Joung-Man Park

List of Publications by Year
in descending order

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113 papers	2,943 citations	159585 30 h-index	197818 49 g-index
114 all docs	114 docs citations	114 times ranked	2663 citing authors

#	Article	IF	Citations
1	Interfacial evaluation of modified Jute and Hemp fibers/polypropylene (PP)-maleic anhydride polypropylene copolymers (PP-MAPP) composites using micromechanical technique and nondestructive acoustic emission. Composites Science and Technology, 2006, 66, 2686-2699.	7.8	212
2	Improvement of interfacial adhesion and nondestructive damage evaluation for plasma-treated PBO and Kevlar fibers/epoxy composites using micromechanical techniques and surface wettability. Journal of Colloid and Interface Science, 2003, 264, 431-445.	9.4	158
3	Interfacial evaluation and durability of modified Jute fibers/polypropylene (PP) composites using micromechanical test and acoustic emission. Composites Part B: Engineering, 2008, 39, 1042-1061.	12.0	95
4	Inherent sensing and interfacial evaluation of carbon nanofiber and nanotube/epoxy composites using electrical resistance measurement and micromechanical technique. Composites Part B: Engineering, 2007, 38, 847-861.	12.0	91
5	Effects of carbon nanotubes and carbon fiber reinforcements on thermal conductivity and ablation properties of carbon/phenolic composites. Composites Part B: Engineering, 2014, 67, 22-29.	12.0	90
6	Frost formation and anti-icing performance of a hydrophobic coating on aluminum. Experimental Thermal and Fluid Science, 2015, 60, 132-137.	2.7	89
7	A study of interfacial aspects of epoxy-based composites reinforced with dual basalt and SiC fibres by means of the fragmentation and acoustic emission techniques. Composites Science and Technology, 1999, 59, 355-370.	7.8	86
8	Nondestructive damage sensitivity and reinforcing effect of carbon nanotube/epoxy composites using electro-micromechanical technique. Materials Science and Engineering C, 2003, 23, 971-975.	7.3	86
9	Mechanical and interfacial evaluation of CNT/polypropylene composites and monitoring of damage using electrical resistance measurements. Composites Science and Technology, 2013, 81, 69-75.	7.8	76
10	Interfacial properties and thermal aging of glass fiber/epoxy composites reinforced with SiC and SiO2 nanoparticles. Composites Part B: Engineering, 2017, 130, 46-53.	12.0	68
11	Ablative and mechanical evaluation of CNT/phenolic composites by thermal and microstructural analyses. Composites Part B: Engineering, 2014, 60, 597-602.	12.0	64
12	Electromagnetic interference shielding of composites consisting of a polyester matrix and carbon nanotube-coated fiber reinforcement. Composites Part A: Applied Science and Manufacturing, 2013, 50, 73-80.	7.6	53
13	Interfacial evaluation of single Ramie and Kenaf fiber/epoxy resin composites using micromechanical test and nondestructive acoustic emission. Composite Interfaces, 2006, 13, 105-129.	2.3	51
14	Self-sensing of carbon fiber/carbon nanofiberâ€“epoxy composites with two different nanofiber aspect ratios investigated by electrical resistance and wettability measurements. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1702-1711.	7.6	48
15	Self-sensing and dispersive evaluation of single carbon fiber/carbon nanotube (CNT)-epoxy composites using electro-micromechanical technique and nondestructive acoustic emission. Composites Part B: Engineering, 2008, 39, 1170-1182.	12.0	46
16	Cure monitoring and residual stress sensing of single-carbon fiber reinforced epoxy composites using electrical resistivity measurement. Composites Science and Technology, 2005, 65, 571-580.	7.8	45
17	Interfacial evaluation of carbon fiber/epoxy composites using electrical resistance measurements at room and a cryogenic temperature. Composites Part A: Applied Science and Manufacturing, 2015, 72, 160-166.	7.6	45
18	Interfacial Aspects of Electrodeposited Conductive Fibers/Epoxy Composites using Electro-Micromechanical Technique and Nondestructive Evaluation. Journal of Colloid and Interface Science, 2001, 237, 80-90.	9.4	44

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19	Comparison of interfacial adhesion of hybrid materials of aluminum/carbon fiber reinforced epoxy composites with different surface roughness. Composites Part B: Engineering, 2019, 170, 11-18.	12.0	42
20	Interfacial Aspects of Electrodeposited Carbon Fiber-Reinforced Epoxy Composites Using Monomeric and Polymeric Coupling Agents. Journal of Colloid and Interface Science, 2000, 231, 114-128.	9.4	41
21	Interfacial and hydrophobic evaluation of glass fiber/CNTâ€“epoxy nanocomposites using electro-micromechanical technique and wettability test. Composites Part A: Applied Science and Manufacturing, 2009, 40, 1722-1731.	7.6	41
22	Effect of thermal treatment temperatures on the reinforcing and interfacial properties of recycled carbon fiberâ€“phenolic composites. Composites Part A: Applied Science and Manufacturing, 2013, 47, 156-164.	7.6	41
23	Optimum dispersion conditions and interfacial modification of carbon fiber and CNTâ€“phenolic composites by atmospheric pressure plasma treatment. Composites Part B: Engineering, 2012, 43, 2272-2278.	12.0	40
24	Interfacial evaluation and microfailure mechanisms of single carbon fiber/bismaleimide (BMI) composites by tensile and compressive fragmentation tests and acoustic emission. Composites Science and Technology, 2002, 62, 743-756.	7.8	39
25	Actuation of electrochemical, electro-magnetic, and electro-active actuators for carbon nanofiber and Ni nanowire reinforced polymer composites. Composites Part B: Engineering, 2008, 39, 1161-1169.	12.0	39
26	Interfacial properties and water resistance of epoxy and CNT-epoxy adhesives on GFRP composites. Composites Science and Technology, 2017, 142, 98-106.	7.8	39
27	Nondestructive sensing evaluation of surface modified single-carbon fiber reinforced epoxy composites by electrical resistivity measurement. Composites Part B: Engineering, 2006, 37, 612-626.	12.0	36
28	Interfacial Adhesion and Microfailure Modes of Electrodeposited Carbon Fiber/Epoxyâ€“PEI Composites by Microdroplet and Surface Wettability Tests. Journal of Colloid and Interface Science, 2002, 249, 62-77.	9.4	35
29	Interfacial properties and microfailure degradation mechanisms of bioabsorbable fibers/poly-l-lactide composites using micromechanical test and nondestructive acoustic emission. Composites Science and Technology, 2003, 63, 403-419.	7.8	35
30	The influence of crystallinity on interfacial properties of carbon and SiC two-fiber/polyetheretherketone (PEEK) composites. Polymer Composites, 2000, 21, 789-797.	4.6	32
31	Damage sensing and fracture detection of CNT paste using electrical resistance measurements. Composites Part B: Engineering, 2016, 90, 386-391.	12.0	31
32	Improved interfacial shear strength and durability of single carbon fiber reinforced isotactic polypropylene composites using water-dispersible graft copolymer as a coupling agent. Polymer Composites, 1996, 17, 375-383.	4.6	30
33	Nondestructive evaluation of interfacial damage properties for plasma-treated biodegradable poly(p-dioxanone) fiber/poly(l-lactide) composites by micromechanical test and surface wettability. Composites Science and Technology, 2004, 64, 847-860.	7.8	30
34	Review of self-sensing of damage and interfacial evaluation using electrical resistance measurements in nano/micro carbon materials-reinforced composites. Advanced Composite Materials, 2015, 24, 197-219.	1.9	30
35	Evaluation of dispersion and damage sensing of carbon fiber/polypropylene (PP)-polyamide (PA) composites using 2 dimensional electrical resistance mapping. Composites Part A: Applied Science and Manufacturing, 2016, 90, 417-423.	7.6	30
36	Interfacial durability and electrical properties of CNT or ITO/PVDF nanocomposites for self-sensor and micro actuator applications. Applied Surface Science, 2013, 287, 75-83.	6.1	29

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37	Interfacial evaluation of electrodeposited single carbon fiber/epoxy composites by fiber fracture source location using fragmentation test and acoustic emission. Composites Science and Technology, 2004, 64, 983-999.	7.8	28
38	Optimum mixing ratio of epoxy for glass fiber reinforced composites with high thermal stability. Composites Part B: Engineering, 2015, 79, 132-137.	12.0	27
39	Detection of damage in cylindrical parts of carbon fiber/epoxy composites using electrical resistance (ER) measurements. Composites Part B: Engineering, 2016, 99, 528-532.	12.0	26
40	Interfacial properties of glass fiber/brittle-ductile dual-matrix composites using micromechanical techniques and acoustic emission. Polymer Composites, 1999, 20, 19-28.	4.6	25
41	Comparison of nondestructive microfailure evaluation of fiber-optic Bragg grating and acoustic emission piezoelectric sensors using fragmentation test. Composites Part A: Applied Science and Manufacturing, 2003, 34, 203-216.	7.6	24
42	Self-sensing and interfacial evaluation of Ni nanowire/polymer composites using electro-micromechanical technique. Composites Science and Technology, 2007, 67, 2121-2134.	7.8	24
43	Interfacial properties of two SiC fiber-reinforced polycarbonate composites using the fragmentation test and acoustic emission. Polymer Composites, 1998, 19, 747-758.	4.6	23
44	A new method of evaluating the interfacial properties of composites by means of the gradual multi-fiber fragmentation test. Composites Science and Technology, 2000, 60, 439-450.	7.8	23
45	Comparison of Interfacial Properties of Electrodeposited Single Carbon Fiber/Epoxy Composites Using Tensile and Compressive Fragmentation Tests and Acoustic Emission. Journal of Colloid and Interface Science, 2002, 247, 231-245.	9.4	23
46	Interfacial evaluation and self-sensing on residual stress and microfailure of toughened carbon fiber/epoxy-amine terminated (AT)-polyetherimide (PEI) composites. Composites Part B: Engineering, 2007, 38, 833-846.	12.0	23
47	The evaluation of the interfacial and flame retardant properties of glass fiber/unsaturated polyester composites with ammonium dihydrogen phosphate. Composites Part B: Engineering, 2019, 167, 221-230.	12.0	22
48	Thermal transfer, interfacial, and mechanical properties of carbon fiber/polycarbonate-CNT composites using infrared thermography. Polymer Testing, 2020, 81, 106247.	4.8	22
49	Interfacial Properties of Two-Carbon Fiber Reinforced Polycarbonate Composites Using Two-Synthesized Graft Copolymers as Coupling Agents. Journal of Colloid and Interface Science, 2000, 225, 384-393.	9.4	21
50	Interfacial, fire retardancy, and thermal stability evaluation of graphite oxide (GO)-phenolic composites with different GO particle sizes. Composites Part B: Engineering, 2013, 53, 290-296.	12.0	21
51	Optimized epoxy foam interface of CFRP/Epoxy Foam/CFRP sandwich composites for improving compressive and impact properties. Journal of Materials Research and Technology, 2021, 11, 62-71.	5.8	21
52	Damage sensing, mechanical and interfacial properties of resins suitable for new CFRP rope for elevator applications. Composites Part B: Engineering, 2019, 157, 259-265.	12.0	20
53	Electrical properties of transparent CNT and ITO coatings on PET substrate including nano-structural aspects. Solid-State Electronics, 2013, 79, 147-151.	1.4	19
54	Reinforcing effects of glass fiber/p-DCPD with fiber concentrations, types, lengths and surface treatment. Composites Part B: Engineering, 2017, 123, 74-80.	12.0	19

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55	Interfacial properties and permeability of three patterned glass fiber/epoxy composites by VARTM. Composites Part B: Engineering, 2018, 148, 61-67.	12.0	19
56	Investigation of Interfacial and Mechanical Properties of Various Thermally-Recycled Carbon Fibers/Recycled PET Composites. Fibers and Polymers, 2018, 19, 1767-1775.	2.1	18
57	Evaluation of interfacial properties of atmospheric pressure plasma-treated CNT-phenolic composites by dual matrix fragmentation and acoustic emission tests. Composites Part A: Applied Science and Manufacturing, 2013, 52, 151-158.	7.6	17
58	Interfacial and mechanical properties of epoxy composites containing carbon nanotubes grafted with alkyl chains of different length. Composites Part A: Applied Science and Manufacturing, 2016, 82, 190-197.	7.6	17
59	The change in mechanical and interfacial properties of GF and CF reinforced epoxy composites after aging in NaCl solution. Composites Science and Technology, 2016, 122, 59-66.	7.8	17
60	Interfacial and wetting properties between glass fiber and epoxy resins with different pot lifes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 544, 68-77.	4.7	16
61	Load transfer from fiber to polymer matrix, studied by measuring the apparent elastic modulus of carbon fiber embedded in epoxy. Composite Interfaces, 2001, 8, 435-441.	2.3	15
62	Interfacial properties and self-sensing of single carbon fiber reinforced CNT-phenolic nanocomposites using electro-micromechanical and wettability tests. Composites Part B: Engineering, 2012, 43, 1171-1177.	12.0	15
63	Characterization of cure reactions of anhydride/epoxy/polyetherimide blends. Polymer International, 2002, 51, 1353-1360.	3.1	14
64	Inherent and interfacial evaluations of carbon nanotubes/epoxy composites and single carbon fiber at different temperatures. Composites Part B: Engineering, 2016, 91, 111-118.	12.0	14
65	Mechanical and electrical properties of electrospun CNT/PVDF nanofiber for micro-actuator applications. Advanced Composite Materials, 2016, 25, 305-316.	1.9	14
66	Evaluation of interfacial and mechanical properties of glass fiber and p-DCPD composites with surface treatment of glass fiber. Composites Part B: Engineering, 2018, 153, 420-428.	12.0	14
67	Mechanical properties of norbornene-based silane treated glass fiber reinforced polydicyclopentadiene composites manufactured by the S-RIM process. E-Polymers, 2017, 17, 159-166.	3.0	13
68	Interfacial durability and acoustical properties of transparent graphene nano platelets/poly (vinylidene fluoride) composite actuators. Thin Solid Films, 2013, 539, 350-355.	1.8	12
69	New method for interfacial evaluation of carbon fiber/thermosetting composites by wetting and electrical resistance measurements. Journal of Adhesion Science and Technology, 2014, 28, 1677-1686.	2.6	12
70	Comparison of mechanical and interfacial properties of kenaf fiber before and after rice-washed water treatment. Composites Part B: Engineering, 2015, 83, 21-26.	12.0	12
71	Modeling of Multi-Autocatalytic Cure Reactions of An Epoxy/Amine Terminated Polyetherimide/NMA System. Polymer Bulletin, 2003, 51, 167-174.	3.3	11
72	Surface control and cryogenic durability of transparent CNT coatings on dip-coated glass substrates. Journal of Colloid and Interface Science, 2012, 386, 415-420.	9.4	11

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73	Interfacial Evaluation and Self-Sensing of Single Micro-Carbon Fiber/CNFâ€“Brittle-Cement Composites using Electro-Micromechanical Tests and Acoustic Emission. Advanced Composite Materials, 2011, 20, 149-168.	1.9	10
74	Improvement in mechanical properties of recycled GF prepreg with CNT reinforced composites using a spray coating method. Advanced Composite Materials, 2016, 25, 515-524.	1.9	10
75	New evaluation of interfacial properties and damage sensing in CFRC by VARTM using 3D ER mapping. Composites Part B: Engineering, 2018, 155, 178-186.	12.0	10
76	Evaluation of thermally-aged carbon fiber/epoxy composites using acoustic emission, electrical resistance and thermogram. Composite Structures, 2018, 196, 21-29.	5.8	10
77	Evaluation of dispersion of MWCNT/cellulose composites sheet using electrical resistance 3D-mapping for strain sensing. Functional Composites and Structures, 2020, 2, 025004.	3.4	10
78	Dispersion and Related Properties of Acid-Treated Carbon Nanotube/Epoxy Composites using Electro-Micromechanical, Surface Wetting and Single Carbon Fiber Sensor Tests. Advanced Composite Materials, 2011, 20, 337-360.	1.9	9
79	Interfacial and wetting properties of carbon fiber reinforced epoxy composites with different hardeners by electrical resistance measurement. Polymer Testing, 2016, 53, 293-298.	4.8	9
80	Evaluation of optimal dispersion conditions for CNT reinforced epoxy composites using cyclic voltammetry measurements. Advanced Composite Materials, 2017, 26, 219-227.	1.9	9
81	2D electrical resistance (ER) mapping to Detect damage for carbon fiber reinforced polyamide composites under tensile and flexure loading. Composites Science and Technology, 2021, 201, 108480.	7.8	9
82	To improve interfacial and mechanical properties of carbon fiberâ€“modified nano-SiCâ€“epoxy composites using dispersion and wetting control. Advanced Composite Materials, 2015, 24, 1-12.	1.9	8
83	Advanced interfacial properties of glass fiber/dopamine-epoxy composites using a microdroplet pull-out test and acoustic emission. Journal of Adhesion, 2021, 97, 438-455.	3.0	8
84	Evaluation of interfacial properties and microfailure mechanisms in single fiberâ€reinforced epoxy composites at low temperature. Polymer Composites, 2012, 33, 147-157.	4.6	7
85	A new strategy of carbon fiber reinforced plastic drilling evaluation using thermal measurement. Journal of Composite Materials, 2013, 47, 2005-2011.	2.4	7
86	A Review: Mechanical and Interfacial Properties of Composites after Diverse Types of Aging Using Micromechanical Evaluation. Fibers and Polymers, 2020, 21, 225-237.	2.1	7
87	Improvement of Mechanical and Interfacial Properties of Carbon Fiber/Epoxy Composites by Adding Nano SiC Fillers. Adhesion and Interface, 2013, 14, 75-81.	0.3	7
88	Improvement of interlaminar properties of carbon fiber-reinforced epoxy composites using aluminum trihydroxide. Carbon Letters, 2019, 29, 183-191.	5.9	6
89	Interfacial and Microfailure Evaluation of Modified Single Fiberâ€“Brittle Cement Matrix Composites Using an Electro-Micromechanical Technique and Acoustic Emission. Journal of Colloid and Interface Science, 2001, 244, 410-422.	9.4	5
90	Evaluation of Interfacial and Mechanical Properties of Glass Fiber/Poly-Dicyclopentadiene Composites with Different Post Curing at Ambient and Low Temperatures. Fibers and Polymers, 2018, 19, 1989-1996.	2.1	5

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91	New evaluation of interfacial and mechanical properties of thermally- treated Pine/CFRP composites using electrical resistance measurement. Composites Part B: Engineering, 2018, 151, 139-147.	12.0	5
92	Interfacial and Mechanical Properties of Carbon Fiber Reinforced Polycarbonate (PC) Film and PC Fiber Impregnated Composites. Fibers and Polymers, 2019, 20, 2400-2406.	2.1	5
93	Novel method of electrical resistance measurement in structural composite materials for interfacial and dispersion evaluation with nano- and hetero-structures. Materials Research Society Symposia Proceedings, 2014, 1700, 37-46.	0.1	4
94	Preparation and Characterization of Electrospun Poly(ethylene oxide) (PEO) Nanofibers-reinforced Epoxy Matrix Composites. Materials Research Society Symposia Proceedings, 2004, 851, 29.	0.1	3
95	Evaluation of surface roughness and frost retardancy of a glass fiber/unsaturated polyester composite. International Journal of Heat and Mass Transfer, 2019, 130, 282-289.	4.8	3
96	Prediction Method of Dispersion Condition for Reinforced Epoxy in Nano SiC Particles Using Capacitance Measurement. Composites Research, 2013, 26, 337-342.	0.1	3
97	Interfacial adhesion evaluation via wettability for fiber reinforced polymer composites: A review. Composite Interfaces, 2023, 30, 283-299.	2.3	3
98	Stress and Cure Sensing of Single-Shape Memory Alloy (SMA) Fiber/Epoxy Composites using Electro-micromechanical Technique. Advanced Composite Materials, 2010, 19, 139-155.	1.9	2
99	Evaluation of interfacial, dispersion, and thermal properties of carbon Fiber/ABC added epoxy composites manufactured by VARTM and RFI methods. Composites Part A: Applied Science and Manufacturing, 2021, 151, 106660.	7.6	2
100	Prediction of Wetting and Interfacial Property of CNT Reinforced Epoxy on CF Tow Using Electrical Resistance Method. Composites Research, 2015, 28, 232-238.	0.1	2
101	Interfacial Durability and Electrical Properties of CNT or ITO/PVDF Nanocomposites for Self-Sensor and Micro Actuator. Journal of the Korean Society for Composite Materials, 2011, 24, 12-17.	0.3	2
102	Interfacial, electrical, and mechanical properties of MWCNT in polyurethane nanocomposite coating via 2D electrical resistance mapping for aircraft topcoat. Progress in Organic Coatings, 2022, 163, 106667.	3.9	2
103	Nondestructive Damage Sensitivity and Reinforcing Effect of Functionalized Carbon Nanotube and Nanofiber/Epoxy Composites Using Electro-Micromechanical Techniques. Materials Research Society Symposia Proceedings, 2004, 851, 200.	0.1	1
104	Evaluation of thermally-aged carbon fiber/epoxy composites using acoustic emission, electrical resistance, contact angle and thermogram. , 2018, , .		1
105	Dispersive Evaluation and Self-Sensing of Single Carbon Fiber/CNT-Epoxy Composites using Electro-Micromechanical Techniques. Materials Research Society Symposia Proceedings, 2008, 1075, 1.	0.1	0
106	Optoelectronic and Interfacial Properties of CNT and ITO on Borosilicate Glass and PET Substrates with Nano- and Hetero-structural Aspects. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	0
107	Evaluation of surface control and durability of carbon nanotube and indium tin oxide coated polyethylene terephthalate transparent electrodes under different drying conditions. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2012, 11, 023010-1.	0.9	0
108	Innovation of Pencil Lead Drawn Paper Sensors (PLDPS) Using Electrical Resistance (ER) Measurement: I. Optimal Conditions of Interfacial, Mechanical, and Sensing Properties. Fibers and Polymers, 2020, 21, 1560-1565.	2.1	0

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109	Innovation of Pencil Lead Drawn Paper Sensors (PLDPS) Using Electrical Resistance (ER) Measurement: II. Load, Micro-Damage, and Thermal Sensing on Composites by PLDPS. Fibers and Polymers, 2020, 21, 1566-1572.	2.1	0
110	Stretchable calix[4] areneâ€based gels by induction of water. Journal of Applied Polymer Science, 2021, 138, 51235.	2.6	0
111	Optimum Mixing Ratio of Epoxy for Glass Fiber Reinforced Composites with High Thermal Stability. Composites Research, 2014, 27, 168-173.	0.1	0
112	Innovative Ru Catalyst Adopting for Improving Interfacial and Mechanical Properties on CF Fabric Reinforced ENB Composites. Fibers and Polymers, 0, , .	2.1	0
113	Innovative wicking and interfacial evaluation of carbon fiber (CF)/Epoxy composites by CF tow capillary glass tube method (TCGTM) with Tripe-CF fragmentation test. Composites Science and Technology, 2022, 225, 109495.	7.8	0