building information modeling, life cycle assessment and building energy performance. He has extensive industrial and research experience on promoting sustainable building construction with the integration of advanced building systems and renewable energy supports. He has practical knowledge on various building rating systems including LEED, BREEAM, Passive house, BC Energy STEP Code, Zero Carbon Building, EnerGuide. His work focuses on integrating innovative technologies into sustainable building design to achieve low carbon buildings with the consideration of social and economic impacts. He is particularly interested in using mass timber products to promote zero-carbon timber frame buildings. He also has extensive local and global experience in sustainable building design and construction management. He will continue his research on the development of Sustainable Built Environment Centre.

(b) Research or equivalent grants (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC))

Granting Agency	Subject	COMP	$ Per Year	Year	Principal Investigator	Co-Investigator(s)
NSERC - DG	Achieving net-zero carbon through building circularity and digital technologies	(C)	29,500	2024-2029	Haibo Feng	
Grants for catalyzing research clusters	Smart Infrastructure and Construction Research Cluster (SICRC)	(C)	100,000	2024-2025	Tony Yang	Haibo Feng (and 13 others)
Forest Innovation Investment – Wood Frist	Embodied carbon reductions using recycled wood through building deconstruction	(C)	22,000	2024-2025	Haibo Feng	
UBC VPRI Office	Cross-campus Building Circularity and Sustainability Research Nexus Development	(C)	5,000	2023-2024	Haibo Feng	
UBC Sustainability	Campus as a living lab – Brock Commons sensor monitoring management	(NC)	10,000	2023-2025	Haibo Feng	
Hampton Fund Research Grant – New Faculty Grant	Enhancing social-ecological resilience for sustainable mass timber management: a network perspective	(NC)	5,000	2023-2025	Haibo Feng	

UK NIHR/PHR	Leveraging interventions targeting energy poverty and net-zero targets to co-tackle poor indoor air quality (In2Air) of residential buildings	(C)	80,000	2022	Jane Entwistle (40%); Anil Namdeo (40%)	H. Feng (20%)
University Research Development Fund (RDF) Scholarship	Life cycle environmental and cost assessment of smart buildings with Internet-of-things technologies	(C)	35,000	2022	H. Feng	
Northumbria University Internship Funds	Circular Economy for New Building developments	(C)	2,500	2021	H. Feng	
Extreme Environments Multidisciplin e Research Theme (MDRT)	Enhancing flood resilience on urban road network (URN) development under extreme environment with innovative digital design technology	(C)	6,300	2021	H. Feng	
Northumbria University Entry Fund	Closing the gap toward net-zero carbon buildings: A digital twin workbench	(NC)	8,000	2020	H. Feng	

(c) Research or equivalent contracts (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC).

Granting Agency	Subject	COMP	$ Per Year	Year	Principal Investigator	Co-Investigator(s)
HCMA	NLT design guide revision – embodied carbon	(NC)	4000	2023	Haibo Feng	

(d) Invited Presentations (Identify whether International/National/Local)

11) **Feng, H**., (2024), Sustainable timber built environment under embodied carbon reductions, February 13, 2024. The Wood Innovation Group (TWIG), BC (Provincial)
10) **Feng, H**., (2023), Pathway to net-zero carbon in existing public building, September 20, 2023. Munistry of Citizen Services, BC. (Provincial)
9) **Feng, H**., (2022), The role of timber frame buildings on BC Energy Step Code and Carbon Neutrality, 2022 UBC Forestry Timber Seminar Series.(Provincial)
8) **Feng, H**., (2022), Potential of applying trimble technologies on mass timber building design and construction, Trimble Technology Lab Conference, Edinburgh, UK. (International)
7) **Feng, H.,** (2020), BIM-based building performance improvement framework through life cycle sustainability assessment, Reforming multi-disciplinary engineering innovation for the new normal, Northumbria University, Newcastle, UK. August 28, 2020. (National)
6) **Feng, H.**, Hewage, K., and Sadiq, R. (2019), BIM based life cycle assessment for aging single family houses – renovation and reconstruction strategies, International Symposium for Sustainable Construction Management, Southeast University, Nanjing, China. July 1-7, 2019. (International)

5) **Feng, H.** and Perera, P. (2019), Green building and building energy simulation software HOT2000 demonstration, Green Building Simulation workshop, the University of British Columbia, Canada. September 19, 2019. (National)
6) **Feng, H.** and Habert, G. (2018), The status of green building and life cycle assessment developments in Canadian construction industry, Sustainable Construction Workshop, University of São Paulo, Brazil. November 20-23, 2018. (International)
5) **Feng, H.** and Habert, G. (2018), Foreground and background analysis of life cycle assessment database with input-output database, Chair of Sustainable Construction, ETH Zurich, Switzerland. May 25, 2018. (International)
2) **Feng, H.**, Ruparathna R., Hewage K.N., Karunathilake H., Chippi Shrestha, G.K. (2017), Sustainable Water-Energy Nexus for Urban Neighborhood Development (UND), Green development workshop, District of Peachland, BC, Canada. May 24, 2017. (National)
2) **Feng, H.**, Hewage K.N., Sadiq R. (2016), Improving Eco-Efficiency of Public Buildings with Asset Management, A presentation to the senior management, Regional District of Okanagan-Similkameen, BC, September 19, 2016. (National)

(e) Poster Presentations

6) Kathiravel R. and **Feng, H.** (2023), Clean Energy Research Centre (CERC) Energy Forum poster competition, December 11, 2023.
5) Zhu S. and **Feng, H.** (2023), Clean Energy Research Centre (CERC) Energy Forum poster competition, December 11, 2023. (Third place)
4) Yang L. and **Feng, H.** (2023), Clean Energy Research Centre (CERC) Energy Forum poster competition, December 11, 2023. (First place)
3) Yang L. and **Feng, H.** (2023), Geospatial Techniques Applied to Achieve Net Zero Energy Buildings. BC Community Forest Association 2023 Conference and AGM, June 7-9, 2023. Kamloops, BC, Canada
2) **Feng, H.**, Hewage, K., and Sadiq, R. (2019), Is it better to renovate an old house or rebuild it? International Symposium for sustainable systems and technology, June 25-28, 2019. Portland, Oregon. (Best poster presentation award)
1) **Feng, H.** and Hewage, K. (2012), Lifecycle Assessment of green vegetation: Cost Effectiveness Analysis (CEA) of green roof and living wall systems. 2nd International Conference on Civil Engineering and Materials, Hongkong. (Poster presentation)

(f) Conference Participation (Organizer, Keynote Speaker, etc.)

13) **Feng, H.**, (2022). International Group for Lean Construction. Edmonton, AB, Canada.
12) **Feng, H.**, Chen, Q., García de Soto, B., Arashpour, M. (2022). Using BIM and LCA to evaluate material circularity: Contributions to building design improvements. ISARC 2022. (**Keynote Speaker**)
11) Onuh, A., **Feng, H**., Chen, Q., García de Soto, B. (2022). Investigating energy savings when using IoT devices in buildings: A case study in the UK. 2022 European Conference on Computing in Construction.
10) **Feng, H**., Jayaratne, N., Chen, Q., García de Soto, B. (2022). Investigating the required operational changes in the construction industry to comply with circular economy concepts. Creative Construction Conference 2022.
9) **Feng, H**., Chen, Q., García de Soto, B. (2021). Application of digital twin technologies in construction: an overview of opportunities and challenges. ISARC 2021.
8) Chen, Q., **Feng, H**., García de Soto, B. (2021). Key approaches to construction circularity: a systematic review of the current state and future opportunities. ISARC 2021.
6) **Feng, H**. (2021), Challenges on whole-building life cycle assessment: a review of reasons and solutions. ACLCA 2021 Conference, 21st – 25th September 2021. Online.

5) **Feng, H**., Mukherjee, A., Kassem, M., Greenwood, D. (2021), Whole-building life cycle assessment of single-family residential buildings: comparable analysis between BIM and Athena database. SEED International Conference, 1st – 3rd September 2021. Online.
4) **Feng, H**., Hewage, K., and Sadiq, R. (2019), Life cycle environmental and cost analysis for single family houses with different renovation strategies. ISIE conference, July 7-11, 2019. Beijing, China.
3) **Feng, H**., Hewage, K., and Sadiq, R. (2018), Comparative Analysis of Environmental Product Declarations on Building softwoods under different Product Category Rules. NHICE 01 – 1st International Conference on New Horizons in Green Civil Engineering, April 25-27, 2018. Victoria, BC.
2) **Feng, H**. and Hewage, K. (2013), Energy performance of living walls in commercial buildings. 4th Construction Specialty Conference, Canadian Society for Civil Engineering, May 29-June 1, 2013. Montreal, Quebec.
1) **Feng, H**. and Hewage, K. (2013), Lifecycle Assessment of Green Vegetation: Energy Performance on the Materials of Green Roofs and Living Walls. Annual Conference on Civil Engineering and Engineering, July 6-9, 2013. Beijing, China.

(g) Others (Attended trainings)

4) Faculty Instructional Skill Workshop (ISW) from UBC CTLT — Aug. 2023
3) Course Design Intensive (CDI) training from UBC CTLT — Jun. 2023
2) 3D Basecamp for Sketchup Training — Oct. 2022
1) UBC Centre for Advanced Wood Processing Mass Timber Trip — Oct. 2022

10. SERVICE TO THE UNIVERSITY AND THE COMMUNITY

Please include a clear and concise statement of your service (including any service undertaken to advance the inclusion of all those who have been historically excluded based on gender, race, religion, sexuality, age, disability, or economic circumstance) and the criteria you deem to be appropriate in assessing your contributions. (Statements exceeding 150 words will not be considered).

SERVICE TO THE UNIVERSITY

(a) Areas of special interest and accomplishments

Sustainable Construction, BIM, Building Environment, Life Cycle Assessment

(b) Areas of service undertaken to advance the inclusion of all those who have been historically excluded based on gender, race, religion, sexuality, age, disability, or economic circumstance

(c) Graduate studies proposal/thesis defense committee

- PhD thesis defense committee member for Vivek Arulnathan — Jul. 2023
- MASc thesis defense Chair for Ivan Zhang — Jul. 2023
- PhD proposal defense committee member for Amir Kari — Feb. 2023

(d) Memberships on committees, including offices held and dates

(e) Other service, including dates

- Mass Timber and Lumber CAN/AUS Knowledge Exchange – UBC Campus tour guide — Mar. 21, 2024
- UBC Neighbourhood Climate Action Plan Technical Workshop Group – Existing Building — Jan. 16, 2024
- UBC Neighbourhood Climate Action Plan Technical Workshop Group – Waste — Jan. 12, 2024
- Embodied Carbon Policies and Regulation Workshop – UBC Sustainability Hub — Nov. 21, 2023

- Data, Assessment, Tools and Workflow Workshop – UBC Sustainability Hub — Nov. 16, 2023
- Low Carbon Products Workshop – UBC Sustainability Hub — Nov. 10, 2023
- Counselors of Real Estates Delegate group presentation — Oct.01, 2023
- Judge for Forestry Co-op Night poster competition — Sept. 27, 2023
- China Wood Industry Protection Association visiting presentation — Sept. 11, 2023
- Massive Canada Visiting – STBE group presentation — Jul. 22, 2023
- Conference organization
    - ISIE Industrial Ecology Day - Asian-pacific organizing committee — Jun. 2021
- Graduate Student Representative for UBC VP Research Search Committee — 2017

11. SERVICE TO THE COMMUNITY

(a) Service undertaken to advance the inclusion of all those who have been historically excluded based on gender, race, religion, sexuality, age, disability, or economic circumstance.

(b) Memberships on scholarly societies, including offices held and dates

- Board member in ISIE Life Cycle Sustainability Assessment section — Jan. 2020 – present
- Member in Canadian Society of Civil Engineers — Sept. 2010 - present
- Member in American Society of Civil Engineers — Sept. 2011 - present

(c) Memberships on other societies, including offices held and dates

- Member in California Board for Professional Engineers (EIT) — Nov. 2015 - present
- Member in Project Management Institute (PMP) — July 2015 - present
- Member in US Green Building Council (LEED AP) — Jul. 2014 - present
- Member in Association of Consulting Engineering Companies — Sept. 2013 - present

(d) Memberships on scholarly committees, including offices held and dates

(e) Memberships on other committees, including offices held and dates

- Strategic Framework for a Circular Economy in Canada's Built Environment Round Table — 2023
- Thriving Mass Timber Industry Vision and Roadmap Technical Council — 2023
- Nail-Laminated Timber (NLT) Design Guide Update Committee — 2023

(f) Editorships (list journal and dates)

- Associate Editor – Journal of Cleaner Production — Mar. 2024 - Present
- Guest Editor
    - Special Issue on Journal of Sustainability — 2022
    - Special Issue on Journal of Buildings — 2021
    - Special Issue on Journal of Industrial Ecology — 2020

(g) Reviewer (journal, agency, etc. including dates)

Mar. 2022- Mar. 2024

- Automation in Construction – 1 article
- Results in Enginering (Elsevier) – 1 article
- Forests (MDPI) – 1 article
- Journal of Scientific Reports – 3 articles
- Journal of Energy and Buildings – 9 articles
- Journal of Cleaner Production (Elsevier) – 2+8 articles
- Journal of Building Engineering (Elsevier) – 2+9 articles
- Sustainability – 7 articles

- Building and Environment – 15+6 articles
- Renewable and sustainable energy reviews – 1 article
- Sustainable Cities and Society (Elsevier) – 3+4 articles
- Resources, Conservation & Recycling (Elsevier) – 1+1 article
- Urban Climate (Elsevier) – 3 articles
- Open Journal of Energy Efficiency (Springer) – 2+3 articles
- Engineering, Construction and Architectural Management – 2 articles
- Canadian Journal of Civil Engineering – 1 article
- Energy and Building Environment – 1 artilce
- Buildings (MDPI) – 8+1 articles
- ISSST abstracts

(h) External examiner (indicate universities and dates)

(i) Consultant (indicate organization and dates)

- HCMA Architecture + Design – Feb. 9th, 2023 (4 hours)

(j) Other service to the community

12. AWARDS AND DISTINCTIONS

(a) Awards for Teaching (indicate name of award, awarding organizations, date)

(b) Awards for Scholarship (indicate name of award, awarding organizations, date)

- Postdoctoral Fellowship from Natural Sciences and Engineering Research Council of Canada (NSERC) from May 2020-May 2022 (Declined)
- Postdoctoral Fellowship from University of Cambridge Centre for Smart Infrastructure and Construction (CSIC) (Declined)
- Chinese government award for outstanding self-finance students abroad 2020
- UBC School of Engineering Graduate Student Travel Grant 2020
- Postgraduate Scholarship from Natural Sciences and Engineering Research Council of Canada (NSERC) from May 2017-May 2020
- ISSST conference best poster presentation June 2019
- ETH Zurich excellence scholarship for foreign scholars 2018
- UBC University Graduate Scholarship 2016-2019
- Go Global Self-Directed Research Abroad award 2017
- Canadian Graduate Scholarships - Michael Smith Foreign Study Supplements 2017

(c) Awards for Service (indicate name of award, awarding organizations, date)

(d) Other Awards

13. OTHER RELEVANT INFORMATION (Maximum One Page)

THE UNIVERSITY OF BRITISH COLUMBIA
Publications Record

SURNAME: Feng **FIRST NAME**: Haibo **Initials**: HF
MIDDLE NAME(S): **Date**: 20230227

1. REFEREED PUBLICATIONS

*(a) Journals (Supervised students identified by + and coresponding author identified by *)*

43) Kathiravel, R+., Zhu, S+., **Feng, H***. (2024). LCA of net-zero energy residential buildings with different HVAC systems across Canadian climates: A BIM-based fuzzy approach. Journal of Energy and Buildings. https://doi.org/10.1016/j.enbuild.2024.113905.

42) Chen, Q., Mao, P., Zhu, S+., Xu, X., **Feng, H**. (2024). A decision-aid system for subway microenvironment health risk intervention based on backpropagation neural network and permutation feature importance method. Journal of Building and Environment. https://doi.org/10.1016/j.buildenv.2024.111292.

41) Li, D*., Shang X., Huang G., Zhou S., Zhang M., **Feng, H**. (2024). Can smart city construction enhance citizen's perception of safety? A case study of Nanjing, China. Social Indicators Research. https://doi.org/10.1007/s11205-023-03304-5

40) Zhu, S+., **Feng, H***., Arashpour, M., Zhang, F. (2024). Enhancing urban floor resilience: A coupling coordinated evaluation and geographical factor analysis under SES-PSR framework. International Journal of Disaster Risk Reduction. https://doi.org/10.1016/j.ijdrr.2024.104243.

39) Yu, L., Li, D*., Mao, L., Zhou, S., **Feng, H.** (2024) Towards people-centric smart cities: A comparative evaluation of citizens' sense of gain in pilot cities in China. Journal of Cleaner Production. https://doi.org/10.1016/j.jclepro.2023.140027.

38) Li, D*., Wu, H., Huang, G., **Feng, H**., Ding, J. (2023), Spatiotemporal Evolution of Provincial Rural Infrastructure Development Level in China. Journal of Infrastructure Systems. https://doi.org/10.1061/JITSE4.ISENG-2154.

37) Zhu, S.+ and **Feng, H.*** (2023), Is energy-efficient building sustainable? A case study on individual housing in Canada under BCESC energy updates. Journal of Building and Environment. https://doi.org/10.1016/j.buildenv.2023.110452.

36) Li, Y.+ and **Feng, H.*** (2023), GIS for the potential application of renewable energy in buildings towards net zero: A perspective. Journal of Buildings. https://doi.org/10.3390/buildings13051205.

35) Mirzaei, K., Arashpour, M.*, Asadi, E., **Feng, H.**, Mohandes, SR., Bazli M. (2023), Automatic compliance inspection and monitoring of building structural members using multi-temporal point clouds. Journal of Building Engineering. https://doi.org/10.1016/j.jobe.2023.106570.

34) Song, G., Lu, Y.*, Liu, B., Duan, H., **Feng, H**., Liu, G. (2023), Photovoltaic panel waste assessment and embodied material flows in China, 2000-2050. Journal of Environmental Management. https://doi.org/10.1016/j.jenvman.2023.117675.

33) Alkaissy, M., Arashpour*, M., Golafshani, EM., Hosseini, R., Khanmohammadi, S., Bai, Y., **Feng, H**. (2023), Enhancing construction safety: Machine learning-based classification of injury types. Safety Science. https://doi.org/10.1016/j.ssci.2023.106102.

32) **Feng, H**., Zhao, J.*, Hollberg, A., Habert, G. (2023), Where to focus? Developing a LCA impact category selection tool for manufacturers of building materials.Journal of Cleaner Production. https://doi.org/10.1016/j.jclepro.2023.136936.

31) Zhang.N., Konyalioglu, AK.*, Duan. H., **Feng, H**., Li, H. (2023), The impact of innovative technologies in construction activities on concrete debris recycling in China: a system dynamics-based analysis. Environment, Development and Sustainability.

30) Zhu, S., Li, D.*, **Feng, H**., Zhang, N. (2023), The influencing factors and mechanisms for urban flood resilience in China: From the perspective of social-economic-natural complex ecosystem. Ecological Indicators. https://doi.org/10.1016/j.ecolind.2023.109959.

29) Zhu, S., Li, D.*, Zhu, J., **Feng, H**. (2023), Towards a Data-Rich Era: A bibliometric analysis of construction management from 2000 to 2020. Buildings. https://doi.org/10.3390/buildings12122242

28) Li, D.*, Wang, W., Huang, G., Zhou, S., Zhu, S., **Feng, H**. (2023), How to Enhance Citizens' Sense of Gain in Smart Cities? A SWOT-AHP-TOWS Approach. Social Indicators Research.

27) Mahmudnia, D., Arashpour*, M., Bai, Y., **Feng, H**. (2022), Drones and Blockchain Integration to Manage Forest Fires in Remote Regions. Drones. https://doi.org/10.3390/drones6110331.

26) Li, D.*, Xiong, Q., Huang, G., Du, B., **Feng, H**. (2022), How to share benefits of old community renewal project in China? An improved Shapley Value approach. Habitat International. https://doi.org/10.1016/j.habitatint.2022.102611.

25) Li, D.*, Zhu, X., Huang, G., **Feng, H**., Zhu, S., Li, X. (2022), A hybrid method for evaluating the resilience of urban road traffic network under flood disaster: An example of Nanjing, China. Environmental Science and Pollution Research.

24) Zhang, H., **Feng, H** *., Hewage, K., Arashpour, M. (2022), Artificial Neural Network for Predicting Building Energy Performance: A Surrogate Energy Retrofits Decision Support Framework. Buildings. https://doi.org/10.3390/buildings12060829.

23) Doukari, O.*, Seck, B., Greenwood, D., **Feng, H**., Kassem, M. (2022), Towards an interoperable approach for modelling and managing smart building data: The case of the CESI smart building. Buildings. https://doi.org/10.3390/buildings12030362

22) **Feng, H.,** Zhao, J.*, Zhang, H., Zhu, S., Li, D. (2022), Uncertainties in Whole-building Life Cycle Assessment: A systematic review. Journal of Building and Engineering. https://doi.org/10.1016/j.jobe.2022.104191.

21) Tao, G., **Feng, H *.**, Feng, J., Wang, T. (2022), Dynamic Multi-objective Construction Site Layout Planning Based on BIM. Korean Journal of Civil Engineering. https://doi.org/10.1007/s12205-022-0708-y.

20) Song, G., Lu, Y.*, **Feng, H**., Lin, L., Zheng, Y. (2022), An implementation framework of blockchain-based hazardous waste transfer management system. Environmental Science Pollution Research. https://doi.org/10.1007/s11356-021-17489-0.

19) Zhao, J., **Feng, H *.,** Chen, Q., Garcia de Soto, B. (2022), Developing a conceptual framework for the application of digital twin technologies to revamp building operation and maintenance processes, Journal of Building Engineering. https://doi.org/10.1016/j.jobe.2022.104028.

18) Piazza, M., **Feng, H *.,** Kassem, M. (2022), An investigation on frameworks for the specification of graphical exchange information requirements in BIM. Journal of Information Technology in Construction.

17) **Feng, H.*,** Kassem, M., Greenwood, D., Doukari, O. (2022). Whole building life cycle assessment at the design stage: a BIM-based framework using environmental product declaration. International Journal of Building Pathology and Adaptation. https://doi.org/10.1108/IJBPA-06-2021-0091.

16) Tao,G., **Feng, H**., Feng, J., Wang, T*. (2022), Dynamic Multi-objective Construction Site Layout Planning Based on BIM. KSCE Journal of Civil Engineering.

15) Chen, Q.*, **Feng, H.,** García de Soto, B. (2021), Revamping construction supply chain processes with circular economy strategies: a systematic literature review. Journal of Cleaner Production.

14) Liu, Q., Wang, Z., Zhang, N., Zuo J., **Feng, H.**, Duan, H* (2021). Characterizing the impacts of highway pavement in a newly planned greater bay area economic belt in China. International Journal of Life Cycle Assessment.

13) **Feng, H.,** Sadiq, R., & Hewage, K*. (2021). Exploring the current challenges and emerging approaches in whole building life cycle assessment. Canadian Journal of Civil Engineering.

12) He, P., Hu, G., Wang, C., Hewage, K., Sadiq, R., and **Feng, H *.** (2021) Analyzing present and future availability of critical high-tech minerals in waste cellphones: A case study of India. Waste Management.

11) Zhu S., Li, D.*, **Feng, H.,** Gu, T., Hewage, K., Sadiq, R. (2020). Smart city and resilient city: Differences and connections. Wiley Interdisciplinary Reviews: Data mining and knowledge discovery. https://doi.org/10.1002/widm.1388
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2. NON-REFEREED PUBLICATIONS

(a) Journals

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4. PATENTS

5. SPECIAL COPYRIGHTS

6. ARTISTIC WORKS, PERFORMANCES, DESIGNS

7. OTHER WORKS

8. WORK SUBMITTED (including publisher and date of submission)

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