Erdem Cuce

List of Publications by Year
in descending order

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97 papers	4,548 citations	117571 34 h-index	106281 65 g-index
98 all docs	98 docs citations	98 times ranked	3525 citing authors

#	Article	IF	Citations
1	Global technological advancement and challenges of glazed window, facade system and vertical greenery-based energy savings in buildings: A comprehensive review. Energy and Built Environment, 2023, 4, 206-226.	2.9	39
2	A systematic review of thermal insulation performance of hollow bricks as a function of hollow geometry. International Journal of Ambient Energy, 2022, 43, 4406-4415.	1.4	6
3	Solar Chimney Power Plants: A Review of the Concepts, Designs and Performances. Sustainability, 2022, 14, 1450.	1.6	17
4	A novel latent heat storage unit by introducing jet breakup of phase change material. Journal of Energy Storage, 2022, 49, 104070.	3.9	1
5	Floating PVs in Terms of Power Generation, Environmental Aspects, Market Potential, and Challenges. Sustainability, 2022, 14, 2626.	1.6	22
6	Assessment of the Thermo-Hydraulic Efficiency of an Indoor-Designed Jet Impingement Solar Thermal Collector Roughened with Single Discrete Arc-Shaped Ribs. Sustainability, 2022, 14, 3527.	1.6	17
7	TiO2 nano-coated thin film PV glazing with superior thermal resistance, self-cleaning, electricity generation and adaptive optical control. International Journal of Low-Carbon Technologies, 2022, 17, 130-139.	1.2	8
8	Prospects and challenges of renewable energy-based microgrid system in Bangladesh: a comprehensive review. Clean Technologies and Environmental Policy, 2022, 24, 1987-2009.	2.1	19
9	A thermodynamic review on solar stills. Solar Energy, 2022, 237, 377-413.	2.9	45
10	Performance assessment of solar chimney power plants with natural thermal energy storage materials on ground: CFD analysis with experimental validation. International Journal of Low-Carbon Technologies, 2022, 17, 752-759.	1.2	4
11	A comprehensive review on recent advancements in cooling of solar photovoltaic systems using phase change materials. International Journal of Low-Carbon Technologies, 2022, 17, 768-783.	1.2	31
12	UV coated acrylics as a substitute for generic glazing in buildings of Indian climatic conditions: Prospective for energy savings, CO2 abatement, and visual acceptability. Energy and Buildings, 2022, 268, 112231.	3.1	7
13	Thermal Performance Study of Solar Air Dryers for Cashew Kernel: A Comparative Analysis and Modelling Using Response Surface Methodology (RSM) and Artificial Neural Network (ANN). International Journal of Photoenergy, 2022, 2022, 1-18.	1.4	10
14	Performance assessment of solar chimney power plants with the impacts of divergent and convergent chimney geometry. International Journal of Low-Carbon Technologies, 2021, 16, 704-714.	1.2	22
15	Impacts of Ground Slope on Main Performance Figures of Solar Chimney Power Plants: A Comprehensive CFD Research with Experimental Validation. International Journal of Photoenergy, 2021, 2021, 1-11.	1.4	14
16	Hybrid Floating Solar Plant Designs: A Review. Energies, 2021, 14, 2751.	1.6	56
17	Energy analysis of utility-scale PV plant in the rain-dominated tropical monsoon climates. Case Studies in Thermal Engineering, 2021, 26, 101123.	2.8	26
18	Thin film coated windows towards low/zero carbon buildings: Adaptive control of solar, thermal, and optical parameters. Sustainable Energy Technologies and Assessments, 2021, 46, 101257.	1.7	5

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19	A perspective of COVID 19 impact on global economy, energy and environment. International Journal of Sustainable Engineering, 2021, 14, 1290-1305.	1.9	60
20	Solar energy sector under the influence of Covid-19 pandemic: A critical review. Journal of Energy Systems, 2021, 5, 244-251.	0.8	10
21	Harmonic problems in renewable and sustainable energy systems: A comprehensive review. Sustainable Energy Technologies and Assessments, 2021, 48, 101566.	1.7	25
22	Performance analysis of a novel solar desalination system â€“ Part 2: The unit with sensible energy storage with thermal insulation and cooling system. Sustainable Energy Technologies and Assessments, 2021, 48, 101674.	1.7	4
23	Impact of Tower Diameter on Power Output in Solar Chimney Power Plants. Gazi MÃ¼hendislik Bilimleri Dergisi, 2021, 7, 253-263.	0.1	3
24	Performance analysis of a novel solar desalination system â€“ Part 1: The unit with sensible energy storage and booster reflector without thermal insulation and cooling system. Sustainable Energy Technologies and Assessments, 2020, 37, 100566.	1.7	19
25	Analysis of solar PV glare in airport environment: Potential solutions. Results in Engineering, 2020, 5, 100079.	2.2	23
26	Enhanced performance figures of solar cookers through latent heat storage and low-cost booster reflectors. International Journal of Low-Carbon Technologies, 2020, 15, 427-433.	1.2	20
27	Thermal performance evaluation of a solar air heater integrated with helical tubes carrying phase change material. Journal of Energy Storage, 2020, 30, 101406.	3.9	45
28	Design and thermal performance investigation of a box cooker with flexible solar collector tubes: An experimental research. Energy, 2020, 206, 118144.	4.5	57
29	On the Use of Nanofluids in Solar Energy Applications. Journal of Thermal Science, 2020, 29, 513-534.	0.9	33
30	Improving thermal performance of thermoelectric coolers (TECs) through a nanofluid driven water to air heat exchanger design: An experimental research. Energy Conversion and Management, 2020, 214, 112893.	4.4	44
31	Numerical performance modelling of solar chimney power plants: Influence of chimney height for a pilot plant in Manzanares, Spain. Sustainable Energy Technologies and Assessments, 2020, 39, 100704.	1.7	25
32	A thorough performance assessment of solar chimney power plants: Case study for Manzanares. Cleaner Engineering and Technology, 2020, 1, 100026.	2.1	11
33	Improving thermal resistance of lightweight concrete hollow bricks: A numerical optimisation research for a typical masonry unit. Journal of Energy Systems, 2020, 4, 121-144.	0.8	6
34	Boyuna UzatÄ±lmÄ±ÅŸ YÃ¼zeylerde DikdÃ¶rtgensel OyuklarÄ±n IsÄ± AtÄ±mÄ±na Etkisi: Bir HesaplamalÄ± AkÄ±ÅŸkanlar DinamiÄŸi Analizi. Afyon Kocatepe University Journal of Sciences and Engineering, 2020, 20, 931-940.	0.1	3
35	Optimised performance of a thermally resistive PV glazing technology: An experimental validation. Energy Reports, 2019, 5, 1185-1195.	2.5	16
36	Sustainable ventilation strategies in buildings: CFD research. Sustainable Energy Technologies and Assessments, 2019, 36, 100540.	1.7	35

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37	Performance Assessment of Solar Chimneys: Part I â€“ Impact of Chimney Height on Power Output. Energy Research Journal, 2019, 10, 11-19.	0.3	9
38	Performance Assessment of Solar Chimneys: Part 2 â€“ Impacts of Slenderness Value and Collector Slope on Power Output. Energy Research Journal, 2019, 10, 20-26.	0.3	7
39	Thermoelectric Coolers (TECs): From Theory to Practice. Journal of Electronic Materials, 2019, 48, 211-230.	1.0	30
40	Strategies for ideal indoor environments towards low/zero carbon buildings through a biomimetic approach. International Journal of Ambient Energy, 2019, 40, 86-95.	1.4	36
41	Heat transfer enhancement in cylindrical fins through longitudinal parabolic perforations. International Journal of Ambient Energy, 2019, 40, 406-412.	1.4	6
42	Impacts of edge seal material on thermal insulation performance of a thermally resistive photovoltaic glazing (TRPVG): CFD research with experimental validation. Journal of Energy Systems, 2019, 3, 26-35.	0.8	5
43	Concentrating photovoltaic thermal (CPVT) collectors and systems: Theory, performance assessment and applications. Renewable and Sustainable Energy Reviews, 2018, 81, 473-492.	8.2	140
44	Hybrid Photovoltaic/Thermal (HPV/T) Systems: From Theory to Applications. Energy Research Journal, 2018, 9, 1-71.	0.3	7
45	Smart Retrofit Solutions of Buildings toward a Low Carbon World. Energy Research Journal, 2018, 9, 77-86.	0.3	1
46	Low/Zero-Carbon Buildings for a Sustainable Future. , 2018, , .		1
47	Green roofs and facades: A comprehensive review. Renewable and Sustainable Energy Reviews, 2018, 82, 915-939.	8.2	349
48	Improving thermal power of a cylindrical solar cooker via novel micro/nano porous absorbers: A thermodynamic analysis with experimental validation. Solar Energy, 2018, 176, 211-219.	2.9	27
49	A novel method based on thermal conductivity for material identification in scrap industry: An experimental validation. Measurement: Journal of the International Measurement Confederation, 2018, 127, 379-389.	2.5	10
50	Accurate and reliable U -value assessment of argon-filled double glazed windows: A numerical and experimental investigation. Energy and Buildings, 2018, 171, 100-106.	3.1	51
51	Impact of humidity on current parameters of solar cells. Journal of Energy Systems, 2018, 2, 84-96.	0.8	5
52	Experimental and numerical investigation of a novel energy-efficient vacuum glazing technology for low-carbon buildings. Indoor and Built Environment, 2017, 26, 44-59.	1.5	10
53	Role of airtightness in energy loss from windows: Experimental results from in-situ tests. Energy and Buildings, 2017, 139, 449-455.	3.1	45
54	Thermal and Acoustic Properties of Aerogels: Preliminary Investigation of the Influence of Granule Size. Energy Procedia, 2017, 111, 472-480.	1.8	36

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55	An accurate model for photovoltaic (PV) modules to determine electrical characteristics and thermodynamic performance parameters. Energy Conversion and Management, 2017, 146, 205-216.	4.4	81
56	Toward cost-effective and energy-efficient heat recovery systems in buildings: Thermal performance monitoring. Energy, 2017, 137, 487-494.	4.5	19
57	Solar Pond Window Technology for Energy-Efficient Retrofitting of Buildings: An Experimental and Numerical Investigation. Arabian Journal for Science and Engineering, 2017, 42, 1909-1916.	1.7	5
58	Thermal regulation impact of green walls: An experimental and numerical investigation. Applied Energy, 2017, 194, 247-254.	5.1	110
59	An Overview of Concentrating Photovoltaic Thermal (CPVT) Collectors. Energy Research Journal, 2017, 8, 11-21.	0.3	11
60	Novel glazing technologies to mitigate energy consumption in low-carbon buildings: a comparative experimental investigation. International Journal of Energy Research, 2016, 40, 537-549.	2.2	26
61	A comprehensive assessment of sectoral energy consumption in the UK: past, present and future. International Journal of Low-Carbon Technologies, 2016, 11, 424-430.	1.2	4
62	Renewable and sustainable energy saving strategies for greenhouse systems: A comprehensive review. Renewable and Sustainable Energy Reviews, 2016, 64, 34-59.	8.2	215
63	The impact of internal aerogel retrofitting on the thermal bridges of residential buildings: An experimental and statistical research. Energy and Buildings, 2016, 116, 449-454.	3.1	41
64	Toward multi-functional PV glazing technologies in low/zero carbon buildings: Heat insulation solar glass â€“ Latest developments and future prospects. Renewable and Sustainable Energy Reviews, 2016, 60, 1286-1301.	8.2	57
65	Energy saving potential of heat insulation solar glass: Key results from laboratory and in-situ testing. Energy, 2016, 97, 369-380.	4.5	48
66	A novel roof type heat recovery panel for low-carbon buildings: An experimental investigation. Energy and Buildings, 2016, 113, 133-138.	3.1	18
67	Vacuum glazing for highly insulating windows: Recent developments and future prospects. Renewable and Sustainable Energy Reviews, 2016, 54, 1345-1357.	8.2	96
68	An overview of domestic energy consumption in the UK: past, present and future. International Journal of Ambient Energy, 2016, 37, 428-435.	1.4	6
69	Theoretical investigation of hot box solar cookers having conventional and finned absorber plates. International Journal of Low-Carbon Technologies, 2015, 10, 238-245.	1.2	34
70	A successful application of homotopy perturbation method for efficiency and effectiveness assessment of longitudinal porous fins. Energy Conversion and Management, 2015, 93, 92-99.	4.4	50
71	Energetic and exergetic performance assessment of solar cookers with different geometrical designs. International Journal of Ambient Energy, 2015, 36, 62-69.	1.4	16
72	Aerogel-Assisted Support Pillars for Thermal Performance Enhancement of Vacuum Glazing: A CFD Research for a Commercial Product. Arabian Journal for Science and Engineering, 2015, 40, 2233-2238.	1.1	42

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73	Thermal insulation, power generation, lighting and energy saving performance of heat insulation solar glass as a curtain wall application in Taiwan: A comparative experimental study. Energy Conversion and Management, 2015, 96, 31-38.	4.4	69
74	Comments on â€œAnalytical expression for electrical efficiency of PV/T hybrid air collectorâ€•by S. Dubey, G.S. Sandhu, and G.N. Tiwari. International Journal of Ambient Energy, 2015, 36, 206-208.	1.4	12
75	Thermal performance investigation of heat insulation solar glass: A comparative experimental study. Energy and Buildings, 2015, 86, 595-600.	3.1	97
76	Vacuum tube window technology for highly insulating building fabric: An experimental and numerical investigation. Vacuum, 2015, 111, 83-91.	1.6	47
77	A state-of-the-art review on innovative glazing technologies. Renewable and Sustainable Energy Reviews, 2015, 41, 695-714.	8.2	257
78	Optimization of configurations to enhance heat transfer from a longitudinal fin exposed to natural convection and radiation. International Journal of Low-Carbon Technologies, 2014, 9, 305-310.	1.2	26
79	Improving thermodynamic performance parameters of silicon photovoltaic cells via air cooling. International Journal of Ambient Energy, 2014, 35, 193-199.	1.4	61
80	Homotopy perturbation method for temperature distribution, fin efficiency and fin effectiveness of convective straight fins. International Journal of Low-Carbon Technologies, 2014, 9, 80-84.	1.2	12
81	Optimizing insulation thickness and analysing environmental impacts of aerogel-based thermal superinsulation in buildings. Energy and Buildings, 2014, 77, 28-39.	3.1	132
82	Toward aerogel based thermal superinsulation in buildings: A comprehensive review. Renewable and Sustainable Energy Reviews, 2014, 34, 273-299.	8.2	541
83	Tilt Angle Optimization and Passive Cooling of Building-Integrated Photovoltaics (BIPVs) for Better Electrical Performance. Arabian Journal for Science and Engineering, 2014, 39, 8199-8207.	1.1	18
84	Performance investigation of heat insulation solar glass for low-carbon buildings. Energy Conversion and Management, 2014, 88, 834-841.	4.4	65
85	Effects of concavity level on heat loss, effectiveness and efficiency of a longitudinal fin exposed to natural convection and radiation. International Journal of Numerical Methods for Heat and Fluid Flow, 2013, 23, 1169-1178.	1.6	24
86	A comprehensive review on solar cookers. Applied Energy, 2013, 102, 1399-1421.	5.1	209
87	An experimental analysis of illumination intensity and temperature dependency of photovoltaic cell parameters. Applied Energy, 2013, 111, 374-382.	5.1	186
88	Homotopy perturbation method for temperature distribution, fin efficiency and fin effectiveness of convective straight fins with temperature-dependent thermal conductivity. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 1754-1760.	1.1	33
89	A novel model of photovoltaic modules for parameter estimation and thermodynamic assessment. International Journal of Low-Carbon Technologies, 2012, 7, 159-165.	1.2	42
90	A review on hybrid photovoltaic/thermal collectors and systems. International Journal of Low-Carbon Technologies, 2011, 6, 212-241.	1.2	105

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91	Effects of passive cooling on performance of silicon photovoltaic cells. International Journal of Low-Carbon Technologies, 2011, 6, 299-308.	1.2	139
92	A smart building material for low/zero carbon applications: heat insulation solar glassâ€"characteristic results from laboratory andin situtests. International Journal of Low-Carbon Technologies, 0, , ctw009.	1.2	3
93	GÃœNÅž BACASI GÃœÃ‡ SANTRALLERÄ°NDE TOPLAYICI EÄžÄ°MÄ°NÄ°N Ã‡IKIÅž GÃœCÃœNE VE SÄ°STEM VERÄ°MÄ°NE ETKÄ°SÄ°. UU University Journal of the Faculty of Engineering, 0, , 1025-1038.	0.2	5
94	Improving Electricity Production in Solar Chimney Power Plants with Sloping Ground Design: An Extensive CFD Research. Journal of Solar Energy Research Updates, 0, 7, 122-131.	0.0	14
95	Energy Saving Aspects of Green Facades: Current Applications and Challenges. Green Building & Construction Economic, 0, , 1-11.	0.0	4
96	ENERJÄ° VERÄ°MLÄ° BÄ°NALAR Ä°Ã‡Ä°N SÃœRDÃœRÃœLEBÄ°LÄ°R VE Ã‡EVRE DOSTU PENCERE VE CAM TEKNOLOJÄ°LERÄ°: SON GEL VE UYGULAMALAR. UludaÄŸ University Journal of the Faculty of Engineering, 0, , 503-522.	0.2	0
97	ToplayÄ±cÄ± YarÄ±Ã§apÄ± ve YÃ¼ksekliÄŸinin GÃ¼neÅŸ BacasÄ± GÃ¼Ã§ Santrallerinin Performans Parametreleri Üzerine Etkileri: Manzanares, Ä°spanya iÃ§in Bir Vaka Ã‡alÄ±ÅŸmasÄ±. Recep Tayyip Erdoğan Üniversitesi Fen Ve Mühendislik Bilimleri Dergisi, 0, , .	0.2	3