Fariborz Haghighat

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199
papers9,265
citations51
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ext. citations7.5
avg, IF7.3
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#	Paper	IF	Citations
199	TiO2 photocatalyst for removal of volatile organic compounds in gas phase IA review. <i>Chemical Engineering Journal</i> , 2018 , 334, 2408-2439	14.7	483
198	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
197	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
196	Approaches to study Urban Heat Island [Abilities and limitations. <i>Building and Environment</i> , 2010 , 45, 2192-2201	6.5	396
195	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
194	A decision tree method for building energy demand modeling. <i>Energy and Buildings</i> , 2010 , 42, 1637-16	467	337
193	Removal of pharmaceuticals from water by homo/heterogonous Fenton-type processes - A review. <i>Chemosphere</i> , 2017 , 174, 665-688	8.4	325
192	Thermal energy storage with phase change material state-of-the art review. Sustainable Cities and Society, 2014 , 10, 87-100	10.1	176
191	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
190	Photocatalytic air cleaners and materials technologies [Abilities and limitations. <i>Building and Environment</i> , 2015 , 91, 191-203	6.5	157
189	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
188	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
187	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
186	A review on macro-encapsulated phase change material for building envelope applications. <i>Building and Environment</i> , 2018 , 144, 281-294	6.5	117
185	Optimization approaches in district heating and cooling thermal network. <i>Energy and Buildings</i> , 2017 , 140, 121-130	7	104
184	Wastewater Treatment and Reclamation: A Review of Pulp and Paper Industry Practices and Opportunities. <i>BioResources</i> , 2016 , 11, 7953-8091	1.3	104
183	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

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182	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
181	A novel methodology for knowledge discovery through mining associations between building operational data. <i>Energy and Buildings</i> , 2012 , 47, 430-440	7	91
180	Modeling ventilated double skin falldel zonal approach. Energy and Buildings, 2008, 40, 1567-1576	7	87
179	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
178	Zonal Modeling for Simulating Indoor Environment of Buildings: Review, Recent Developments, and Applications. <i>HVAC and R Research</i> , 2007 , 13, 887-905		86
177	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
176	A software framework for model predictive control with GenOpt. <i>Energy and Buildings</i> , 2010 , 42, 1084-1	1 9 92	79
175	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
174	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
173	A methodology for identifying and improving occupant behavior in residential buildings. <i>Energy</i> , 2011 , 36, 6596-6608	7.9	76
172	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
171	Magnetic fluorinated mesoporous g-C3N4 for photocatalytic degradation of amoxicillin: Transformation mechanism and toxicity assessment. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 337-	3 ² 48 ⁸	73
170	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
169	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
168	Energy performance assessment of double-skin fallde with thermal mass. <i>Energy and Buildings</i> , 2010 , 42, 1499-1509	7	71
167	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
166	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
165	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

164	Adsorption performance of titanium dioxide (TiO2) coated air filters for volatile organic compounds. <i>Journal of Hazardous Materials</i> , 2012 , 243, 340-9	12.8	64
163	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
162	Evaluation of various activated carbons for air cleaning Dowards design of immune and sustainable buildings. <i>Atmospheric Environment</i> , 2008 , 42, 8176-8184	5.3	62
161	A Comprehensive Validation of Two Airflow Models [COMIS and CONTAM. <i>Indoor Air</i> , 1996 , 6, 278-288	5.4	62
160	Integration of PCM in domestic hot water tanks: Optimization for shifting peak demand. <i>Energy and Buildings</i> , 2015 , 106, 59-64	7	59
159	Airflow and heat transfer in double skin facades. <i>Energy and Buildings</i> , 2011 , 43, 2760-2766	7	58
158	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
157	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
156	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
155	Modelling of volatile organic compounds emission from dry building materials. <i>Building and Environment</i> , 2002 , 37, 1127-1138	6.5	55
154	Photocatalytic oxidation air cleaner: Identification and quantification of by-products. <i>Building and Environment</i> , 2014 , 72, 34-43	6.5	53
153	Extracting knowledge from building-related data IA data mining framework. <i>Building Simulation</i> , 2013 , 6, 207-222	3.9	53
152	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
151	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
150	Modeling and physical interpretation of photocatalytic oxidation efficiency in indoor air applications. <i>Building and Environment</i> , 2010 , 45, 2689-2697	6.5	52
149	Role of titanium dioxide (TiO2) structural design/morphology in photocatalytic air purification. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118735	21.8	51
148	Hydrothermal/solvothermal synthesis and treatment of TiO for photocatalytic degradation of air pollutants: Preparation, characterization, properties, and performance. <i>Chemosphere</i> , 2019 , 219, 804-82	28.4	51
147	Gas phase adsorption of volatile organic compounds onto titanium dioxide photocatalysts. Chemical Engineering Journal, 2018, 337, 60-73	14.7	50

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146	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
145	Designing building envelope with PCM wallboards: Design tool development. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 31, 554-562	16.2	50
144	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	5-2 8 2	49
143	Development of building energy saving advisory: A data mining approach. <i>Energy and Buildings</i> , 2018 , 172, 139-151	7	49
142	Opportunities and challenges of PCM-to-air heat exchangers (PAHXs) for building free cooling applications accomprehensive review. <i>Journal of Energy Storage</i> , 2019 , 22, 157-175	7.8	49
141	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
140	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
139	Occupant-density-detection based energy efficient ventilation system: Prevention of infection transmission. <i>Energy and Buildings</i> , 2021 , 240, 110883	7	47
138	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
137	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
136	A novel approach to enhance outdoor air quality: Pedestrian ventilation system. <i>Building and Environment</i> , 2010 , 45, 1582-1593	6.5	44
135	Assessing long-term performance of centralized thermal energy storage system. <i>Applied Thermal Engineering</i> , 2014 , 62, 313-321	5.8	43
134	Performance of mechanical filters and respirators for capturing nanoparticleslimitations and future direction. <i>Industrial Health</i> , 2010 , 48, 296-304	2.5	43
133	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
132	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
131	Contaminant source identification within a building: Toward design of immune buildings. <i>Building and Environment</i> , 2012 , 51, 320-329	6.5	42
130	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
129	Indoor thermal condition in urban heat Island Development of a predictive tool. <i>Building and Environment</i> , 2012 , 57, 7-17	6.5	41

128	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
127	Optimization of ventilation systems in office environment, Part II: Results and discussions. <i>Building and Environment</i> , 2009 , 44, 657-665	6.5	39
126	Urban heat island, urban climate maps and urban development policies and action plans. <i>Environmental Technology and Innovation</i> , 2019 , 14, 100341	7	39
125	A Review of District Heating Systems: Modeling and Optimization. <i>Frontiers in Built Environment</i> , 2016 , 2,	2.2	38
124	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
123	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
122	Effect of surface fluorination of P25-TiO2 on adsorption of indoor environment volatile organic compounds. <i>Chemical Engineering Journal</i> , 2018 , 346, 578-589	14.7	36
121	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
120	Numerical analysis of a thermally enhanced domestic hot water tank. <i>Applied Energy</i> , 2014 , 129, 253-260	010.7	35
119	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
118	Assessing the performance of air cleaning devices A full-scale test method. <i>Building and Environment</i> , 2010 , 45, 143-149	6.5	35
117	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
116	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
115	Pollution removal effectiveness of the pedestrian ventilation system. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2011 , 99, 46-58	3.7	32
114	Systematic approach to provide building occupants with feedback to reduce energy consumption. <i>Energy</i> , 2020 , 194, 116813	7.9	32
113	Urban neighborhood characteristics influence on a building indoor environment. <i>Sustainable Cities and Society</i> , 2015 , 19, 403-413	10.1	31
112	Phase change materials in hot water tank for shifting peak power demand. Solar Energy, 2014, 107, 628-	-6355	31
111	Energy storage key performance indicators for building application. <i>Sustainable Cities and Society</i> , 2018 , 40, 54-65	10.1	30

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110	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	
109	Ultraviolet photocatalytic oxidation for indoor environment applications: Experimental validation of the model. <i>Building and Environment</i> , 2013 , 62, 155-166	6.5	29	
108	Occupancy-based HVAC control systems in buildings: A state-of-the-art review. <i>Building and Environment</i> , 2021 , 197, 107810	6.5	29	
107	Photocatalytic oxidation of MEK over hierarchical TiO2 catalysts: Effect of photocatalyst features and operating conditions. <i>Applied Catalysis B: Environmental</i> , 2019 , 251, 1-16	21.8	28	
106	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	
105	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	
104	Modeling and validation of a photocatalytic oxidation reactor for indoor environment applications. <i>Chemical Engineering Science</i> , 2011 , 66, 5945-5954	4.4	27	
103	Mitigating COVID-19 infection disease transmission in indoor environment using physical barriers. <i>Sustainable Cities and Society</i> , 2021 , 74, 103175	10.1	27	
102	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	
101	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	
100	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	
99	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	
98	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	
97	Surface fluorinated Ce-doped TiO2 nanostructure photocatalyst: A trap and remove strategy to enhance the VOC removal from indoor air environment. <i>Chemical Engineering Journal</i> , 2020 , 401, 12593	32 ^{14.7}	23	
96	Impact of non-uniform urban surface temperature on pollution dispersion in urban areas. <i>Building Simulation</i> , 2011 , 4, 227-244	3.9	23	
95	Building materials VOC emissions systematic parametric study. <i>Building and Environment</i> , 2003 , 38, 995-1005	6.5	23	
94	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	
93	Centralized latent heat thermal energy storage system: Model development and validation. <i>Energy and Buildings</i> , 2013 , 65, 260-271	7	22	

92	Hybrid solar and heat-driven district cooling system: Optimal integration and control strategy. <i>Solar Energy</i> , 2019 , 183, 260-275	6.8	21
91	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
90	Active ozone removal technologies for a safe indoor environment: A comprehensive review. <i>Building and Environment</i> , 2021 , 187, 107370	6.5	21
89	Evaluation of nano-titanium dioxide (TiO2) catalysts for ultraviolet photocatalytic oxidation air cleaning devices. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 1622-1629	6.8	20
88	Influence of PCM thermal conductivity and HTF velocity during solidification of PCM through the free cooling concept 🖟 parametric study. <i>Journal of Energy Storage</i> , 2019 , 21, 48-57	7.8	20
87	Simplified model to predict the thermal demand profile of districts. <i>Energy and Buildings</i> , 2017 , 145, 21	3 -/ 225	19
86	Using physicalEhemical properties of reactants to estimate the performance of photocatalytic oxidation air cleaners. <i>Building and Environment</i> , 2015 , 85, 114-122	6.5	19
85	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
84	Modeling the combined conduction Air infiltration through diffusive building envelope. <i>Energy and Buildings</i> , 2007 , 39, 1140-1150	7	19
83	Systematic variation of preparation time, temperature, and pressure in hydrothermal synthesis of macro-/mesoporous TiO2 for photocatalytic air treatment. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 378, 156-170	4.7	18
82	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
81	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
80	Removal of SARS-CoV-2 using UV+Filter in built environment. <i>Sustainable Cities and Society</i> , 2021 , 74, 103226	10.1	18
79	Effect of surface fluorination of P25-TiO2 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
78	Carbon-doped TiO2 film to enhance visible and UV light photocatalytic degradation of indoor environment volatile organic compounds. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 1041	62 .8	17
77	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
76	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
75	A Learning Machine Approach for Predicting Thermal Comfort Indices. <i>International Journal of Ventilation</i> , 2005 , 3, 363-376	1.1	17

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74	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
73	Performance of various commercial TiO2 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
72	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
71	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
70	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
69	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
68	Data driven occupancy information for energy simulation and energy use assessment in residential buildings. <i>Energy</i> , 2021 , 218, 119539	7.9	14
67	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
66	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
65	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
64	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
63	Gas-phase filters breakthrough models at low concentration Œffect of relative humidity. <i>Building and Environment</i> , 2014 , 75, 1-10	6.5	13
62	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
61	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
60	Indoor airborne disinfection with electrostatic disinfector (ESD): Numerical simulations of ESD performance and reduction of computing time. <i>Building and Environment</i> , 2021 , 200, 107956	6.5	13
59	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
58	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
57	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

56	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
55	Thermal Energy Storage for Building Load Management: Application to Electrically Heated Floor. <i>Applied Sciences (Switzerland)</i> , 2016 , 6, 194	2.6	12
54	Anatase/brookite biphasic surface fluorinated FelliO2 photocatalysts to enhance photocatalytic removal of VOCs under visible and UV light. <i>Journal of Cleaner Production</i> , 2021 , 287, 125462	10.3	12
53	Mechanochemical Synthesis of CPM-5: A Green Method. <i>Chemical Engineering and Technology</i> , 2017 , 40, 88-93	2	11
52	Evaluation of ultravioletphotocatalytic 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
51	A CFD Analysis of Ventilation Effectiveness in a Partitioned Room. <i>Indoor Air</i> , 1991 , 1, 606-615	5.4	11
50	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
49	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
48	Filtration of nanoparticles applied in general ventilation. <i>Science and Technology for the Built Environment</i> , 2019 , 25, 114-127	1.8	10
47	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
46	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
45	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
44	Development of PCM-to-air heat exchanger for integration in building envelopethodeling and validation. <i>Solar Energy</i> , 2019 , 190, 367-385	6.8	8
43	Competitive Adsorption Behaviour of Binary Mixtures on Titanium Dioxide. <i>Canadian Journal of Chemical Engineering</i> , 2015 , 93, 1657-1666	2.3	8
42	Emissions of Indoor Pollutants from Building Materials Btate of the Art Review. <i>Architectural Science Review</i> , 1993 , 36, 13-22	2.6	8
41	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
40	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
39	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

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38	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
37	Development and systematic validation of an adsorption filter model. <i>Building and Environment</i> , 2014 , 73, 64-74	6.5	6
36	Evaluation of Gas-Phase Filter Performance for a Gas Mixture. Clean - Soil, Air, Water, 2015, 43, 469-478	1.6	6
35	Extracting energy-related knowledge from mining occupants Dehavioral data in residential buildings. <i>Journal of Building Engineering</i> , 2021 , 39, 102319	5.2	6
34	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
33	Occupancy and occupant activity drivers of energy consumption in residential buildings. <i>Energy and Buildings</i> , 2021 , 250, 111303	7	6
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