

Moncef Krarti

List of Publications by Year in descending order

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151
papers

3,887
citations

126907

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133252

59
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153
docs citations

153
times ranked

2507
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Energy Performance Evaluation of Shallow Ground Source Heat Pumps for Residential Buildings. Energies, 2022, 15, 1025. | 3.1 | 7 |
| 2 | Benefits of switchable insulation systems for residential buildings in France. Energy and Buildings, 2022, 259, 111868. | 6.7 | 7 |
| 3 | Review of Adoption Status of Sustainable Energy Technologies in the US Residential Building Sector. Energies, 2022, 15, 2027. | 3.1 | 7 |
| 4 | A review of optimization based tools for design and control of building energy systems. Renewable and Sustainable Energy Reviews, 2022, 160, 112359. | 16.4 | 33 |
| 5 | Optimal controls of precooling strategies using switchable insulation systems for commercial buildings. Applied Energy, 2022, 320, 119298. | 10.1 | 3 |
| 6 | Evaluation of energy performance of dynamic overhang systems for US residential buildings. Energy and Buildings, 2021, 234, 110699. | 6.7 | 25 |
| 7 | Energy efficiency of residential buildings in the kingdom of Saudi Arabia: Review of status and future roadmap. Journal of Building Engineering, 2021, 36, 102143. | 3.4 | 24 |
| 8 | Optimal Control Strategies for Switchable Transparent Insulation Systems Applied to Smart Windows for US Residential Buildings. Energies, 2021, 14, 2917. | 3.1 | 5 |
| 9 | Cost-Effectiveness and Resiliency Evaluation of Net-Zero Energy U.S. Residential Communities. ASME Journal of Engineering for Sustainable Buildings and Cities, 2021, 2, . | 0.9 | 2 |
| 10 | Performance of precooling strategies using switchable insulation systems for commercial buildings. Applied Energy, 2021, 303, 117631. | 10.1 | 11 |
| 11 | Impact of Wall Constructions on Energy Performance of Switchable Insulation Systems. Energies, 2020, 13, 6068. | 3.1 | 5 |
| 12 | Optimal Control Strategies for Switchable Roof Insulation Systems Applied to US Residential Buildings. ASME Journal of Engineering for Sustainable Buildings and Cities, 2020, 1, . | 0.9 | 2 |
| 13 | Evaluation of Interactions Between Thermal Piles Integrated in Building Foundations. ASME Journal of Engineering for Sustainable Buildings and Cities, 2020, 1, . | 0.9 | 1 |
| 14 | Multiple-Benefit Analysis of Scaling-Up Building Energy Efficiency Programs: The Case Study of Tunisia. ASME Journal of Engineering for Sustainable Buildings and Cities, 2020, 1, . | 0.9 | 1 |
| 15 | A Review and Categorization of Grid-Interactive Efficient Building Technologies for Building Performance Simulation. ASME Journal of Engineering for Sustainable Buildings and Cities, 2020, 1, . | 0.9 | 3 |
| 16 | Feasibility Assessment of a Grid-Connected Carbon-Neutral Community in Midland, Texas. ASME Journal of Engineering for Sustainable Buildings and Cities, 2020, 1, . | 0.9 | 1 |
| 17 | Analysis of high-energy performance residences in Nigeria. Energy Efficiency, 2019, 12, 681-695. | 2.8 | 5 |
| 18 | Optimal Hybrid Power Energy Systems for Residential Communities in Saudi Arabia. Journal of Solar Energy Engineering, Transactions of the ASME, 2019, 141, . | 1.8 | 12 |

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| 19 | Optimal control strategies for hollow core ventilated slab systems. Journal of Building Engineering, 2019, 24, 100762. | 3.4 | 4 |
| 20 | Evaluation of Energy Efficiency Potential for the Building Sector in the Arab Region. Energies, 2019, 12, 4279. | 3.1 | 22 |
| 21 | Benefits of energy efficiency programs for residential buildings in Bahrain. Journal of Building Engineering, 2018, 18, 40-50. | 3.4 | 30 |
| 22 | Development of design guidelines for thermo-active foundations. Indoor and Built Environment, 2018, 27, 805-817. | 2.8 | 3 |
| 23 | An analysis methodology for large-scale deep energy retrofits of existing building stocks: Case study of the Italian office building. Sustainable Cities and Society, 2018, 41, 296-311. | 10.4 | 78 |
| 24 | Advanced Building Energy Efficiency Systems. , 2018, , 45-115. | | 3 |
| 25 | Control Strategies for Building Energy Systems. , 2018, , 117-187. | | 2 |
| 26 | Integrated Design and Retrofit of Buildings. , 2018, , 313-384. | | 2 |
| 27 | Integrated Design of Communities. , 2018, , 385-470. | | 1 |
| 28 | Evaluation of Ground-Source Variable Refrigerant Flow System for U.S. Office Buildings. Sustainability, 2018, 10, 1621. | 3.2 | 1 |
| 29 | Evaluation of building energy efficiency investment options for the Kingdom of Saudi Arabia. Energy, 2017, 134, 595-610. | 8.8 | 104 |
| 30 | Potential energy savings from deployment of Dynamic Insulation Materials for US residential buildings. Building and Environment, 2017, 114, 203-218. | 6.9 | 100 |
| 31 | Control strategies for dynamic insulation materials applied to commercial buildings. Energy and Buildings, 2017, 154, 305-320. | 6.7 | 42 |
| 32 | Three-dimensional accuracy with two-dimensional computation speed: using the Kiva numerical framework to improve foundation heat transfer calculations. Journal of Building Performance Simulation, 2017, 10, 161-182. | 2.0 | 4 |
| 33 | Macro-economic benefit analysis of large scale building energy efficiency programs in Qatar. International Journal of Sustainable Built Environment, 2017, 6, 597-609. | 3.2 | 33 |
| 34 | Evaluation of Passive Cooling Systems for Residential Buildings in the Kingdom of Saudi Arabia. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, . | 1.8 | 17 |
| 35 | Evaluation of Thermo-Active Foundations for Heating and Cooling Residential Buildings. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, . | 1.8 | 6 |
| 36 | Bayesian-Emulator based parameter identification for calibrating energy models for existing buildings. Building Simulation, 2016, 9, 411-428. | 5.6 | 23 |

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| 37 | Energy performance analysis of variable reflectivity envelope systems for commercial buildings. Energy and Buildings, 2016, 124, 88-98. | 6.7 | 45 |
| 38 | Impact of subsidization on high energy performance designs for Kuwaiti residential buildings. Energy and Buildings, 2016, 116, 249-262. | 6.7 | 60 |
| 39 | Evaluation of net-zero energy residential buildings in the MENA region. Sustainable Cities and Society, 2016, 22, 116-125. | 10.4 | 81 |
| 40 | Chapter 4 Analysis Methods for Building Energy Auditing. Mechanical and Aerospace Engineering, 2016, , 61-82. | 0.0 | 1 |
| 41 | Evaluation of large scale building energy efficiency retrofit program in Kuwait. Renewable and Sustainable Energy Reviews, 2015, 50, 1069-1080. | 16.4 | 60 |
| 42 | Optimal insulation for ice rink floors. Energy and Buildings, 2015, 108, 358-364. | 6.7 | 5 |
| 43 | Comparative evaluation of optimal energy efficiency designs for French and US office buildings. Energy and Buildings, 2015, 93, 332-344. | 6.7 | 26 |
| 44 | Energy performance analysis of variable thermal resistance envelopes in residential buildings. Energy and Buildings, 2015, 103, 317-325. | 6.7 | 105 |
| 45 | Energy efficiency optimization of new and existing office buildings in Guanajuato, Mexico. Sustainable Cities and Society, 2015, 17, 132-140. | 10.4 | 28 |
| 46 | Comparative Analysis of Prediction Accuracy from Daylighting Simulation Tools. LEUKOS - Journal of Illuminating Engineering Society of North America, 2015, 11, 49-60. | 2.9 | 13 |
| 47 | Evaluation of Optimal Hybrid Distributed Generation Systems for an Isolated Rural Settlement in Masirah Island, Oman. Distributed Generation and Alternative Energy Journal, 2015, 30, 23-42. | 0.8 | 7 |
| 48 | Analysis of End-Use Impact of Daylighting and Glare Controls for Private Office Spaces. LEUKOS - Journal of Illuminating Engineering Society of North America, 2015, 11, 61-87. | 2.9 | 1 |
| 49 | Kiva TM : a numerical framework for improving foundation heat transfer calculations. Journal of Building Performance Simulation, 2015, 8, 449-468. | 2.0 | 9 |
| 50 | Heat transfer analysis of thermo-active foundations. Energy and Buildings, 2015, 86, 492-501. | 6.7 | 23 |
| 51 | Foundation heat transfer analysis for buildings with thermal piles. Energy Conversion and Management, 2015, 89, 449-457. | 9.2 | 6 |
| 52 | Optimal design of residential building envelope systems in the Kingdom of Saudi Arabia. Energy and Buildings, 2015, 86, 104-117. | 6.7 | 142 |
| 53 | Assessment of infiltration heat recovery and its impact on energy consumption for residential buildings. Energy Conversion and Management, 2014, 78, 316-323. | 9.2 | 7 |
| 54 | Impact of Above-Grade Walls on Three-Dimensional Building Foundation Heat Transfer From Slab-On Grade Floors. Journal of Solar Energy Engineering, Transactions of the ASME, 2014, 136, . | 1.8 | 0 |

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| 55 | Optimization of Hybrid Distributed Generation Systems For Rural Communities in Alaska. Distributed Generation and Alternative Energy Journal, 2013, 28, 7-31. | 0.8 | 4 |
| 56 | Design Optimization of Energy Efficient Office Buildings in Tunisia. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, . | 1.8 | 8 |
| 57 | Performance of Thermoactive Foundations for Commercial Buildings. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, . | 1.8 | 9 |
| 58 | A frequency-domain regression method for estimating building foundation heat transfer. Journal of Building Performance Simulation, 2012, 5, 93-104. | 2.0 | 3 |
| 59 | Energy Efficiency Design Strategies for Greenhouse in Colorado. , 2012, , . | | 0 |
| 60 | Analysis of Thermo-Active Foundations With U-Tube Heat Exchangers. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, . | 1.8 | 17 |
| 61 | Evaluation of Hybrid Distributed Generation Systems for Four Locations in Mexico. , 2012, , . | | 0 |
| 62 | Performance of Thermoactive Foundations for Commercial Buildings. , 2012, , . | | 0 |
| 63 | Distributed Generation for Village of Hope. , 2012, , . | | 0 |
| 64 | Optimization of energy efficiency and thermal comfort measures for residential buildings in Salamanca, Mexico. Energy and Buildings, 2012, 54, 540-549. | 6.7 | 69 |
| 65 | Design optimization of energy efficient residential buildings in Tunisia. Building and Environment, 2012, 58, 81-90. | 6.9 | 139 |
| 66 | Optimal control of building storage systems using both ice storage and thermal mass " Part I: Simulation environment. Energy Conversion and Management, 2012, 64, 499-508. | 9.2 | 56 |
| 67 | Optimal controls of building storage systems using both ice storage and thermal mass " Part II: Parametric analysis. Energy Conversion and Management, 2012, 64, 509-515. | 9.2 | 52 |
| 68 | Impact of Layered Soil on Foundation Heat Transfer for Slab-On Grade Floors. Journal of Solar Energy Engineering, Transactions of the ASME, 2012, 134, . | 1.8 | 2 |
| 69 | Optimal electrical circuiting layout and desk location for daylighting controlled spaces. Energy and Buildings, 2012, 51, 122-130. | 6.7 | 7 |
| 70 | Impact of window selection on the energy performance of residential buildings in South Korea. Energy Policy, 2012, 44, 1-9. | 8.8 | 56 |
| 71 | Hybrid Distributed Power Generation for Apartment Building Complexes in Korea. , 2012, , . | | 0 |
| 72 | Hybrid Distributed Power Generation for an Isolated Rural Settlement in Masirah Island, Oman. , 2011, , . | | 3 |

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| 73 | Behavior and Testing Performance of a Gas Tankless Water Heater. , 2011, , . | | 3 |
| 74 | Analysis of Thermo-Active Foundations With U-Tube Heat Exchangers. , 2011, , . | | 1 |
| 75 | Residential Energy Analysis: Regression Analysis of Heating Degree Days With Temperature Setback for Selected ASHRAE Climate Zones. , 2011, , . | | 0 |
| 76 | Optimization of envelope and HVAC systems selection for residential buildings. Energy and Buildings, 2011, 43, 3373-3382. | 6.7 | 173 |
| 77 | Analysis of impact of daylight time savings on energy use of buildings in Kuwait. Energy Policy, 2011, 39, 2319-2329. | 8.8 | 39 |
| 78 | An ice rink floor thermal model suitable for whole-building energy simulation analysis. Building and Environment, 2011, 46, 1087-1093. | 6.9 | 10 |
| 79 | Development of an optimal daylighting controller. Building and Environment, 2011, 46, 1011-1022. | 6.9 | 20 |
| 80 | Assessment of natural and hybrid ventilation models in whole-building energy simulations. Energy and Buildings, 2011, 43, 2251-2261. | 6.7 | 103 |
| 81 | Evaluation of Energy Efficiency Improvement Program for Rental Homes. , 2011, , . | | 1 |
| 82 | Hourly Solar Radiation Model Suitable for Worldwide Typical Weather File Generation. Journal of Solar Energy Engineering, Transactions of the ASME, 2011, 133, . | 1.8 | 9 |
| 83 | An Analysis Model for Domestic Hot Water Distribution Systems. , 2011, , . | | 10 |
| 84 | Analysis of the Energy Saving Potentials for Near-Zero Energy Buildings in Shanghai. , 2011, , . | | 1 |
| 85 | A Methodology to Quantify Residential Energy-Efficiency in a Heating-Dominated Climate. , 2011, , . | | 0 |
| 86 | Genetic-algorithm based approach to optimize building envelope design for residential buildings. Building and Environment, 2010, 45, 1574-1581. | 6.9 | 383 |
| 87 | Evaluation of Measurement and Verification Procedures for Retrofit Savings Using Calibrated Energy Building Models. , 2010, , . | | 1 |
| 88 | Evaluation of Ground Source Heat Pump Energy, Demand, and Greenhouse Potential in Colorado Residential Buildings. , 2010, , . | | 2 |
| 89 | Identifying Inefficient Single-Family Homes With Utility Bill Analysis. , 2010, , . | | 1 |
| 90 | Development of an Hourly Optimization Tool for Renewable Energy Systems. , 2010, , . | | 0 |

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| 91 | A Simple Method to Estimate Energy Savings for Structural Insulated Panels Applied to Single Family Homes. , 2010, , . | | 0 |
| 92 | Greening Tenant/Landlord Processes: Demonstrating Transformation in the Industry. , 2010, , . | | 1 |
| 93 | Analysis of Impact of Daylight Time Savings on Energy Use of Buildings in Kuwait. , 2009, , . | | 0 |
| 94 | Impact of building shape on thermal performance of office buildings in Kuwait. Energy Conversion and Management, 2009, 50, 822-828. | 9.2 | 109 |
| 95 | Estimation of lighting energy savings from daylighting. Building and Environment, 2009, 44, 509-514. | 6.9 | 156 |
| 96 | Implementation of a building foundation heat transfer model in EnergyPlus. Journal of Building Performance Simulation, 2009, 2, 127-142. | 2.0 | 10 |
| 97 | Impact of Layered Soil on Foundation Heat Transfer for Slab-On Grade Floors. , 2009, , . | | 0 |
| 98 | Heat transfer beneath ice-rink floors. Building and Environment, 2008, 43, 1687-1698. | 6.9 | 8 |
| 99 | Impact of Solar Model Selection on Building Energy Analysis for Kuwait. Journal of Solar Energy Engineering, Transactions of the ASME, 2008, 130, . | 1.8 | 2 |
| 100 | Energy Efficient Systems and Strategies for Heating, Ventilating, and Air Conditioning (HVAC) of Buildings. Journal of Green Building, 2008, 3, 44-55. | 0.8 | 9 |
| 101 | A Simplified Method to Predict Energy Cost Savings in Office Buildings Using a Hybrid Desiccant, Absorption Chiller, and Natural Gas Turbine Cogeneration System With Thermal Storage. , 2007, , 787. | | 2 |
| 102 | Impact of Shape on Thermal Performance of Office Buildings in Kuwait. , 2007, , 607. | | 0 |
| 103 | A simplified analysis method to predict the impact of shape on annual energy use for office buildings. Energy Conversion and Management, 2007, 48, 300-305. | 9.2 | 123 |
| 104 | Impact of electricity rate structures on energy cost savings of pre-cooling controls for office buildings. Building and Environment, 2007, 42, 2810-2818. | 6.9 | 30 |
| 105 | A Simplified Method to Estimate Cooling Energy Savings From Night Ventilation for Office Buildings. , 2007, , . | | 0 |
| 106 | Genetic-Algorithm Based Controls for Daylighting. , 2006, , 609. | | 0 |
| 107 | Comparative Thermal Analysis of Structural Insulated Panels and Wood Frame Walls for Residential Buildings. , 2006, , 659. | | 0 |
| 108 | Impact of Solar Model Selection on Building Energy Analysis for Kuwait. , 2006, , 629. | | 0 |

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| 109 | Analysis of Demand Side Management Measures for Residential Buildings. , 2006, , 671. | | 0 |
| 110 | Impact of Shape on Building Energy Use in Tunisia. , 2006, , 621. | | 0 |
| 111 | Experimental Analysis of Heat Transfer From Ice Rink Floors. , 2006, , 681. | | 3 |
| 112 | Evaluation of Energy Savings by Optimization Control in Thermal Energy Storage System. , 2006, , . | | 1 |
| 113 | CFD-Based Parametric Analysis on the Performance of Personalized Partition Air Distribution Systems. , 2006, , . | | 1 |
| 114 | A simplified method to estimate energy savings of artificial lighting use from daylighting. Building and Environment, 2005, 40, 747-754. | 6.9 | 185 |
| 115 | Parametric Analysis of Active and Passive Building Thermal Storage Utilization*. Journal of Solar Energy Engineering, Transactions of the ASME, 2005, 127, 37-46. | 1.8 | 36 |
| 116 | Analysis of Daylighting Benefits for Office Buildings in Egypt. Journal of Solar Energy Engineering, Transactions of the ASME, 2005, 127, 366-370. | 1.8 | 10 |
| 117 | Impact of Shape on Residential Buildings Energy Performance. , 2005, , . | | 1 |
| 118 | Analysis of Electrical Energy Savings From Daylighting Through Skylights. , 2005, , . | | 0 |
| 119 | Controls of Multiple Chillers in Central Cooling Plants. , 2005, , . | | 0 |
| 120 | Experimental Analysis of Thermal Comfort-Based Controls. , 2004, , 277. | | 0 |
| 121 | Parametric Analysis of Active and Passive Building Thermal Storage Utilization. , 2004, , 193. | | 1 |
| 122 | Analysis of Heat and Moisture Transfer Beneath Freezer Foundationsâ€™Part I. Journal of Solar Energy Engineering, Transactions of the ASME, 2004, 126, 716-725. | 1.8 | 7 |
| 123 | Analysis of Heat and Moisture Transfer Beneath Freezer Foundations-Part II. Journal of Solar Energy Engineering, Transactions of the ASME, 2004, 126, 726-731. | 1.8 | 5 |
| 124 | Development of a thermal energy storage model for EnergyPlus. Energy and Buildings, 2004, 36, 807-814. | 6.7 | 35 |
| 125 | Local/global analysis of transient heat transfer from building foundations. Building and Environment, 2004, 39, 495-504. | 6.9 | 13 |
| 126 | Comparative Evaluation of Indoor Thermal Comfort for Green and Conventional Office Buildings. , 2004, , 177. | | 0 |

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| 127 | Analysis of Daylighting Benefits for Office Buildings in Egypt. , 2004, , . | | 0 |
| 128 | Optimization of Korean crop storage insulation systems. Energy Conversion and Management, 2003, 44, 1145-1162. | 9.2 | 16 |
| 129 | Guidelines for improved performance of ice storage systems. Energy and Buildings, 2003, 35, 111-127. | 6.7 | 73 |
| 130 | Local/global analysis applications to ground-coupled heat transfer. International Journal of Thermal Sciences, 2003, 42, 871-880. | 4.9 | 2 |
| 131 | An Overview of Artificial Intelligence-Based Methods for Building Energy Systems. Journal of Solar Energy Engineering, Transactions of the ASME, 2003, 125, 331-342. | 1.8 | 54 |
| 132 | Foundation heat loss from heated concrete slab-on-grade floors. Building and Environment, 2001, 36, 637-655. | 6.9 | 39 |
| 133 | Steady-State Component of Three-Dimensional Slab-on-Grade Foundation Heat Transfer. Journal of Solar Energy Engineering, Transactions of the ASME, 2001, 123, 18-29. | 1.8 | 5 |
| 134 | Steady-Periodic Three-Dimensional Foundation Heat Transfer From Refrigerated Structures. Journal of Solar Energy Engineering, Transactions of the ASME, 2000, 122, 69-83. | 1.8 | 7 |
| 135 | Thermally optimal insulation distribution for underground structures. Energy and Buildings, 2000, 32, 251-265. | 6.7 | 21 |
| 136 | Time-varying heat transfer from adjacent slab-on-grade floors. International Journal of Energy Research, 1998, 22, 289-301. | 4.5 | 2 |
| 137 | A Simulation Environment for the Analysis of Ice Storage Controls. HVAC and R Research, 1997, 3, 128-148. | 0.6 | 39 |
| 138 | Development of a Predictive Optimal Controller for Thermal Energy Storage Systems. HVAC and R Research, 1997, 3, 233-264. | 0.6 | 127 |
| 139 | A simulation method for fluctuating temperatures in crawlspace foundations. Energy and Buildings, 1997, 26, 183-188. | 6.7 | 4 |
| 140 | Analytical model for heat transfer in an underground air tunnel. Energy Conversion and Management, 1996, 37, 1561-1574. | 9.2 | 115 |
| 141 | Slab heat loss calculation with non-uniform inside air temperature profiles. Energy Conversion and Management, 1996, 37, 1435-1444. | 9.2 | 7 |
| 142 | Effect of spatial variation of soil thermal properties on slab-on-ground heat transfer. Building and Environment, 1996, 31, 51-57. | 6.9 | 15 |
| 143 | Time-varying heat transfer from slab-on-grade floors with vertical insulation. Building and Environment, 1994, 29, 55-61. | 6.9 | 15 |
| 144 | Time-varying heat transfer from partially insulated basements. International Journal of Heat and Mass Transfer, 1994, 37, 1657-1671. | 4.8 | 6 |

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| 145 | Time-varying heat transfer from horizontally insulated slab-on-grade floors. <i>Building and Environment</i> , 1994, 29, 63-71. | 6.9 | 11 |
| 146 | Steady-state heat transfer from horizontally insulated slabs. <i>International Journal of Heat and Mass Transfer</i> , 1993, 36, 2135-2145. | 4.8 | 6 |
| 147 | Steady-state heat transfer from slab-on-grade floors with vertical insulation. <i>International Journal of Heat and Mass Transfer</i> , 1993, 36, 2147-2155. | 4.8 | 7 |
| 148 | Two-Dimensional Heat Transfer From Earth-Sheltered Buildings. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 1990, 112, 43-50. | 1.8 | 13 |
| 149 | Steady-state heat transfer beneath partially insulated slab-on-grade floor. <i>International Journal of Heat and Mass Transfer</i> , 1989, 32, 961-969. | 4.8 | 19 |
| 150 | The ITPE technique applied to steady-state ground-coupling problems. <i>International Journal of Heat and Mass Transfer</i> , 1988, 31, 1885-1898. | 4.8 | 49 |
| 151 | ITPE technique applications to time-varying two-dimensional ground-coupling problems. <i>International Journal of Heat and Mass Transfer</i> , 1988, 31, 1899-1911. | 4.8 | 56 |