

Sumin Kim

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

166

papers

5,373

citations

40

h-index

66

g-index

169

ext. papers

6,059

ext. citations

5.4

avg, IF

6.28

L-index

#	Paper	IF	Citations
166	High latent heat storage and high thermal conductive phase change materials using exfoliated graphite nanoplatelets. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 136-142	6.4	355
165	The effect of types of maleic anhydride-grafted polypropylene (MAPP) on the interfacial adhesion properties of bio-flour-filled polypropylene composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007 , 38, 1473-1482	8.4	299
164	Thermal properties of bio-flour-filled polyolefin composites with different compatibilizing agent type and content. <i>Thermochimica Acta</i> , 2006 , 451, 181-188	2.9	234
163	Effect of different compatibilizing agents on the mechanical properties of lignocellulosic material filled polyethylene bio-composites. <i>Composite Structures</i> , 2007 , 79, 369-375	5.3	155
162	Preparation of energy efficient paraffinic PCMs/expanded vermiculite and perlite composites for energy saving in buildings. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 137, 107-112	6.4	127
161	Environment-friendly adhesives for surface bonding of wood-based flooring using natural tannin to reduce formaldehyde and TVOC emission. <i>Bioresource Technology</i> , 2009 , 100, 744-8	11	124
160	Bio-based PCM/carbon nanomaterials composites with enhanced thermal conductivity. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 549-554	6.4	118
159	Application of PCM thermal energy storage system to reduce building energy consumption. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 111, 279-288	4.1	117
158	Building materials thermal conductivity measurement and correlation with heat flow meter, laser flash analysis and TCi. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 109, 295-300	4.1	103
157	Optimal preparation of PCM/diatomite composites for enhancing thermal properties. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 62, 711-717	4.9	102
156	Comparison of standard methods and gas chromatography method in determination of formaldehyde emission from MDF bonded with formaldehyde-based resins. <i>Bioresource Technology</i> , 2005 , 96, 1457-64	11	92
155	Curing behavior and viscoelastic properties of pine and wattle tannin-based adhesives studied by dynamic mechanical thermal analysis and FT-IR-ATR spectroscopy. <i>Journal of Adhesion Science and Technology</i> , 2003 , 17, 1369-1383	2	86
154	Thermal properties of shape-stabilized phase change materials using fatty acid ester and exfoliated graphite nanoplatelets for saving energy in buildings. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 168-173	6.4	82
153	Effect of addition of polyvinyl acetate to melamine-formaldehyde resin on the adhesion and formaldehyde emission in engineered flooring. <i>International Journal of Adhesion and Adhesives</i> , 2005 , 25, 456-461	3.4	81
152	Multifunctional xGnP/LLDPE Nanocomposites Prepared by Solution Compounding Using Various Screw Rotating Systems. <i>Macromolecular Materials and Engineering</i> , 2009 , 294, 196-205	3.9	79
151	Improvement of the thermal properties of Bio-based PCM using exfoliated graphite nanoplatelets. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 117, 87-92	6.4	75
150	High thermal performance composite PCMs loading xGnP for application to building using radiant floor heating system. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 101, 51-56	6.4	73

149	Chemical retreating for gel-typed aerogel and insulation performance of cement containing aerogel. <i>Construction and Building Materials</i> , 2013 , 40, 501-505	6.7	71
148	Properties of lignocellulosic material filled polypropylene bio-composites made with different manufacturing processes. <i>Polymer Testing</i> , 2006 , 25, 668-676	4.5	71
147	Thermal stability and dynamic mechanical behavior of exfoliated graphite nanoplatelets-LLDPE nanocomposites. <i>Polymer Composites</i> , 2010 , 31, 755-761	3	70
146	Preparation and evaluation of thermal enhanced silica fume by incorporating organic PCM, for application to concrete. <i>Energy and Buildings</i> , 2013 , 62, 190-195	7	67
145	Determination of formaldehyde and TVOC emission factor from wood-based composites by small chamber method. <i>Polymer Testing</i> , 2006 , 25, 605-614	4.5	67
144	Energy efficient Bio-based PCM with silica fume composites to apply in concrete for energy saving in buildings. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 430-434	6.4	65
143	Comparison of formaldehyde emission from building finishing materials at various temperatures in under heating system; ONDOL. <i>Indoor Air</i> , 2005 , 15, 317-25	5.4	64
142	Energy efficient thermal storage montmorillonite with phase change material containing exfoliated graphite nanoplatelets. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 139, 65-70	6.4	61
141	Improvement of electric conductivity of LLDPE based nanocomposite by paraffin coating on exfoliated graphite nanoplatelets. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010 , 41, 581-587	8.4	61
140	Performance evaluation of the microencapsulated PCM for wood-based flooring application. <i>Energy Conversion and Management</i> , 2012 , 64, 516-521	10.6	60
139	A review of functional sorbents for adsorptive removal of arsenic ions in aqueous systems. <i>Journal of Hazardous Materials</i> , 2020 , 388, 121815	12.8	58
138	Thermal performance evaluation of Bio-based shape stabilized PCM with boron nitride for energy saving. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 71, 245-250	4.9	54
137	Comparison of Exfoliated Graphite Nanoplatelets (xGnP) and CNTs for Reinforcement of EVA Nanocomposites Fabricated by Solution Compounding Method and Three Screw Rotating Systems. <i>Journal of Adhesion Science and Technology</i> , 2009 , 23, 1623-1638	2	53
136	Thermal characteristics of mortar containing hexadecane/xGnP SSPCM and energy storage behaviors of envelopes integrated with enhanced heat storage composites for energy efficient buildings. <i>Energy and Buildings</i> , 2014 , 70, 472-479	7	50
135	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 metal-organic framework. <i>Chemical Engineering Journal</i> , 2020 , 389, 124430	14.7	49
134	Evaluation of PCM/diatomite composites using exfoliated graphite nanoplatelets (xGnP) to improve thermal properties. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 114, 689-698	4.1	49
133	Formaldehyde and TVOC emission behaviors according to finishing treatment with surface materials using 20 L chamber and FLEC. <i>Journal of Hazardous Materials</i> , 2010 , 177, 90-4	12.8	46
132	Effect of Bio-Scavengers on the Curing Behavior and Bonding Properties of Melamine-Formaldehyde Resins. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 1027-1034	3.9	46

131	The reduction of indoor air pollutant from wood-based composite by adding pozzolan for building materials. <i>Construction and Building Materials</i> , 2009 , 23, 2319-2323	6.7	41
130	Control of formaldehyde and TVOC emission from wood-based flooring composites at various manufacturing processes by surface finishing. <i>Journal of Hazardous Materials</i> , 2010 , 176, 14-9	12.8	41
129	Anti-bacterial performance of colloidal silver-treated laminate wood flooring. <i>International Biodeterioration and Biodegradation</i> , 2006 , 57, 155-162	4.8	41
128	Thermal performance enhancement of mortar mixed with octadecane/xGnP SSPCM to save building energy consumption. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 122, 257-263	6.4	40
127	Evaluating the flammability of wood-based panels and gypsum particleboard using a cone calorimeter. <i>Construction and Building Materials</i> , 2011 , 25, 3044-3050	6.7	40
126	TVOC and formaldehyde emission behaviors from flooring materials bonded with environmental-friendly MF/PVAc hybrid resins. <i>Indoor Air</i> , 2007 , 17, 404-15	5.4	40
125	Estimating the fire behavior of wood flooring using a cone calorimeter. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 110, 677-683	4.1	39
124	Comparative analysis of the PCM application according to the building type as retrofit system. <i>Building and Environment</i> , 2019 , 151, 291-302	6.5	36
123	Emission behavior of formaldehyde and TVOC from engineered flooring in under heating and air circulation systems. <i>Building and Environment</i> , 2010 , 45, 1826-1833	6.5	36
122	Hygrothermal performance improvement of the Korean wood frame walls using macro-packed phase change materials (MPPCM). <i>Applied Thermal Engineering</i> , 2017 , 114, 457-465	5.8	35
121	Thermal stability and viscoelastic properties of MF/PVAc hybrid resins on the adhesion for engineered flooring in under heating system; ONDOL. <i>Thermochimica Acta</i> , 2006 , 444, 134-140	2.9	35
120	Latent heat storage biocomposites of phase change material-biochar as feasible eco-friendly building materials. <i>Environmental Research</i> , 2019 , 172, 637-648	7.9	34
119	Biochar-red clay composites for energy efficiency as eco-friendly building materials: Thermal and mechanical performance. <i>Journal of Hazardous Materials</i> , 2019 , 373, 844-855	12.8	34
118	Application of recycled paper sludge and biomass materials in manufacture of green composite pallet. <i>Resources, Conservation and Recycling</i> , 2009 , 53, 674-679	11.9	34
117	Integrated analysis of the energy and economic efficiency of PCM as an indoor decoration element: Application to an apartment building. <i>Solar Energy</i> , 2020 , 196, 437-447	6.8	34
116	An experimental study on applying organic PCMs to gypsum-cement board for improving thermal performance of buildings in different climates. <i>Energy and Buildings</i> , 2019 , 190, 183-194	7	32
115	Formaldehyde and TVOC emission behavior of laminate flooring by structure of laminate flooring and heating condition. <i>Journal of Hazardous Materials</i> , 2011 , 187, 44-51	12.8	32
114	The reduction of formaldehyde and VOCs emission from wood-based flooring by green adhesive using cashew nut shell liquid (CNSL). <i>Journal of Hazardous Materials</i> , 2010 , 182, 919-22	12.8	32

113	Characterization of biocomposite using coconut oil impregnated biochar as latent heat storage insulation. <i>Chemosphere</i> , 2019 , 236, 124269	8.4	31
112	Thermal performance of organic PCMs/micronized silica composite for latent heat thermal energy storage. <i>Energy and Buildings</i> , 2014 , 70, 180-185	7	31
111	Improvement of thermal inertia effect in buildings using shape stabilized PCM wallboard based on the enthalpy-temperature function. <i>Sustainable Cities and Society</i> , 2020 , 56, 102067	10.1	30
110	Study of miscibility of melamine-formaldehyde resin and poly(vinyl acetate) blends for use as adhesives in engineered flooring. <i>Journal of Adhesion Science and Technology</i> , 2006 , 20, 209-219	2	29
109	Thermal performance analysis according to wood flooring structure for energy conservation in radiant floor heating systems. <i>Energy and Buildings</i> , 2011 , 43, 2039-2042	7	28
108	Physico-mechanical properties of particleboards bonded with pine and wattle tannin-based adhesives. <i>Journal of Adhesion Science and Technology</i> , 2003 , 17, 1863-1875	2	28
107	Development of thermal enhanced n-octadecane/porous nano carbon-based materials using 3-step filtered vacuum impregnation method. <i>Thermochimica Acta</i> , 2017 , 655, 194-201	2.9	27
106	Analysis of walls of functional gypsum board added with porous material and phase change material to improve hygrothermal performance. <i>Energy and Buildings</i> , 2019 , 183, 803-816	7	27
105	Climatic cycling assessment of red clay/perlite and vermiculite composite PCM for improving thermal inertia in buildings. <i>Building and Environment</i> , 2020 , 167, 106464	6.5	26
104	Effect of PCM cool roof system on the reduction in urban heat island phenomenon. <i>Building and Environment</i> , 2017 , 122, 411-421	6.5	25
103	Optimization of phase change materials to improve energy performance within thermal comfort range in the South Korean climate. <i>Energy and Buildings</i> , 2019 , 185, 12-25	7	25
102	Thermal performance evaluation of macro-packed phase change materials (PCMs) using heat transfer analysis device. <i>Energy and Buildings</i> , 2016 , 117, 120-127	7	24
101	Energy efficient concrete with n-octadecane/xGnP SSPCM for energy conservation in infrastructure. <i>Construction and Building Materials</i> , 2016 , 106, 543-549	6.7	24
100	Spent coffee grounds as supporting materials to produce bio-composite PCM with natural waxes. <i>Chemosphere</i> , 2019 , 235, 626-635	8.4	24
99	Test methods and reduction of organic pollutant compound emissions from wood-based building and furniture materials. <i>Bioresource Technology</i> , 2010 , 101, 6562-8	11	24
98	Evaluation of energy efficient hybrid hollow plaster panel using phase change material/xGnP composites. <i>Applied Energy</i> , 2017 , 205, 1548-1559	10.7	23
97	Hygrothermal behavior evaluation of walls improving heat and moisture performance on gypsum boards by adding porous materials. <i>Energy and Buildings</i> , 2018 , 165, 431-439	7	22
96	Evaluation of formaldehyde and VOCs emission factors from paints in a small chamber: the effects of preconditioning time and coating weight. <i>Journal of Hazardous Materials</i> , 2011 , 187, 52-7	12.8	22

95	Thermal analysis study of viscoelastic properties and activation energy of melamine-modified urea-formaldehyde resins. <i>Journal of Adhesion Science and Technology</i> , 2006 , 20, 803-816	2	22
94	Thermal Performance Evaluation of Fatty Acid Ester and Paraffin Based Mixed SSPCMs Using Exfoliated Graphite Nanoplatelets (xGnP). <i>Applied Sciences (Switzerland)</i> , 2016 , 6, 106	2.6	22
93	Data-driven approach to prediction of residential energy consumption at urban scales in London. <i>Energy</i> , 2019 , 187, 115973	7.9	21
92	Incombustibility, physico-mechanical properties and TVOC emission behavior of the gypsum hick husk boards for wall and ceiling materials for construction. <i>Industrial Crops and Products</i> , 2009 , 29, 381-387	5.9	21
91	Reduction of VOC emission from natural flours filled biodegradable bio-composites for automobile interior. <i>Journal of Hazardous Materials</i> , 2011 , 187, 37-43	12.8	21
90	Effect of grafting of acrylic acid onto PET film surfaces by UV irradiation on the adhesion of PSAs. <i>Journal of Adhesion Science and Technology</i> , 2006 , 20, 1357-1365	2	21
89	Thermal bridging analysis of connections in cross-laminated timber buildings based on ISO 10211. <i>Construction and Building Materials</i> , 2019 , 213, 709-722	6.7	20
88	Design and analysis of phase change material based floor heating system for thermal energy storage. <i>Environmental Research</i> , 2019 , 173, 480-488	7.9	20
87	Investigation on thermal and mechanical characteristics of concrete mixed with shape stabilized phase change material for mix design. <i>Construction and Building Materials</i> , 2017 , 149, 749-762	6.7	20
86	Fast curing PF resin mixed with various resins and accelerators for building composite materials. <i>Construction and Building Materials</i> , 2008 , 22, 2141-2146	6.7	20
85	Thermal transfer behavior of biochar-natural inorganic clay composite for building envelope insulation. <i>Construction and Building Materials</i> , 2019 , 223, 668-678	6.7	19
84	W-Band MIMO FMCW Radar System With Simultaneous Transmission of Orthogonal Waveforms for High-Resolution Imaging. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 1-14	4.1	19
83	Fabrication of stable electrospun TiO ₂ nanorods for high-performance dye-sensitized solar cells. <i>Macromolecular Research</i> , 2013 , 21, 636-640	1.9	18
82	Evaluation of VOC Emissions from Building Finishing Materials Using a Small Chamber and VOC Analyser. <i>Indoor and Built Environment</i> , 2006 , 15, 511-523	1.8	18
81	Energy performance evaluation of heat-storage gypsum board with hybrid SSPCM composite. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 51, 237-243	6.3	17
80	Evaluation and analysis of volatile organic compounds and formaldehyde emission of building products in accordance with legal standards: A statistical experimental study. <i>Journal of Hazardous Materials</i> , 2020 , 393, 122381	12.8	17
79	Development of heat storage gypsum board with paraffin-based mixed SSPCM for application to buildings. <i>Journal of Adhesion Science and Technology</i> , 2017 , 31, 297-309	2	17
78	Improvement of window thermal performance using aerogel insulation film for building energy saving. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 116, 219-224	4.1	17

77	The effects of edge sealing treatment applied to wood-based composites on formaldehyde emission by desiccator test method. <i>Polymer Testing</i> , 2006 , 25, 904-911	4.5	17
76	Probe tack of tackified acrylic emulsion PSAs. <i>International Journal of Adhesion and Adhesives</i> , 2007 , 27, 102-107	3.4	16
75	Moisture risk assessment of cross-laminated timber walls: Perspectives on climate conditions and water vapor resistance performance of building materials. <i>Building and Environment</i> , 2020 , 168, 106502	6.5	16
74	Thermal and characteristic analysis of shape-stabilization phase change materials by advanced vacuum impregnation method using carbon-based materials. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 70, 281-289	6.3	16
73	Enhancing the flame-retardant performance of wood-based materials using carbon-based materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 123, 1935-1942	4.1	15
72	Thermal performance enhancement of a phase change material with expanded graphite via ultrasonication. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 79, 437-442	6.3	14
71	The determination of the adsorption performance of graphite for VOCs and formaldehyde. <i>Energy and Buildings</i> , 2012 , 46, 56-61	7	14
70	Preparation of epoxy resin using n-hexadecane based shape stabilized PCM for applying wood-based flooring. <i>Journal of Adhesion Science and Technology</i> , 2014 , 28, 711-721	2	14
69	Development of a test method using a VOC analyzer to measure VOC emission from adhesives for building materials. <i>Journal of Adhesion Science and Technology</i> , 2006 , 20, 1783-1799	2	14
68	Numerical analysis of hygrothermal properties and behavior of Korean based cross-laminated timber (CLT) wall system to deduce optimal assemblies. <i>Journal of Cleaner Production</i> , 2019 , 213, 1217-1227	10.3	14
67	Novel proposal to overcome insulation limitations due to nonlinear structures using 3D printing: Hybrid heat-storage system. <i>Energy and Buildings</i> , 2019 , 197, 177-187	7	13
66	Development and evaluation of gypsum/shape-stabilization phase change materials using large-capacity vacuum impregnator for thermal energy storage. <i>Applied Energy</i> , 2019 , 241, 278-290	10.7	13
65	Development of wood-lime boards as building materials improving thermal and moisture performance based on hygrothermal behavior evaluation. <i>Construction and Building Materials</i> , 2019 , 204, 576-585	6.7	12
64	Development and performance evaluation of heat storage paint with MPCM for applying roof materials as basic research. <i>Energy and Buildings</i> , 2016 , 112, 62-68	7	12
63	Enhancement of the thermal conductivity of adhesives for wood flooring using xGnP. <i>Energy and Buildings</i> , 2012 , 51, 153-156	7	12
62	Assessment of recycled ceramic-based inorganic insulation for improving energy efficiency and flame retardancy of buildings. <i>Environment International</i> , 2019 , 130, 104900	12.9	11
61	Hygrothermal properties analysis of cross-laminated timber wall with internal and external insulation systems. <i>Journal of Cleaner Production</i> , 2019 , 231, 1353-1363	10.3	11
60	Effects of natural-resource-based scavengers on the adhesion properties and formaldehyde emission of engineered flooring. <i>Journal of Adhesion Science and Technology</i> , 2007 , 21, 211-225	2	11

59	Field study on the improvement of indoor air quality with toluene adsorption finishing materials in an urban residential apartment. <i>Environmental Pollution</i> , 2020 , 261, 114137	9.3	10
58	Hygrothermal Performance of Exterior wall Structures Using a Heat, Air and Moisture Modeling. <i>Energy Procedia</i> , 2015 , 78, 3434-3439	2.3	10
57	Miscibility and Phase Morphology of MF/PVAc Hybrid Resins for Surface Bonding of Building Interior Materials. <i>Macromolecular Materials and Engineering</i> , 2007 , 292, 339-346	3.9	10
56	Analysis of energy retrofit system using latent heat storage materials applied to residential buildings considering climate impacts. <i>Applied Thermal Engineering</i> , 2020 , 169, 114904	5.8	10
55	Analysis on phase transition range of the pure and mixed phase change materials (PCM) using a thermostatic chamber test and differentiation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 131, 1999-2004	4.1	10
54	Field study on indoor air quality of wood remodeled welfare facilities for physical and psychological benefits. <i>Journal of Cleaner Production</i> , 2019 , 233, 197-208	10.3	9
53	Physico-Mechanical Properties, Odor and VOC Emission of Bio-Flour-Filled Poly(propylene) Bio-Composites with Different Volcanic Pozzolan Contents. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 1255-1264	3.9	9
52	Thermal Performance of Wooden Building Envelope by Thermal Conductivity of Structural Members. <i>Journal of the Korean Wood Science and Technology</i> , 2013 , 41, 515-527	2	9
51	Numerical analysis of phase change materials/wood-plastic composite roof module system for improving thermal performance. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 82, 413-423	6.3	9
50	Development of vacuum impregnation equipment and preparation of mass/uniform shape-stabilized phase change materials. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 132, 817-824	4.9	9
49	Thermal performance evaluation of Hwangtoh board developed with styrene butadiene latex/SSPCM. <i>Construction and Building Materials</i> , 2019 , 200, 310-317	6.7	8
48	Comparison of thermal transfer characteristics of wood flooring according to the installation method. <i>Energy and Buildings</i> , 2014 , 70, 422-426	7	8
47	Energy-Efficient Heat Storage using Gypsum Board with Fatty Acid Ester as Layered Phase Change Material. <i>Energy Technology</i> , 2017 , 5, 1392-1398	3.5	7
46	W-Band FMCW MIMO Radar System for High-Resolution Multimode Imaging With Time- and Frequency-Division Multiplexing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 5042-5057	8.7	7
45	Energy retrofit analysis of cross-laminated timber residential buildings in Seoul, Korea: Insights from a case study of packages. <i>Energy and Buildings</i> , 2019 , 202, 109329	7	7
44	Characteristics of a Reddish Residual Soil (Hwangtoh) finishing material with water-soluble adhesive for residential building. <i>Construction and Building Materials</i> , 2010 , 24, 1542-1546	6.7	7
43	Viscoelastic properties and peel strength of water-borne acrylic PSAs for labels. <i>Journal of Adhesion Science and Technology</i> , 2007 , 21, 109-123	2	7
42	Formaldehyde emissions from particle board made with phenol-urea-formaldehyde resin prepared by different synthesis methods. <i>Journal of Adhesion Science and Technology</i> , 2015 , 29, 2090-2103	2	6

41	Characteristics of Particleboards Using Tannin Resin as Novel Environment-Friendly Adhesion System. <i>Indoor and Built Environment</i> , 2013 , 22, 61-67	1.8	6
40	Performance evaluation of macro-packed fatty acid ester composites using energy-efficient thermal storage systems. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 55, 215-223	6.3	6
39	Thermal Extractor Analysis of VOCs Emitted from Building Materials and Evaluation of the Reduction Performance of Exfoliated Graphite Nanoplatelets. <i>Indoor and Built Environment</i> , 2013 , 22, 68-76	1.8	6
38	Observation and analysis of gypsum particleboard using SEM. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2007 , 22, 44-47	1	6
37	Enhanced Interfacial Adhesion of Bioflour-Filled Poly(propylene) Biocomposites by Electron-Beam Irradiation. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 762-772	3.9	6
36	Initial tack and viscoelastic properties of MF/PVAc hybrid resins used as adhesives for composite flooring materials. <i>Journal of Adhesion Science and Technology</i> , 2006 , 20, 705-722	2	6
35	Evaluation of The Hygrothermal Performance by Wall Layer Component of Wooden Houses Using WUFI Simulation Program. <i>Journal of the Korean Wood Science and Technology</i> , 2016 , 44, 75-84	2	6
34	Multichannel W-Band SAR System on a Multirotor UAV Platform With Real-Time Data Transmission Capabilities. <i>IEEE Access</i> , 2020 , 8, 144413-144431	3.5	6
33	Thermal performance analysis of phase change materials composed of double layers considering heating and cooling period. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 72, 255-264	6.3	6
32	Prediction evaluating of moisture problems in light-weight wood structure: Perspectives on regional climates and building materials. <i>Building and Environment</i> , 2020 , 168, 106521	6.5	5
31	Framework for developing a building material property database using web crawling to improve the applicability of energy simulation tools. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 121, 109665	16.2	5
30	Dynamic heat transfer and thermal performance evaluation of PCM-doped hybrid hollow plaster panels for buildings. <i>Journal of Hazardous Materials</i> , 2019 , 374, 428-436	12.8	4
29	Empirical Validation of Heat Transfer Performance Simulation of Graphite/PCM Concrete Materials for Thermally Activated Building System. <i>International Journal of Polymer Science</i> , 2017 , 2017, 1-9	2.4	4
28	Thermal Storage Effect Analysis of Floor Heating Systems Using Latent Heat Storage Sheets. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019 , 6, 799-807	3.8	4
27	Evaluation of the Adsorption Performance and Sustainability of Exfoliated Graphite Nanoplatelets (xGnP) for VOCs. <i>Materials</i> , 2015 , 8, 7615-7621	3.5	4
26	Measurements of formaldehyde and TVOC emission from paints and coating materials using small chamber method for building composites. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012 , 27, 120-125	1	4
25	Effect of surface laminate type on the emission of volatile organic compounds from wood-based composite panels. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 620-631	2	4
24	Physico-Mechanical Properties and the TVOC Emission Factor of Gypsum Particleboards Manufactured with Pinus Massoniana and Eucalyptus Sp.. <i>Macromolecular Materials and Engineering</i> , 2007 , 292, 1256-1262	3.9	4

23	Development of the Thermal Performance of Wood-Flooring by Improving the Thermal Conductivity of Plywood. <i>Journal of Biobased Materials and Bioenergy</i> , 2014 , 8, 170-174	1.4	4
22	Analysis of Hygrothermal Performance of Wood Frame Walls according to Position of Insulation and Climate Conditions. <i>Journal of the Korean Wood Science and Technology</i> , 2016 , 44, 264-273	2	4
21	Forward-Looking Electromagnetic Wave Imaging Using a Radial Scanning Multichannel Radar. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 1-5	4.1	4
20	Comparison of Hygrothermal Performance between Wood and Concrete Wall Structures using Simulation Program. <i>Journal of the Korean Wood Science and Technology</i> , 2016 , 44, 283-293	2	3
19	Analysis of Hygrothermal Performance for Standard Wood-frame Structures in Korea. <i>Journal of the Korean Wood Science and Technology</i> , 2016 , 44, 440-448	2	3
18	Evaluation and Analysis of The Building Energy Saving Performance by Component of Wood Products Using EnergyPlus. <i>Journal of the Korean Wood Science and Technology</i> , 2016 , 44, 655-663	2	3
17	Heating and Cooling Energy Demand Evaluating of Standard Houses According to Layer Component of Masonry, Concrete and Wood Frame Using PHPP. <i>Journal of the Korean Wood Science and Technology</i> , 2017 , 45, 1-11	2	3
16	Control of emission rates of chemical compounds emitted by controlling their mass transfer coefficients on the surface of the tested building material. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 610-619	2	2
15	Evaluation of Toluene Adsorption Performance of Mortar Adhesives Using Porous Carbon Material as Adsorbent. <i>Materials</i> , 2017 , 10,	3.5	2
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