

Bjørn Petter Jelle

List of Publications by Year in descending order

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77
papers

6,727
citations

101384

36
h-index

79541

73
g-index

77
all docs

77
docs citations

77
times ranked

5554
citing authors

#	ARTICLE	IF	CITATIONS
1	Traditional, state-of-the-art and future thermal building insulation materials and solutions â€œ Properties, requirements and possibilities. Energy and Buildings, 2011, 43, 2549-2563.	3.1	864
2	Aerogel insulation for building applications: A state-of-the-art review. Energy and Buildings, 2011, 43, 761-769.	3.1	859
3	Phase change materials for building applications: A state-of-the-art review. Energy and Buildings, 2010, 42, 1361-1368.	3.1	763
4	Phase change materials and products for building applications: A state-of-the-art review and future research opportunities. Energy and Buildings, 2015, 94, 150-176.	3.1	419
5	Vacuum insulation panels for building applications: A review and beyond. Energy and Buildings, 2010, 42, 147-172.	3.1	319
6	Vacuum insulation panel products: A state-of-the-art review and future research pathways. Applied Energy, 2014, 116, 355-375.	5.1	187
7	Low-emissivity materials for building applications: A state-of-the-art review and future research perspectives. Energy and Buildings, 2015, 96, 329-356.	3.1	183
8	Aerogel-incorporated concrete: An experimental study. Construction and Building Materials, 2014, 52, 130-136.	3.2	179
9	The path to the high performance thermal building insulation materials and solutions of tomorrow. Journal of Building Physics, 2010, 34, 99-123.	1.2	164
10	Windows in the buildings of tomorrow: Energy losers or energy gainers?. Energy and Buildings, 2013, 61, 185-192.	3.1	154
11	Monodisperse Hollow Silica Nanospheres for Nano Insulation Materials: Synthesis, Characterization, and Life Cycle Assessment. ACS Applied Materials & Interfaces, 2013, 5, 761-767.	4.0	137
12	Experimental investigations of aerogel-incorporated ultra-high performance concrete. Construction and Building Materials, 2015, 77, 307-316.	3.2	122
13	Insulating glazing units with silica aerogel granules: The impact of particle size. Applied Energy, 2014, 128, 27-34.	5.1	110
14	Transmission Spectra of an Electrochromic Window Based on Polyaniline, Prussian Blue and Tungsten Oxide. Journal of the Electrochemical Society, 1993, 140, 3560-3564.	1.3	104
15	State-of-the-art Building Integrated Photovoltaics. Energy Procedia, 2012, 20, 68-77.	1.8	85
16	Key elements of and material performance targets for highly insulating window frames. Energy and Buildings, 2011, 43, 2583-2594.	3.1	83
17	Aging effects on thermal properties and service life of vacuum insulation panels. Journal of Building Physics, 2011, 35, 128-167.	1.2	83
18	The challenge of removing snow downfall on photovoltaic solar cell roofs in order to maximize solar energy efficiencyâ€”Research opportunities for the future. Energy and Buildings, 2013, 67, 334-351.	3.1	83

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19	Window spacers and edge seals in insulating glass units: A state-of-the-art review and future perspectives. <i>Energy and Buildings</i> , 2013, 58, 263-280.	3.1	81
20	Aerogel granulate glazing facades and their application potential from an energy saving perspective. <i>Applied Energy</i> , 2015, 142, 179-191.	5.1	78
21	Effect of facade components on energy efficiency in office buildings. <i>Applied Energy</i> , 2015, 158, 422-432.	5.1	73
22	Building Integrated Photovoltaics: A Concise Description of the Current State of the Art and Possible Research Pathways. <i>Energies</i> , 2016, 9, 21.	1.6	70
23	Paraotwayite-type $\text{Ni}(\text{OH})_2$ Nanowires: Structural, Optical, and Electrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17294-17302.	1.5	69
24	Visible-Light-Driven Photochromism of Hexagonal Sodium Tungsten Bronze Nanorods. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13753-13761.	1.5	65
25	The Path to the Building Integrated Photovoltaics of Tomorrow. <i>Energy Procedia</i> , 2012, 20, 78-87.	1.8	62
26	Transmission spectra of an electrochromic window consisting of polyaniline, prussian blue and tungsten oxide. <i>Electrochimica Acta</i> , 1993, 38, 1497-1500.	2.6	60
27	Gas-filled panels for building applications: A state-of-the-art review. <i>Energy and Buildings</i> , 2010, 42, 1969-1975.	3.1	60
28	Effect of storage and curing conditions at elevated temperatures on aerogel-incorporated mortar samples based on UHPC recipe. <i>Construction and Building Materials</i> , 2016, 106, 640-649.	3.2	57
29	Transmission spectra of an electrochromic window based on polyaniline, tungsten oxide and a solid polymer electrolyte. <i>Electrochimica Acta</i> , 1992, 37, 1377-1380.	2.6	51
30	Aerogel granule aging driven by moisture and solar radiation. <i>Energy and Buildings</i> , 2015, 103, 238-248.	3.1	49
31	Development of a model for radon concentration in indoor air. <i>Science of the Total Environment</i> , 2012, 416, 343-350.	3.9	46
32	Impact of convection on thermal performance of aerogel granulate glazing systems. <i>Energy and Buildings</i> , 2015, 88, 165-173.	3.1	45
33	Investigations of 6-pane glazing: Properties and possibilities. <i>Energy and Buildings</i> , 2019, 190, 61-68.	3.1	44
34	Dynamic light modulation in an electrochromic window consisting of polyaniline, tungsten oxide and a solid polymer electrolyte. <i>Synthetic Metals</i> , 1993, 54, 315-320.	2.1	42
35	Calcined clays as binder for thermal insulating and structural aerogel incorporated mortar. <i>Cement and Concrete Composites</i> , 2016, 72, 213-221.	4.6	42
36	Durability-enhanced vanadium dioxide thermochromic film for smart windows. <i>Materials Today Physics</i> , 2020, 13, 100205.	2.9	38

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37	Comparison of accelerated climate ageing methods of polymer building materials by attenuated total reflectance Fourier transform infrared radiation spectroscopy. <i>Construction and Building Materials</i> , 2011, 25, 2122-2132.	3.2	37
38	Thermal Conductivity of TiO ₂ Nanotubes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1401-1408.	1.5	36
39	Nano Insulation Materials: Synthesis and Life Cycle Assessment. <i>Procedia CIRP</i> , 2014, 15, 490-495.	1.0	36
40	Application of ATR-FTIR Spectroscopy to Compare the Cell Materials of Wood Decay Fungi with Wood Mould Fungi. <i>International Journal of Spectroscopy</i> , 2015, 2015, 1-7.	1.4	35
41	Coated wooden claddings and the influence of nanoparticles on the weathering performance. <i>Progress in Organic Coatings</i> , 2012, 75, 72-78.	1.9	33
42	Developing Low-conductance Window Frames: Capabilities and Limitations of Current Window Heat Transfer Design Tools – State-of-the-Art Review. <i>Journal of Building Physics</i> , 2008, 32, 131-153.	1.2	32
43	Improving thermal insulation of timber frame walls by retrofitting with vacuum insulation panels – experimental and theoretical investigations. <i>Journal of Building Physics</i> , 2011, 35, 168-188.	1.2	32
44	Phase Change Materials for Application in Energy-Efficient Buildings. , 2017, , 57-118.		32
45	Weathering performance of spruce coated with water based acrylic paint modified with TiO ₂ and clay nanoparticles. <i>Progress in Organic Coatings</i> , 2013, 76, 1543-1548.	1.9	31
46	Reduction factor for polyaniline films on ito from cyclic voltammetry and visible absorption spectra. <i>Electrochimica Acta</i> , 1993, 38, 1643-1647.	2.6	27
47	Hot box investigations and theoretical assessments of miscellaneous vacuum insulation panel configurations in building envelopes. <i>Journal of Building Physics</i> , 2011, 34, 297-324.	1.2	27
48	Norwegian Pitched Roof Defects. <i>Buildings</i> , 2016, 6, 24.	1.4	27
49	Transmission through an electrochromic window based on polyaniline, tungsten oxide and a solid polymer electrolyte. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1992, 13, 239-241.	1.7	26
50	Accelerated climate aging of building materials and their characterization by Fourier transform infrared radiation analysis. <i>Journal of Building Physics</i> , 2012, 36, 99-112.	1.2	26
51	Avoiding Snow and Ice Formation on Exterior Solar Cell Surfaces – A Review of Research Pathways and Opportunities. <i>Procedia Engineering</i> , 2016, 145, 699-706.	1.2	26
52	Correlation between light absorption and electric charge in solid state electrochromic windows. <i>Journal of Applied Electrochemistry</i> , 1999, 29, 1103-1110.	1.5	25
53	Antireflection properties of monodisperse hollow silica nanospheres. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 65-70.	1.1	25
54	Accelerated ageing and durability of double-glazed sealed insulating window panes and impact on heating demand in buildings. <i>Energy and Buildings</i> , 2016, 116, 395-402.	3.1	25

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55	Color changes of wood and wood-based materials due to natural and artificial weathering. <i>Wood Material Science and Engineering</i> , 2013, 8, 13-25.	1.1	23
56	Effects of TiO ₂ and clay nanoparticles loading on weathering performance of coated wood. <i>Progress in Organic Coatings</i> , 2013, 76, 1425-1429.	1.9	21
57	Robustness classification of materials, assemblies and buildings. <i>Journal of Building Physics</i> , 2014, 37, 213-245.	1.2	21
58	Building Integration of Aerogel Glazings. <i>Procedia Engineering</i> , 2016, 145, 723-728.	1.2	20
59	Implementation of radon barriers, model development and calculation of radon concentration in indoor air. <i>Journal of Building Physics</i> , 2011, 34, 195-222.	1.2	19
60	Large-scale experimental wind-driven rain exposure investigations of building integrated photovoltaics. <i>Solar Energy</i> , 2013, 90, 179-187.	2.9	19
61	Lightweight and thermally insulating aerogel glass materials. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 799-808.	1.1	19
62	Accelerated aging of treated aluminum for use as a cool colored material for facades. <i>Energy and Buildings</i> , 2016, 112, 184-197.	3.1	15
63	Vacuum insulation panels in wood frame wall constructions with different stud profiles. <i>Journal of Building Physics</i> , 2012, 36, 212-226.	1.2	13
64	Preparation of low density organosilica monoliths containing hollow silica nanospheres as thermal insulation materials. <i>Materials Letters</i> , 2019, 250, 151-154.	1.3	12
65	Sealant aging and its correlation with facade reflectance. <i>Construction and Building Materials</i> , 2014, 69, 390-402.	3.2	11
66	Impregnated wooden claddings and the influence of nanoparticles on the weathering performance. <i>Wood Material Science and Engineering</i> , 2012, 7, 186-195.	1.1	10
67	Fatigue resistance of double sealant composed of polyisobutylene sealant adjacent to silicone sealant. <i>Construction and Building Materials</i> , 2014, 66, 467-475.	3.2	9
68	3D-printed polyamide structures coated with TiO ₂ nanoparticles, towards a 360-degree rotating photocatalytic reactor. <i>Materials Letters</i> , 2022, 307, 131044.	1.3	9
69	Utilization of size-tunable hollow silica nanospheres for building thermal insulation applications. <i>Journal of Building Engineering</i> , 2020, 31, 101336.	1.6	8
70	Measurement of the convective moisture transfer coefficient from porous building material surfaces applying a wind tunnel method. <i>Journal of Building Physics</i> , 2013, 37, 103-121.	1.2	7
71	Reaction to fire and water vapour resistance performance of treated wood specimens containing TiO ₂ and clay nanoparticles. <i>Fire and Materials</i> , 2014, 38, 717-724.	0.9	6
72	Durability, reaction to fire properties, and environmental impact of treated and untreated wooden claddings. <i>Wood Material Science and Engineering</i> , 2013, 8, 175-187.	1.1	5

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73	Development of Nano Insulation Materials for Building Constructions. , 2015, , 429-434.		4
74	A framework for classification of snow- and icephobicity. Journal of Adhesion Science and Technology, 2021, 35, 1087-1098.	1.4	4
75	Influence of shell materials on the optical performance of VO ₂ core-shell nanoparticle-based thermochromic films. Materials Today Nano, 2021, 13, 100102.	2.3	4
76	UV-VIS-NIR Transmission Spectra of an Electrochromic Window based on Polyaniline, Prussian Blue, Tungsten Oxide and a Solid Polymer Electrolyte. , 1994, , 377-380.		0
77	Operating Hardware Impact on the Heat Transfer Properties of Windows. Energies, 2021, 14, 1145.	1.6	0