

Fariborz Haghighat

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8555187/fariborz-haghighat-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

199
papers

9,265
citations

51
h-index

89
g-index

207
ext. papers

11,293
ext. citations

7.5
avg, IF

7.3
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 199 | Recent developments in photocatalysis of industrial effluents ? A review and example of phenolic compounds degradation.. <i>Chemosphere</i> , 2022 , 296, 133688 | 8.4 | 4 |
| 198 | Impact of air distribution on indoor formaldehyde abatement with/without passive removal material: A CFD modeling. <i>Building and Environment</i> , 2022 , 212, 108792 | 6.5 | 4 |
| 197 | Impact of occupancy prediction models on building HVAC control system performance: Application of machine learning techniques. <i>Energy and Buildings</i> , 2022 , 257, 111808 | 7 | 5 |
| 196 | A practical approach for preventing dispersion of infection disease in naturally ventilated room. <i>Journal of Building Engineering</i> , 2022 , 48, 103921 | 5.2 | 2 |
| 195 | Trade-off between accuracy and fairness of data-driven building and indoor environment models: A comparative study of pre-processing methods. <i>Energy</i> , 2022 , 239, 122273 | 7.9 | 1 |
| 194 | Kinetic modeling and reaction mechanism of toluene and by-products in photocatalytic oxidation reactor. <i>Chemical Engineering Journal</i> , 2022 , 427, 131536 | 14.7 | 5 |
| 193 | A review of advances towards efficient reduced-order models (ROM) for predicting urban airflow and pollutant dispersion. <i>Building and Environment</i> , 2022 , 216, 108966 | 6.5 | 0 |
| 192 | Dynamics of SARS-CoV-2 spreading under the influence of environmental factors and strategies to tackle the pandemic: A systematic review.. <i>Sustainable Cities and Society</i> , 2022 , 81, 103840 | 10.1 | 0 |
| 191 | Kinetic modeling of binary mixture of butyraldehyde and acetone with generated by-products in photocatalytic oxidation reactor. <i>Chemical Engineering Journal</i> , 2022 , 443, 136457 | 14.7 | 0 |
| 190 | Impact of predictor variables on the performance of future occupancy prediction: Feature selection using genetic algorithms and machine learning. <i>Building and Environment</i> , 2022 , 109152 | 6.5 | 0 |
| 189 | Removal of indoor air ozone using carbon-based filters: Systematic development and validation of a predictive model. <i>Building and Environment</i> , 2022 , 109157 | 6.5 | 0 |
| 188 | A review on an emerging solution to improve indoor air quality: Application of passive removal materials. <i>Building and Environment</i> , 2022 , 109228 | 6.5 | 4 |
| 187 | The generalizability of pre-processing techniques on the accuracy and fairness of data-driven building models: A case study. <i>Energy and Buildings</i> , 2022 , 268, 112204 | 7 | 0 |
| 186 | Smart design and control of thermal energy storage in low-temperature heating and high-temperature cooling systems: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 166, 112625 | 16.2 | 0 |
| 185 | Modelling of sorbent-based gas filters for indoor environment: A comprehensive review. <i>Building and Environment</i> , 2021 , 208, 108579 | 6.5 | 2 |
| 184 | Season-Based Occupancy Prediction in Residential Buildings Using Machine Learning Models. <i>E-Prime</i> , 2021 , 100003 | | 3 |
| 183 | Modeling of photocatalytic oxidation reactor for methyl ethyl ketone removal from indoor environment: Systematic model development and validation. <i>Chemical Engineering Journal</i> , 2021 , 409, 128265 | 14.7 | 10 |

| | | | |
|-----|--|------|----|
| 182 | Experimental evaluation of in-duct electronic air cleaning technologies for the removal of ketones. <i>Building and Environment</i> , 2021 , 196, 107782 | 6.5 | 8 |
| 181 | Occupant-density-detection based energy efficient ventilation system: Prevention of infection transmission. <i>Energy and Buildings</i> , 2021 , 240, 110883 | 7 | 47 |
| 180 | Occupancy-based HVAC control systems in buildings: A state-of-the-art review. <i>Building and Environment</i> , 2021 , 197, 107810 | 6.5 | 29 |
| 179 | Kinetic modeling of the photocatalytic degradation of methyl ethyl ketone in air for a continuous-flow reactor. <i>Chemical Engineering Journal</i> , 2021 , 404, 126602 | 14.7 | 13 |
| 178 | Sensitivity analysis of design parameters for erythritol melting in a horizontal shell and multi-finned tube system: Numerical investigation. <i>Renewable Energy</i> , 2021 , 163, 423-436 | 8.1 | 11 |
| 177 | Active ozone removal technologies for a safe indoor environment: A comprehensive review. <i>Building and Environment</i> , 2021 , 187, 107370 | 6.5 | 21 |
| 176 | Data driven occupancy information for energy simulation and energy use assessment in residential buildings. <i>Energy</i> , 2021 , 218, 119539 | 7.9 | 14 |
| 175 | Effect of titanium dioxide properties and support material on photocatalytic oxidation of indoor air pollutants. <i>Building and Environment</i> , 2021 , 189, 107518 | 6.5 | 9 |
| 174 | Anatase/brookite biphasic surface fluorinated Fe ₃ O ₄ photocatalysts to enhance photocatalytic removal of VOCs under visible and UV light. <i>Journal of Cleaner Production</i> , 2021 , 287, 125462 | 10.3 | 12 |
| 173 | Extracting energy-related knowledge from mining occupants behavioral data in residential buildings. <i>Journal of Building Engineering</i> , 2021 , 39, 102319 | 5.2 | 6 |
| 172 | Indoor airborne disinfection with electrostatic disinfectant (ESD): Numerical simulations of ESD performance and reduction of computing time. <i>Building and Environment</i> , 2021 , 200, 107956 | 6.5 | 13 |
| 171 | Kinetic and reaction mechanism of generated by-products in a photocatalytic oxidation reactor: Model development and validation. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126411 | 12.8 | 6 |
| 170 | Understanding the influence of building characteristics on enhancing energy efficiency in residential buildings: A data mining based study. <i>Journal of Building Engineering</i> , 2021 , 43, 103069 | 5.2 | 3 |
| 169 | Development of advanced controllers to extend the peak shifting possibilities in the residential buildings. <i>Journal of Building Engineering</i> , 2021 , 43, 103026 | 5.2 | 1 |
| 168 | Mitigating COVID-19 infection disease transmission in indoor environment using physical barriers. <i>Sustainable Cities and Society</i> , 2021 , 74, 103175 | 10.1 | 27 |
| 167 | Occupancy and occupant activity drivers of energy consumption in residential buildings. <i>Energy and Buildings</i> , 2021 , 250, 111303 | 7 | 6 |
| 166 | Removal of SARS-CoV-2 using UV+Filter in built environment. <i>Sustainable Cities and Society</i> , 2021 , 74, 103226 | 10.1 | 18 |
| 165 | Embedded LES of thermal stratification effects on the airflow and concentration fields around an isolated high-rise building: Spectral and POD analyses. <i>Building and Environment</i> , 2021 , 206, 108388 | 6.5 | 3 |

| | | | |
|-----|--|------|----|
| 164 | Occupancy-based HVAC control using deep learning algorithms for estimating online preconditioning time in residential buildings. <i>Energy and Buildings</i> , 2021 , 252, 111377 | 7 | 8 |
| 163 | A review of the-state-of-the-art in data-driven approaches for building energy prediction. <i>Energy and Buildings</i> , 2020 , 221, 110022 | 7 | 78 |
| 162 | Performance of a self-learning predictive controller for peak shifting in a building integrated with energy storage. <i>Sustainable Cities and Society</i> , 2020 , 60, 102285 | 10.1 | 14 |
| 161 | Carbon-doped TiO ₂ film to enhance visible and UV light photocatalytic degradation of indoor environment volatile organic compounds. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104162 | 6.8 | 17 |
| 160 | Thermal performance of PCM-to-air heat exchangers in hot desert climate. <i>Science and Technology for the Built Environment</i> , 2020 , 26, 1371-1386 | 1.8 | |
| 159 | Surface fluorinated Ce-doped TiO ₂ nanostructure photocatalyst: A trap and remove strategy to enhance the VOC removal from indoor air environment. <i>Chemical Engineering Journal</i> , 2020 , 401, 125932 | 14.7 | 23 |
| 158 | The contribution of dry indoor built environment on the spread of Coronavirus: Data from various Indian states. <i>Sustainable Cities and Society</i> , 2020 , 62, 102371 | 10.1 | 33 |
| 157 | Performance of mechanical filters used in general ventilation against nanoparticles. <i>Science and Technology for the Built Environment</i> , 2020 , 26, 1387-1396 | 1.8 | 2 |
| 156 | Role of titanium dioxide (TiO ₂) structural design/morphology in photocatalytic air purification. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118735 | 21.8 | 51 |
| 155 | Performance analysis of an improved PCM-to-air heat exchanger for building envelope applications [An experimental study. <i>Solar Energy</i> , 2020 , 199, 704-720 | 6.8 | 13 |
| 154 | Computer modelling and experimental investigation of phase change hysteresis of PCMs: The state-of-the-art review. <i>Applied Energy</i> , 2020 , 263, 114572 | 10.7 | 33 |
| 153 | Modeling of gas-phase heterogeneous photocatalytic oxidation reactor in the presence of mass transfer limitation and axial dispersion. <i>Chemical Engineering Journal</i> , 2020 , 386, 124013 | 14.7 | 17 |
| 152 | Systematic approach to provide building occupants with feedback to reduce energy consumption. <i>Energy</i> , 2020 , 194, 116813 | 7.9 | 32 |
| 151 | Feasibility study on the year-round operation of PCM based free cooling systems in tropical climatic conditions. <i>Energy</i> , 2020 , 192, 116695 | 7.9 | 13 |
| 150 | Buried water-phase change material storage for load shifting: A parametric study. <i>Energy and Buildings</i> , 2020 , 227, 110428 | 7 | 1 |
| 149 | Parametric study to maximize the peak load shifting and thermal comfort in residential buildings located in cold climates. <i>Journal of Energy Storage</i> , 2020 , 30, 101560 | 7.8 | 4 |
| 148 | Melting and solidification performance in two horizontal shell-and-tube heat exchangers with different structures. <i>International Journal of Energy Research</i> , 2020 , 44, 11288-11301 | 4.5 | 2 |
| 147 | Fault detection and diagnosis of large-scale HVAC systems in buildings using data-driven methods: A comprehensive review. <i>Energy and Buildings</i> , 2020 , 229, 110492 | 7 | 68 |

| | | | |
|-----|---|------|----|
| 146 | A novel model based on multi-grained cascade forests with wavelet denoising for indoor occupancy estimation. <i>Building and Environment</i> , 2020 , 167, 106461 | 6.5 | 17 |
| 145 | Effect of surface fluorination of P25-TiO ₂ coated on nickel substrate for photocatalytic oxidation of methyl ethyl ketone in indoor environments. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103390 | 6.8 | 17 |
| 144 | Investigation of energy performance and operational schemes of a Tibet-focused PCM-integrated solar heating system employing a dynamic energy simulation model. <i>Energy</i> , 2019 , 172, 141-154 | 7.9 | 13 |
| 143 | Integration of electrically activated concrete slab for peak shifting in a light-weight residential building Determining key parameters. <i>Journal of Energy Storage</i> , 2019 , 23, 329-343 | 7.8 | 7 |
| 142 | Sonocatalytic removal of ampicillin by Zn(OH)F: Effect of operating parameters, toxicological evaluation and by-products identification. <i>Journal of Hazardous Materials</i> , 2019 , 375, 86-95 | 12.8 | 24 |
| 141 | Systematic variation of preparation time, temperature, and pressure in hydrothermal synthesis of macro-/mesoporous TiO ₂ for photocatalytic air treatment. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 378, 156-170 | 4.7 | 18 |
| 140 | Experimental investigation of multiple tube heat transfer enhancement in a vertical cylindrical latent heat thermal energy storage system. <i>Renewable Energy</i> , 2019 , 140, 234-244 | 8.1 | 24 |
| 139 | Modeling of volatile organic compounds degradation by photocatalytic oxidation reactor in indoor air: A review. <i>Building and Environment</i> , 2019 , 154, 309-323 | 6.5 | 40 |
| 138 | Photocatalytic oxidation of MEK over hierarchical TiO ₂ catalysts: Effect of photocatalyst features and operating conditions. <i>Applied Catalysis B: Environmental</i> , 2019 , 251, 1-16 | 21.8 | 28 |
| 137 | Hybrid solar and heat-driven district cooling system: Optimal integration and control strategy. <i>Solar Energy</i> , 2019 , 183, 260-275 | 6.8 | 21 |
| 136 | Optimization of a hybrid community district heating system integrated with thermal energy storage system. <i>Journal of Energy Storage</i> , 2019 , 23, 128-137 | 7.8 | 12 |
| 135 | Optimization of 4th generation distributed district heating system: Design and planning of combined heat and power. <i>Renewable Energy</i> , 2019 , 130, 371-387 | 8.1 | 52 |
| 134 | Filtration of nanoparticles applied in general ventilation. <i>Science and Technology for the Built Environment</i> , 2019 , 25, 114-127 | 1.8 | 10 |
| 133 | Procedure to measure the penetration of one mechanical filter for nanoparticles Validation by comparison. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 147, 106840 | 4.6 | 2 |
| 132 | Systematic data mining-based framework to discover potential energy waste patterns in residential buildings. <i>Energy and Buildings</i> , 2019 , 199, 562-578 | 7 | 19 |
| 131 | Development and improvement of occupant behavior models towards realistic building performance simulation: A review. <i>Sustainable Cities and Society</i> , 2019 , 50, 101685 | 10.1 | 37 |
| 130 | Simultaneous charging and discharging of phase change materials: Development of correlation for liquid fraction. <i>Solar Energy</i> , 2019 , 188, 788-798 | 6.8 | 13 |
| 129 | Experimental and numerical investigation on dodecane/expanded graphite shape-stabilized phase change material for cold energy storage. <i>Energy</i> , 2019 , 189, 116175 | 7.9 | 28 |

| | | | |
|-----|---|------|----|
| 128 | Development of PCM-to-air heat exchanger for integration in building envelope modeling and validation. <i>Solar Energy</i> , 2019 , 190, 367-385 | 6.8 | 8 |
| 127 | Urban heat island, urban climate maps and urban development policies and action plans. <i>Environmental Technology and Innovation</i> , 2019 , 14, 100341 | 7 | 39 |
| 126 | Opportunities and challenges of PCM-to-air heat exchangers (PAHXs) for building free cooling applications: A comprehensive review. <i>Journal of Energy Storage</i> , 2019 , 22, 157-175 | 7.8 | 49 |
| 125 | Performance of surface fluorinated P25-TiO ₂ on the photocatalytic degradation of volatile organic compounds in indoor environment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 609, 042057 | 0.4 | |
| 124 | Influence of PCM thermal conductivity and HTF velocity during solidification of PCM through the free cooling concept: A parametric study. <i>Journal of Energy Storage</i> , 2019 , 21, 48-57 | 7.8 | 20 |
| 123 | Performance of various commercial TiO ₂ in photocatalytic degradation of a mixture of indoor air pollutants: Effect of photocatalyst and operating parameters. <i>Science and Technology for the Built Environment</i> , 2019 , 25, 600-614 | 1.8 | 17 |
| 122 | Development of a ranking procedure for energy performance evaluation of buildings based on occupant behavior. <i>Energy and Buildings</i> , 2019 , 183, 659-671 | 7 | 25 |
| 121 | Hydrothermal/solvothermal synthesis and treatment of TiO for photocatalytic degradation of air pollutants: Preparation, characterization, properties, and performance. <i>Chemosphere</i> , 2019 , 219, 804-825 | 8.4 | 51 |
| 120 | Photocatalytic oxidation of volatile organic compounds for indoor environment applications: Three different scaled setups. <i>Chemical Engineering Journal</i> , 2019 , 357, 533-546 | 14.7 | 38 |
| 119 | Magnetic fluorinated mesoporous g-C ₃ N ₄ for photocatalytic degradation of amoxicillin: Transformation mechanism and toxicity assessment. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 337-348 | 21.8 | 73 |
| 118 | Effect of surface fluorination of P25-TiO ₂ on adsorption of indoor environment volatile organic compounds. <i>Chemical Engineering Journal</i> , 2018 , 346, 578-589 | 14.7 | 36 |
| 117 | Integrated oxidation process and biological treatment for highly concentrated petrochemical effluents: A review. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018 , 125, 183-196 | 3.7 | 41 |
| 116 | Enhanced photocatalytic degradation of sulfamethoxazole by zinc oxide photocatalyst in the presence of fluoride ions: Optimization of parameters and toxicological evaluation. <i>Water Research</i> , 2018 , 132, 241-251 | 12.5 | 70 |
| 115 | Energy storage key performance indicators for building application. <i>Sustainable Cities and Society</i> , 2018 , 40, 54-65 | 10.1 | 30 |
| 114 | Validation of a community district energy system model using field measured data. <i>Energy</i> , 2018 , 144, 694-706 | 7.9 | 5 |
| 113 | Gas phase adsorption of volatile organic compounds onto titanium dioxide photocatalysts. <i>Chemical Engineering Journal</i> , 2018 , 337, 60-73 | 14.7 | 50 |
| 112 | Hierarchical magnetic petal-like FeO-ZnO@g-CN for removal of sulfamethoxazole, suppression of photocorrosion, by-products identification and toxicity assessment. <i>Chemosphere</i> , 2018 , 205, 463-474 | 8.4 | 29 |
| 111 | Photocatalytic degradation of VOCs on various commercial titanium dioxides: Impact of operating parameters on removal efficiency and by-products generation. <i>Building and Environment</i> , 2018 , 138, 275-282 | 6.5 | 49 |

| | | | |
|-----|--|------|-----|
| 110 | Airborne nanoparticles filtration performance of fibrous media: A review. <i>Science and Technology for the Built Environment</i> , 2018 , 24, 648-672 | 1.8 | 12 |
| 109 | TiO ₂ photocatalyst for removal of volatile organic compounds in gas phase [A review]. <i>Chemical Engineering Journal</i> , 2018 , 334, 2408-2439 | 14.7 | 483 |
| 108 | Enhancement in peak shifting and shaving potential of electrically heated floor residential buildings using heat extraction system. <i>Journal of Energy Storage</i> , 2018 , 18, 435-446 | 7.8 | 7 |
| 107 | Photocatalytic degradation of sulfamethoxazole by hierarchical magnetic ZnO@g-CN: RSM optimization, kinetic study, reaction pathway and toxicity evaluation. <i>Journal of Hazardous Materials</i> , 2018 , 359, 516-526 | 12.8 | 82 |
| 106 | Development of building energy saving advisory: A data mining approach. <i>Energy and Buildings</i> , 2018 , 172, 139-151 | 7 | 49 |
| 105 | A review on macro-encapsulated phase change material for building envelope applications. <i>Building and Environment</i> , 2018 , 144, 281-294 | 6.5 | 117 |
| 104 | Predicting Fibrous Filter Efficiency by Two Methods: Artificial Neural Network (ANN) and Integration of Genetic Algorithm and Artificial Neural Network (GAINN). <i>Aerosol Science and Engineering</i> , 2018 , 2, 197-205 | 1.6 | 2 |
| 103 | Modeling of by-products from photocatalytic oxidation (PCO) indoor air purifiers: A case study of ethanol. <i>Building and Environment</i> , 2018 , 144, 427-436 | 6.5 | 15 |
| 102 | Control of electrically heated floor for building load management: A simplified self-learning predictive control approach. <i>Energy and Buildings</i> , 2018 , 172, 442-458 | 7 | 11 |
| 101 | Integration of distributed energy storage into net-zero energy district systems: Optimum design and operation. <i>Energy</i> , 2018 , 153, 575-591 | 7.9 | 67 |
| 100 | Numerical investigation of a triplex tube heat exchanger with phase change material: Simultaneous charging and discharging. <i>Energy and Buildings</i> , 2017 , 139, 426-438 | 7 | 48 |
| 99 | Optimization approaches in district heating and cooling thermal network. <i>Energy and Buildings</i> , 2017 , 140, 121-130 | 7 | 104 |
| 98 | Removal of pharmaceuticals from water by homo/heterogeneous Fenton-type processes - A review. <i>Chemosphere</i> , 2017 , 174, 665-688 | 8.4 | 325 |
| 97 | Metal organic frameworks for gas-phase VOCs removal in a NTP-catalytic reactor. <i>Chemical Engineering Journal</i> , 2017 , 320, 308-318 | 14.7 | 42 |
| 96 | Simplified model to predict the thermal demand profile of districts. <i>Energy and Buildings</i> , 2017 , 145, 213-225 | 7 | 19 |
| 95 | Abilities and limitations of thermal mass activation for thermal comfort, peak shifting and shaving: A review. <i>Building and Environment</i> , 2017 , 118, 113-127 | 6.5 | 35 |
| 94 | Heat transfer enhancement of phase change materials by fins under simultaneous charging and discharging. <i>Energy Conversion and Management</i> , 2017 , 152, 136-156 | 10.6 | 76 |
| 93 | Natural convection characterization during melting of phase change materials: Development of a simplified front tracking method. <i>Solar Energy</i> , 2017 , 158, 711-720 | 6.8 | 22 |

| | | | |
|----|--|------|-----|
| 92 | Enhanced adsorption of anionic dyes by surface fluorination of zinc oxide: A straightforward method for numerical solving of the ideal adsorbed solution theory (IAST). <i>Chemical Engineering Journal</i> , 2017 , 330, 407-418 | 14.7 | 24 |
| 91 | Predictive control strategies based on weather forecast in buildings with energy storage system: A review of the state-of-the art. <i>Energy and Buildings</i> , 2017 , 153, 485-500 | 7 | 99 |
| 90 | Experimental and numerical characterization of natural convection in a vertical shell-and-tube latent thermal energy storage system. <i>Sustainable Cities and Society</i> , 2017 , 35, 13-24 | 10.1 | 50 |
| 89 | Investigation of the effect of geometric and operating parameters on thermal behavior of vertical shell-and-tube latent heat energy storage systems. <i>Energy</i> , 2017 , 137, 69-82 | 7.9 | 72 |
| 88 | Photocatalytic oxidation technology for indoor environment air purification: The state-of-the-art. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 247-269 | 21.8 | 396 |
| 87 | A comparative study on metal organic frameworks for indoor environment application: Adsorption evaluation. <i>Chemical Engineering Journal</i> , 2017 , 313, 711-723 | 14.7 | 55 |
| 86 | Mechanochemical Synthesis of CPM-5: A Green Method. <i>Chemical Engineering and Technology</i> , 2017 , 40, 88-93 | 2 | 11 |
| 85 | Removal of pharmaceuticals and endocrine disrupting compounds from water by zinc oxide-based photocatalytic degradation: A review. <i>Sustainable Cities and Society</i> , 2016 , 27, 407-418 | 10.1 | 122 |
| 84 | Deactivation and ultraviolet C-induced regeneration of photocatalytic oxidation air filters. <i>Science and Technology for the Built Environment</i> , 2016 , 22, 576-585 | 1.8 | 8 |
| 83 | Advances and challenges in building engineering and data mining applications for energy-efficient communities. <i>Sustainable Cities and Society</i> , 2016 , 25, 33-38 | 10.1 | 75 |
| 82 | A Review of District Heating Systems: Modeling and Optimization. <i>Frontiers in Built Environment</i> , 2016 , 2, | 2.2 | 38 |
| 81 | Wastewater Treatment and Reclamation: A Review of Pulp and Paper Industry Practices and Opportunities. <i>BioResources</i> , 2016 , 11, 7953-8091 | 1.3 | 104 |
| 80 | Thermal Energy Storage for Building Load Management: Application to Electrically Heated Floor. <i>Applied Sciences (Switzerland)</i> , 2016 , 6, 194 | 2.6 | 12 |
| 79 | Integration of storage and renewable energy into district heating systems: A review of modelling and optimization. <i>Solar Energy</i> , 2016 , 136, 49-64 | 6.8 | 131 |
| 78 | Impact of design parameters on the performance of non-thermal plasma air purification system. <i>Chemical Engineering Journal</i> , 2016 , 302, 204-212 | 14.7 | 45 |
| 77 | Photocatalytic air cleaners and materials technologies [Abilities and limitations. <i>Building and Environment</i> , 2015 , 91, 191-203 | 6.5 | 157 |
| 76 | Expanding Heisler chart to characterize heat transfer phenomena in a building envelope integrated with phase change materials. <i>Energy and Buildings</i> , 2015 , 106, 164-174 | 7 | 24 |
| 75 | Integration of PCM in domestic hot water tanks: Optimization for shifting peak demand. <i>Energy and Buildings</i> , 2015 , 106, 59-64 | 7 | 59 |

| | | | |
|----|--|------|-----|
| 74 | Heat and cold storage using phase change materials in domestic refrigeration systems: The state-of-the-art review. <i>Energy and Buildings</i> , 2015 , 106, 111-124 | 7 | 93 |
| 73 | Evaluation of nano-titanium dioxide (TiO ₂) catalysts for ultraviolet photocatalytic oxidation air cleaning devices. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 1622-1629 | 6.8 | 20 |
| 72 | Wastewater treatment in the pulp-and-paper industry: A review of treatment processes and the associated greenhouse gas emission. <i>Journal of Environmental Management</i> , 2015 , 158, 146-57 | 7.9 | 171 |
| 71 | Urban neighborhood characteristics influence on a building indoor environment. <i>Sustainable Cities and Society</i> , 2015 , 19, 403-413 | 10.1 | 31 |
| 70 | Using physical-chemical properties of reactants to estimate the performance of photocatalytic oxidation air cleaners. <i>Building and Environment</i> , 2015 , 85, 114-122 | 6.5 | 19 |
| 69 | Evaluation of ultraviolet-photocatalytic oxidation of light alcohols at sub-parts per million concentrations. <i>Science and Technology for the Built Environment</i> , 2015 , 21, 160-171 | 1.8 | 11 |
| 68 | Investigating the Effect of Control Strategy on the Shift of Energy Consumption in a Building Integrated with PCM Wallboard. <i>Energy Procedia</i> , 2015 , 78, 2280-2285 | 2.3 | 12 |
| 67 | Evaluation of Gas-Phase Filter Performance for a Gas Mixture. <i>Clean - Soil, Air, Water</i> , 2015 , 43, 469-478 | 1.6 | 6 |
| 66 | Competitive Adsorption Behaviour of Binary Mixtures on Titanium Dioxide. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 1657-1666 | 2.3 | 8 |
| 65 | Particle loading time and humidity effects on the efficiency of an N95 filtering facepiece respirator model under constant and inhalation cyclic flows. <i>Annals of Occupational Hygiene</i> , 2015 , 59, 629-40 | | 18 |
| 64 | Control strategies for integration of thermal energy storage into buildings: State-of-the-art review. <i>Energy and Buildings</i> , 2015 , 106, 203-215 | 7 | 55 |
| 63 | Greenhouse Gas Emission and Energy Consumption in Wastewater Treatment Plants: Impact of Operating Parameters. <i>Clean - Soil, Air, Water</i> , 2014 , 42, 207-220 | 1.6 | 12 |
| 62 | Development and systematic validation of an adsorption filter model. <i>Building and Environment</i> , 2014 , 73, 64-74 | 6.5 | 6 |
| 61 | Assessing long-term performance of centralized thermal energy storage system. <i>Applied Thermal Engineering</i> , 2014 , 62, 313-321 | 5.8 | 43 |
| 60 | Thermal energy storage with phase change material: A state-of-the art review. <i>Sustainable Cities and Society</i> , 2014 , 10, 87-100 | 10.1 | 176 |
| 59 | Evaluation of N95 filtering facepiece respirator efficiency with cyclic and constant flows. <i>Journal of Occupational and Environmental Hygiene</i> , 2014 , 11, 499-508 | 2.9 | 17 |
| 58 | Phase change materials in hot water tank for shifting peak power demand. <i>Solar Energy</i> , 2014 , 107, 628-635 | 6.35 | 31 |
| 57 | Impact of phase change materials types and positioning on hot water tank thermal performance: Using measured water demand profile. <i>Applied Thermal Engineering</i> , 2014 , 67, 460-468 | 5.8 | 63 |

| | | | |
|----|--|------|----|
| 56 | Indoor thermal condition in urban heat island: Comparison of the artificial neural network and regression methods prediction. <i>Energy and Buildings</i> , 2014 , 76, 597-604 | 7 | 57 |
| 55 | Modeling of gas-phase filter model for high- and low-challenge gas concentrations. <i>Building and Environment</i> , 2014 , 80, 192-203 | 6.5 | 17 |
| 54 | Numerical analysis of a thermally enhanced domestic hot water tank. <i>Applied Energy</i> , 2014 , 129, 253-260 | 10.7 | 35 |
| 53 | Plasma-Based Indoor Air Cleaning Technologies: The State of the Art-Review. <i>Clean - Soil, Air, Water</i> , 2014 , 42, 1667-1680 | 1.6 | 52 |
| 52 | A bridge pier scour model with non-uniform sediments. <i>Water Management</i> , 2014 , 167, 499-511 | 1 | 5 |
| 51 | Photocatalytic oxidation air cleaner: Identification and quantification of by-products. <i>Building and Environment</i> , 2014 , 72, 34-43 | 6.5 | 53 |
| 50 | Designing building envelope with PCM wallboards: Design tool development. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 31, 554-562 | 16.2 | 50 |
| 49 | Gas-phase filters breakthrough models at low concentration [Effect of relative humidity. <i>Building and Environment</i> , 2014 , 75, 1-10 | 6.5 | 13 |
| 48 | Centralized latent heat thermal energy storage system: Model development and validation. <i>Energy and Buildings</i> , 2013 , 65, 260-271 | 7 | 22 |
| 47 | Application of dynamic models to estimate greenhouse gas emission by wastewater treatment plants of the pulp and paper industry. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 1858-69 | 5.1 | 18 |
| 46 | Performance of ultraviolet photocatalytic oxidation for indoor air applications: systematic experimental evaluation. <i>Journal of Hazardous Materials</i> , 2013 , 261, 130-8 | 12.8 | 71 |
| 45 | Predicting gas-phase air-cleaning system efficiency at low concentration using high concentration results: Development of a framework. <i>Building and Environment</i> , 2013 , 68, 12-21 | 6.5 | 15 |
| 44 | Greenhouse gas emission by wastewater treatment plants of the pulp and paper industry [Modeling and simulation. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 17, 462-472 | 4.2 | 27 |
| 43 | Impact of design parameters on the performance of ultraviolet photocatalytic oxidation air cleaner. <i>Building and Environment</i> , 2013 , 66, 148-157 | 6.5 | 35 |
| 42 | Ultraviolet photocatalytic oxidation for indoor environment applications: Experimental validation of the model. <i>Building and Environment</i> , 2013 , 62, 155-166 | 6.5 | 29 |
| 41 | Extracting knowledge from building-related data [A data mining framework. <i>Building Simulation</i> , 2013 , 6, 207-222 | 3.9 | 53 |
| 40 | A novel methodology for knowledge discovery through mining associations between building operational data. <i>Energy and Buildings</i> , 2012 , 47, 430-440 | 7 | 91 |
| 39 | Impact of two particle measurement techniques on the determination of N95 class respirator filtration performance against ultrafine particles. <i>Journal of Hazardous Materials</i> , 2012 , 217-218, 51-7 | 12.8 | 13 |

| | | | |
|----|--|------|-----|
| 38 | Modeling of phase change materials for applications in whole building simulation. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 5355-5362 | 16.2 | 47 |
| 37 | Adsorption performance of titanium dioxide (TiO ₂) coated air filters for volatile organic compounds. <i>Journal of Hazardous Materials</i> , 2012 , 243, 340-9 | 12.8 | 64 |
| 36 | A procedure to quantify the impact of mitigation techniques on the urban ventilation. <i>Building and Environment</i> , 2012 , 47, 410-420 | 6.5 | 42 |
| 35 | Contaminant source identification within a building: Toward design of immune buildings. <i>Building and Environment</i> , 2012 , 51, 320-329 | 6.5 | 42 |
| 34 | Indoor thermal condition in urban heat Island Development of a predictive tool. <i>Building and Environment</i> , 2012 , 57, 7-17 | 6.5 | 41 |
| 33 | Airflow and heat transfer in double skin facades. <i>Energy and Buildings</i> , 2011 , 43, 2760-2766 | 7 | 58 |
| 32 | A methodology for identifying and improving occupant behavior in residential buildings. <i>Energy</i> , 2011 , 36, 6596-6608 | 7.9 | 76 |
| 31 | Modeling and validation of a photocatalytic oxidation reactor for indoor environment applications. <i>Chemical Engineering Science</i> , 2011 , 66, 5945-5954 | 4.4 | 27 |
| 30 | Impact of non-uniform urban surface temperature on pollution dispersion in urban areas. <i>Building Simulation</i> , 2011 , 4, 227-244 | 3.9 | 23 |
| 29 | A systematic procedure to study the influence of occupant behavior on building energy consumption. <i>Energy and Buildings</i> , 2011 , 43, 1409-1417 | 7 | 371 |
| 28 | Pollution removal effectiveness of the pedestrian ventilation system. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2011 , 99, 46-58 | 3.7 | 32 |
| 27 | Performance of mechanical filters and respirators for capturing nanoparticles--limitations and future direction. <i>Industrial Health</i> , 2010 , 48, 296-304 | 2.5 | 43 |
| 26 | Approaches to study Urban Heat Island Abilities and limitations. <i>Building and Environment</i> , 2010 , 45, 2192-2201 | 6.5 | 396 |
| 25 | A decision tree method for building energy demand modeling. <i>Energy and Buildings</i> , 2010 , 42, 1637-1646 | | 337 |
| 24 | Assessing the performance of air cleaning devices A full-scale test method. <i>Building and Environment</i> , 2010 , 45, 143-149 | 6.5 | 35 |
| 23 | Multiobjective optimization of building design using TRNSYS simulations, genetic algorithm, and Artificial Neural Network. <i>Building and Environment</i> , 2010 , 45, 739-746 | 6.5 | 429 |
| 22 | A novel approach to enhance outdoor air quality: Pedestrian ventilation system. <i>Building and Environment</i> , 2010 , 45, 1582-1593 | 6.5 | 44 |
| 21 | Modeling and physical interpretation of photocatalytic oxidation efficiency in indoor air applications. <i>Building and Environment</i> , 2010 , 45, 2689-2697 | 6.5 | 52 |

| | | | |
|----|---|-----|-----|
| 20 | Development of Artificial Neural Network based heat convection algorithm for thermal simulation of large rectangular cross-sectional area Earth-to-Air Heat Exchangers. <i>Energy and Buildings</i> , 2010 , 42, 435-440 | 7 | 46 |
| 19 | A software framework for model predictive control with GenOpt. <i>Energy and Buildings</i> , 2010 , 42, 1084-1092 | | 79 |
| 18 | Energy performance assessment of double-skin façade with thermal mass. <i>Energy and Buildings</i> , 2010 , 42, 1499-1509 | 7 | 71 |
| 17 | An Experimental Study for Examining the Effects of Environmental Conditions on Diffusion Coefficient of VOCs in Building Materials. <i>Clean - Soil, Air, Water</i> , 2009 , 37, 436-443 | 1.6 | 21 |
| 16 | Optimization of ventilation system design and operation in office environment, Part I: Methodology. <i>Building and Environment</i> , 2009 , 44, 651-656 | 6.5 | 86 |
| 15 | Optimization of ventilation systems in office environment, Part II: Results and discussions. <i>Building and Environment</i> , 2009 , 44, 657-665 | 6.5 | 39 |
| 14 | Simple model and control strategy of earth-to-air heat exchangers 2009 , | | 2 |
| 13 | Evaluation of various activated carbons for air cleaning [Towards design of immune and sustainable buildings. <i>Atmospheric Environment</i> , 2008 , 42, 8176-8184 | 5.3 | 62 |
| 12 | Modeling ventilated double skin façade: A zonal approach. <i>Energy and Buildings</i> , 2008 , 40, 1567-1576 | 7 | 87 |
| 11 | Modeling the combined conduction and air infiltration through diffusive building envelope. <i>Energy and Buildings</i> , 2007 , 39, 1140-1150 | 7 | 19 |
| 10 | Thermal Behaviour of the Diffusive Building Envelope: State-of-the-Art Review. <i>Advances in Building Energy Research</i> , 2007 , 1, 213-226 | 1.8 | 5 |
| 9 | Zonal Modeling For Simulating Indoor Environment of Buildings: Review, Recent Developments, and Applications. <i>HVAC and R Research</i> , 2007 , 13, 887-905 | | 86 |
| 8 | A Learning Machine Approach for Predicting Thermal Comfort Indices. <i>International Journal of Ventilation</i> , 2005 , 3, 363-376 | 1.1 | 17 |
| 7 | Building materials VOC emissions: a systematic parametric study. <i>Building and Environment</i> , 2003 , 38, 995-1005 | 6.5 | 23 |
| 6 | Modelling of volatile organic compounds emission from dry building materials. <i>Building and Environment</i> , 2002 , 37, 1127-1138 | 6.5 | 55 |
| 5 | Material emission rates: Literature review, and the impact of indoor air temperature and relative humidity. <i>Building and Environment</i> , 1998 , 33, 261-277 | 6.5 | 122 |
| 4 | A Comprehensive Validation of Two Airflow Models [COMIS and CONTAM. <i>Indoor Air</i> , 1996 , 6, 278-288 | 5.4 | 62 |
| 3 | Emissions of Indoor Pollutants from Building Materials: State of the Art Review. <i>Architectural Science Review</i> , 1993 , 36, 13-22 | 2.6 | 8 |

| | | | |
|---|---|-----|----|
| 2 | A CFD Analysis of Ventilation Effectiveness in a Partitioned Room. <i>Indoor Air</i> , 1991 , 1, 606-615 | 5.4 | 11 |
| 1 | Vacuum cleaner as a source of abiotic and biological air pollution in buildings: a review. <i>Advances in Building Energy Research</i> , 1-12 | 1.8 | 1 |