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Urban building energy modeling A review of a nascent field

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489	An Integrated Simplification Approach for 3D Buildings with Sloped and Flat Roofs. <b>2016</b> , 5, 128		6
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487	Evaluating energy performance in non-domestic buildings: A review. <i>Energy and Buildings</i> , <b>2016</b> , 128, 734-755	7	77
486	The relationship between house size and life cycle energy demand: Implications for energy efficiency regulations for buildings. <b>2016</b> , 116, 1158-1171		48
485	Modeling Boston: A workflow for the efficient generation and maintenance of urban building energy models from existing geospatial datasets. <b>2016</b> , 117, 237-250		134
484	Inverse modeling of the urban energy system using hourly electricity demand and weather measurements, Part 1: Black-box model. <i>Energy and Buildings</i> , <b>2017</b> , 157, 126-138	7	16
483	Development of a simulation-based decision support workflow for the implementation of Building-Integrated Agriculture (BIA) in urban contexts. <i>Journal of Cleaner Production</i> , <b>2017</b> , 147, 589-602 <sup>10.3</sup>		45
482	Energy demand profile generation with detailed time resolution at an urban district scale: A reference building approach and case study. <b>2017</b> , 193, 243-262		53
481	Life Cycle Assessment of building stocks from urban to transnational scales: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 74, 316-332	16.2	84
480	Inverse modeling of the urban energy system using hourly electricity demand and weather measurements, Part 2: Gray-box model. <i>Energy and Buildings</i> , <b>2017</b> , 157, 139-156	7	15
479	Obstacles in energy planning at the urban scale. <i>Sustainable Cities and Society</i> , <b>2017</b> , 30, 223-236	10.1	79
478	A review on current advances in the energy and environmental performance of buildings towards a more sustainable built environment. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 77, 845-860	16.2	119
477	On the Spatio-Temporal End-User Energy Demands of a Dense Urban Environment. <b>2017</b> , 139,		10
476	Global sensitivity analysis as a support for the generation of simplified building stock energy models. <i>Energy and Buildings</i> , <b>2017</b> , 149, 368-383	7	24
475	Integrating the energy costs of urban transport and buildings. <i>Sustainable Cities and Society</i> , <b>2017</b> , 32, 669-681	10.1	7
474	Estimating the Potential for Thermal Load Management in Buildings at a Large Scale: Overcoming Challenges Towards a Replicable Methodology. <b>2017</b> , 111, 740-749		4
473	Life cycle building impact of a Middle Eastern residential neighborhood. <b>2017</b> , 134, 336-348		18

472	A methodology for estimating office building energy use baselines by means of land use legislation and reference buildings. <i>Energy and Buildings</i> , <b>2017</b> , 143, 100-113	7	16
471	Quantifying and mapping embodied environmental requirements of urban building stocks. <i>Building and Environment</i> , <b>2017</b> , 114, 187-202	6.5	104
470	Effects of air infiltration modeling approaches in urban building energy demand forecasts. <b>2017</b> , 122, 283-288		8
469	Space heating models at urban scale for buildings in the city of Turin (Italy). <b>2017</b> , 122, 841-846		14
468	Assessing tools relevance for energy simulation at the urban scale: towards decision-support tools for urban design and densification. <b>2017</b> , 122, 871-876		3
467	Seasonal effects of input parameters in urban-scale building energy simulation. <b>2017</b> , 122, 433-438		10
466	An analysis to understand how the shape of a concrete residential building influences its embodied energy and embodied carbon. <i>Energy and Buildings</i> , <b>2017</b> , 154, 1-11	7	24
465	Comparison of four building archetype characterization methods in urban building energy modeling (UBEM): A residential case study in Kuwait City. <i>Energy and Buildings</i> , <b>2017</b> , 154, 321-334	7	53
464	Modeling of district load forecasting for distributed energy system. <b>2017</b> , 204, 181-205		65
463	Facade geometry generation from low-resolution aerial photographs for building energy modeling. <i>Building and Environment</i> , <b>2017</b> , 123, 601-624	6.5	9
462	Evaluation of the space heating need in residential buildings at territorial scale: The case of Canton Ticino (CH). <i>Energy and Buildings</i> , <b>2017</b> , 148, 218-227	7	11
461	Novel validated method for GIS based automated dynamic urban building energy simulations. <b>2017</b> , 139, 142-154		48
460	Energy Efficiency and the Future of Real Estate. <b>2017</b> ,		3
459	Multi-Scale Computing for a Sustainable Built Environment. <b>2017</b> , 53-97		1
458	Global sensitivity analysis of an urban microclimate system under uncertainty: Design and case study. <i>Building and Environment</i> , <b>2017</b> , 124, 153-170	6.5	33
457	Automatic generation and simulation of urban building energy models based on city datasets for city-scale building retrofit analysis. <b>2017</b> , 205, 323-335		176
456	Modeling urban building energy use: A review of modeling approaches and procedures. <b>2017</b> , 141, 2445-2457		125
455	Big data GIS analysis for novel approaches in building stock modelling. <b>2017</b> , 208, 277-290		52

454	Review on stochastic modeling methods for building stock energy prediction. <b>2017</b> , 10, 607-624		58
453	Validation of a Bayesian-based method for defining residential archetypes in urban building energy models. <i>Energy and Buildings</i> , <b>2017</b> , 134, 11-24	7	130
452	Inverse estimation of the urban heat island using district-scale building energy calibration. <b>2017</b> , 143, 264-270		1
451	Energy efficient neighborhood design under residential zoning regulations in Shanghai. <b>2017</b> , 143, 865-872		7
450	Topologically Aware Building Rooftop Reconstruction From Airborne Laser Scanning Point Clouds. <b>2017</b> , 55, 7032-7052		35
449	Evaluating approaches for district-wide energy model calibration considering the Urban Heat Island effect. <b>2018</b> , 215, 31-40		20
448	Impacts of building geometry modeling methods on the simulation results of urban building energy models. <b>2018</b> , 215, 717-735		53
447	A method of strategic evaluation of energy performance of Building Integrated Photovoltaic in the urban context. <i>Journal of Cleaner Production</i> , <b>2018</b> , 184, 82-91	10.3	32
446	Building simulation: Ten challenges. <b>2018</b> , 11, 871-898		72
445	Developing urban residential reference buildings using clustering analysis of satellite images. <i>Energy and Buildings</i> , <b>2018</b> , 169, 417-429	7	37
444	Performance-based validation of climatic zoning for building energy efficiency applications. <b>2018</b> , 212, 416-427		17
443	The Energy Application Domain Extension for CityGML: enhancing interoperability for urban energy simulations. <b>2018</b> , 3,		36
442	Modelling aggregate hourly electricity consumption based on bottom-up building stock. <i>Energy and Buildings</i> , <b>2018</b> , 170, 170-182	7	25
441	A building energy demand and urban land surface model. <b>2018</b> , 144, 1572-1590		7
440	Development and test application of the UrbanSOLve decision-support prototype for early-stage neighborhood design. <i>Building and Environment</i> , <b>2018</b> , 137, 58-72	6.5	22
439	. <b>2018</b> , 106, 594-612		28
438	Balancing demand and supply: Linking neighborhood-level building load calculations with detailed district energy network analysis models. <b>2018</b> , 150, 913-925		14
437	CESAR: A bottom-up building stock modelling tool for Switzerland to address sustainable energy transformation strategies. <i>Energy and Buildings</i> , <b>2018</b> , 169, 9-26	7	54

436	TEASER: an open tool for urban energy modelling of building stocks. <b>2018</b> , 11, 84-98		84
435	Modeling the heating and cooling energy demand of urban buildings at city scale. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 81, 2318-2327	16.2	83
434	Estimating the energy-saving potential in national building stocks   A methodology review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 1489-1496	16.2	48
433	An urban building database (UBD) supporting a smart city information system. <i>Energy and Buildings</i> , <b>2018</b> , 158, 244-260	7	44
432	An Approach to Identify Resource Patterns on a Neighborhood Level. <b>2018</b> , 317-323		
431	Estimation and optimisation of buildings' thermal load using LiDAR data. <i>Building and Environment</i> , <b>2018</b> , 128, 12-21	6.5	13
430	Simulation Tools to Build Urban-Scale Energy Models: A Review. <i>Energies</i> , <b>2018</b> , 11, 3269	3.1	50
429	Analysing district heating potential with linear heat density. A case study from Hamburg.. <b>2018</b> , 149, 410-419		9
428	. <b>2018</b> ,		29
427	Modelling, Validation and Quantification of Climate and Other Sensitivities of Building Energy Model on 3D City Models. <b>2018</b> , 7, 447		8
426	Energy efficiency measures in buildings for achieving sustainable development goals. <b>2018</b> , 4, e00953		32
425	Profiling Occupancy Patterns to Calibrate Urban Building Energy Models (UBEMs) Using Measured Data Clustering. <b>2018</b> , 2, 206-217		4
424	TAD 2:2 Issue PDF. <b>2018</b> , 2, 123-268		
423	Energy modeling of urban informal settlement redevelopment: Exploring design parameters for optimal thermal comfort in Dharavi, Mumbai, India. <b>2018</b> , 231, 433-445		28
422	Comparison of dynamic urban building energy models (UBEM): Sigmoid energy signature and physical modelling approach. <i>Energy and Buildings</i> , <b>2018</b> , 179, 333-343	7	20
421	Indoor Air-Temperature Forecast for Energy-Efficient Management in Smart Buildings. <b>2018</b> ,		4
420	Spatiotemporal modelling for integrated spatial and energy planning. <b>2018</b> , 8,		23
419	District energy systems: Modelling paradigms and general-purpose tools. <b>2018</b> , 164, 1326-1340		31

418	Review on performance aspects of nearly zero-energy districts. <i>Sustainable Cities and Society</i> , <b>2018</b> , 43, 406-420	10.1	56
417	Estimation of temperature setpoints and heat transfer coefficients among residential buildings in Denmark based on smart meter data. <i>Building and Environment</i> , <b>2018</b> , 139, 125-133	6.5	18
416	Review of district-scale energy performance analysis: Outlooks towards holistic urban frameworks. <i>Sustainable Cities and Society</i> , <b>2018</b> , 41, 252-264	10.1	23
415	Identification of representative buildings and building groups in urban datasets using a novel pre-processing, classification, clustering and predictive modelling approach. <i>Building and Environment</i> , <b>2018</b> , 140, 90-106	6.5	52
414	Integrated Design of Energy Efficient Cities. <b>2018</b> , 471-545		2
413	Predicting Danish residential heating energy use from publicly available building characteristics. <i>Energy and Buildings</i> , <b>2018</b> , 173, 28-37	7	7
412	References. <b>2018</b> , 503-587		
411	Stakeholder Specific Multi-Scale Spatial Representation of Urban Building-Stocks. <b>2018</b> , 7, 173		11
410	A review on occupant behavior in urban building energy models. <i>Energy and Buildings</i> , <b>2018</b> , 174, 276-297		79
409	Hierarchical calibration of archetypes for urban building energy modeling. <i>Energy and Buildings</i> , <b>2018</b> , 175, 219-234	7	38
408	The Optimum Is Not the Goal: Capturing the Decision Space for the Planning of New Neighborhoods. <b>2018</b> , 3,		10
407	Development of a multiobjective optimization procedure dedicated to the design of district energy concept. <i>Energy and Buildings</i> , <b>2018</b> , 178, 11-25	7	4
406	Optimization-aided calibration of an urban microclimate model under uncertainty. <i>Building and Environment</i> , <b>2018</b> , 143, 390-403	6.5	11
405	Data-driven Urban Energy Simulation (DUE-S): A framework for integrating engineering simulation and machine learning methods in a multi-scale urban energy modeling workflow. <b>2018</b> , 225, 1176-1189		72
404	A comparison of two modeling approaches for establishing and implementing energy use reduction targets for a university campus. <i>Energy and Buildings</i> , <b>2018</b> , 173, 103-116	7	19
403	Novel method to simulate large-scale thermal city models. <b>2018</b> , 157, 633-646		16
402	Synthetic building stocks as a way to assess the energy demand and greenhouse gas emissions of national building stocks. <i>Energy and Buildings</i> , <b>2018</b> , 173, 443-460	7	26
401	Assessing the energy saving potential of an existing high-rise office building stock. <i>Energy and Buildings</i> , <b>2018</b> , 173, 547-561	7	20

400	Assessing overall building energy performance of a large population of residential single-family homes using limited field data. <b>2019</b> , 12, 480-493		4
399	Achievability of the Paris targets in the EU—the role of demand-side-driven mitigation in different types of scenarios. <i>Energy Efficiency</i> , <b>2019</b> , 12, 403-421	3	12
398	Assessing scalability of a low-voltage distribution grid co-simulation through functional mock-up interface. <b>2019</b> , 12, 637-649		2
397	An integrated data-driven framework for urban energy use modeling (UEUM). <b>2019</b> , 253, 113550		21
396	Planning for sustainable cities by estimating building occupancy with mobile phones. <b>2019</b> , 10, 3736		34
395	Prioritizing deep renovation for housing portfolios. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109361	7	13
394	Buildingmass and Energy Demand in Conventional Housing Typologies of the Mediterranean City. <i>Sustainability</i> , <b>2019</b> , 11, 3540	3.6	2
393	Urban energy use modeling methods and tools: A review and an outlook. <i>Building and Environment</i> , <b>2019</b> , 161, 106270	6.5	44
392	Toward a subhourly net zero energy district design through integrated building and distribution system modeling. <b>2019</b> , 11, 036301		6
391	Dynamic Assessment of Construction Materials in Urban Building Stocks: A Critical Review. <b>2019</b> , 53, 9992-10006		15
390	A Python-enhanced urban land surface model SuPy (SUEWS in Python, v2019.2): development, deployment and demonstration. <b>2019</b> , 12, 2781-2795		13
389	Parallel computational building-chain model for rapid urban-scale energy simulation. <i>Energy and Buildings</i> , <b>2019</b> , 201, 37-52	7	10
388	A service-life cycle approach to maintenance and energy retrofit planning for building portfolios. <i>Building and Environment</i> , <b>2019</b> , 160, 106212	6.5	17
387	A hybrid modelling method for improving estimates of the average energy-saving potential of a building stock. <i>Energy and Buildings</i> , <b>2019</b> , 199, 287-296	7	18
386	A digital workflow to quantify regenerative urban design in the context of a changing climate. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 113, 109255	16.2	36
385	IBPSA Project 1: BIM/GIS and Modelica framework for building and community energy system design and operation [Ongoing developments, lessons learned and challenges. <b>2019</b> , 323, 012114		8
384	Validation of the climatic zoning defined by ASHRAE standard 169-2013. <b>2019</b> , 135, 111016		4
383	How building energy models take the local climate into account in an urban context [A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 116, 109390	16.2	36

382	Urban building energy modelling and urban design for sustainable neighbourhood development-A China perspective. <b>2019</b> , 329, 012016		5
381	A multi-layer approach for estimating the energy use intensity on an urban scale. <b>2019</b> , 95, 102467		4
380	A Non-Linear Autoregressive Model for Indoor Air-Temperature Predictions in Smart Buildings. <b>2019</b> , 8, 979		11
379	From video games to solar energy: 3D shading simulation for PV using GPU. <b>2019</b> , 193, 962-980		15
378	Ten questions concerning modeling of distributed multi-energy systems. <i>Building and Environment</i> , <b>2019</b> , 165, 106372	6.5	28
377	Building stock simulation to support the development of a district multi-energy grid. <b>2019</b> , 111, 06027		1
376	A parametric approach to optimizing urban form, energy balance and environmental quality: The case of Mediterranean districts. <b>2019</b> , 254, 113637		43
375	A data-driven approach for multi-scale building archetypes development. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109364	7	21
374	Community energy by design: A simulation-based design workflow using measured data clustering to calibrate Urban Building Energy Models (UBEMs). <b>2019</b> , 46, 1517-1533		1
373	Explorative life-cycle assessment of renovating existing urban housing-stocks. <i>Building and Environment</i> , <b>2019</b> , 165, 106391	6.5	8
372	Smart Design for Sustainable Neighborhood Development. <b>2019</b> , 158, 6515-6520		2
371	Cities and greenhouse gas reduction: Policy makers or policy takers?. <b>2019</b> , 134, 110875		10
370	Developing a framework for urban building life cycle energy map with a focus on rapid visual inspection and image processing. <b>2019</b> , 80, 464-469		4
369	Modeling city-scale building energy dynamics through inter-connected distributed adjacency blocks. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109391	7	6
368	Generation Tool for Automated Thermal City Modelling. <b>2019</b> , 887, 292-299		2
367	Climatic performance of urban textures: Analysis tools for a Mediterranean urban context. <i>Energy and Buildings</i> , <b>2019</b> , 185, 162-179	7	40
366	A new clustering and visualization method to evaluate urban heat energy planning scenarios. <b>2019</b> , 88, 19-36		22
365	Incorporating machine learning with building network analysis to predict multi-building energy use. <i>Energy and Buildings</i> , <b>2019</b> , 186, 80-97	7	31



364	A comprehensive review of energy-related data for U.S. commercial buildings. <i>Energy and Buildings</i> , <b>2019</b> , 186, 126-137	7	16
363	Review and evaluation of hydrogen production options for better environment. <i>Journal of Cleaner Production</i> , <b>2019</b> , 218, 835-849	10.3	298
362	Modelling Urban Housing Stocks for Building Energy Simulation using CityGML EnergyADE. <b>2019</b> , 8, 163		17
361	A review of assessment methods for the urban environment and its energy sustainability to guarantee climate adaptation of future cities. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 112, 733-746	16.2	61
360	Urban energy modeling and calibration of a coastal Mediterranean city: The case of Beirut. <i>Energy and Buildings</i> , <b>2019</b> , 199, 223-234	7	11
359	Performance-Based Analysis in Civil Engineering: Overview of Applications. <b>2019</b> , 4, 28		0
358	Development of occupancy-integrated archetypes: Use of data mining clustering techniques to embed occupant behaviour profiles in archetypes. <i>Energy and Buildings</i> , <b>2019</b> , 198, 84-99	7	17
357	An archetype-in-neighbourhood framework for modelling cooling energy demand of a city's housing stock. <i>Energy and Buildings</i> , <b>2019</b> , 196, 30-45	7	6
356	An area-based modelling approach for planning heating electrification. <b>2019</b> , 131, 262-280		9
355	The role and costs of large-scale heat pumps in decarbonising existing district heating networks [A case study for the city of Herten in Germany. <b>2019</b> , 180, 918-933		26
354	Data-driven strategic planning of building energy retrofiting: The case of Stockholm. <i>Journal of Cleaner Production</i> , <b>2019</b> , 233, 546-560	10.3	34
353	Multivariate relationships between campus design parameters and energy performance using reinforcement learning and parametric modeling. <b>2019</b> , 249, 253-264		16
352	Modeling building resilience against extreme weather by integrated CityFFD and CityBEM simulations. <b>2019</b> , 250, 1402-1417		30
351	Data-driven building archetypes for urban building energy modelling. <b>2019</b> , 181, 360-377		55
350	Investigation on transient energy consumption of cold storages: Modeling and a case study. <b>2019</b> , 180, 1-9		12
349	Mapping temperature variation and degree-days in metropolitan areas with publicly available sensors. <b>2019</b> , 28, 100464		4
348	An Open Source Modeling Framework for Interdependent Energy-Transportation-Communication Infrastructure in Smart and Connected Communities. <b>2019</b> , 7, 55458-55476		4
347	Results of a literature review on methods for estimating buildings energy demand at district level. <b>2019</b> , 175, 1130-1137		34

346	Bottom-up modelling methodology for urban-scale analysis of residential space heating demand response. <b>2019</b> , 242, 181-204		39
345	A framework for using calibrated campus-wide building energy models for continuous planning and greenhouse gas emissions reduction tracking. <b>2019</b> , 241, 82-97		20
344	Renewable Energy Generation Scenarios Using 3D Urban Modeling Tools Methodology for Heat Pump and Co-Generation Systems with Case Study Application <i>Energies</i> , <b>2019</b> , 12, 403	3.1	21
343	Co-simulation and optimization of building geometry and multi-energy systems: Interdependencies in energy supply, energy demand and solar potentials. <b>2019</b> , 242, 1661-1682		46
342	Influence of context-sensitive urban and architectural design factors on the energy demand of buildings in Toulouse, France. <i>Energy and Buildings</i> , <b>2019</b> , 190, 262-278	7	17
341	A multi-scale calibration approach for process-oriented aggregated building energy demand models. <i>Energy and Buildings</i> , <b>2019</b> , 191, 82-94	7	6
340	Low carbon heating and cooling of residential buildings in cities in the hot summer and cold winter zone - A bottom-up engineering stock modeling approach. <i>Journal of Cleaner Production</i> , <b>2019</b> , 220, 271-288	10.3	30
339	Prospects for energy economy modelling with big data: Hype, eliminating blind spots, or revolutionising the state of the art?. <b>2019</b> , 239, 991-1002		15
338	Urban heat island, urban climate maps and urban development policies and action plans. <b>2019</b> , 14, 100341		39
337	Energy Demand Assessment for water in the residential sector in Mexico. <b>2019</b> ,		
336	District-scale energy demand modeling and urban microclimate: A case study in The Netherlands. <b>2019</b> , 1343, 012003		
335	Tertiary building stock modeling: Area determination by fusion of different datasets. <b>2019</b> , 1343, 012017		
334	The influence of urban form on the grid integration of renewable energy technologies and distributed energy systems. <b>2019</b> , 9, 17756		18
333	Integrated assessment of energy performance and seismic vulnerability of existing building stock at urban scale through BIM: an application to Biera del Levante <b>2019</b> ,		
332	Estimating India's commercial building stock to address the energy data challenge. <b>2019</b> , 47, 24-37		4
331	District energy system optimisation under uncertain demand: Handling data-driven stochastic profiles. <b>2019</b> , 236, 1138-1157		18
330	Energy Efficiency in Building Renovation. <b>2019</b> , 675-810		0
329	A street in perspective: Thermography simulated by the finite element method. <i>Building and Environment</i> , <b>2019</b> , 148, 225-239	6.5	7

328	Development of city buildings dataset for urban building energy modeling. <i>Energy and Buildings</i> , <b>2019</b> , 183, 252-265	7	62
327	Building Blocks Energy Estimation (BBEE): A method for building energy estimation on district level. <i>Energy and Buildings</i> , <b>2019</b> , 185, 137-147	7	7
326	City-wide building height determination using light detection and ranging data. <b>2019</b> , 46, 1741-1755		5
325	QuVue implementation for decisions related to high-rise residential building layouts. <i>Building and Environment</i> , <b>2019</b> , 148, 116-127	6.5	6
324	A review study about energy renovation of building facades with BIPV in urban environment. <i>Sustainable Cities and Society</i> , <b>2019</b> , 44, 343-355	10.1	62
323	Building energy demand modeling. <b>2019</b> , 79-136		1
322	Urban energy system planning: Overview and main challenges. <b>2019</b> , 19-49		2
321	Augmented Ensemble Calibration of lumped-parameter building models. <b>2019</b> , 12, 207-230		4
320	Modelling a whole building stock: domestic, non-domestic and mixed use. <b>2019</b> , 47, 156-172		7
319	A methodology for auto-calibrating urban building energy models using surrogate modeling techniques. <b>2019</b> , 12, 1-16		35
318	Strategic environmental urban planning - A contextual approach for defining performance goals and informing decision-making. <i>Building and Environment</i> , <b>2020</b> , 168, 106448	6.5	5
317	Joint and conditional dependence modelling of peak district heating demand and outdoor temperature: a copula-based approach. <b>2020</b> , 29, 373-395		4
316	Urban models enrichment for energy applications: Challenges in energy simulation using different data sources for building age information. <b>2020</b> , 190, 116292		14
315	Multi-domain urban-scale energy modelling tools: A review. <i>Sustainable Cities and Society</i> , <b>2020</b> , 54, 101872	10.1	32
314	Investigation on spatial distributions and occupant schedules of typical residential districts in South China's Pearl River Delta. <i>Energy and Buildings</i> , <b>2020</b> , 209, 109710	7	4
313	A high-temporal resolution residential building occupancy model to generate high-temporal resolution heating load profiles of occupancy-integrated archetypes. <i>Energy and Buildings</i> , <b>2020</b> , 206, 109577	7	11
312	Effect of densification and compactness on urban building energy consumption: Case of a Transit-Oriented Development in Dallas, TX. <i>Sustainable Cities and Society</i> , <b>2020</b> , 56, 101987	10.1	10
311	A building clustering approach for urban energy simulations. <i>Energy and Buildings</i> , <b>2020</b> , 208, 109671	7	16

310	Dynamic occupant density models of commercial buildings for urban energy simulation. <i>Building and Environment</i> , <b>2020</b> , 169, 106549	6.5	11
309	Modeling and data infrastructure for human-centric design and operation of sustainable, healthy buildings through a case study. <i>Building and Environment</i> , <b>2020</b> , 170, 106518	6.5	5
308	SynCity: Using open data to create a synthetic city of hourly building energy estimates by integrating data-driven and physics-based methods. <b>2020</b> , 280, 115981		24
307	Active consumer participation in smart energy systems. <i>Energy and Buildings</i> , <b>2020</b> , 227, 110359	7	17
306	An Integrated Microclimate-Energy Demand Simulation Method for the Assessment of Urban Districts. <b>2020</b> , 6,		9
305	Machine learning applications in urban building energy performance forecasting: A systematic review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 133, 110287	16.2	54
304	From concept to application: A review of use cases in urban building energy modeling. <b>2020</b> , 279, 115738		40
303	Developing a common approach for classifying building stock energy models. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 133, 110276	16.2	19
302	Impacts of diversity in commercial building occupancy profiles on district energy demand and supply. <b>2020</b> , 277, 115594		12
301	A novel population-based occupancy modeling approach for district-scale simulations compared to standard-based methods. <i>Building and Environment</i> , <b>2020</b> , 181, 107084	6.5	11
300	Calculating urban heat demands: An analysis of two modelling approaches and remote sensing for input data and validation. <i>Energy and Buildings</i> , <b>2020</b> , 226, 110378	7	6
299	Combining energy efficiency with self-cleaning properties in smart glass functionalized with multilayered semiconductors. <i>Journal of Cleaner Production</i> , <b>2020</b> , 272, 122830	10.3	3
298	Analysis and application of a lumped-capacitance model for urban building energy modelling. <i>Sustainable Cities and Society</i> , <b>2020</b> , 63, 102450	10.1	15
297	Modeling occupancy-driven building loads for large and diversified building stocks through the use of parametric schedules. <b>2020</b> , 276, 115470		11
296	Urban building energy modeling (UBEM) tools: A state-of-the-art review of bottom-up physics-based approaches. <i>Sustainable Cities and Society</i> , <b>2020</b> , 62, 102408	10.1	51
295	A combined GIS-archetype approach to model residential space heating energy: A case study for the Netherlands including validation. <b>2020</b> , 280, 115953		12
294	Data-centric innovation in retrofit: A bibliometric review of dwelling retrofit across North Western Europe. <i>Energy and Buildings</i> , <b>2020</b> , 229, 110474	7	3
293	Evaluating Building Energy Code Compliance and Savings Potential through Large-Scale Simulation with Models Inferred by Field Data. <i>Energies</i> , <b>2020</b> , 13, 2321	3.1	2

292	Quantifying the Building Energy Dynamics of Manhattan, New York City, Using an Urban Building Energy Model and Localized Weather Data. <i>Energies</i> , <b>2020</b> , 13, 3244	3.1	3
291	Automatic and rapid calibration of urban building energy models by learning from energy performance database. <b>2020</b> , 277, 115584		18
290	A methodology for calibration of building energy models at district scale using clustering and surrogate techniques. <i>Energy and Buildings</i> , <b>2020</b> , 226, 110309	7	11
289	Evaluation of low-exergy heating and cooling systems and topology optimization for deep energy savings at the urban district level. <b>2020</b> , 222, 113106		18
288	Building energy modeling at neighborhood scale. <i>Energy Efficiency</i> , <b>2020</b> , 13, 1353-1386	3	10
287	A holistic and multi-stakeholder methodology for vulnerability assessment of cities to flooding and extreme precipitation events. <i>Sustainable Cities and Society</i> , <b>2020</b> , 63, 102437	10.1	15
286	Development of a stochastic virtual smart meter data set for a residential building stock □ methodology and sample data. <b>2020</b> , 13, 583-605		1
285	Estimating residential building energy consumption using overhead imagery. <b>2020</b> , 280, 116018		16
284	Data for Urban Scale Building Energy Modelling: Assessing Impacts and Overcoming Availability Challenges. <i>Energies</i> , <b>2020</b> , 13, 4244	3.1	8
283	A data-driven approach for multi-scale GIS-based building energy modeling for analysis, planning and support decision making. <b>2020</b> , 279, 115834		28
282	Electronic Government. <b>2020</b> ,		1
281	Analysis of Building Parameter Uncertainty in District Heating for Optimal Control of Network Flexibility. <i>Energies</i> , <b>2020</b> , 13, 6220	3.1	3
280	Impact of Users' Behavior and Real Weather Conditions on the Energy Consumption of Tenement Houses in Wroclaw, Poland: Energy Performance Gap Simulation Based on a Model Calibrated by Field Measurements. <i>Energies</i> , <b>2020</b> , 13, 6707	3.1	8
279	Buildings' energy efficiency measures effect on CO2 emissions in combined heating, cooling and electricity production. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 134, 110299	16.2	18
278	A novel residential heating consumption characterisation approach at city level from available public data: Description and case study. <i>Energy and Buildings</i> , <b>2020</b> , 221, 110082	7	12
277	Assessment of building energy modelling studies to meet the requirements of the new Energy Performance of Buildings Directive. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 127, 109886	16.2	17
276	Urban building energy modeling: State of the art and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 128, 109902	16.2	41
275	Modelling urban-scale occupant behaviour, mobility, and energy in buildings: A survey. <i>Building and Environment</i> , <b>2020</b> , 183, 106964	6.5	20

274	Energy prediction techniques for large-scale buildings towards a sustainable built environment: A review. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110238	7	32
273	REST framework: A modelling approach towards cooling energy stress mitigation plans for future cities in warming Global South. <i>Sustainable Cities and Society</i> , <b>2020</b> , 61, 102315	10.1	3
272	Energy Modelling as a Trigger for Energy Communities: A Joint Socio-Technical Perspective. <i>Energies</i> , <b>2020</b> , 13, 2274	3.1	11
271	Ambition meets reality [Modeling renovations of the stock of apartments in Gothenburg by 2050. <i>Energy and Buildings</i> , <b>2020</b> , 223, 110098	7	1
270	Using Residential and Office Building Archetypes for Energy Efficiency Building Solutions in an Urban Scale: A China Case Study. <i>Energies</i> , <b>2020</b> , 13, 3210	3.1	11
269	District heat network extension to decarbonise building stock: A bottom-up agent-based approach. <b>2020</b> , 272, 115177		4
268	Development and validation in a 2D-GIS environment of a 3D shadow cast vector-based model on arbitrarily orientated and tilted surfaces. <i>Energy and Buildings</i> , <b>2020</b> , 224, 110258	7	6
267	Urban heat island effects of various urban morphologies under regional climate conditions. <b>2020</b> , 743, 140589		38
266	Joint optimization of building-envelope and heating-system retrofits at territory scale to enhance decision-aiding. <b>2020</b> , 264, 114639		8
265	Bayesian calibration at the urban scale: a case study on a large residential heating demand application in Amsterdam. <b>2020</b> , 13, 347-361		17
264	Aggregating set-point temperature profiles for archetype-based: simulations of the space heat demand within residential districts. <b>2020</b> , 13, 285-300		3
263	Bottom-up building stock retrofit based on levelized cost of saved energy. <i>Energy and Buildings</i> , <b>2020</b> , 210, 109757	7	14
262	Beyond nearly zero energy urban design: A holistic microclimatic energy and environmental quality evaluation workflow. <i>Sustainable Cities and Society</i> , <b>2020</b> , 56, 102094	10.1	22
261	Spatio-temporal changes among site-to-source conversion factors for building energy modeling. <i>Energy and Buildings</i> , <b>2020</b> , 213, 109832	7	5
260	An exploration of the relationship between density and building energy performance. <b>2020</b> , 25, 92-112		4
259	Integrated cost-optimal residential envelope retrofit decision-making and power systems optimisation using Ensemble models. <i>Energy and Buildings</i> , <b>2020</b> , 214, 109833	7	2
258	Building-level and stock-level in contrast: A literature review of the energy performance of buildings during the operational stage. <i>Energy and Buildings</i> , <b>2020</b> , 211, 109810	7	35
257	Towards agent-based building stock modeling: Bottom-up modeling of long-term stock dynamics affecting the energy and climate impact of building stocks. <i>Energy and Buildings</i> , <b>2020</b> , 211, 109763	7	25

256	Built form, urban climate and building energy modelling: case-studies in Rome and Antofagasta. <b>2020</b> , 13, 209-225		28
255	City-scale single family residential building energy consumption prediction using genetic algorithm-based Numerical Moment Matching technique. <i>Building and Environment</i> , <b>2020</b> , 172, 106667	6.5	14
254	AI-Based Campus Energy Use Prediction for Assessing the Effects of Climate Change. <i>Sustainability</i> , <b>2020</b> , 12, 3223	3.6	11
253	Long-term forecasting of hourly district heating loads in urban areas using hierarchical archetype modeling. <b>2020</b> , 201, 117687		19
252	A data-driven approach to optimize urban scale energy retrofit decisions for residential buildings. <b>2020</b> , 267, 114861		36
251	City-scale urban sustainability: Spatiotemporal mapping of distributed solar power for New York City. <b>2020</b> , 9, e374		7
250	A review of operational energy consumption calculation method for urban buildings. <b>2020</b> , 13, 739-751		14
249	A spatio-temporal life cycle assessment framework for building renovation scenarios at the urban scale. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 126, 109834	16.2	14
248	Using unsupervised learning to partition 3D city scenes for distributed building energy microsimulation. <b>2021</b> , 48, 1198-1212		1
247	Influence of data acquisition on the Bayesian calibration of urban building energy models. <i>Energy and Buildings</i> , <b>2021</b> , 230, 110512	7	10
246	A probabilistic building characterization method for district energy simulations. <i>Energy and Buildings</i> , <b>2021</b> , 230, 110566	7	7
245	Virtual power plants for a sustainable urban future. <i>Sustainable Cities and Society</i> , <b>2021</b> , 65, 102640	10.1	13
244	Climate change risk assessment: A holistic multi-stakeholder methodology for the sustainable development of cities. <i>Sustainable Cities and Society</i> , <b>2021</b> , 65, 102641	10.1	14
243	Urban built context as a passive cooling strategy for buildings in hot climate. <i>Energy and Buildings</i> , <b>2021</b> , 231, 110606	7	4
242	Energy master planning for net-zero emission communities: State of the art and research challenges. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 137, 110600	16.2	9
241	Data-driven modelling of operational district energy networks. <b>2021</b> , 22, 100802		2
240	A monitoring data based bottom-up modeling method and its application for energy consumption prediction of campus building. <b>2021</b> , 35, 101962		5
239	Green Walls as an Environmental Strategy. <b>2021</b> , 294-328		

238	Building Retrofit and Energy Conservation/Efficiency Review: A Techno-Environ-Economic Assessment of Heat Pump System Retrofit in Housing Stock. <i>Sustainability</i> , <b>2021</b> , 13, 983	3.6	10
237	Deep Learning-Based Generation of Building Stock Data from Remote Sensing for Urban Heat Demand Modeling. <b>2021</b> , 10, 23		11
236	Affordable and Clean Energy. <b>2021</b> , 459-470		0
235	Affordable and Clean Energy. <b>2021</b> , 392-402		
234	Quality Control Methods for Advanced Metering Infrastructure Data. <b>2021</b> , 4, 195-203		0
233	Integration of an energyEconomy model with an urban energy model. <b>2021</b> , 2, 114		2
232	Improving GIS-Based Heat Demand Modelling and Mapping for Residential Buildings with Census Data Sets at Regional and Sub-Regional Scales. <i>Energies</i> , <b>2021</b> , 14, 1029	3.1	1
231	Infrastructure-scale sustainable energy planning in the cityscape: Transforming urban energy metabolism in East Asia. <b>2021</b> , 10, e397		4
230	Integrating GIS-Based Point of Interest and Community Boundary Datasets for Urban Building Energy Modeling. <i>Energies</i> , <b>2021</b> , 14, 1049	3.1	3
229	Knowledge and energy retrofitting of neighborhoods and districts. A comprehensive approach coupling geographical information systems, building simulations and optimization engines. <b>2021</b> , 230, 113786		10
228	A clustering approach to clean cooking transition pathways for low-income households in Bangalore. <i>Sustainable Cities and Society</i> , <b>2021</b> , 66, 102697	10.1	5
227	Assessment of the Urban Heat Island Impact on Building Energy Performance at District Level with the EURECA Platform. <b>2021</b> , 9, 48		7
226	Modelado urbano microclimático para la simulación termo-energética de viviendas en edificios en altura en Mendoza, Argentina. Integración del software ENVI-met y EnergyPlus. <b>2021</b> , 73, e382		1
225	Demonstrating the potential of indoor positioning for monitoring building occupancy through ecologically valid trials. 1-23		1
224	EU-Funded Projects with Actual Implementation of Renewable Energies in Cities. Analysis of Their Concern for Aesthetic Impact. <i>Energies</i> , <b>2021</b> , 14, 1627	3.1	9
223	Modelling heating and cooling energy demand for building stock using a hybrid approach. <i>Energy and Buildings</i> , <b>2021</b> , 235, 110740	7	26
222	Novel Energy System Design Workflow for Zero-Carbon Energy District Development. <i>Frontiers in Sustainable Cities</i> , <b>2021</b> , 3,	2.2	2
221	Application of surrogate modelling to improve the thermal performance of single-family homes through archetype development. <i>Energy and Buildings</i> , <b>2021</b> , 237, 110812	7	6



220	Italian prototype building models for urban scale building performance simulation. <i>Building and Environment</i> , <b>2021</b> , 192, 107590	6.5	25
219	Urban form and building energy use: A systematic review of measures, mechanisms, and methodologies. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 139, 110662	16.2	11
218	Effects of Occupants and Local Air Temperatures as Sources of Stochastic Uncertainty in District Energy System Modeling. <i>Energies</i> , <b>2021</b> , 14, 2295	3.1	2
217	Grouping techniques for building stock analysis: A comparative case study. <i>Energy and Buildings</i> , <b>2021</b> , 236, 110754	7	2
216	Techno-economic investigation of the potential for energy efficiency measures of multi-story apartment buildings at cluster level using different district heating tariffs. <i>Energy and Buildings</i> , <b>2021</b> , 236, 110758	7	1
215	PEDRERA. Positive Energy District Renovation Model for Large Scale Actions. <i>Energies</i> , <b>2021</b> , 14, 2833	3.1	4
214	Large potentials for energy saving and greenhouse gas emission reductions from large-scale deployment of zero emission building technologies in a national building stock. <b>2021</b> , 152, 112114		11
213	Top-down spatially-explicit probabilistic estimation of building energy performance at a scale. <i>Energy and Buildings</i> , <b>2021</b> , 238, 110786	7	5
212	BIM-Based Energy Analysis and Sustainability Assessment Application to Portuguese Buildings. <i>Buildings</i> , <b>2021</b> , 11, 246	3.2	14
211	Toward cost-effective residential energy reduction and community impacts: A data-based machine learning approach. <b>2021</b> , 4, 100068		3
210	Supporting decision-making for heating and distribution systems in a new residential district - An Austrian case study. <b>2021</b> , 224, 120141		2
209	Identifying whole-building heat loss coefficient from heterogeneous sensor data: An empirical survey of gray and black box approaches. <i>Energy and Buildings</i> , <b>2021</b> , 241, 110889	7	3
208	Solar potential of urban forms of a cold semi-arid city in Algeria in the present and future climate. <b>2021</b> , 62, 151-162		1
207	Mapping Buildings Energy-Related Features at Urban Level toward Energy Planning. <i>Buildings</i> , <b>2021</b> , 11, 322	3.2	2
206	A High Resolution Spatiotemporal Urban Heat Load Model for GB. <i>Energies</i> , <b>2021</b> , 14, 4078	3.1	1
205	A method for using street view imagery to auto-extract window-to-wall ratios and its relevance for urban-level daylighting and energy simulations. <i>Building and Environment</i> , <b>2021</b> , 108108	6.5	6
204	Effect of urban form on microclimate and energy loads: Case study of generic residential district prototypes in Nanjing, China. <i>Sustainable Cities and Society</i> , <b>2021</b> , 70, 102930	10.1	5
203	Assessing a fit-for-purpose urban building energy modelling framework with reference to Ahmedabad. <b>2021</b> , 27, 1075-1103		1

202	Spatial factors influencing building age prediction and implications for urban residential energy modelling. <b>2021</b> , 88, 101637		5
201	Designing an Energy-Resilient Neighbourhood Using an Urban Building Energy Model. <i>Energies</i> , <b>2021</b> , 14, 4445	3.1	4
200	A modelling approach and a case study to answer the question: What does it take to retrofit a community to net-zero energy?. <b>2021</b> , 40, 102296		3
199	Stochastic Generation of District Heat Load. <i>Energies</i> , <b>2021</b> , 14, 5344	3.1	0
198	A systematic method to develop three dimensional geometry models of buildings for urban building energy modeling. <i>Sustainable Cities and Society</i> , <b>2021</b> , 71, 102998	10.1	8
197	Exploring the influence of urban context on building energy retrofit performance: A hybrid simulation and data-driven approach. <b>2021</b> , 3, 100038		3
196	Linking Semantic 3D City Models with Domain-Specific Simulation Tools for the Planning and Validation of Energy Applications at District Level. <i>Sustainability</i> , <b>2021</b> , 13, 8782	3.6	2
195	Addressing the potential for improvement of urban building stock: A protocol applied to a Mediterranean Spanish case. <i>Sustainable Cities and Society</i> , <b>2021</b> , 71, 102967	10.1	3
194	Automated Generation of an Energy Simulation Model for an Existing Building from UAV Imagery. <i>Buildings</i> , <b>2021</b> , 11, 380	3.2	3
193	A GIS-Based Procedure for Estimating the Energy Demand Profiles of Buildings towards Urban Energy Policies. <i>Energies</i> , <b>2021</b> , 14, 5445	3.1	3
192	Review of urban building energy modeling (UBEM) approaches, methods and tools using qualitative and quantitative analysis. <i>Energy and Buildings</i> , <b>2021</b> , 246, 111073	7	21
191	Research trends on environmental, energy and vulnerability impacts of Urban Heat Islands: An overview. <i>Energy and Buildings</i> , <b>2021</b> , 246, 111051	7	8
190	Comprehensive analysis to drive the energy retrofit of a neighborhood by optimizing the solar energy exploitation  An Italian case study. <i>Journal of Cleaner Production</i> , <b>2021</b> , 314, 127998	10.3	5
189	Quantifying the impact of residential space heating electrification on the Texas electric grid. <b>2021</b> , 298, 117113		3
188	Integration of Open-Source URBANopt and Dragonfly Energy Modeling Capabilities into Practitioner Workflows for District-Scale Planning and Design. <i>Energies</i> , <b>2021</b> , 14, 5931	3.1	1
187	Calculating solar irradiance without shading geometry: a point cloud-based method. <b>2021</b> , 14, 480-502		3
186	Context-aware Urban Energy Analytics (CUE-A): A framework to model relationships between building energy use and spatial proximity of urban systems. <i>Sustainable Cities and Society</i> , <b>2021</b> , 72, 102978	10.1	2
185	Using urban building energy modelling (UBEM) to support the new European Union's Green Deal: Case study of Dublin Ireland. <i>Energy and Buildings</i> , <b>2021</b> , 247, 111115	7	10

184	A holistic approach to model electricity loads in cities. 1		0
183	Narrowing uncertainties in forecasting urban building energy demand through an optimal archotyping method. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 148, 111312	16.2	6
182	Application of machine learning to estimate building energy use intensities. <i>Energy and Buildings</i> , <b>2021</b> , 249, 111219	7	3
181	Urban building energy model: Database development, validation, and application for commercial building stock. <i>Energy and Buildings</i> , <b>2021</b> , 248, 111175	7	6
180	Developing a Data-driven school building stock energy and indoor environmental quality modelling method. <i>Energy and Buildings</i> , <b>2021</b> , 249, 111249	7	8
179	Prioritizing urban planning factors on community energy performance based on GIS-informed building energy modeling. <i>Energy and Buildings</i> , <b>2021</b> , 249, 111191	7	5
178	Real-reference buildings for urban energy modelling: A multistage validation and diversification approach. <i>Building and Environment</i> , <b>2021</b> , 203, 108058	6.5	4
177	Evaluating the impact of the shape of school reference buildings on bottom-up energy benchmarking. <b>2021</b> , 43, 103142		0
176	Modelling building energy use at urban scale: A review on their account for the urban environment. <i>Building and Environment</i> , <b>2021</b> , 205, 108235	6.5	15
175	Identifying critical building-oriented features in city-block-level building energy consumption: A data-driven machine learning approach. <b>2021</b> , 301, 117453		4
174	Effects of global warming on energy retrofit planning of neighborhoods under stochastic human behavior. <i>Energy and Buildings</i> , <b>2021</b> , 250, 111306	7	4
173	Evaluation of housing stock indoor air quality models: A review of data requirements and model performance. <b>2021</b> , 43, 102846		4
172	Building energy performance analysis at urban scale: A supporting tool for energy strategies and urban building energy rating identification. <i>Sustainable Cities and Society</i> , <b>2021</b> , 74, 103220	10.1	3
171	Urban building energy prediction at neighborhood scale. <i>Energy and Buildings</i> , <b>2021</b> , 251, 111307	7	4
170	High-resolution hourly surrogate modeling framework for physics-based large-scale building stock modeling. <i>Sustainable Cities and Society</i> , <b>2021</b> , 75, 103292	10.1	1
169	The energy implications of urban morphology from an urban planning perspective [A case study for a new urban development area in the city of Vienna. <i>Energy and Buildings</i> , <b>2021</b> , 252, 111453	7	5
168	Life cycle embodied, operational and mobility-related energy and greenhouse gas emissions analysis of a green development in Melbourne, Australia. <b>2022</b> , 305, 117886		3
167	Status quo and opportunities for building energy prediction in limited data ContextOverview from a competition. <b>2022</b> , 305, 117829		3

166	Semantic enrichment of building and city information models: A ten-year review. <b>2021</b> , 47, 101245		12
165	Building Stock Energy Models and ICT Solutions for Urban Energy Systems. <b>2021</b> , 490-514		
164	Spatial Metrics to Investigate the Impact of Urban Form on Microclimate and Building Energy Performance: An Essential Overview. <b>2021</b> , 385-402		0
163	Integrating Urban Climate Knowledge: The Need for a New Knowledge Infrastructure to Support Climate-Responsive Urbanism. <b>2021</b> , 183-192		
162	Large-scale estimation of buildings thermal load using LiDAR data. <i>Energy and Buildings</i> , <b>2021</b> , 231, 110626		3
161	Developing a Building-by-Building Estimate of City-wide Electricity Savings Potential: An Early Trial for the City of Wilmington, Delaware. <i>SSRN Electronic Journal</i> ,	1	
160	Linking Neighborhoods into Sustainable Energy Systems. <b>2019</b> , 93-110		1
159	Energy and environmental analysis of urban environment: methodology and application of an integrated approach. 609, 072018		2
158	Climate Change Impacts on Campus Buildings Energy Use. <b>2019</b> ,		3
157	Want to Reduce Energy Consumption, Which Floor Should I Prefer?. <b>2020</b> ,		1
156	Learning from urban form to predict building heights. <b>2020</b> , 15, e0242010		8
155	archetypal: A Python package for collecting, simulating, converting and analyzing building archetypes. <b>2020</b> , 5, 1833		2
154	Optimization of solar energy exploitation for a neighborhood towards nearly zero energy buildings. <b>2020</b> ,		3
153	Assigning Energetic Archetypes to a Digital Cadastre and Estimating Building Heat Demand. An Example from Hamburg, Germany. <b>2020</b> , 24, 233-253		3
152	Health and Climate Benefits of Heat Adaptation Strategies in Single-Family Residential Buildings. <i>Frontiers in Sustainable Cities</i> , <b>2020</b> , 2,	2.2	1
151	A Data Ecosystem for Data-Driven Thermal Energy Transition: Reflection on Current Practice and Suggestions for Re-Design. <i>Energies</i> , <b>2020</b> , 13, 444	3.1	6
150	ENERGY ASSESSMENT OF URBAN BUILDINGS BASED ON GEOGRAPHIC INFORMATION SYSTEM. <b>2020</b> , 15, 83-93		4
149	An urban modelling framework for climate resilience in low-resource neighbourhoods. <b>2020</b> , 1, 453-474		2

148	Iterative What-if neighborhood simulation: energy and emissions impacts. <b>2020</b> , 1, 293-307		3
147	A methodological approach for a home occupants centred web tool to support buildings energy retrofiting process. <b>2021</b> , 312, 02001		
146	Demand-side flexibility in a residential district: what are the main sources of uncertainty?. <i>Energy and Buildings</i> , <b>2021</b> , 111595	7	0
145	Application of Urban Scale Energy Modelling and Multi-Objective Optimization Techniques for Building Energy Renovation at District Scale. <i>Sustainability</i> , <b>2021</b> , 13, 11554	3.6	1
144	There is no place like home The impact of residential heterogeneity on bottom-up energy system modeling. <i>Energy and Buildings</i> , <b>2022</b> , 254, 111591	7	1
143	Automatic energy demand and system simulation at district level. <b>2021</b> , 29, 133		0
142	Calibrating building energy simulation models: A review of the basics to guide future work. <i>Energy and Buildings</i> , <b>2021</b> , 253, 111533	7	13
141	Bioclimatic Design for Informal Settlements. <b>2018</b> , 157-171		
140	A contextual ontology for distributed urban data management. <i>Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction</i> , <b>2019</b> , 172, 96-105	0.5	1
139	Affordable and Clean Energy. <b>2020</b> , 1-12		
138	Integrated logistics support for the life cycle of building objects. 17-25		
137	The future role of energy geostructures in fifth generation district heating and cooling networks. <b>2021</b> , 240, 122481		4
136	Thermal comfort prediction of the existing housing stock in southern Spain through calibrated and validated parameterized simulation models. <i>Energy and Buildings</i> , <b>2022</b> , 254, 111562	7	3
135	Data-driven framework towards realistic bottom-up energy benchmarking using an Artificial Neural Network. <b>2022</b> , 306, 117960		4
134	Modelling platform for schools (MPS): The development of an automated One-By-One framework for the generation of dynamic thermal simulation models of schools. <i>Energy and Buildings</i> , <b>2022</b> , 254, 111566	7	1
133	Affordable and Clean Energy. <b>2020</b> , 1-11		0
132	Carbon Performance Evaluation of Urban Buildings Using Machine Learning-Based Energy Models. <b>2020</b> , 1379-1388		1
131	Urban Abacus of Building Energy Performances: a methodological approach. <b>2020</b> , 197, 02014		

130	Hydrogen: fuel of the near future. <b>2020</b> , 1-20		3
129	The Integrated Modification Methodology. <b>2020</b> , 15-37		2
128	Building Codes Don't Measure Up. <b>2020</b> , 32-63		
127	Multiple-Benefit Analysis of Scaling-Up Building Energy Efficiency Programs: The Case Study of Tunisia. <b>2020</b> , 1,		1
126	Prediction of Building Stock Energy Demand. <b>2020</b> , 1305-1314		
125	Towards Data-Driven Policymaking for the Urban Heat Transition in The Netherlands: Barriers to the Collection and Use of Data. <b>2020</b> , 361-373		1
124	A Comparison of Various Bottom-Up Urban Energy Simulation Methods Using a Case Study in Hangzhou, China. <i>Energies</i> , <b>2020</b> , 13, 4781	3.1	1
123	Guidelines for analysing the building energy efficiency using BIM. <b>2020</b> , 588, 022058		2
122	A Framework for Optimal Placement of Rooftop Photovoltaic: Maximizing Solar Production and Operational Cost Savings in Residential Communities. <b>2020</b> , 1,		
121	Calculation of stratification effects and parameters of atmospheric currents over steep surface obstacles. <b>2020</b> ,		
120	Information modelling for urban building energy simulationA taxonomic review. <i>Building and Environment</i> , <b>2021</b> , 208, 108552	6.5	5
119	A case study on the impact of fixed input parameter values in the modelling of indoor overheating. <b>2021</b> , 2069, 012137		
118	Times series forecasting for urban building energy consumption based on graph convolutional network. <b>2021</b> , 307, 118231		4
117	UBEM.io: A web-based framework to rapidly generate urban building energy models for carbon reduction technology pathways. <i>Sustainable Cities and Society</i> , <b>2021</b> , 77, 103534	10.1	2
116	Estimating unknown parameters of a building stock using a stochastic-deterministic-coupled approach. <i>Energy and Buildings</i> , <b>2021</b> , 255, 111673	7	0
115	A new workflow for detailed urban scale building energy modeling using spatial joining of attributes for archetype selection. <b>2021</b> , 103661		0
114	Characterizing and structuring urban GIS data for housing stock energy modelling and retrofitting. <i>Energy and Buildings</i> , <b>2021</b> , 111706	7	1
113	Archetype identification and urban building energy modeling for city-scale buildings based on GIS datasets. 1		2

112	Occupant-centric urban building energy modeling: Approaches, inputs, and data sources - A review. <i>Energy and Buildings</i> , <b>2022</b> , 257, 111809	7	2
111	Energy-saving potential prediction models for large-scale building: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 156, 111992	16.2	4
110	How much will it cost? An energy renovation analysis for the Portuguese dwelling stock. <i>Sustainable Cities and Society</i> , <b>2022</b> , 78, 103607	10.1	3
109	Discovering, processing and consolidating housing stock and smart thermostat data in support of energy end-use mapping and housing retrofit program planning. <i>Sustainable Cities and Society</i> , <b>2022</b> , 78, 103640	10.1	2
108	Towards low-carbon cities through building-stock-level carbon emission analysis: a calculating and mapping method. <i>Sustainable Cities and Society</i> , <b>2022</b> , 78, 103633	10.1	3
107	Urban Modeling and Analytics in a Smart Context. <b>2021</b> , 1-19		
106	The Evolution of Knowledge and Trends within the Building Energy Efficiency Field of Knowledge. <i>Energies</i> , <b>2022</b> , 15, 691	3.1	1
105	The Impact of Climate Change on a University Campus Energy Use: Use of Machine Learning and Building Characteristics. <i>Buildings</i> , <b>2022</b> , 12, 108	3.2	2
104	Design of Metal Dielectric Multilayer Coatings for Energy-Efficient Building Glazing. 2100776		
103	Review of Urban Heat Island and Building Energy Modeling Approaches. <b>2022</b> , 3,		
102	Estimating carbon emissions in urban functional zones using multi-source data: A case study in Beijing. <i>Building and Environment</i> , <b>2022</b> , 212, 108804	6.5	3
101	Evaluation of simplified building energy models for urban-scale energy analysis of buildings. <i>Building and Environment</i> , <b>2022</b> , 211, 108684	6.5	3
100	A new perspective for understanding actual anthropogenic heat emissions from buildings. <i>Energy and Buildings</i> , <b>2022</b> , 258, 111860	7	0
99	Integrating evidence-based thermal satisfaction in energy benchmarking: A data-driven approach for a whole-building evaluation. <b>2022</b> , 244, 123161		0
98	On the accuracy of Urban Building Energy Modelling. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 158, 111976	16.2	2
97	Large scale energy analysis and renovation strategies for social housing in the historic city of Venice. <b>2022</b> , 52, 102041		1
96	Best practice reporting guideline for building stock energy models. <i>Energy and Buildings</i> , <b>2022</b> , 111904	7	0
95	A Bayesian approach with urban-scale energy model to calibrate building energy consumption for space heating: A case study of application in Beijing. <b>2022</b> , 247, 123341		0

94	Building Archetype Characterization Using K-Means Clustering in Urban Building Energy Models. <b>2022</b> , 222-236		
93	The effect of building attributes on the energy performance at a scale: an inferential analysis. 1-19		0
92	The Impact of Detail, Shadowing and Thermal Zoning Levels on Urban Building Energy Modelling (UBEM) on a District Scale. <i>Energies</i> , <b>2022</b> , 15, 1525	3.1	0
91	A gbXML Reconstruction Workflow and Tool Development to Improve the Geometric Interoperability between BIM and BEM. <i>Buildings</i> , <b>2022</b> , 12, 221	3.2	1
90	Building Stock Energy Model: Towards a Stochastic Approach. <i>Energies</i> , <b>2022</b> , 15, 1420	3.1	1
89	Modelling Building Stock Energy Consumption at the Urban Level from an Empirical Study. <i>Buildings</i> , <b>2022</b> , 12, 385	3.2	0
88	Spatial Analysis on Routine Occupant Behavior Patterns and Associated Factors in Residential Buildings. <b>2022</b> ,		
87	Towards a multiscale framework for modeling and improving the life cycle environmental performance of built stocks. <i>Journal of Industrial Ecology</i> ,	7.2	1
86	Data acquisition for urban building energy modeling: A review. <i>Building and Environment</i> , <b>2022</b> , 109056	6.5	2
85	CityGML model generation using parametric interpolations. <i>Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction</i> , 1-20	0.5	
84	Novel methodology of urban energy simulations integrating Open-source platforms. <i>Energy and Buildings</i> , <b>2022</b> , 263, 112040	7	0
83	Hybrid approach to representative building archetypes development for urban models [A case study in Andorra. <i>Building and Environment</i> , <b>2022</b> , 215, 108958	6.5	
82	Influence of interior layouts on occupant energy-saving behaviour in buildings: An integrated approach using Agent-Based Modelling, System Dynamics and Building Information Modelling. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 161, 112382	16.2	0
81	Open-Source Tool for Transforming CityGML Levels of Detail. <i>Energies</i> , <b>2021</b> , 14, 8250	3.1	1
80	A Data-Driven Approach to Nation-Scale Building Energy Modeling. <b>2021</b> ,		0
79	AFGL-Net: Attentive Fusion of Global and Local Deep Features for Building Façades Parsing. <i>Remote Sensing</i> , <b>2021</b> , 13, 5039	5	
78	Tackling Climate Change with Machine Learning. <i>ACM Computing Surveys</i> , <b>2023</b> , 55, 1-96	13.4	26
77	Data-Driven Urban Energy Modeling: Global Trends and India. <i>Design Science and Innovation</i> , <b>2022</b> , 237-252		



76	Digitalization of the Network Schedule of Design and Construction Works. <i>Lecture Notes in Civil Engineering</i> , <b>2022</b> , 349-355	0.3	
75	Fifty shades of grey: Automated stochastic model identification of building heat dynamics. <i>Energy and Buildings</i> , <b>2022</b> , 112095	7	0
74	Advancing Urban Building Energy Modelling through new model components and applications: A review. <i>Energy and Buildings</i> , <b>2022</b> , 112099	7	0
73	A data-driven framework for abnormally high building energy demand detection with weather and block morphology at community scale. <i>Journal of Cleaner Production</i> , <b>2022</b> , 354, 131602	10.3	2
72	Archetype Modeling Uncertainty and Bayesian Calibration for Campus-scale Analysis of Seoul National University Buildings Energy Use. <i>KIEAE Journal</i> , <b>2022</b> , 22, 13-24	0.2	
71	Developing a Building Stock Model to Enable Clustered Renovation The City of Leuven as Case Study. <i>Sustainability</i> , <b>2022</b> , 14, 5769	3.6	0
70	Designing a District Energy Infrastructure - a Case-Study in Lisbon. <i>Frontiers in Sustainable Cities</i> , <b>2022</b> , 4,	2.2	0
69	Building Layout Influence on Occupant Energy Consumption Behaviour: An Agent-Based Modeling Approach. <b>2022</b> , 15,		
68	Integrated assessment across building and urban scales: A review and proposal for a more holistic, multi-scale, system-of-systems approach. <i>Sustainable Cities and Society</i> , <b>2022</b> , 82, 103915	10.1	2
67	Effectiveness of neural networks and transfer learning for indoor air-temperature forecasting. <i>Automation in Construction</i> , <b>2022</b> , 140, 104314	9.6	0
66	A grey-box modelling methodology to express home heat-energy usage as statistical distributions Case studies in urban Ireland. <i>Energy Efficiency</i> , <b>2022</b> , 15,	3	
65	Parametric Urban-Scale Analysis of Space Cooling Energy Needs and Potential Photovoltaic Integration in Residential Districts in South-West Europe. <i>Sustainability</i> , <b>2022</b> , 14, 6521	3.6	
64	Holistic assessment of carbon abatement strategies in building refurbishment literature A scoping review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 112636	16.2	1
63	Home energy retrofit: Reviewing its depth, scale of delivery, and sustainability. <i>Energy and Buildings</i> , <b>2022</b> , 269, 112253	7	2
62	A Novel Urban Heat Island Mitigation Strategies-Engaged City-Scale Building Energy Consumption Prediction Workflow: Case Study and Validation. <i>SSRN Electronic Journal</i> ,	1	
61	Creating Comparability among European Neighbourhoods to Enable the Transition of District Energy Infrastructures towards Positive Energy Districts. <i>Energies</i> , <b>2022</b> , 15, 4720	3.1	0
60	Inclusive urban building energy modeling through socioeconomic data: A persona-based case study for an underrepresented community. <i>Building and Environment</i> , <b>2022</b> , 109374	6.5	1
59	A life cycle assessment method to support cities in their climate change mitigation strategies. <i>Sustainable Cities and Society</i> , <b>2022</b> , 85, 104052	10.1	0

- 58 Development of a bottom-up white-box building stock energy model for single-family dwellings. **2022**, 15, 735-756
- 57 Estimating a Building's Energy Performance using a Composite Indicator: A Case Study. **2022**, 25, e2352
- 56 Heating and cooling networks: A comprehensive review of modelling approaches to map future directions. **2022**, 125060
- 55 Relationships between building characteristics, urban form and building energy use in different local climate zone contexts: An empirical study in Seoul. **2022**, 272, 112335
- 54 Impacts of uncertainty in building envelope thermal transmittance on heating/cooling demand in the urban context. **2022**, 273, 112363
- 53 Anisothermal flow dynamics in ventilated open space involved with indoor comfort. **2023**, 183, 107805
- 52 An innovative method to predict the thermal parameters of construction assemblies for urban building energy models. **2022**, 224, 109541
- 51 A linked data approach to multi-scale energy modelling. **2022**, 54, 101719
- 50 Review of Uncertainties in Building Characterization for Urban-Scale Energy Modeling. **2022**, 159-182
- 49 Supporting the EU Mission '100 Climate-Neutral Cities by 2030'—A Review of Tools to Support Decision-Making for the Built Environment at District or City Scale. **2022**, 151-168
- 48 The Impact of Large Deployment of Distributed Solar Photovoltaic at the Urban Scale on the Building Performance and the Correlation Between Energy Supply and Demand Over the Grid. **2022**, 19-45
- 47 An Empirical Bayesian Approach for Calibrating Long-Term District-Scale Building Energy Consumption for Heating.
- 46 Assessing the performance of Positive Energy Districts: The need for innovative methods. **2022**, 1085, 012014
- 45 Methodologies for Synthetic Spatial Building Stock Modelling: Data-Availability-Adapted Approaches for the Spatial Analysis of Building Stock Energy Demand. **2022**, 15, 6738
- 44 The uptake of City Information Modelling (CIM): a comprehensive review of current implementations, challenges and future outlook.
- 43 Optimal Planning of Future District Heating Systems—A Review. **2022**, 15, 7160
- 42 Bridging the gap—A database tool for BIM-based circularity assessment. **2022**, 1078, 012099
- 41 Building occupancy modelling at the district level: A combined copula-nested hazard-based approach. **2022**, 109661

- 40 Reducing Energy Consumption and Improving Comfort by Retrofitting Residential Buildings in the Hot Summer and Cold Winter Zone of China. **2022**, 28, ○
- 39 Development and Test of a New Fast Estimate Tool for Cooling and Heating Load Prediction of District Energy Systems at Planning Stage. **2022**, 12, 1671 ○
- 38 Modelling occupant behaviour for urban scale simulation: Review of available approaches and tools. ○
- 37 Science mapping the knowledge domain of energy performance research in the AEC industry: A scientometric analysis. **2022**, 125938 ○
- 36 How close are urban scale building simulations to measured data? Examining bias derived from building metadata in urban building energy modeling. **2022**, 327, 120049 ○
- 35 Heating energy balance and biomass consumption for the residential sector in the Po Valley. **2022**, 54, 102814 ○
- 34 Multi-objective optimization of hybrid renewable energy systems with urban building energy modeling for a prototypical coastal community. **2022**, 201, 72-84 ○
- 33 Multi-Agent-Based Model for the Urban Macro-Level Impact Factors of Building Energy Consumption on Different Types of Land. **2022**, 11, 1986 ○
- 32 Dynamic modelling of indoor environmental conditions for future energy retrofit scenarios across the UK school building stock. **2022**, 105536 ○
- 31 A data schema for exchanging information between urban building energy models and urban microclimate models in coupled simulations. 1-18 ○
- 30 A shoeboxing algorithm for Urban Building Energy Modeling: validation for stand-alone buildings. **2022**, 104305 ○
- 29 A Systematic Literature Review of Physics-Based Urban Building Energy Modeling (UBEM) Tools, Data Sources, and Challenges for Energy Conservation. **2022**, 15, 8649 ○
- 28 Multiscale modeling techniques to document urban climate change. **2023**, 123-164 ○
- 27 Space heating demand profiles of districts considering temporal dispersion of thermostat settings in individual buildings. **2023**, 228, 109839 ○
- 26 A novel and efficient method for calculating beam shadows on exterior surfaces of buildings in dense urban contexts. **2023**, 229, 109937 ○
- 25 A simplified urban building energy model to support early-stage energy plans. **2022**, 362, 09002 ○
- 24 FRAMEWORK FOR UPDATING GREEN BUILDING RATING TOOLS FOR DEVELOPING COUNTRIES. **2022**, 17, 41-77 ○
- 23 DeepRadiation: An intelligent augmented reality platform for predicting urban energy performance just through 360 panoramic streetscape images utilizing various deep learning models. ○

22	Assessing OSM building completeness for almost 13,000 cities globally. <b>2022</b> , 15, 2400-2421	1
21	Invisible walls: Exploration of microclimate effects on building energy consumption in New York City. <b>2022</b> , 104364	0
20	Combining BIM & GIS Information to Simulate Circularity of Building Stocks in a City A Case Study of Taipei City. <b>2022</b> , 1122, 012025	0
19	Estimating building occupancy: a machine learning system for day, night, and episodic events.	0
18	Occupant-centric dynamic heating and cooling loads simplified prediction model for urban community at energy planning stage. <b>2023</b> , 104406	0
17	MetaExplorer: Collaborative development of urban metabolism platform for decision making support. <b>2023</b> , 45, 101041	0
16	Approximating optimal building retrofit solutions for large-scale retrofit analysis. <b>2023</b> , 333, 120566	0
15	Determinants of energy efficient retrofits in residential sector: A comprehensive analysis. <b>2023</b> , 282, 112801	1
14	An agile heating and cooling energy demand model for residential buildings. Case study in a mediterranean city residential sector. <b>2023</b> , 175, 113166	0
13	Developing and tuning a community scale energy model for a disadvantaged community. <b>2023</b> , 285, 112861	0
12	Investigating the impact of urban microclimate on building thermal performance: A case study of dense urban areas in Hong Kong. <b>2023</b> , 94, 104509	0
11	Census-based urban building energy modeling to evaluate the effectiveness of retrofit programs. 239980832311545	0
10	Climate action at the neighbourhood scale: Comparing municipal future scenarios. <b>2023</b> , 4, 83-102	0
9	Streamlining Building Energy Modelling Using Open Access Databases A Methodology towards Decarbonisation of Residential Buildings in Sweden. <b>2023</b> , 15, 3887	0
8	A review of approaches and applications in building stock energy and indoor environment modelling. 014362442311630	0
7	Effect of Block Morphology on Building Energy Consumption of Office Blocks: A Case of Wuhan, China. <b>2023</b> , 13, 768	0
6	A review of residential building archetypes and their applications to study building energy consumption. 1-14	0
5	Data-driven urban building energy models for the platform of Toronto. <b>2023</b> , 16,	0

- 4 Carbon reduction technology pathways for existing buildings in eight cities. **2023**, 14, ○
- 3 Investigating the reliability of building energy models: Comparative analysis of the Impact of data pipelines and model complexities. **2023**, 106511 ○
- 2 Evaluating energy retrofits of historic buildings in a university campus using an urban building energy model that considers uncertainties. **2023**, 95, 104602 ○
- 1 Multi-scale UBEM-BIPV coupled approach for the assessment of carbon neutrality of commercial building stock. **2023**, 291, 113086 ○