

Anställning

Biträdande universitetslektor

Avdelningen för Byggnadsfysik
Lunds universitet
Lund, Sverige
2018 feb. 6 → present

Biträdande universitetslektor

Urbana System och Dynamik (USD)
Lunds universitet
Sverige
2025 jan. 22 → present

Profilområdesmedlem

LTH profilområde: Cirkulär byggindustri
Lunds universitet
Sverige
2024 jan. 10 → present

Profilområdesmedlem

LTH profilområde: Energiomställningen
Lunds universitet
Sverige
2024 mars 14 → present

Postdoc

Swiss Federal Institute of Technology
Lausanne, Schweiz
2020 sep. 1 → 2022 nov. 30

Postdoc

Chalmers Tekniska Högskola
Gothenburg, Sverige
2019 sep. 1 → 2020 aug. 31

Forskare

Lund University
Lund, Sverige
2018 nov. 1 → 2019 aug. 31

Forskningsoutput

Adaptive reinforcement learning for energy management: A progressive approach to boost climate resilience and energy flexibility

Nik, V. M. & Javanroodi, K., 2025 mars, I: Advances in Applied Energy. 17, 100213.

Toward Improved Urban Building Energy Modeling Using a Place-Based Approach

Mutani, G., Vocale, P. & Javanroodi, K., 2023 maj, I: Energies. 16, 9, 3944.

Challenges resulting from urban density and climate change for the EU energy transition

Perera, A. T. D., Javanroodi, K., Mauree, D., Nik, V. M., Florio, P., Hong, T. & Chen, D., 2023 apr., I: Nature Energy. 8, 4, s. 397-412 16 s.

Using urban building energy modeling to quantify the energy performance of residential buildings under climate change
Deng, Z., Javanroodi, K., Nik, V. M. & Chen, Y., 2023, I: Building Simulation. 16, 9, s. 1629-1643 15 s.

Combining computational fluid dynamics and neural networks to characterize microclimate extremes: Learning the complex interactions between meso-climate and urban morphology

Javanroodi, K., Nik, V. M., Giometto, M. G. & Scartezzini, J. L., 2022 juli 10, I: Science of the Total Environment. 829, 154223.

Impact of the COVID-19 pandemic on the energy performance of residential neighborhoods and their occupancy behavior

Todeschi, V., Javanroodi, K., Castello, R., Mohajeri, N., Mutani, G. & Scartezzini, J.-L., 2022 juli, I: Sustainable Cities and Society. 82, 19 s., 103896.

Climate change and energy performance of European residential building stocks: A comprehensive impact assessment using climate big data from the coordinated regional climate downscaling experiment

Yang, Y., Javanroodi, K. & Nik, V., 2021 sep. 15, I: Applied Energy. 298, 23 s., 117246.

Urban cells: Extending the energy hub concept to facilitate sector and spatial coupling

Perera, A. T. D., Javanroodi, K., Wang, Y. & Hong, T., 2021 aug. 25, I: Advances in Applied Energy. 3, 19 s., 100046.

Climate resilient interconnected infrastructure: Co-optimization of energy systems and urban morphology

Perera, A. T. D., Javanroodi, K. & Nik, V. M., 2021, I: Applied Energy. 285, 116430.

A new generation of thermal energy benchmarks for university buildings

Vaisi, S., Mohammadi, S., Nastasi, B. & Javanroodi, K., 2020 dec., I: Energies. 13, 24, 18 s., 6606.

Interactions between extreme climate and urban morphology: Investigating the evolution of extreme wind speeds from mesoscale to microscale

Javanroodi, K. & Nik, V. M., 2020, I: Urban Climate. 31, 100544.

Impacts of Microclimate Conditions on the Energy Performance of Buildings in Urban Areas

Javanroodi, K. & Nik, V., 2019 aug. 16, I: Buildings. 9, 8, 19 s., 189.

A novel design-based optimization framework for enhancing the energy efficiency of high-rise office buildings in urban areas

Javanroodi, K., Nik, V. & Mahdavinejad, M., 2019 aug., I: Sustainable Cities and Society. 49, 21 s., 101597.

Impacts of urban morphology on reducing cooling load and increasing ventilation potential in hot-arid climate

Javanroodi, K., Mahdavinejad, M. & Nik, V., 2018, I: Applied Energy. 231, s. 714-746 33 s.

Impact of roof shape on air pressure, wind flow and indoor temperature of residential buildings

Mahdavinejad, M. & Javanroodi, K., 2016, I: Journal of Sustainable Building Technology & Urban Development. 7, 2, s. 87-103

Investigating Condensation Role in Defects and Moisture Problems in Historic Buildings, Case study: Varamin Friday mosque in Iran

Mahdavinejad, M., Javanroodi, K. & Hashemi Rafsanjani, L., 2014, I: World Journal of Science, Technology and Sustainable Development. 10, 4, s. 308-325

Natural ventilation performance of ancient wind catchers, an experimental and analytical study - case studies: one-sided, two-sided and four-sided wind catchers

Mahdavinejad, M. & Javanroodi, K., 2014, I: International Journal of Energy Technology and Policy. 10, 1, s. 36-60

Projekt

CINERGY: Citizen-led sustainable transition to empower Nordic Energy communities (CINERGY): Sociotechnical Innovations for Enhanced Policy Instruments, Resilience, and Circularity

Javanroodi, K. (Forskare)
2025/01/01 → 2029/12/31

COLLECTiEF: Collective Intelligence for Energy Flexibility

Nik, V. (Projektkoordinator) & Javanroodi, K. (Forskare)
2021/06/01 → 2025/05/31

DigiCiti: DIGItal energy solutions promoting social innovation, Circular economy, climate change miTlGation and urban resilience

Nik, V. (Projektkoordinator) & Javanroodi, K. (Forskare)
2022/12/01 → 2025/11/30

CARUACI: enhancing Climate change Adaptation and Resilience in Urban areas through combining Artificial and Collective Intelligence

Nik, V. (Projektkoordinator) & Javanroodi, K. (Forskare)
2022/06/01 → 2023/05/31

FlexiSync: Flexible energy system integration using concept development, demonstration and replication

Nik, V. (Projektkoordinator) & Javanroodi, K. (Forskare)
2019/01/01 → 2022/12/31

How prepared are Swedish detached houses to adapt to Climate Change?

Nik, V. (Projektkoordinator) & Javanroodi, K. (Forskare)
2022/09/01 → 2025/08/31

nZEBRA: Intensive blended course in Climate Neutral Buildings to address nZeb regulation and complex behaviour of buildings

Javanroodi, K. (PI) & Nik, V. (CoPI)
2023/09/01 → 2026/08/31

MICROCOM: MICROCOM: Mitigating Indoor Comfort and Health Risks in extreme Microclimate conditions through AI-powered building management systems

Javanroodi, K. (Projektkoordinator) & Nik, V. (Forskare)
Crafoordska stiftelsen
2023/05/29 → ...

Moving from meso-climate to micro-climate

Javanroodi, K. (PI) & Nik, V. (PI)
2018/09/01 → 2019/09/30

Wind-Phil Architecture, Optimization of High-rise Building Form for Efficient Summer Cooling in Tehran

Javanroodi, K. (PI) & Nik, V. (PI)
2018/10/01 → 2019/12/31