

Marcus Newborough

List of Publications by Year in descending order

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55
papers

2,147
citations

279487

23
h-index

223531

46
g-index

55
all docs

55
docs citations

55
times ranked

2034
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic energy-consumption indicators for domestic appliances: environment, behaviour and design. <i>Energy and Buildings</i> , 2003, 35, 821-841.	3.1	405
2	Energy-use information transfer for intelligent homes: Enabling energy conservation with central and local displays. <i>Energy and Buildings</i> , 2007, 39, 495-503.	3.1	163
3	Impact of micro-CHP systems on domestic sector CO2 emissions. <i>Applied Thermal Engineering</i> , 2005, 25, 2653-2676.	3.0	135
4	Energy consumption in UK households: Impact of domestic electrical appliances. <i>Applied Energy</i> , 1996, 54, 211-285.	5.1	128
5	Power-to-gas systems for absorbing excess solar power in electricity distribution networks. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 13950-13959.	3.8	100
6	Sizing and operating power-to-gas systems to absorb excess renewable electricity. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 21635-21647.	3.8	74
7	An approach for estimating the carbon emissions associated with office lighting with a daylight contribution. <i>Applied Energy</i> , 2007, 84, 608-622.	5.1	71
8	Demand-side management opportunities for the UK domestic sector. <i>IET Generation, Transmission and Distribution</i> , 1999, 146, 283.	1.1	66
9	Minimising frost growth on cold surfaces exposed to humid air by means of crosslinked hydrophilic polymeric coatings. <i>Applied Thermal Engineering</i> , 2000, 20, 737-758.	3.0	66
10	Thermal depolymerisation of scrap polymers. <i>Applied Thermal Engineering</i> , 2002, 22, 1875-1883.	3.0	64
11	Impact of micro-combined heat-and-power systems on energy flows in the UK electricity supply industry. <i>Energy</i> , 2006, 31, 1804-1818.	4.5	60
12	Controlling micro-CHP systems to modulate electrical load profiles. <i>Energy</i> , 2007, 32, 1093-1103.	4.5	59
13	Incentives and legal barriers for power-to-hydrogen pathways: An international snapshot. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11394-11401.	3.8	58
14	Developments in the global hydrogen market: The spectrum of hydrogen colours. <i>Fuel Cells Bulletin</i> , 2020, 2020, 16-22.	0.7	55
15	Electrolysers for mitigating wind curtailment and producing "green" merchant hydrogen. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 120-134.	3.8	50
16	Auditing energy use in cities. <i>Energy Policy</i> , 2001, 29, 125-134.	4.2	43
17	Implementation and control of electrolysers to achieve high penetrations of renewable power. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2253-2268.	3.8	43
18	Using surplus nuclear power for hydrogen mobility and power-to-gas in France. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 10080-10089.	3.8	43

#	ARTICLE	IF	CITATIONS
19	Influencing user behaviour with energy information display systems for intelligent homes. International Journal of Energy Research, 2007, 31, 56-78.	2.2	38
20	Hybrid hydrogen-battery systems for renewable off-grid telecom power. International Journal of Hydrogen Energy, 2015, 40, 13876-13887.	3.8	37
21	Electrolysers as a load management mechanism for power systems with wind power and zero-carbon thermal power plant. Applied Energy, 2010, 87, 1-15.	5.1	36
22	Effect of heat-saving measures on the CO ₂ savings attributable to micro-combined heat and power (M ¹ / ₄ CHP) systems in UK dwellings. Energy, 2008, 33, 601-612.	4.5	30
23	Off-grid solar-hydrogen generation by passive electrolysis. International Journal of Hydrogen Energy, 2014, 39, 19855-19868.	3.8	24
24	Designs, thermal performances and other factors concerning cooking equipment and associated facilities. Applied Energy, 1985, 21, 81-222.	5.1	21
25	Electrolyser-based energy management: a means for optimising the exploitation of variable renewable-energy resources in stand-alone applications. Solar Energy, 1997, 61, 293-302.	2.9	21
26	Purposeful energy education in the UK. Applied Energy, 1994, 48, 243-259.	5.1	19
27	Intelligent automatic electrical-load management for networks of major domestic appliances. Applied Energy, 1990, 37, 151-168.	5.1	17
28	Primary- and secondary-level energy education in the UK. Applied Energy, 1991, 40, 119-156.	5.1	16
29	Energy performance of a low-emissivity electrically heated oven. Applied Thermal Engineering, 2000, 20, 813-830.	3.0	15
30	Multi-purpose mathematical model for electromagnetic-heating processes. Applied Energy, 1993, 44, 337-386.	5.1	14
31	Heat transfers from a horizontal cylinder in a rectangular enclosure. Applied Energy, 1998, 61, 57-78.	5.1	14
32	Electrolyser-based electricity management. Applied Energy, 1995, 51, 249-263.	5.1	13
33	The thermal behaviour of water in crosslinked hydro-active polymeric structures: crystallization of water. Journal Physics D: Applied Physics, 1998, 31, 3120-3129.	1.3	13
34	Heat transfer characteristics of mechanically-stimulated particle beds. Applied Thermal Engineering, 1999, 19, 37-49.	3.0	13
35	Radiative heat transfer in low-emissivity ovens. Applied Thermal Engineering, 1998, 18, 619-641.	3.0	12
36	Thermal behaviour of phase-change slurries incorporating hydrated hydrophilic polymeric particles. Experimental Thermal and Fluid Science, 2001, 25, 457-468.	1.5	11

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37	Improving the thermal performances of domestic electric ovens. Applied Energy, 1991, 39, 263-300.	5.1	10
38	Effects of operative behaviours and management planning on energy consumptions in kitchens. Applied Energy, 1988, 31, 205-220.	5.1	9
39	Electronically commutated direct-current motor for driving tube-axial fans: A cost-effective design. Applied Energy, 1990, 36, 167-190.	5.1	9
40	Thermal depolymerisation of poly-methyl-methacrylate using mechanically fluidised beds. Applied Thermal Engineering, 2003, 23, 721-731.	3.0	9
41	Thermal performances of induction, halogen and conventional electric catering hobs. Applied Energy, 1990, 37, 37-71.	5.1	8
42	Effects of thermal cycling on the crystallization characteristics of water within crosslinked hydro-active polymeric structures. Journal Physics D: Applied Physics, 1998, 31, 3130-3138.	1.3	8
43	Design improvements for the ubiquitous electric toaster. Applied Energy, 1987, 27, 1-52.	5.1	7
44	Micro-generation systems and electrolyzers for refuelling private bi-fuel cars at home. International Journal of Hydrogen Energy, 2009, 34, 4438-4451.	3.8	7
45	Evolution of energy-efficient food-preparation facilities. Applied Energy, 1988, 29, 83-178.	5.1	6
46	Heat Transfer in Mechanically-Fluidized Particle Beds. Chemical Engineering Research and Design, 2002, 80, 332-334.	2.7	6
47	Energy education in the UK Problems and perspectives. Energy Policy, 1991, 19, 659-665.	4.2	5
48	ENERGY-CONSCIOUS DESIGN IMPROVEMENTS FOR ELECTRIC HOBS. Journal of Foodservice, 1987, 4, 233-257.	0.2	4
49	Relating energy-consumption and health-care concerns to diet choices. Applied Energy, 1987, 27, 169-201.	5.1	3
50	Energy-thrift opportunities for operators of "public houses"™ in the UK. Applied Energy, 1988, 31, 31-57.	5.1	3
51	Enhancing the heat-transfer performances of conventional open-topped closed-sided toasters. Applied Energy, 1988, 29, 37-55.	5.1	3
52	Improving the thermal comfort of sedentary man. Applied Energy, 1984, 17, 283-299.	5.1	2
53	Electrolyzers for producing net-zero heat. Fuel Cells Bulletin, 2021, 2021, 16-21.	0.7	1
54	Automatically-controlled analyser for intererograms. Transactions of the Institute of Measurement and Control, 1988, 10, 234-239.	1.1	0

#	ARTICLE	IF	CITATIONS
55	Intelligent rapid-response water heater for supplementing outputs from a domestic hot water store. Building Services Engineering Research and Technology, 1994, 15, 141-148.	0.9	0