Nesreen Ghaddar

List of Publications by Year in Descending Order

155 papers	2,891 citations	28 h-index	46 g-index
165 ext. papers	3,356 ext. citations	5.2 avg, IF	5.67 L-index

#	Paper	IF	Citations
155	Novel personalized chair-ventilation design integrated with displacement ventilation for cross-contamination mitigation in classrooms. *Building and Environment*, **2022**, 213, 108885	6.5	4
154	Ten questions concerning the paradox of minimizing airborne transmission of infectious aerosols in densely occupied spaces via sustainable ventilation and other strategies in hot and humid climates.. *Building and Environment*, **2022**, 214, 108901	6.5	0
153	Life cycle assessment of desiccant Dew point evaporative cooling systems with water reclamation for poultry houses in hot and humid climate. *Applied Thermal Engineering*, **2022**, 210, 118419	5.8	1
152	Diurnal Selective Radiative Cooling Impact in Mitigating Urban Heat Island Effect. *Sustainable Cities and Society*, **2022**, 83, 103932	10.1	0
151	Effective mitigation of cross-contamination in classroom conditioned by intermittent air jet cooling with use of portable air cleaners. *Building and Environment*, **2022**, 219, 109220	6.5	0
150	Feasibility of MOF-based carbon capture from indoor spaces as air revitalization system. *Energy and Buildings*, **2021**, 111666	7	2
149	A sustainable localised air distribution system for enhancing thermal environment and indoor air quality of poultry house for semiarid region. *Biosystems Engineering*, **2021**, 203, 70-92	4.8	7
148	Model-based adaptive controller for personalized ventilation and thermal comfort in naturally ventilated spaces. *Building Simulation*, **2021**, 14, 1757-1771	3.9	4
147	Evaluation of different personalized ventilation air terminal devices: Inhalation vs. clothing-mediated exposures. *Building and Environment*, **2021**, 192, 107637	6.5	8
146	Integrated solar Windcatcher with dew-point indirect evaporative cooler for classrooms. *Applied Thermal Engineering*, **2021**, 188, 116654	5.8	7
145	Effect of individually controlled personalized ventilation on cross-contamination due to respiratory activities. *Building and Environment*, **2021**, 194, 107719	6.5	15
144	Hybrid cooling system integrating PCM-desiccant dehumidification and personal evaporative cooling for hot and humid climates. *Journal of Building Engineering*, **2021**, 33, 101580	5.2	11
143	Model-based multivariable regression model for thermal comfort in naturally ventilated spaces with personalized ventilation. *Journal of Building Performance Simulation*, **2021**, 14, 78-93	2.8	4
142	Effect of Phase Change Material Cooling Vests on Body Thermoregulation and Thermal Comfort of Patients With Paraplegia: A Human Subject Experimental Study. *Global Spine Journal*, **2021**, 21925682211049167	2.7	
141	Comparative analysis of sustainable desiccant Evaporative based ventilation systems for a typical Qatari poultry house. *Energy Conversion and Management*, **2021**, 245, 114556	10.6	4
140	The effectiveness of evaporative cooling vest with ventilation fans on the thermal state of persons with paraplegia during exercise. *Building and Environment*, **2021**, 206, 108356	6.5	2
139	Electrospun nanofibrous polyvinylidene fluoride-co-hexafluoropropylene membranes for oilwater separation. *Journal of Applied Polymer Science*, **2020**, 137, 49394	2.9	9

138	Hybrid mixed ventilation system aided with personalised ventilation to attain comfort and save energy. *International Journal of Sustainable Energy*, **2020**, 39, 964-981	2.7	4
137	Modeling of indoor particulate matter deposition to occupant typical wrinkled shirt surface. *Building and Environment*, **2020**, 179, 106965	6.5	3
136	Development of heat stress charts for older people under indoor environmental conditions. *Energy and Buildings*, **2020**, 224, 110274	7	7
135	Experimental study on the effectiveness of the PCM cooling vest in persons with paraplegia of varying levels. *Journal of Thermal Biology*, **2020**, 91, 102634	2.9	3
134	Bioheat modeling of elderly and young for prediction of physiological and thermal responses in heat-stressful conditions. *Journal of Thermal Biology*, **2020**, 88, 102533	2.9	9
133	The effect of human breathing on the effectiveness of intermittent personalized ventilation coupled with mixing ventilation. *Building and Environment*, **2020**, 174, 106755	6.5	16
132	Modified upright cup method for testing water vapor permeability in porous membranes. *Energy*, **2020**, 195, 117057	7.9	6
131	A metamodel for long-term thermal comfort in non-air-conditioned buildings. *Architectural Engineering and Design Management*, **2020**, 16, 441-472	1.2	1
130	Daytime radiative cooling: To what extent it enhances office cooling system performance in comparison to night cooling in semi-arid climate?. *Journal of Building Engineering*, **2020**, 28, 101020	5.2	8
129	Coupled CFD and particle resuspension models under combined effect of mechanical and aerodynamic disturbances. *Building and Environment*, **2020**, 169, 106567	6.5	6
128	Sustainable cooling system for Kuwait hot climate combining diurnal radiative cooling and indirect evaporative cooling system. *Energy*, **2020**, 213, 119045	7.9	16
127	Solar-assisted desiccant dehumidification system to improve performance of evaporatively cooled window in hot and -humid climates. *Applied Thermal Engineering*, **2020**, 179, 115726	5.8	2
126	Cascaded liquid desiccant system for humidity control in space conditioned by cooled membrane ceiling and displacement ventilation. *Energy Conversion and Management*, **2019**, 195, 1212-1226	10.6	8
125	Would personal cooling vest be effective for use during exercise by people with thoracic spinal cord injury?. *Journal of Thermal Biology*, **2019**, 82, 123-141	2.9	1
124	Comparison of removal effectiveness of mixed versus displacement ventilation during vacuuming session. *Building and Environment*, **2019**, 155, 118-126	6.5	7
123	A novel M-cycle evaporative cooling vest for enhanced comfort of active human in hot environment. *International Journal of Thermal Sciences*, **2019**, 142, 1-13	4.1	7
122	Influence of mixed and displacement air distribution systems' design on concentrations of micro-particles emitted from floor or generated by breathing. *Journal of Building Engineering*, **2019**, 26, 100855	5.2	6
121	Effect of flow disturbance induced by walking on the performance of personalized ventilation coupled with mixing ventilation. *Building and Environment*, **2019**, 160, 106217	6.5	15

120	Influence of cervical spinal cord injury on thermoregulatory and cardiovascular responses in the human body: Literature review. *Journal of Clinical Neuroscience*, **2019**, 69, 7-14	2.2	8
119	Evaluating performance of hybrid PCM-fan and hybrid PCM-desiccant vests in moderate and hot climates. *Journal of Building Engineering*, **2019**, 22, 383-396	5.2	10
118	Particles dispersion due to human prostration cycle and ventilation system in a prayer room. *Building and Environment*, **2019**, 150, 44-59	6.5	9
117	A Clothing Ventilation and Heat Loss Electric Circuit Model with Natural Convection for a Clothed Swinging Arm of a Walking Human. *Heat Transfer Engineering*, **2019**, 40, 330-345	1.7	3
116	Simplified model for thermal comfort, IAQ and energy savings in rooms conditioned by displacement ventilation aided with transient personalized ventilation. *Energy Conversion and Management*, **2018**, 162, 203-217	10.6	18
115	Determination of segmental and overall ventilation of clothed walking human by means of electric circuit analogy. *Textile Reseach Journal*, **2018**, 88, 586-601	1.7	3
114	An optimal two-bout strategy with phase change material cooling vests to improve comfort in hot environment. *Journal of Thermal Biology*, **2018**, 72, 10-25	2.9	16
113	Effectiveness of contaminant confinement in office spaces equipped with ceiling personalized ventilation system. *Building Simulation*, **2018**, 11, 773-786	3.9	12
112	Modeling of Heat and Moisture Transfer in Porous Textile Medium Subject to External Wind: Improving Clothing Design **2018**, 885-916		
111	Electric circuit analogy of heat losses of clothed walking human body in windy environment. *International Journal of Thermal Sciences*, **2018**, 127, 105-116	4.1	9
110	Effectiveness of intermittent personalized ventilation assisting a chilled ceiling for enhanced thermal comfort and acceptable indoor air quality. *Building and Environment*, **2018**, 144, 9-22	6.5	32
109	Humidity control of liquid desiccant membrane ceiling and displacement ventilation system. *Applied Thermal Engineering*, **2018**, 144, 1-12	5.8	9
108	Effectiveness of intermittent personalized ventilation in protecting occupant from indoor particles. *Building and Environment*, **2018**, 128, 22-32	6.5	35
107	Mixed-mode ventilation and air conditioning as alternative for energy savings: a case study in Beirut current and future climate. *Energy Efficiency*, **2018**, 11, 13-30	3	18
106	Electrospun waterproof breathable membrane with a high level of aerosol filtration. *Journal of Applied Polymer Science*, **2018**, 135, 45660	2.9	15
105	Comprehensive model of upper human body clothing ventilation in standing and walking conditions. *Journal of Engineered Fibers and Fabrics*, **2018**, 13, 155892501882072	0.9	
104	Significance of PCM arrangement in cooling vest for enhancing comfort at varied working periods and climates: Modeling and experimentation. *Applied Thermal Engineering*, **2018**, 145, 772-790	5.8	6
103	An altered Bioheat model for persons with cervical spinal cord injury. *Journal of Thermal Biology*, **2018**, 77, 96-110	2.9	5

102	Performance of hybrid PCM-Fan vest with deferred fan operation in transient heat flows from active human in hot dry environment. *Building and Environment*, **2018**, 144, 334-348	6.5	5
101	Improving local ventilation prediction by accounting for inter-segmental ventilation. *Textile Reseach Journal*, **2017**, 87, 511-527	1.7	3
100	Cooling vest with optimized PCM arrangement targeting torso sensitive areas that trigger comfort when cooled for improving human comfort in hot conditions. *Energy and Buildings*, **2017**, 139, 417-425	7	18
99	Evaporatively-cooled window driven by solar chimney to improve energy efficiency and thermal comfort in dry desert climate. *Energy and Buildings*, **2017**, 139, 755-761	7	22
98	Experimental and numerical study of back-cooling car-seat system using embedded heat pipes to improve passengers comfort. *Energy Conversion and Management*, **2017**, 144, 123-131	10.6	8
97	Innovative PCM-desiccant packet to provide dry microclimate and improve performance of cooling vest in hot environment. *Energy Conversion and Management*, **2017**, 140, 218-227	10.6	16
96	Mixing ventilation coupled with personalized sinusoidal ventilation: Optimal frequency and flow rate for acceptable air quality. *Energy and Buildings*, **2017**, 154, 569-580	7	41
95	Experimental study on using PCMs of different melting temperatures in one cooling vest to reduce its weight and improve comfort. *Energy and Buildings*, **2017**, 155, 533-545	7	16
94	Impact of integrating desiccant dehumidification processes to conventional AC system on urban microclimate and energy use in Beirut city. *Energy Conversion and Management*, **2017**, 153, 374-390	10.6	3
93	A mathematical model to predict the effect of electrospinning processing parameters on the morphological characteristic of nano-fibrous web and associated filtration efficiency. *Journal of Aerosol Science*, **2017**, 113, 227-241	4.3	24
92	Micro-particle indoor resuspension under periodic airflows: A numerical-analytical study and experimentations. *Building and Environment*, **2017**, 123, 299-314	6.5	9
91	Displacement ventilation with cooled liquid desiccant dehumidification membrane at ceiling; modeling and design charts. *Energy*, **2017**, 139, 1003-1015	7.9	16
90	Experimental Study on Effective Placement of PCM Packets in Cooling Vest to Improve Performance in Warm Environment **2017**,		3
89	Case Study of Trombe Wall Inducing Natural Ventilation through Cooled Basement Air to Meet Space Cooling Needs. *Journal of Energy Engineering - ASCE*, **2017**, 143, 04016039	1.7	5
88	Modeling of Heat and Moisture Transfer in Porous Textile Medium Subject to External Wind: Improving Clothing Design **2017**, 1-32		
87	Photovoltaic-thermal (PV/t) panel to minimize electrical and air conditioning energy consumption of a typical office in Beirut. *International Journal of Green Energy*, **2016**, 13, 383-394	3	2
86	Simplified modeling of the electrospinning process from the stable jet region to the unstable region for predicting the final nanofiber diameter. *Journal of Applied Polymer Science*, **2016**, 133,	2.9	23
85	The effect of PCM placement on torso cooling vest for an active human in hot environment. *Building and Environment*, **2016**, 107, 29-42	6.5	28

84	Solar chimney integrated with passive evaporative cooler applied on glazing surfaces. *Energy*, **2016**, 115, 169-179	7.9	33
83	Coupling CFD and analytical modeling for investigation of monolayer particle resuspension by transient flows. *Building and Environment*, **2016**, 105, 1-12	6.5	14
82	Performance of combined displacement ventilation and cooled ceiling liquid desiccant membrane system in Beirut climate. *Journal of Building Performance Simulation*, **2016**, 9, 648-662	2.8	11
81	Effect of inter-segmental air exchanges on local and overall clothing ventilation. *Textile Reseach Journal*, **2016**, 86, 423-439	1.7	8
80	Optimized performance of displacement ventilation aided with chair fans for comfort and indoor air quality. *Energy and Buildings*, **2016**, 127, 907-919	7	24
79	Natural ventilation in Beirut residential buildings for extended comfort hours. *International Journal of Sustainable Energy*, **2016**, 35, 996-1013	2.7	11
78	PCM cooling vest for improving thermal comfort in hot environment. *International Journal of Thermal Sciences*, **2016**, 102, 154-167	4.1	31
77	Ceiling personalized ventilation combined with desk fans for reduced direct and indirect cross-contamination and efficient use of office space. *Energy Conversion and Management*, **2016**, 111, 158-173	10.6	29
76	Coaxial personalized ventilation system and window performance for human thermal comfort in asymmetrical environment. *Energy and Buildings*, **2016**, 111, 253-266	7	18
75	Localized air-conditioning with upper-room UVGI to reduce airborne bacteria cross-infection. *Building Simulation*, **2016**, 9, 63-74	3.9	3
74	Optimizing performance of ceiling-mounted personalized ventilation system assisted by chair fans: Assessment of thermal comfort and indoor air quality. *Science and Technology for the Built Environment*, **2016**, 22, 412-430	1.8	8
73	Effect of shifts from occupant design position on performance of ceiling personalized ventilation assisted with desk fan or chair fans. *Energy and Buildings*, **2016**, 117, 20-32	7	19
72	Increasing energy efficiency of displacement ventilation integrated with an evaporative-cooled ceiling for operation in hot humid climate. *Energy and Buildings*, **2015**, 105, 26-36	7	11
71	Displacement ventilation zonal model for particle distribution resulting from high momentum respiratory activities. *Building and Environment*, **2015**, 90, 1-14	6.5	13
70	Performance evaluation of the displacement ventilation combined with evaporative cooled ceiling for a typical office in Beirut. *Energy Conversion and Management*, **2015**, 105, 655-664	10.6	12
69	Study of solar regenerated membrane desiccant system to control humidity and decrease energy consumption in office spaces. *Applied Energy*, **2015**, 138, 121-132	10.7	66
68	Chair fan-enhanced displacement ventilation for high IAQ: Effects on particle inhalation and stratification height. *Building and Environment*, **2015**, 84, 68-79	6.5	19
67	Design charts for sizing CC / DV system aided with personalized evaporative cooler to the desired thermal comfort. *Energy and Buildings*, **2015**, 86, 203-213	7	9

66	Low-mixing coaxial nozzle for effective personalized ventilation. *Indoor and Built Environment*, **2015**, 24, 225-243	1.8	14
65	Moisture buffering capacity of novel solar-regenerated rotating hygroscopic curtain system. *International Journal of Energy Research*, **2015**, 39, 1942-1953	4.5	0
64	Transient transport model of particles resulting from high momentum respiratory activities: Inter-personal exposure. *Building and Environment*, **2015**, 94, 54-67	6.5	4
63	Performance Evaluation of Displacement Ventilation System Combined with a Novel Evaporative Cooled Ceiling for a Typical Office in the City of Beirut. *Energy Procedia*, **2015**, 75, 1728-1733	2.3	3
62	Upper room UVGI effectiveness with dispersed pathogens at different droplet sizes in spaces conditioned by chilled ceiling and mixed displacement ventilation system. *Building and Environment*, **2015**, 87, 117-128	6.5	7
61	Elderly bioheat modeling: changes in physiology, thermoregulation, and blood flow circulation. *International Journal of Biometeorology*, **2014**, 58, 1825-43	3.7	24
60	Solar-assisted localized ventilation system for poultry brooding. *Energy and Buildings*, **2014**, 71, 142-154	7	7
59	Predicting segmental and overall ventilation of ensembles using an integrated bioheat and clothed cylinder ventilation models. *Textile Reseach Journal*, **2014**, 84, 2198-2213	1.7	10
58	New airborne pathogen transport model for upper-room UVGI spaces conditioned by chilled ceiling and mixed displacement ventilation: Enhancing air quality and energy performance. *Energy Conversion and Management*, **2014**, 85, 50-61	10.6	12
57	A simplified mathematical model for predicting cross contamination in displacement ventilation air-conditioned spaces. *Journal of Aerosol Science*, **2014**, 76, 72-86	4.3	21
56	Effectiveness of the earth tube heat exchanger system coupled to a space model in achieving thermal comfort in rural areas. *International Journal of Sustainable Energy*, **2014**, 33, 567-586	2.7	11
55	Effective desiccant dehumidification system with two-stage evaporative cooling for hot and humid climates. *Energy and Buildings*, **2014**, 68, 329-338	7	35
54	Ventilation, Personalized: Energy Efficient Devices **2014**, 2019-2029		
53	The Optimized Operation of a Solar Hybrid Desiccant/Displacement Ventilation Combined with a Personalized Evaporative Cooler. *International Journal of Green Energy*, **2014**, 11, 141-160	3	9
52	Improved thermal performance of face mask using phase change material. *Textile Reseach Journal*, **2014**, 84, 854-870	1.7	3
51	Simulation of a localized heating system for broiler brooding to improve energy performance. *International Journal of Energy Research*, **2014**, 38, 125-138	4.5	7
50	A new mathematical model to simulate AVA cold-induced vasodilation reaction to local cooling. *International Journal of Biometeorology*, **2014**, 58, 1905-18	3.7	9
49	Human thermal response with improved AVA modeling of the digits. *International Journal of Thermal Sciences*, **2013**, 67, 41-52	4.1	36

48	Evaporative cooler improves transient thermal comfort in chilled ceiling displacement ventilation conditioned space. *Energy and Buildings*, **2013**, 61, 51-60	7	15
47	The Energy Saving Potential and the Associated Thermal Comfort of Displacement Ventilation Systems Assisted by Personalised Ventilation. *Indoor and Built Environment*, **2013**, 22, 508-519	1.8	30
46	Strategies for reducing energy consumption in existing office buildings. *International Journal of Sustainable Energy*, **2013**, 32, 259-275	2.7	15
45	A numerical modeling approach to evaluate energy-efficient mechanical ventilation strategies. *Energy and Buildings*, **2012**, 55, 618-630	7	28
44	Sustainable design guidelines for detached housing in the Lebanese inland region. *International Journal of Sustainable Built Environment*, **2012**, 1, 177-193		5
43	Ceiling-Mounted Fresh Air Personalized Ventilator System for Occupant-Controlled Microenvironment **2012**,		3
42	Experimental and theoretical study of an integrated thermoelectric photovoltaic system for air dehumidification and fresh water production. *International Journal of Energy Research*, **2012**, 36, 963-974	4.5	39
41	Optimal location and thickness of insulation layers for minimizing building energy consumption. *Journal of Building Performance Simulation*, **2012**, 5, 384-398	2.8	28
40	Assessing thermal comfort of active people in transitional spaces in presence of air movement. *Energy and Buildings*, **2011**, 43, 2832-2842	7	47
39	Chilled ceiling and displacement ventilation aided with personalized evaporative cooler. *Energy and Buildings*, **2011**, 43, 3250-3257	7	46
38	Experimental and Theoretical Study of an Optimized Integrated Solar Desalination and Air Conditioning Unit. *International Journal of Green Energy*, **2011**, 8, 81-99	3	13
37	Optimized solar-powered liquid desiccant system to supply building fresh water and cooling needs. *Applied Energy*, **2011**, 88, 3726-3736	10.7	83
36	Effect of Moisture Transport on Mixed Convection in Vertical Annulus of a Heated Clothed Vertical Wet Cylinder in Uniform Cross Wind **2010**,		1
35	Experimental and Theoretical Study of Ventilation and Heat Loss From Isothermally Heated Clothed Vertical Cylinder in Uniform Flow Field. *Journal of Applied Mechanics, Transactions ASME*, **2010**, 77,	2.7	12
34	Optimized selection and operation of the combined chilled ceiling system and displacement ventilation. *International Journal of Energy Research*, **2010**, 34, 1328-1340	4.5	10
33	Experimental and Theoretical Study of Transient Human Thermal Comfort Response in Convective and Radiative Environments. *HVAC and R Research*, **2009**, 15, 855-873		10
32	Optimal control strategy for a multi-zone air conditioning system using a genetic algorithm. *Energy*, **2009**, 34, 58-66	7.9	170
31	Chilled ceiling displacement ventilation design charts correlations to employ in optimized system operation for feasible load ranges. *Energy and Buildings*, **2009**, 41, 1155-1164	7	25

30	Energy Consumption and Feasibility Study of a Hybrid Desiccant Dehumidification Air Conditioning System in Beirut. *International Journal of Green Energy*, **2008**, 5, 360-372	3	13
29	Effect of stove asymmetric radiation field on thermal comfort using a multisegmented bioheat model. *Building and Environment*, **2008**, 43, 1241-1249	6.5	13
28	A multi-segmented human bioheat model for transient and asymmetric radiative environments. *International Journal of Heat and Mass Transfer*, **2008**, 51, 5522-5533	4.9	53
27	Chilled ceiling and displacement ventilation system for energy savings: A case study. *International Journal of Energy Research*, **2007**, 31, 743-759	4.5	21
26	Steady Thermal Comfort by Radiant Heat Transfer: The Impact of the Heater Position. *Heat Transfer Engineering*, **2006**, 27, 29-40	1.7	19
25	Simplified Thermal Model of Spaces Cooled with Combined Positive Displacement Ventilation and Chilled Ceiling System. *HVAC and R Research*, **2006**, 12, 1005-1030		19
24	HEAT AND MOISTURE TRANSPORT FROM A SWINGING LIMB OF A CLOTHED WALKING HUMAN **2006**,		2
23	Modulated Air Layer Heat and Moisture Transport by Ventilation and Diffusion From Clothing With Open Aperture. *Journal of Heat Transfer*, **2005**, 127, 287-297	1.8	15
22	Radiant Domestic Combustion Stove System: Experimental and Simulated Study of Energy Use and Thermal Comfort. *International Journal of Green Energy*, **2005**, 2, 287-306	3	1
21	Ventilation rates of micro-climate air annulus of the clothing-skin system under periodic motion. *International Journal of Heat and Mass Transfer*, **2005**, 48, 3151-3166	4.9	22
20	Development and testing of a domestic woodstove thermoelectric generator with natural convection cooling. *Energy Conversion and Management*, **2005**, 46, 1631-1643	10.6	148
19	Experimental and Numerical Investigation of the Effect of Phase Change Materials on Clothing During Periodic Ventilation. *Textile Reseach Journal*, **2004**, 74, 205-214	1.7	42
18	Testing and Modeling Thermosyphonic Closed-Loop Magnetohydrodynamic Electrolyte Flow. *Journal of Thermophysics and Heat Transfer*, **2003**, 17, 129-137	1.3	4
17	Numerical and Experimental Investigation of the Effect of Phase Change Materials on Clothing During Periodic Ventilation **2003**, 205		
16	Use of desiccant dehumidification to improve energy utilization in air-conditioning systems in Beirut. *International Journal of Energy Research*, **2003**, 27, 1317-1338	4.5	27
15	Integrated human-clothing system model for estimating the effect of walking on clothing insulation. *International Journal of Thermal Sciences*, **2003**, 42, 605-619	4.1	29
14	Modeling of heat and moisture transport by periodic ventilation of thin cotton fibrous media. *International Journal of Heat and Mass Transfer*, **2002**, 45, 3703-3714	4.9	48
13	Evaluation of the Hall parameter of electrolyte solutions in thermosyphonic MHD flow. *International Journal of Engineering Science*, **2002**, 40, 2041-2056	5.7	9

12	Empirical Evaluation of Convective Heat and Moisture Transport Coefficients in Porous Cotton Medium. *Journal of Heat Transfer*, **2002**, 124, 530-537	1.8	23
11	Modeling of current and future energyintensity and greenhouse gas emissions ofthe Lebanese industrial sector: assessmentof mitigation options. *Applied Energy*, **1999**, 63, 53-74	10.7	36
10	Experimental study of a refrigerant charged solar collector. *International Journal of Energy Research* , **1998**, 22, 625-638	4.5	11
9	Analytical Model of a Side-Heated Free Convection Loop Placed in a Transverse Magnetic Field. *Journal of Fluids Engineering, Transactions of the ASME*, **1998**, 120, 62-69	2.1	1
8	Modeling and simulation of solar absorption system performance in Beirut. *Renewable Energy*, **1997**, 10, 539-558	8.1	70
7	Stratified storage tank influence on performance of solar water heating system tested in Beirut. *Renewable Energy*, **1994**, 4, 911-925	8.1	38
6	Natural convection heat transfer between a uniformly heated cylindrical element and its rectangular enclosure. *International Journal of Heat and Mass Transfer*, **1992**, 35, 2327-2334	4.9	78
5	A CONSERVATIVE ISOPARAMETRIC SPECTRAL ELEMENT METHOD FOR FORCED CONVECTION; APPLICATION TO FULLY DEVELOPED FLOW IN PERIODIC GEOMETRIES. *Numerical Heat Transfer*, **1986**, 9, 277-300		33
4	Numerical investigation of incompressible flow in grooved channels. Part 2. Resonance and oscillatory heat-transfer enhancement. *Journal of Fluid Mechanics*, **1986**, 168, 541	3.7	129
3	Numerical investigation of incompressible flow in grooved channels. Part 1. Stability and self-sustained oscillations. *Journal of Fluid Mechanics*, **1986**, 163, 99-127	3.7	200
2	Modeling and optimization of poultry house passive cooling strategies in semiarid climates. *International Journal of Energy Research*,	4.5	2
1	Ventilation increase using radiative cooling and phase change material at no additional energy cost in high ambient temperature countries. *Science and Technology for the Built Environment*,1-16	1.8	0