

Kristen S Cetin

List of Publications by Year in descending order

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64
papers

1,210
citations

331259

21
h-index

395343

33
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64
all docs

64
docs citations

64
times ranked

1091
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling urban building energy use: A review of modeling approaches and procedures. <i>Energy</i> , 2017, 141, 2445-2457.	4.5	185
2	Freeze-thaw performance of phase change material (PCM) incorporated pavement subgrade soil. <i>Construction and Building Materials</i> , 2019, 202, 449-464.	3.2	77
3	Appliance daily energy use in new residential buildings: Use profiles and variation in time-of-use. <i>Energy and Buildings</i> , 2014, 84, 716-726.	3.1	63
4	Development and validation of an HVAC on/off controller in EnergyPlus for energy simulation of residential and small commercial buildings. <i>Energy and Buildings</i> , 2019, 183, 467-483.	3.1	63
5	Typical occupancy profiles and behaviors in residential buildings in the United States. <i>Energy and Buildings</i> , 2020, 210, 109713.	3.1	46
6	Single and multi-family residential central all-air HVAC system operational characteristics in cooling-dominated climate. <i>Energy and Buildings</i> , 2015, 96, 210-220.	3.1	42
7	Energy savings and daylighting evaluation of dynamic venetian blinds and lighting through full-scale experimental testing. <i>Energy</i> , 2020, 197, 117190.	4.5	40
8	Evaluation of the causes and impact of outliers on residential building energy use prediction using inverse modeling. <i>Building and Environment</i> , 2018, 138, 194-206.	3.0	37
9	Development and analysis of residential change-point models from smart meter data. <i>Energy and Buildings</i> , 2017, 139, 351-359.	3.1	34
10	Impacts of COVID-19 on residential building energy use and performance. <i>Building and Environment</i> , 2021, 205, 108200.	3.0	34
11	Energy efficiency in U.S. residential rental housing: Adoption rates and impact on rent. <i>Applied Energy</i> , 2017, 205, 1021-1033.	5.1	32
12	Design and Full-scale Implementation of the Largest Operational Electrically Conductive Concrete Heated Pavement System. <i>Construction and Building Materials</i> , 2020, 255, 119229.	3.2	31
13	Parametric study of the progressive freeze concentration for desalination. <i>Desalination</i> , 2021, 510, 115077.	4.0	30
14	Effect of technology-enabled time-of-use energy pricing on thermal comfort and energy use in mechanically-conditioned residential buildings in cooling dominated climates. <i>Building and Environment</i> , 2016, 96, 118-130.	3.0	28
15	Smart Meters and Smart Devices in Buildings: a Review of Recent Progress and Influence on Electricity Use and Peak Demand. <i>Current Sustainable/Renewable Energy Reports</i> , 2017, 4, 1-7.	1.2	28
16	Developing a landscape of urban building energy use with improved spatiotemporal representations in a cool-humid climate. <i>Building and Environment</i> , 2018, 136, 107-117.	3.0	27
17	Towards resilient infrastructure systems for winter weather events: Integrated stochastic economic evaluation of electrically conductive heated airfield pavements. <i>Sustainable Cities and Society</i> , 2018, 41, 195-204.	5.1	27
18	City-scale single family residential building energy consumption prediction using genetic algorithm-based Numerical Moment Matching technique. <i>Building and Environment</i> , 2020, 172, 106667.	3.0	27

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19	Full-scale experimental testing of integrated dynamically-operated roller shades and lighting in perimeter office spaces. <i>Solar Energy</i> , 2019, 186, 17-28.	2.9	26
20	Energy and thermal performance evaluation of an automated snow and ice removal system at airports using numerical modeling and field measurements. <i>Sustainable Cities and Society</i> , 2018, 43, 238-250.	5.1	25
21	An assessment of opinions and perceptions of smart thermostats using aspect-based sentiment analysis of online reviews. <i>Building and Environment</i> , 2020, 170, 106603.	3.0	25
22	Cluster analysis of occupancy schedules in residential buildings in the United States. <i>Energy and Buildings</i> , 2021, 236, 110791.	3.1	22
23	Characterizing large residential appliance peak load reduction potential utilizing a probabilistic approach. <i>Science and Technology for the Built Environment</i> , 2016, 22, 720-732.	0.8	19
24	Residential Building Energy Consumption: a Review of Energy Data Availability, Characteristics, and Energy Performance Prediction Methods. <i>Current Sustainable/Renewable Energy Reports</i> , 2018, 5, 76-85.	1.2	19
25	Experimental and theoretical characterization of electrodes on electrical and thermal performance of electrically conductive concrete. <i>Composites Part B: Engineering</i> , 2021, 222, 109003.	5.9	19
26	Design and Construction of the World's First Full-Scale Electrically Conductive Concrete Heated Airport Pavement System at a U.S. Airport. <i>Transportation Research Record</i> , 2018, 2672, 82-94.	1.0	18
27	On the long-term density prediction of peak electricity load with demand side management in buildings. <i>Energy and Buildings</i> , 2020, 228, 110450.	3.1	18
28	Data-Driven Methodology for Energy and Peak Load Reduction of Residential HVAC Systems. <i>Procedia Engineering</i> , 2016, 145, 852-859.	1.2	17
29	Data-Driven Evaluation of Residential HVAC System Efficiency Using Energy and Environmental Data. <i>Energies</i> , 2019, 12, 188.	1.6	17
30	Calibration of energy simulation using optimization for buildings with dynamic shading systems. <i>Energy and Buildings</i> , 2021, 236, 110787.	3.1	16
31	Thermal comfort evaluation for mechanically conditioned buildings using response surfaces in an uncertainty analysis framework. <i>Science and Technology for the Built Environment</i> , 2016, 22, 140-152.	0.8	12
32	Dynamic Shading in Buildings: a Review of Testing Methods and Recent Research Findings. <i>Current Sustainable/Renewable Energy Reports</i> , 2018, 5, 93-100.	1.2	12
33	Extreme events, energy security and equality through micro- and macro-levels: Concepts, challenges and methods. <i>Energy Research and Social Science</i> , 2022, 85, 102401.	3.0	10
34	Integrated stochastic life cycle benefit cost analysis of hydronically-heated apron pavement system. <i>Journal of Cleaner Production</i> , 2019, 224, 994-1003.	4.6	9
35	Development of Prediction Models for Mechanical Properties and Durability of Concrete Using Combined Nondestructive Tests. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, 04018378.	1.3	9
36	Energy-efficient design of a carbon fiber-based self-heating concrete pavement system through finite element analysis. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 1145-1155.	2.1	8

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37	Configuration of Electrodes for Electrically Conductive Concrete Heated Pavement Systems. , 2017, , .		7
38	Stabilization and concentration of nitrogen in synthetic urine with peracetic acid and progressive freeze concentration. Journal of Environmental Chemical Engineering, 2022, 10, 107768.	3.3	7
39	Influential variables impacting the reliability of building occupancy sensor systems: A systematic review and expert survey. Science and Technology for the Built Environment, 2022, 28, 200-220.	0.8	5
40	Stochastic residential occupancy schedules based on the American Time-Use Survey. Science and Technology for the Built Environment, 2022, 28, 776-790.	0.8	5
41	Projecting the Most Likely Annual Urban Heat Extremes in the Central United States. Atmosphere, 2019, 10, 727.	1.0	4
42	Variation in residential occupancy profiles in the United States by household income level and characteristics. Journal of Building Performance Simulation, 2021, 14, 692-711.	1.0	4
43	Hydronic Heated Pavement System Using Precast Concrete Pavement for Airport Applications. , 2018, , .		3
44	Surrogate modeling approach towards coupling computational fluid dynamics and energy simulations for analysis and design of energy efficient attics. Building and Environment, 2019, 149, 196-209.	3.0	3
45	Energy savings and retrofit assessment for city-scale residential building stock during extreme heatwave events using genetic algorithm-numerical moment matching. Clean Technologies and Environmental Policy, 2022, 24, 2081-2098.	2.1	3
46	Development and testing of a performance evaluation methodology to assess the reliability of occupancy sensor systems in residential buildings. Energy and Buildings, 2022, 268, 112148.	3.1	3
47	Improvement of inverse change-point modeling of electricity consumption in residential buildings across multiple climate zones. Building Simulation, 2019, 12, 711-722.	3.0	2
48	Proposed Improvements to the Construction of Electrically Conductive Concrete Pavement System Based on Lessons Learned. , 2020, , .		2
49	Smart Thermostats in Rental Housing Units: Perspectives from Landlords and Tenants. Journal of Architectural Engineering, 2021, 27, .	0.8	2
50	Mixed-Mode Ventilation in HVAC System for Energy and Economic Benefits in Residential Buildings. Energies, 2022, 15, 4429.	1.6	2
51	Numerical Modeling of Electrically Conductive Pavement Systems. , 2017, , .		1
52	Predicting the Need for Energy Efficiency Upgrades of Residential Buildings through Data-Driven Modeling. , 2018, , .		1
53	Construction Techniques for Electrically Conductive Heated Pavement Systems. , 2018, , .		1
54	Daylighting and Visual Comfort Performance of Integrated Dynamic Roller Shades and Lighting Controls. , 2019, , .		1

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55	Investigating Problem-Solving Processes of Students, Faculty, and Practicing Engineers in Civil Engineering. Journal of Civil Engineering Education, 2022, 148, .	0.8	1
56	Energy and Demand Saving Potential due to Integrated HVAC, Lighting, and Shading Controls in Small Office Building. , 2022, , .		1
57	Data-Driven Method to Study the Impact of Utilizing Electric Ground Power Systems on Airport Electricity Demand Profile. Transportation Research Record, 2020, 2674, 261-271.	1.0	0
58	Impact of Demand Response on Flexibility Services and Transmission Investment. , 2021, , .		0
59	Predicting Soil Temperature and Moisture beneath Granular-Surfaced Roadways Using Regional Weather Data Network. , 2021, , .		0
60	A growth curve-based Bayesian hierarchical model for multi-building energy use data analysis. Building and Environment, 2021, 206, 108349.	3.0	0
61	Monitoring and Modeling of Soil Thermal and Hydraulic Behavior Beneath a Granular-Surfaced Roadway. Lecture Notes in Civil Engineering, 2022, , 877-888.	0.3	0
62	Measurement and Verification and Model Validation to Evaluate Energy and Demand Savings from Smart Building Technologies in a Residential, Controlled Laboratory. , 2022, , .		0
63	Homeownersâ€™ Motivations to Invest in Energy-Efficient Technologies in Residential Buildings of Rural Midwest America. , 2022, , .		0
64	Characterizing Residential Energy Consumption Patterns in the Rural Midwest. , 2022, , .		0