Sumin Kim

List of Publications by Year
in descending order

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167 papers	6,899 citations	50170 46 h-index	74018 75 g-index
169 all docs	169 docs citations	169 times ranked	5586 citing authors

#	Article	IF	Citations
1	High latent heat storage and high thermal conductive phase change materials using exfoliated graphite nanoplatelets. Solar Energy Materials and Solar Cells, 2009, 93, 136-142.	3.0	394
2	The effect of types of maleic anhydride-grafted polypropylene (MAPP) on the interfacial adhesion properties of bio-flour-filled polypropylene composites. Composites Part A: Applied Science and Manufacturing, 2007, 38, 1473-1482.	3.8	333
3	Thermal properties of bio-flour-filled polyolefin composites with different compatibilizing agent type and content. Thermochimica Acta, 2006, 451, 181-188.	1.2	278
4	Effect of different compatibilizing agents on the mechanical properties of lignocellulosic material filled polyethylene bio-composites. Composite Structures, 2007, 79, 369-375.	3.1	185
5	Preparation of energy efficient paraffinic PCMs/expanded vermiculite and perlite composites for energy saving in buildings. Solar Energy Materials and Solar Cells, 2015, 137, 107-112.	3.0	153
6	Application of PCM thermal energy storage system to reduce building energy consumption. Journal of Thermal Analysis and Calorimetry, 2013, 111, 279-288.	2.0	150
7	Environment-friendly adhesives for surface bonding of wood-based flooring using natural tannin to reduce formaldehyde and TVOC emission. Bioresource Technology, 2009, 100, 744-748.	4.8	149
8	Bio-based PCM/carbon nanomaterials composites with enhanced thermal conductivity. Solar Energy Materials and Solar Cells, 2014, 120, 549-554.	3.0	147
9	Optimal preparation of PCM/diatomite composites for enhancing thermal properties. International Journal of Heat and Mass Transfer, 2013, 62, 711-717.	2.5	127
10	Building materials thermal conductivity measurement and correlation with heat flow meter, laser flash analysis and TCi. Journal of Thermal Analysis and Calorimetry, 2012, 109, 295-300.	2.0	113
11	Comparison of standard methods and gas chromatography method in determination of formaldehyde emission from MDF bonded with formaldehyde-based resins. Bioresource Technology, 2005, 96, 1457-1464.	4.8	107
12	Thermal properties of shape-stabilized phase change materials using fatty acid ester and exfoliated graphite nanoplatelets for saving energy in buildings. Solar Energy Materials and Solar Cells, 2015, 143, 168-173.	3.0	106
13	Effect of addition of polyvinyl acetate to melamine-formaldehyde resin on the adhesion and formaldehyde emission in engineered flooring. International Journal of Adhesion and Adhesives, 2005, 25, 456-461.	1.4	99
14	A novel enhancement of shape/thermal stability and energy-storage capacity of phase change materials through the formation of composites with 3D porous (3,6)-connected metalâ€“organic framework. Chemical Engineering Journal, 2020, 389, 124430.	6.6	99
15	Curing behavior and viscoelastic properties of pine and wattle tannin-based adhesives studied by dynamic mechanical thermal analysis and FT-IR-ATR spectroscopy. Journal of Adhesion Science and Technology, 2003, 17, 1369-1383.	1.4	98
16	Chemical retreating for gel-typed aerogel and insulation performance of cement containing aerogel. Construction and Building Materials, 2013, 40, 501-505.	3.2	98
17	A review of functional sorbents for adsorptive removal of arsenic ions in aqueous systems. Journal of Hazardous Materials, 2020, 388, 121815.	6.5	98
18	Improvement of the thermal properties of Bio-based PCM using exfoliated graphite nanoplatelets. Solar Energy Materials and Solar Cells, 2013, 117, 87-92.	3.0	94

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19	Energy efficient Bio-based PCM with silica fume composites to apply in concrete for energy saving in buildings. Solar Energy Materials and Solar Cells, 2015, 143, 430-434.	3.0	87
20	High thermal performance composite PCMs loading xGnP for application to building using radiant floor heating system. Solar Energy Materials and Solar Cells, 2012, 101, 51-56.	3.0	86
21	Multifunctional xGnP/LLDPE Nanocomposites Prepared by Solution Compounding Using Various Screw Rotating Systems. Macromolecular Materials and Engineering, 2009, 294, 196-205.	1.7	85
22	Properties of lignocellulosic material filled polypropylene bio-composites made with different manufacturing processes. Polymer Testing, 2006, 25, 668-676.	2.3	83
23	Thermal stability and dynamic mechanical behavior of exfoliated graphite nanoplateletsâ€ŁLDPE nanocomposites. Polymer Composites, 2010, 31, 755-761.	2.3	81
24	Preparation and evaluation of thermal enhanced silica fume by incorporating organic PCM, for application to concrete. Energy and Buildings, 2013, 62, 190-195.	3.1	78
25	Performance evaluation of the microencapsulated PCM for wood-based flooring application. Energy Conversion and Management, 2012, 64, 516-521.	4.4	76
26	Thermal performance evaluation of Bio-based shape stabilized PCM with boron nitride for energy saving. International Journal of Heat and Mass Transfer, 2014, 71, 245-250.	2.5	76
27	Energy efficient thermal storage montmorillonite with phase change material containing exfoliated graphite nanoplatelets. Solar Energy Materials and Solar Cells, 2015, 139, 65-70.	3.0	76
28	Latent heat storage biocomposites of phase change material-biochar as feasible eco-friendly building materials. Environmental Research, 2019, 172, 637-648.	3.7	76
29	Comparison of formaldehyde emission from building finishing materials at various temperatures in under heating system; ONDOL. Indoor Air, 2005, 15, 317-325.	2.0	73
30	Determination of formaldehyde and TVOC emission factor from wood-based composites by small chamber method. Polymer Testing, 2006, 25, 605-614.	2.3	72
31	Improvement of electric conductivity of LLDPE based nanocomposite by paraffin coating on exfoliated graphite nanoplatelets. Composites Part A: Applied Science and Manufacturing, 2010, 41, 581-587.	3.8	64
32	Improvement of thermal inertia effect in buildings using shape stabilized PCM wallboard based on the enthalpy-temperature function. Sustainable Cities and Society, 2020, 56, 102067.	5.1	64
33	Characterization of biocomposite using coconut oil impregnated biochar as latent heat storage insulation. Chemosphere, 2019, 236, 124269.	4.2	63
34	Thermal characteristics of mortar containing hexadecane/xGnP SSPCM and energy storage behaviors of envelopes integrated with enhanced heat storage composites for energy efficient buildings. Energy and Buildings, 2014, 70, 472-479.	3.1	62
35	Evaluating the flammability of wood-based panels and gypsum particleboard using a cone calorimeter. Construction and Building Materials, 2011, 25, 3044-3050.	3.2	60
36	Comparison of Exfoliated Graphite Nanoplatelets (xGnP) and CNTs for Reinforcement of EVA Nanocomposites Fabricated by Solution Compounding Method and Three Screw Rotating Systems. Journal of Adhesion Science and Technology, 2009, 23, 1623-1638.	1.4	59

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37	Formaldehyde and TVOC emission behaviors according to finishing treatment with surface materials using 20 L chamber and FLEC. Journal of Hazardous Materials, 2010, 177, 90-94.	6.5	58
38	An experimental study on applying organic PCMs to gypsum-cement board for improving thermal performance of buildings in different climates. Energy and Buildings, 2019, 190, 183-194.	3.1	56
39	Thermal performance enhancement of mortar mixed with octadecane/xGnP SSPCM to save building energy consumption. Solar Energy Materials and Solar Cells, 2014, 122, 257-263.	3.0	55
40	Biochar-red clay composites for energy efficiency as eco-friendly building materials: Thermal and mechanical performance. Journal of Hazardous Materials, 2019, 373, 844-855.	6.5	55
41	Effect of Bio-Scavengers on the Curing Behavior and Bonding Properties of Melamine-Formaldehyde Resins. Macromolecular Materials and Engineering, 2006, 291, 1027-1034.	1.7	54
42	Control of formaldehyde and TVOC emission from wood-based flooring composites at various manufacturing processes by surface finishing. Journal of Hazardous Materials, 2010, 176, 14-19.	6.5	52
43	Evaluation of PCM/diatomite composites using exfoliated graphite nanoplatelets (xGnP) to improve thermal properties. Journal of Thermal Analysis and Calorimetry, 2013, 114, 689-698.	2.0	52
44	Comparative analysis of the PCM application according to the building type as retrofit system. Building and Environment, 2019, 151, 291-302.	3.0	52
45	Integrated analysis of the energy and economic efficiency of PCM as an indoor decoration element: Application to an apartment building. Solar Energy, 2020, 196, 437-447.	2.9	51
46	Application of recycled paper sludge and biomass materials in manufacture of green composite pallet. Resources, Conservation and Recycling, 2009, 53, 674-679.	5.3	49
47	The reduction of indoor air pollutant from wood-based composite by adding pozzolan for building materials. Construction and Building Materials, 2009, 23, 2319-2323.	3.2	49
48	Estimating the fire behavior of wood flooring using a cone calorimeter. Journal of Thermal Analysis and Calorimetry, 2012, 110, 677-683.	2.0	49
49	Anti-bacterial performance of colloidal silver-treated laminate wood flooring. International Biodeterioration and Biodegradation, 2006, 57, 155-162.	1.9	48
50	Emission behavior of formaldehyde and TVOC from engineered flooring in under heating and air circulation systems. Building and Environment, 2010, 45, 1826-1833.	3.0	47
51	The reduction of formaldehyde and VOCs emission from wood-based flooring by green adhesive using cashew nut shell liquid (CNSL). Journal of Hazardous Materials, 2010, 182, 919-922.	6.5	46
52	Analysis of walls of functional gypsum board added with porous material and phase change material to improve hygrothermal performance. Energy and Buildings, 2019, 183, 803-816.	3.1	46
53	TVOC and formaldehyde emission behaviors from flooring materials bonded with environmental-friendly MF/PVAc hybrid resins. Indoor Air, 2007, 17, 404-415.	2.0	45
54	Formaldehyde and TVOC emission behavior of laminate flooring by structure of laminate flooring and heating condition. Journal of Hazardous Materials, 2011, 187, 44-51.	6.5	45

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55	Hygrothermal performance improvement of the Korean wood frame walls using macro-packed phase change materials (MPPCM). Applied Thermal Engineering, 2017, 114, 457-465.	3.0	45
56	Spent coffee grounds as supporting materials to produce bio-composite PCM with natural waxes. Chemosphere, 2019, 235, 626-635.	4.2	45
57	Thermal stability and viscoelastic properties of MF/PVAc hybrid resins on the adhesion for engineered flooring in under heating system; ONDOL. Thermochimica Acta, 2006, 444, 134-140.	1.2	43
58	Thermal performance analysis according to wood flooring structure for energy conservation in radiant floor heating systems. Energy and Buildings, 2011, 43, 2039-2042.	3.1	43
59	Climatic cycling assessment of red clay/perlite and vermiculite composite PCM for improving thermal inertia in buildings. Building and Environment, 2020, 167, 106464.	3.0	41
60	Investigation on thermal and mechanical characteristics of concrete mixed with shape stabilized phase change material for mix design. Construction and Building Materials, 2017, 149, 749-762.	3.2	40
61	Hygrothermal behavior evaluation of walls improving heat and moisture performance on gypsum boards by adding porous materials. Energy and Buildings, 2018, 165, 431-439.	3.1	40
62	Thermal performance of organic PCMs/micronized silica composite for latent heat thermal energy storage. Energy and Buildings, 2014, 70, 180-185.	3.1	38
63	Development of thermal enhanced n-octadecane/porous nano carbon-based materials using 3-step filtered vacuum impregnation method. Thermochimica Acta, 2017, 655, 194-201.	1.2	38
64	Thermal transfer behavior of biochar-natural inorganic clay composite for building envelope insulation. Construction and Building Materials, 2019, 223, 668-678.	3.2	38
65	Optimization of phase change materials to improve energy performance within thermal comfort range in the South Korean climate. Energy and Buildings, 2019, 185, 12-25.	3.1	36
66	Data-driven approach to prediction of residential energy consumption at urban scales in London. Energy, 2019, 187, 115973.	4.5	35
67	Evaluation and analysis of volatile organic compounds and formaldehyde emission of building products in accordance with legal standards: A statistical experimental study. Journal of Hazardous Materials, 2020, 393, 122381.	6.5	35
68	Effect of PCM cool roof system on the reduction in urban heat island phenomenon. Building and Environment, 2017, 122, 411-421.	3.0	34
69	Study of miscibility of melamine-formaldehyde resin and poly(vinyl acetate) blends for use as adhesives in engineered flooring. Journal of Adhesion Science and Technology, 2006, 20, 209-219.	1.4	33
70	Test methods and reduction of organic pollutant compound emissions from wood-based building and furniture materials. Bioresource Technology, 2010, 101, 6562-6568.	4.8	32
71	Design and analysis of phase change material based floor heating system for thermal energy storage. Environmental Research, 2019, 173, 480-488.	3.7	31
72	Evaluation of energy efficient hybrid hollow plaster panel using phase change material/xGnP composites. Applied Energy, 2017, 205, 1548-1559.	5.1	30

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73	Physico-mechanical properties of particleboards bonded with pine and wattle tannin-based adhesives. Journal of Adhesion Science and Technology, 2003, 17, 1863-1875.	1.4	29
74	Incombustibility, physico-mechanical properties and TVOC emission behavior of the gypsumâ€“rice husk boards for wall and ceiling materials for construction. Industrial Crops and Products, 2009, 29, 381-387.	2.5	28
75	Evaluation of formaldehyde and VOCs emission factors from paints in a small chamber: The effects of preconditioning time and coating weight. Journal of Hazardous Materials, 2011, 187, 52-57.	6.5	28
76	Thermal performance evaluation of macro-packed phase change materials (PCMs) using heat transfer analysis device. Energy and Buildings, 2016, 117, 120-127.	3.1	28
77	Energy efficient concrete with n-octadecane/xGnP SSPCM for energy conservation in infrastructure. Construction and Building Materials, 2016, 106, 543-549.	3.2	28
78	Effect of grafting of acrylic acid onto PET film surfaces by UV irradiation on the adhesion of PSAs. Journal of Adhesion Science and Technology, 2006, 20, 1357-1365.	1.4	26
79	W-Band MIMO FMCW Radar System With Simultaneous Transmission of Orthogonal Waveforms for High-Resolution Imaging. IEEE Transactions on Microwave Theory and Techniques, 2018, , 1-14.	2.9	26
80	Thermal bridging analysis of connections in cross-laminated timber buildings based on ISO 10211. Construction and Building Materials, 2019, 213, 709-722.	3.2	26
81	Thermal Performance Evaluation of Fatty Acid Ester and Paraffin Based Mixed SSPCMs Using Exfoliated Graphite Nanoplatelets (xGnP). Applied Sciences (Switzerland), 2016, 6, 106.	1.3	25
82	Evaluation of VOC Emissions from Building Finishing Materials Using a Small Chamber and VOC Analyser. Indoor and Built Environment, 2006, 15, 511-523.	1.5	24
83	Fast curing PF resin mixed with various resins and accelerators for building composite materials. Construction and Building Materials, 2008, 22, 2141-2146.	3.2	24
84	Reduction of VOC emission from natural flours filled biodegradable bio-composites for automobile interior. Journal of Hazardous Materials, 2011, 187, 37-43.	6.5	24
85	Improvement of window thermal performance using aerogel insulation film for building energy saving. Journal of Thermal Analysis and Calorimetry, 2014, 116, 219-224.	2.0	23
86	Development and performance evaluation of heat storage paint with MPCM for applying roof materials as basic research. Energy and Buildings, 2016, 112, 62-68.	3.1	23
87	Enhancing the flame-retardant performance of wood-based materials using carbon-based materials. Journal of Thermal Analysis and Calorimetry, 2016, 123, 1935-1942.	2.0	23
88	Thermal and characteristic analysis of shape-stabilization phase change materials by advanced vacuum impregnation method using carbon-based materials. Journal of Industrial and Engineering Chemistry, 2019, 70, 281-289.	2.9	23
89	Moisture risk assessment of cross-laminated timber walls: Perspectives on climate conditions and water vapor resistance performance of building materials. Building and Environment, 2020, 168, 106502.	3.0	23
90	Field study on the improvement of indoor air quality with toluene adsorption finishing materials in an urban residential apartment. Environmental Pollution, 2020, 261, 114137.	3.7	23

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91	Thermal analysis study of viscoelastic properties and activation energy of melamine-modified urea-formaldehyde resins. Journal of Adhesion Science and Technology, 2006, 20, 803-816.	1.4	22
92	Field study on indoor air quality of wood remodeled welfare facilities for physical and psychological benefits. Journal of Cleaner Production, 2019, 233, 197-208.	4.6	22
93	Novel proposal to overcome insulation limitations due to nonlinear structures using 3D printing: Hybrid heat-storage system. Energy and Buildings, 2019, 197, 177-187.	3.1	22
94	The determination of the adsorption performance of graphite for VOCs and formaldehyde. Energy and Buildings, 2012, 46, 56-61.	3.1	21
95	Energy performance evaluation of heat-storage gypsum board with hybrid SSPCM composite. Journal of Industrial and Engineering Chemistry, 2017, 51, 237-243.	2.9	21
96	Thermal performance enhancement of a phase change material with expanded graphite via ultrasonication. Journal of Industrial and Engineering Chemistry, 2019, 79, 437-442.	2.9	21
97	Hygrothermal properties analysis of cross-laminated timber wall with internal and external insulation systems. Journal of Cleaner Production, 2019, 231, 1353-1363.	4.6	21
98	Development of wood-lime boards as building materials improving thermal and moisture performance based on hygrothermal behavior evaluation. Construction and Building Materials, 2019, 204, 576-585.	3.2	21
99	Fabrication of stable electrospun TiO2 nanorods for high-performance dye-sensitized solar cells. Macromolecular Research, 2013, 21, 636-640.	1.0	20
100	Development of heat storage gypsum board with paraffin-based mixed SSPCM for application to buildings. Journal of Adhesion Science and Technology, 2017, 31, 297-309.	1.4	20
101	Assessment of recycled ceramic-based inorganic insulation for improving energy efficiency and flame retardancy of buildings. Environment International, 2019, 130, 104900.	4.8	20
102	The effects of edge sealing treatment applied to wood-based composites on formaldehyde emission by desiccator test method. Polymer Testing, 2006, 25, 904-911.	2.3	19
103	Development and evaluation of gypsum/shape-stabilization phase change materials using large-capacity vacuum impregnator for thermal energy storage. Applied Energy, 2019, 241, 278-290.	5.1	18
104	Probe tack of tackified acrylic emulsion PSAs. International Journal of Adhesion and Adhesives, 2007, 27, 102-107.	1.4	17
105	Preparation of epoxy resin usingn-hexadecane based shape stabilized PCM for applying wood-based flooring. Journal of Adhesion Science and Technology, 2014, 28, 711-721.	1.4	16
106	Hygrothermal Performance of Exterior wall Structures Using a Heat, Air and Moisture Modeling. Energy Procedia, 2015, 78, 3434-3439.	1.8	16
107	Numerical analysis of hygrothermal properties and behavior of Korean based cross-laminated timber (CLT) wall system to deduce optimal assemblies. Journal of Cleaner Production, 2019, 213, 1217-1227.	4.6	16
108	Numerical analysis of phase change materials/woodâ€“plastic composite roof module system for improving thermal performance. Journal of Industrial and Engineering Chemistry, 2020, 82, 413-423.	2.9	16

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109	Development of a test method using a VOC analyzer to measure VOC emission from adhesives for building materials. Journal of Adhesion Science and Technology, 2006, 20, 1783-1799.	1.4	15
110	Analysis of energy retrofit system using latent heat storage materials applied to residential buildings considering climate impacts. Applied Thermal Engineering, 2020, 169, 114904.	3.0	15
111	Effects of natural-resource-based scavengers on the adhesion properties and formaldehyde emission of engineered flooring. Journal of Adhesion Science and Technology, 2007, 21, 211-225.	1.4	14
112	Enhancement of the thermal conductivity of adhesives for wood flooring using xGnP. Energy and Buildings, 2012, 51, 153-156.	3.1	13
113	Multichannel W-Band SAR System on a Multirotor UAV Platform With Real-Time Data Transmission Capabilities. IEEE Access, 2020, 8, 144413-144431.	2.6	13
114	Physico-Mechanical Properties, Odor and VOC Emission of Bio-Flour-Filled Poly(propylene) Bio-Composites with Different Volcanic Pozzolan Contents. Macromolecular Materials and Engineering, 2006, 291, 1255-1264.	1.7	12
115	Energy retrofit analysis of cross-laminated timber residential buildings in Seoul, Korea: Insights from a case study of packages. Energy and Buildings, 2019, 202, 109329.	3.1	12
116	W-Band FMCW MIMO Radar System for High-Resolution Multimode Imaging With Time- and Frequency-Division Multiplexing. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 5042-5057.	2.7	12
117	Prediction evaluating of moisture problems in light-weight wood structure: Perspectives on regional climates and building materials. Building and Environment, 2020, 168, 106521.	3.0	11
118	Miscibility and Phase Morphology of MF/PVAc Hybrid Resins for Surface Bonding of Building Interior Materials. Macromolecular Materials and Engineering, 2007, 292, 339-346.	1.7	10
119	Analysis on phase transition range of the pure and mixed phase change materials (PCM) using a thermostatic chamber test and differentiation. Journal of Thermal Analysis and Calorimetry, 2018, 131, 1999-2004.	2.0	10
120	Dynamic heat transfer and thermal performance evaluation of PCM-doped hybrid hollow plaster panels for buildings. Journal of Hazardous Materials, 2019, 374, 428-436.	6.5	10
121	Development of vacuum impregnation equipment and preparation of mass/uniform shape-stabilized phase change materials. International Journal of Heat and Mass Transfer, 2019, 132, 817-824.	2.5	10
122	Observation and analysis of gypsum particleboard using SEM. Journal Wuhan University of Technology, Materials Science Edition, 2007, 22, 44-47.	0.4	9
123	Comparison of thermal transfer characteristics of wood flooring according to the installation method. Energy and Buildings, 2014, 70, 422-426.	3.1	9
124	Thermal performance evaluation of Hwangtoh board developed with styrene butadiene latex/SSPCM. Construction and Building Materials, 2019, 200, 310-317.	3.2	9
125	Thermal performance analysis of phase change materials composed of double layers considering heating and cooling period. Journal of Industrial and Engineering Chemistry, 2019, 72, 255-264.	2.9	9
126	Thermal Performance of Wooden Building Envelope by Thermal Conductivity of Structural Members. Journal of the Korean Wood Science and Technology, 2013, 41, 515-527.	0.8	9

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127	Viscoelastic properties and peel strength of water-borne acrylic PSAs for labels. Journal of Adhesion Science and Technology, 2007, 21, 109-123.	1.4	8
128	Energyâ€Efficient Heat Storage using Gypsum Board with Fatty Acid Ester as Layered Phase Change Material. Energy Technology, 2017, 5, 1392-1398.	1.8	8
129	Characteristics of a Reddish Residual Soil (Hwangtoh) finishing material with water-soluble adhesive for residential building. Construction and Building Materials, 2010, 24, 1542-1546.	3.2	7
130	Characteristics of Particleboards Using Tannin Resin as Novel Environment-Friendly Adhesion System. Indoor and Built Environment, 2013, 22, 61-67.	1.5	7
131	Thermal Extractor Analysis of VOCs Emitted from Building Materials and Evaluation of the Reduction Performance of Exfoliated Graphite Nanoplatelets. Indoor and Built Environment, 2013, 22, 68-76.	1.5	7
132	Analysis of Hygrothermal Performance of Wood Frame Walls according to Position of Insulation and Climate Conditions. Journal of the Korean Wood Science and Technology, 2016, 44, 264-273.	0.8	7
133	Enhanced Interfacial Adhesion of Bioflour-Filled Poly(propylene) Biocomposites by Electron-Beam Irradiation. Macromolecular Materials and Engineering, 2006, 291, 762-772.	1.7	6
134	Initial tack and viscoelastic properties of MF/PVAc hybrid resins used as adhesives for composite flooring materials. Journal of Adhesion Science and Technology, 2006, 20, 705-722.	1.4	6
135	Effect of surface laminate type on the emission of volatile organic compounds from wood-based composite panels. Journal of Adhesion Science and Technology, 2013, 27, 620-631.	1.4	6
136	Evaluation of the Adsorption Performance and Sustainability of Exfoliated Graphite Nanoplatelets (xGnP) for VOCs. Materials, 2015, 8, 7615-7621.	1.3	6
137	Formaldehyde emissions from particle board made with phenolâ€“ureaâ€“formaldehyde resin prepared by different synthesis methods. Journal of Adhesion Science and Technology, 2015, 29, 2090-2103.	1.4	6
138	Performance evaluation of macro-packed fatty acid ester composites using energy-efficient thermal storage systems. Journal of Industrial and Engineering Chemistry, 2017, 55, 215-223.	2.9	6
139	Framework for developing a building material property database using web crawling to improve the applicability of energy simulation tools. Renewable and Sustainable Energy Reviews, 2020, 121, 109665.	8.2	6
140	Forward-Looking Electromagnetic Wave Imaging Using a Radial Scanning Multichannel Radar. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	6
141	Evaluation of The Hygrothermal Performance by Wall Layer Component of Wooden Houses Using WUFI Simulation Program. Journal of the Korean Wood Science and Technology, 2016, 44, 75-84.	0.8	6
142	Physico-Mechanical Properties and the TVOC Emission Factor of Gypsum Particleboards Manufactured with Pinus Massoniana and Eucalyptus Sp.. Macromolecular Materials and Engineering, 2007, 292, 1256-1262.	1.7	5
143	Empirical Validation of Heat Transfer Performance Simulation of Graphite/PCM Concrete Materials for Thermally Activated Building System. International Journal of Polymer Science, 2017, 2017, 1-9.	1.2	5
144	Thermal Storage Effect Analysis of Floor Heating Systems Using Latent Heat Storage Sheets. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 799-807.	2.7	5

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145	Comparison of Hygrothermal Performance between Wood and Concrete Wall Structures using Simulation Program. Journal of the Korean Wood Science and Technology, 2016, 44, 283-293.	0.8	5
146	Measurements of formaldehyde and TVOC emission from paints and coating materials using small chamber method for building composites. Journal Wuhan University of Technology, Materials Science Edition, 2012, 27, 120-125.	0.4	4
147	Development of the Thermal Performance of Wood-Flooring by Improving the Thermal Conductivity of Plywood. Journal of Biobased Materials and Bioenergy, 2014, 8, 170-174.	0.1	4
148	Evaluation of Toluene Adsorption Performance of Mortar Adhesives Using Porous Carbon Material as Adsorbent. Materials, 2017, 10, 853.	1.3	3
149	Evaluation of Formaldehyde Emissions and Combustion Behaviors of Wood-Based Composites Subjected to Different Surface Finishing Methods. BioResources, 2013, 8, .	0.5	3
150	Analysis of Hygrothermal Performance for Standard Wood-frame Structures in Korea. Journal of the Korean Wood Science and Technology, 2016, 44, 440-448.	0.8	3
151	Evaluation and Analysis of The Building Energy Saving Performance by Component of Wood Products Using EnergyPlus. Journal of the Korean Wood Science and Technology, 2016, 44, 655-663.	0.8	3
152	Heating and Cooling Energy Demand Evaluating of Standard Houses According to Layer Component of Masonry, Concrete and Wood Frame Using PHPP. Journal of the Korean Wood Science and Technology, 2017, 45, 1-11.	0.8	3
153	Environment-friendly Hwangtoh Composite Materials Using Water Soluble Resin for Indoor Air Quality and Human Health. Journal of Composite Materials, 2010, 44, 905-913.	1.2	2
154	Control of emission rates of chemical compounds emitted by controlling their mass transfer coefficients on the surface of the tested building material. Journal of Adhesion Science and Technology, 2013, 27, 610-619.	1.4	2
155	Advanced Building Materials for Passive House and Energy Storage. Advances in Materials Science and Engineering, 2017, 2017, 1-1.	1.0	2
156	Confirmation of the performance of exfoliated graphite nanoplatelets for pollutant reduction rate on wood panel. Journal of Composite Materials, 2013, 47, 1039-1044.	1.2	1
157	Performance Evaluation of Infrared Bake-Out for Reducing VOCs and Formaldehyde Emission in MDF Panels. BioResources, 2015, 11, .	0.5	1
158	Polymer Composites for Passive Control System of Buildings. International Journal of Polymer Science, 2017, 2017, 1-1.	1.2	1
159	Application of Plywood with Water-Based Phenol-Formaldehyde Resin Impregnated Linerboards as Formwork for Concrete Structure. Journal of Adhesion Science and Technology, 2011, 25, 169-178.	1.4	0
160	Smart heat storage building material development with Loess and SSPCM for building energy saving. IOP Conference Series: Materials Science and Engineering, 2019, 609, 062017.	0.3	0
161	Manufacture of optimized PCM within thermal comfort range to improve building energy performance. IOP Conference Series: Materials Science and Engineering, 2019, 609, 042019.	0.3	0
162	Dynamic heat transfer analysis on hwangtoh with PCM/eco-material for improving thermal inertia. IOP Conference Series: Materials Science and Engineering, 2019, 609, 062019.	0.3	0

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163	A field study on the indoor air quality of wooden welfare facilities in Korea. IOP Conference Series: Materials Science and Engineering, 2019, 609, 042020.	0.3	0
164	Simulation-based analysis of optimized PCM to improve building energy performance and indoor thermal environment. IOP Conference Series: Materials Science and Engineering, 2019, 609, 042056.	0.3	0
165	Simulation analysis of Macro-Packed Phase Change Materials (MPPCM) to reduce building energy use. IOP Conference Series: Materials Science and Engineering, 2019, 609, 042058.	0.3	0
166	Development and performance evaluation of natural building materials with pyrolyzed agricultural by-products for carbon reduction and energy saving. IOP Conference Series: Materials Science and Engineering, 0, 609, 062018.	0.3	0
167	Reflectivity Data Generation from Digital Elevation Model and Bistatic SAR Image Synthesis. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2022, 33, 244-252.	0.0	0