

Hyun-Joong 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.

116 papers	2,003 citations	24 h-index	39 g-index
123 ext. papers	2,422 ext. citations	3.7 avg, IF	5.23 L-index

#	Paper	IF	Citations
116	Fabrication of long and discontinuous natural fiber reinforced polypropylene biocomposites and their mechanical properties. <i>Fibers and Polymers</i> , 2009 , 10, 83-90	2	154
115	Biodegradability and mechanical properties of agro-flour filled polybutylene succinate biocomposites. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 1513-1521	2.9	148
114	Hydrothermal carbonization of lignocellulosic biomass for carbon rich material preparation: A review. <i>Biomass and Bioenergy</i> , 2019 , 130, 105384	5.3	103
113	Facile synthesis of silver nanoparticles and its antibacterial activity against Escherichia coli and unknown bacteria on mobile phone touch surfaces/computer keyboards. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	93
112	Fabrication and evaluation of bacterial cellulose-polyaniline composites by interfacial polymerization. <i>Cellulose</i> , 2012 , 19, 1251-1258	5.5	63
111	Effect of duration of sonication during gelatinization on properties of tapioca starch water hyacinth fiber biocomposite. <i>International Journal of Biological Macromolecules</i> , 2018 , 108, 167-176	7.9	61
110	Thermal and mechanical properties of cassava and pineapple flours-filled PLA bio-composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 108, 1131-1139	4.1	60
109	The curing performance of UV-curable semi-interpenetrating polymer network structured acrylic pressure-sensitive adhesives. <i>Journal of Adhesion Science and Technology</i> , 2007 , 21, 575-588	2	54
108	The Improvement of Mechanical Properties, Thermal Stability, and Water Absorption Resistance of an Eco-Friendly PLA/Kenaf Biocomposite Using Acetylation. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 376	2.6	49
107	Enhanced interfacial adhesion, mechanical, and thermal properties of natural flour-filled biodegradable polymer bio-composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 104, 331-338	4.1	48
106	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
105	Adhesion performance of UV-cured semi-IPN structure acrylic pressure sensitive adhesives. <i>Journal of Adhesion Science and Technology</i> , 2006 , 20, 1573-1594	2	45
104	Development and Application of Green Composites: Using Coffee Ground and Bamboo Flour. <i>Journal of Polymers and the Environment</i> , 2013 , 21, 702-709	4.5	44
103	Characterization of Tapioca Starch Biopolymer Composites Reinforced with Micro Scale Water Hyacinth Fibers. <i>Starch/Staerke</i> , 2018 , 70, 1700287	2.3	43
102	Effect of crosslinking density on adhesion performance and flexibility properties of acrylic pressure sensitive adhesives for flexible display applications. <i>International Journal of Adhesion and Adhesives</i> , 2017 , 74, 137-143	3.4	40
101	Effect of vibration duration of high ultrasound applied to bio-composite while gelatinized on its properties. <i>Ultrasonics Sonochemistry</i> , 2018 , 40, 697-702	8.9	40
100	Synthesis of carbohydrate biomass-based furanic compounds bearing epoxide end group(s) and evaluation of their feasibility as adhesives. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 2127-2138	2.7	33

99	Miscibility and performance evaluation of natural-flour-filled PP/PBS and PP/PLA bio-composites. <i>Fibers and Polymers</i> , 2013 , 14, 793-803	2	32
98	Flexible conductive nanocellulose combined with silicon nanoparticles and polyaniline. <i>Carbohydrate Polymers</i> , 2016 , 140, 43-50	10.3	27
97	Optical properties and UV-curing behaviors of optically clear PSA-TiO ₂ nano-composites. <i>International Journal of Adhesion and Adhesives</i> , 2013 , 44, 200-208	3.4	27
96	Optical properties and UV-curing behaviors of optically clear semi-interpenetrated structured acrylic pressure sensitive adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2012 , 38, 5-10	3.4	27
95	Preparation of SIS/SBS-based UV-cross-linkable pressure-sensitive adhesives using the thiol-ene reaction. <i>Journal of Adhesion Science and Technology</i> , 2007 , 21, 589-603	2	27
94	Synthesis and characteristics of photoactive-hydrogenated rosin epoxy methacrylate for pressure sensitive adhesives. <i>Journal of Applied Polymer Science</i> , 2009 , 111, 1172-1176	2.9	26
93	Characterization of an acrylic polymer under hygrothermal aging as an optically clear adhesive for touch screen panels. <i>International Journal of Adhesion and Adhesives</i> , 2015 , 63, 137-144	3.4	24
92	Influence of the zeolite type on the mechanical, thermal properties and volatile organic compound emissions of natural-flour-filled polypropylene hybrid composites. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 3247-3255	2.9	24
91	Viscoelastic and thermal analysis of lignocellulosic material filled polypropylene bio-composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 98, 553-558	4.1	23
90	Adhesion performance and surface characteristics of low surface energy psas fluorinated by UV polymerization. <i>Polymer Engineering and Science</i> , 2013 , 53, 1968-1978	2.3	21
89	Molecular weight and crosslinking on the adhesion performance and flexibility of acrylic PSAs. <i>Journal of Adhesion Science and Technology</i> , 2016 , 30, 2316-2328	2	21
88	Optical properties and adhesion performance of optically clear acrylic pressure sensitive adhesives using chelate metal acetylacetonate. <i>International Journal of Adhesion and Adhesives</i> , 2013 , 47, 21-25	3.4	19
87	Adhesion Performance and Microscope Morphology of UV-Curable Semi-interpenetrated Dicing Acrylic PSAs in Si-Wafer Manufacture Process for MCP. <i>Journal of Adhesion Science and Technology</i> , 2012 , 26, 317-329	2	18
86	Kinetic and mechanical properties of dual curable adhesives for display bonding process. <i>International Journal of Adhesion and Adhesives</i> , 2016 , 70, 249-259	3.4	18
85	Clay-organic intumescent hybrid system for the synergetic flammability of polymer nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 132, 2009-2014	4.1	17
84	Curing Behavior and Adhesion Performance of UV-Curable Styrene-Isoprene-Styrene-Based Pressure-Sensitive Adhesives. <i>Journal of Adhesion Science and Technology</i> , 2008 , 22, 1401-1423	2	15
83	Coating performance and characteristics for UV-curable aliphatic urethane acrylate coatings containing norrish type I photoinitiators 2006 , 3, 221-229		15
82	Phenyl silane treatment and carding process to improve the mechanical, thermal, and water-absorption properties of regenerated cellulose lyocell/poly(lactic acid) bio-composites. <i>Composites Part B: Engineering</i> , 2019 , 167, 387-395	10	14

81	Enhanced optical properties and thermal stability of optically clear adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2014 , 50, 93-95	3.4	14
80	Preparation and properties of cellulose-based nano composites of clay and polypropylene. <i>Journal of Applied Polymer Science</i> , 2012 , 125, E651	2.9	14
79	Clay-polystyrene nanocomposite from pickering emulsion polymerization stabilized by vinylsilane-functionalized montmorillonite platelets. <i>Applied Clay Science</i> , 2019 , 182, 105288	5.2	13
78	Enhanced Surface Properties of Carbon Fiber Reinforced Plastic by Epoxy Modified Primer with Plasma for Automotive Applications. <i>Polymers</i> , 2020 , 12,	4.5	13
77	Characterization of an acrylic pressure-sensitive adhesive blended with hydrophilic monomer exposed to hygrothermal aging: Assigning cloud point resistance as an optically clear adhesive for a touch screen panel. <i>Reactive and Functional Polymers</i> , 2016 , 100, 130-141	4.6	13
76	3D Printing of Polyethylene Terephthalate Glycol-Sepiolite Composites with Nanoscale Orientation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23453-23463	9.5	12
75	Novel Jute/Polycardanol Biocomposites: Effect of Fiber Surface Treatment on Their Properties. <i>Composite Interfaces</i> , 2009 , 16, 781-795	2.3	12
74	Optimization of Recovery and Relaxation of Acrylic Pressure-Sensitive Adhesives by Using UV Patterning for Flexible Displays. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 4331-4340	3.9	12
73	Mechanical, Optical, Thermal, and Barrier Properties of Poly (Lactic Acid)/Curcumin Composite Films Prepared Using Twin-Screw Extruder. <i>Food Biophysics</i> , 2019 , 14, 22-29	3.2	12
72	Morphological study and mechanical property of epoxy-foam adhesives based on epoxy composites for automotive applications. <i>International Journal of Adhesion and Adhesives</i> , 2018 , 87, 124-129	3.4	12
71	Influence of electron beam treatment of jute on the thermal properties of random and two-directional jute/poly(lactic acid) green composites. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 1359-1373	2	11
70	Synthesis and characterization of carbon microspheres from rubber wood by hydrothermal carbonization. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1374-1383	3.5	11
69	Resistance to Cleavage of Core?Shell Rubber/Epoxy Composite Foam Adhesive under Impact Wedge?Peel Condition for Automobile Structural Adhesive. <i>Polymers</i> , 2019 , 11,	4.5	10
68	MechanicalThermal Properties and VOC Emissions of Natural-Flour-Filled Biodegradable Polymer Hybrid Bio-Composites. <i>Journal of Polymers and the Environment</i> , 2011 , 19, 628-636	4.5	10
67	Adhesion Performance and UV-Curing Behaviors of Interpenetrated Structured Pressure Sensitive Adhesives with 3-MPTS for Si-Wafer Dicing Process. <i>Journal of Adhesion Science and Technology</i> , 2012 , 26, 1629-1643	2	10
66	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
65	Preparation of EVA/Intumescent/Nano-Clay Composite with Flame Retardant Properties and Cross Laminated Timber (CLT) Application Technology. <i>Journal of the Korean Wood Science and Technology</i> , 2018 , 46, 73-84	2	10
64	Adhesion performance and recovery of acrylic pressure-sensitive adhesives thermally crosslinked with styreneisoprenestyrene elastomer blends for flexible display applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 78, 461-467	6.3	9

63	Evaluation of UV Curing Properties of Mixture Systems with Differently Sized Monomers. <i>Materials</i> , 2018 , 11,	3.5	9
62	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
61	Synthesis of phosphorus-containing polyol and its effects on impact resistance and flame retardancy of structural epoxy adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2020 , 100, 102601	3.4	8
60	Surface Treatment and Characterization of Natural Fibers: Effects on the Properties of Biocomposites 2013 , 133-177		8
59	Relationship between curing activation energy and free formaldehyde content in urea-formaldehyde resins. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 598-609	2	8
58	Curing behavior of polycardanol by MEKP and cobalt naphthenate using differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010 , 99, 277-284	4.1	8
57	Mechanical properties and decomposition performance of peelable coating containing UiO-66 catalyst and waterborne silane-terminated polyurethane dispersions. <i>Journal of Materials Science</i> , 2020 , 55, 2604-2617	4.3	8
56	Characterization and flexibility properties of UV LED cured acrylic pressure-sensitive adhesives for flexible displays. <i>Journal of Materials Research and Technology</i> , 2021 , 10, 1176-1183	5.5	8
55	Mechanical Strength Enhancement of Polylactic Acid Hybrid Composites. <i>Polymers</i> , 2019 , 11,	4.5	7
54	The effect of laser irradiation on peel strength of temporary adhesives for wafer bonding. <i>International Journal of Adhesion and Adhesives</i> , 2015 , 57, 9-12	3.4	7
53	Synthesis of micro carbonaceous material by pyrolysis of rubber wood and its effect on properties of urea-formaldehyde (UF) resin. <i>International Journal of Adhesion and Adhesives</i> , 2020 , 99, 102589	3.4	7
52	Synthesis of elastomeric polyester and physical properties of polyester coating for automotive pre-primed system. <i>Progress in Organic Coatings</i> , 2012 , 75, 65-71	4.8	7
51	Curing Behaviors of UV-Curable Temporary Adhesives for a 3D Multichip Package Process. <i>Journal of Electronic Materials</i> , 2014 , 43, 4246-4254	1.9	7
50	Adhesion Performance and Thermal Stability of Fluorinated PSAs as a Crosslinking System. <i>Journal of Adhesion Science and Technology</i> , 2012 , 26, 361-379	2	7
49	Fabrication of optically clear acrylic pressure-sensitive adhesive by photo-polymerization: UV-curing behavior, adhesion performance, and optical properties. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 2177-2190	2	7
48	Use of starch granules melting to control the properties of bio-flour filled polypropylene and poly(butylene succinate) composites: Mechanical properties. <i>Starch/Staerke</i> , 2011 , 63, 637-648	2.3	7
47	FT-IR studies on the curing behavior of polycardanol from naturally renewable resources. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 2774-2778	2.9	7
46	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

45	Preparation of acrylic pressure-sensitive adhesives by UV/UV step curing as a way of lifting the limitations of conventional dual curing techniques. <i>International Journal of Adhesion and Adhesives</i> , 2020 , 96, 102445	3.4	7
44	Adhesion performance and recovery of platinum catalyzed silicone PSAs under various temperature conditions for flexible display applications. <i>Materials Letters</i> , 2017 , 208, 86-88	3.3	6
43	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
42	Synthesis of solvent-free acrylic pressure-sensitive adhesives via visible-light-driven photocatalytic radical polymerization without additives. <i>Green Chemistry</i> , 2020 , 22, 8289-8297	10	6
41	Curing Behavior and Viscoelasticity of Dual-Curable Adhesives Based on High-Reactivity Azo Initiator. <i>Journal of Electronic Materials</i> , 2016 , 45, 3786-3794	1.9	6
40	Shock absorption of semi-interpenetrating network acrylic pressure-sensitive adhesive for mobile display impact resistance. <i>International Journal of Adhesion and Adhesives</i> , 2020 , 99, 102558	3.4	5
39	Evaluation of the Ultraviolet-Curing Kinetics of Ultraviolet-Polymerized Oligomers Cured Using Poly (Ethylene Glycol) Dimethacrylate. <i>Coatings</i> , 2018 , 8, 99	2.9	5
38	Synthesis and characterization of thermally stable acrylic PSA using silicone urethane methacrylate with a semi-IPN structure. <i>Journal of Adhesion Science and Technology</i> , 2014 , 28, 15-30	2	5
37	Adhesion Performance and Recovery of Acrylic PSA with Acrylic Elastomer (AE) Blends via Thermal Crosslinking for Application in Flexible Displays. <i>Polymers</i> , 2019 , 11,	4.5	5
36	Carbonaceous microsphere-based superabsorbent polymer as filler for coating of NPK fertilizer: Fabrication, properties, swelling, and nitrogen release characteristics. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48396	2.9	5
35	Cellulose nanofiber assisted deposition of titanium dioxide on fluorine-doped tin oxide glass. <i>RSC Advances</i> , 2014 , 4, 987-991	3.7	4
34	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
33	Use of starch granules melting to control the properties of bio-flour filled polypropylene and poly(butylene succinate) composites: Physico-chemical properties. <i>Starch/Staerke</i> , 2011 , 63, 649-654	2.3	4
32	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
31	Movable Cross-linking in Adhesives: Superior Stretching and Adhesion Properties via a Supramolecular Sliding Effect. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 2678-2686	4.3	4
30	Mucosal Vaccine Delivery Using Mucoadhesive Polymer Particulate Systems. <i>Tissue Engineering and Regenerative Medicine</i> , 2021 , 18, 693-712	4.5	4
29	Synthesis and properties of flexible polyester with urethane polyol for automotive pre-coated metals. <i>Journal of Adhesion Science and Technology</i> , 2016 , 30, 1537-1554	2	4
28	Visible-Light-Curable Solvent-Free Acrylic Pressure-Sensitive Adhesives via Photoredox-Mediated Radical Polymerization. <i>Molecules</i> , 2021 , 26,	4.8	4

27	Transparent Electromagnetic Shielding Film Utilizing Imprinting-Based Micro Patterning Technology. <i>Polymers</i> , 2021 , 13,	4.5	4
26	Rapid Photoresponsive Switchable Pressure-Sensitive Adhesive Containing Azobenzene for the Mini-Light Emitting Diode Transfer Process. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43364-43373	9.5	4
25	Depth profile of thin coating through surface and interfacial cutting analysis of UV curing system. <i>Materials and Design</i> , 2019 , 178, 107855	8.1	3
24	Synthesis and UV-Curing Behaviors of Urethane Acrylic Oligomers Modified by the Incorporation of Silicone Diols into the Soft Segments for a 3D Multi-Chip Package Process. <i>Journal of Electronic Materials</i> , 2015 , 44, 2406-2413	1.9	3
23	Applications and Future Scope of Green Composites 2013 , 465-481		3
22	Optical properties and adhesion performance of acrylic PSAs; influence of functionalized monomer and curing agent. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 2265-2277	2	3
21	Evaluation of Mechanical Performance and Flame Retardant Characteristics of Biomass-based EVA Composites using Intumescent Flame Retardant Technology. <i>Journal of the Korean Wood Science and Technology</i> , 2018 , 46, 189-201	2	3
20	Hardness and Abrasion Resistance Characteristics of Poly(ethylene terephthalate) Films without and with Hard and Adhesive Coatings. <i>Macromolecular Research</i> , 2021 , 29, 230-243	1.9	3
19	Evaluation of soft adhesives containing dual-curable melamine-based compounds. <i>International Journal of Adhesion and Adhesives</i> , 2016 , 70, 315-321	3.4	3
18	Mechanical Characterization of Core-Shell Rubber/Epoxy Polymers for Automotive Structural Adhesives as a Function of Operating Temperature. <i>Polymers</i> , 2021 , 13,	4.5	3
17	Effect of side chain on wettability and adhesion performance of acrylic pressure-sensitive adhesives on thin silicon wafer. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 1136-1145	2	2
16	Adhesion properties of eco-friendly PVAc emulsion adhesive using nonphthalate plasticizer. <i>Journal of Adhesion Science and Technology</i> , 2013 , 27, 536-550	2	2
15	Convenient Synthesis of Block Copolymers with Acrylates and PDMS; Application for PSA Polymer with UV Process. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2011 , 24, 549-552	0.7	2
14	The Miscibility of Novel Bisphenol-Propylene Epoxy Resin With Liquid NBR. <i>Journal of Adhesion Science and Technology</i> , 2008 , 22, 1181-1196	2	2
13	Ultraviolet-patterned acrylic pressure-sensitive adhesives for flexible displays. <i>Polymer</i> , 2021 , 124324	3.9	2
12	Fatigue delamination of carbon fiber-reinforced polymer-matrix composites 2019 , 1-28		2
11	Synthesis of urethane-modified aliphatic epoxy using a greenhouse gas for epoxy composites with tunable properties: Toughened polymer, elastomer, and pressure-sensitive adhesive. <i>Composites Part B: Engineering</i> , 2021 , 222, 109058	10	2
10	Thermo-mechanical properties of 3D printed photocurable shape memory resin for clear aligners.. <i>Scientific Reports</i> , 2022 , 12, 6246	4.9	2

9	Physical structure behavior to wettability of electrospun poly(lactic acid)/polysaccharide composite nanofibers. <i>Advanced Composite Materials</i> , 2013 , 22, 401-409	2.8	1
8	Thermal property and flame retardancy comparisons based on particle size and size distribution of clays in ethylene vinyl acetate (EVA) adhesive sheets for cross-laminated timber (CLT). <i>European Journal of Wood and Wood Products</i> , 2020 , 78, 93-105	2.1	1
7	Curing behavior and impact of crosslinking agent variation in stepwise UV/UV cured acrylic pressure-sensitive adhesives. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 1622-1629	5.5	1
6	Flexibility properties of pressure-sensitive adhesive with different pattern of crosslinking density for electronic displays. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 1408-1415	5.5	1
5	Photoresponsive, switchable, pressure-sensitive adhesives: influence of UV intensity and hydrocarbon chain length of low molecular weight azobenzene compounds.. <i>RSC Advances</i> , 2021 , 11, 37392-37402	3.7	0
4	Induced Circular Dichroism of Methylene Blue in Self-Assembled Pullulan Nanoparticles. <i>Macromolecular Research</i> , 2020 , 28, 1198-1203	1.9	0
3	Application of Plywood with Water-Based Phenol-Formaldehyde Resin Impregnated Linerboards as Formwork for Concrete Structure. <i>Journal of Adhesion Science and Technology</i> , 2011 , 25, 169-178	2	
2	Connecting Technology with UV-High Performance and UV-Curable PSA in Electrical/Electronic Industry. <i>Journal of the Adhesion Society of Japan</i> , 2017 , 53, 93-101	0.1	
1	Latent, Cross-Linkable Triazole Platform on a Carbon Fiber Surface for Enhancing Interfacial Cross-Linking within Carbon Fiber/Epoxy Composites.. <i>ACS Omega</i> , 2022 , 7, 12803-12815	3.9	