

Young Song

List of Publications by Year in descending order

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81
papers

1,018
citations

394421

19
h-index

526287

27
g-index

81
all docs

81
docs citations

81
times ranked

1109
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement in thermo-electric energy harvesting efficiency by embedding <sc>PDMS</sc> in form-stable <sc>PCM</sc> composites. <i>Polymers for Advanced Technologies</i> , 2022, 33, 700-709.	3.2	13
2	Enhanced energy harvesting in a bio-photovoltaic cell by integrating silver nanoparticles. <i>Journal of the Korean Physical Society</i> , 2022, 80, 420-426.	0.7	3
3	Advanced internal porous skeleton supported phase change materials for thermo-electric energy conversion applications. <i>Journal of Polymer Research</i> , 2022, 29, 1.	2.4	9
4	Modification of Graphene Aerogel Embedded Form-Stable Phase Change Materials for High Energy Harvesting Efficiency. <i>Macromolecular Research</i> , 2022, 30, 198-204.	2.4	17
5	Analysis of poly(dioxanone) foam prepared using salt leaching method. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	1
6	Effects of humidity and temperature on hydrolytic degradation of polydioxanone. <i>Polymer Engineering and Science</i> , 2022, 62, 2070-2078.	3.1	4
7	Preparation and analysis of biodegradable polydioxanone/chitosan film. <i>Journal of Polymer Research</i> , 2022, 29, .	2.4	0
8	Carbon nanofluid flow based biophotovoltaic cell. <i>Nano Energy</i> , 2021, 81, 105624.	16.0	12
9	Characterization of hybrid composites reinforced with metal and ceramic nanoparticles. <i>Polymer Composites</i> , 2021, 42, 2317-2323.	4.6	1
10	Enhancement in Surface Property via In-Mold Coating Process. <i>Macromolecular Research</i> , 2021, 29, 185-190.	2.4	5
11	Enhancement of Surface Hardness and Glossiness of Polymer Composites Filled with Reclaimed Marble Waste Powder by Ion Beam Irradiation. <i>Fibers and Polymers</i> , 2021, 22, 1754-1760.	2.1	2
12	Reversible thermo-electric energy harvesting with phase change material (PCM) composites. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	14
13	Enhancement of Thermo-Electric Energy Conversion Using Graphene Nano-platelets Embedded Phase Change Material. <i>Macromolecular Research</i> , 2021, 29, 534-542.	2.4	11
14	Analysis of Thermoelectric Energy Harvesting with Graphene Aerogel-Supported Form-Stable Phase Change Materials. <i>Nanomaterials</i> , 2021, 11, 2192.	4.1	20
15	Optorheological Characteristics of Photosynthetic Bacterium Suspension. <i>Langmuir</i> , 2021, 37, 10979-10986.	3.5	0
16	Enhancement of Structural Stability of Graphene Aerogel for Thermal Energy Harvesting. <i>ACS Applied Energy Materials</i> , 2021, 4, 11666-11674.	5.1	26
17	Moldability improvement in microinjection molding via film lamination. <i>Polymers and Polymer Composites</i> , 2021, 29, S99-S105.	1.9	0
18	Shape memory polymer composites embedded with hybrid ceramic microparticles. <i>Smart Materials and Structures</i> , 2020, 29, 055037.	3.5	13

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19	Eco-Friendly Nanocellulose Embedded Polymer Composite Foam for Flame Retardancy Improvement. <i>Macromolecular Research</i> , 2020, 28, 165-171.	2.4	6
20	Improved performance of carbon nanotubes embedded photomicrobial solar cell. <i>Nanotechnology</i> , 2020, 31, 115401.	2.6	7
21	Effective Dispensing Methods for Loading Drugs Only to the Tip of DNA Microneedles. <i>Pharmaceutics</i> , 2020, 12, 954.	4.5	6
22	Laminar flow manipulators. <i>Extreme Mechanics Letters</i> , 2020, 40, 100908.	4.1	9
23	Fabrication and Characterization of Aluminum Nanoparticle-Reinforced Composites. <i>Polymers</i> , 2020, 12, 2772.	4.5	4
24	A Broadband Multiplex Living Solar Cell. <i>Nano Letters</i> , 2020, 20, 4286-4291.	9.1	17
25	Fabrication and Analysis of Long Fiber Reinforced Polypropylene Prepared via Injection Molding. <i>Macromolecular Research</i> , 2020, 28, 714-720.	2.4	4
26	Tunable Electrical Resistivity of Carbon Nanotube Filled Phase Change Material Via Solid-solid Phase Transitions. <i>Fibers and Polymers</i> , 2020, 21, 24-32.	2.1	24
27	Hydrodynamic Metamaterial Cloak for Drag-Free Flow. <i>Physical Review Letters</i> , 2019, 123, 074502.	7.8	84
28	Carbon Nanotubes Embedded Shape Memory Polyurethane Foams. <i>Macromolecular Research</i> , 2019, 27, 919-925.	2.4	9
29	Three-dimensional numerical simulation for resin transfer molding of automotive wheel. <i>Korea Australia Rheology Journal</i> , 2019, 31, 141-147.	1.7	4
30	Autonomous cell sorting using self-secreted macromolecules. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	3
31	Double-line particle focusing induced by negative normal stress difference in a microfluidic channel. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	3
32	Micro-injection molding using a polymer coated mold. <i>Microsystem Technologies</i> , 2019, 25, 4011-4017.	2.0	8
33	Characterization of a Photosynthesis-based Bioelectrochemical Film Fabricated with a Carbon Nanotube Hydrogel. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 337-342.	2.6	11
34	Multiple Energy Harvesting Based on Reversed Temperature Difference Between Graphene Aerogel Filled Phase Change Materials. <i>Macromolecular Research</i> , 2019, 27, 606-613.	2.4	25
35	Permeability analysis of non-crimp fabrics for resin transfer molding. <i>Polymers and Polymer Composites</i> , 2019, 27, 429-439.	1.9	1
36	Encapsulated Phase Change Material Embedded by Graphene Powders for Smart and Flexible Thermal Response. <i>Fibers and Polymers</i> , 2019, 20, 545-554.	2.1	26

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37	Enhanced impact strength of injection-compression molded parts by controlling residual stress distribution. Korea Australia Rheology Journal, 2019, 31, 35-39.	1.7	2
38	Injection Molding of Carbon Fiber Composite Automotive Wheel. Fibers and Polymers, 2019, 20, 2665-2671.	2.1	9
39	Fluid-Flow Rotator Based on Hydrodynamic Metamaterial. Physical Review Applied, 2019, 12, .	3.8	37
40	Flame Retardant Composite Foam Modified by Silylated Nanocellulose and Tris(2-chloropropyl) Phosphate. Fibers and Polymers, 2019, 20, 2280-2288.	2.1	10
41	Analysis of in-mold coating process and ion beam irradiation. Progress in Organic Coatings, 2019, 126, 28-34.	3.9	3
42	Smart Noise Control Using Shape Memory Sound Absorber. Advanced Materials Technologies, 2019, 4, 1800410.	5.8	9
43	Rheological Analysis of Live and Dead Microalgae Suspensions. Journal of the Korean Physical Society, 2018, 72, 858-862.	0.7	2
44	Flow-induced deformation of unidirectional carbon fiber preform during the mold filling stage in liquid composite molding process. Journal of Composite Materials, 2018, 52, 1265-1277.	2.4	9
45	Surface analysis of curved polymeric plates irradiated with proton and ion beams. RSC Advances, 2018, 8, 34895-34902.	3.6	0
46	Enhanced Plasmonic Particle Trapping Using a Hybrid Structure of Nanoparticles and Nanorods. ACS Applied Materials & Interfaces, 2018, 10, 41655-41663.	8.0	5
47	Injection molded mechanoluminescent polymer composites. Composites Science and Technology, 2018, 168, 224-229.	7.8	3
48	Application of injection-compression molding to thin-walled polymeric parts. Korea Australia Rheology Journal, 2018, 30, 161-167.	1.7	8
49	Hardness Enhancement of and an Organic-Inorganic Hybrid Film by Using Nitrogen Ion-Beam Irradiation. Journal of the Korean Physical Society, 2018, 72, 906-910.	0.7	1
50	Multiple-Line Particle Focusing under Viscoelastic Flow in a Microfluidic Device. Analytical Chemistry, 2017, 89, 3639-3647.	6.5	40
51	Microfluidic Electrochemical Impedance Spectroscopy of Carbon Composite Nanofluids. Scientific Reports, 2017, 7, 722.	3.3	8
52	Transformation of amorphous to crystallized carbon. Applied Physics Letters, 2017, 110, 143104.	3.3	5
53	Surface strengthening of injection molded parts by applying a thermal insulation film. RSC Advances, 2017, 7, 14302-14308.	3.6	12
54	Sustainable antireflection using recoverable nanopattern arrays. Journal of Materials Chemistry C, 2017, 5, 10600-10608.	5.5	13

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55	Carbon Nanotube Embedded Nanostructure for Biometrics. ACS Applied Materials & Interfaces, 2017, 9, 44724-44731.	8.0	9
56	Modeling of rheological behavior for polymer nanocomposites via Brownian dynamic simulation. Korea Australia Rheology Journal, 2016, 28, 381-388.	1.7	1
57	Viscoelastic characteristics of all cellulose suspension and nanocomposite. Carbohydrate Polymers, 2016, 151, 119-129.	10.2	18
58	Cellulose nanocrystal-embedded triacetate cellulose composite films. Polymer Composites, 2016, 37, 3228-3233.	4.6	5
59	Two step label free particle separation in a microfluidic system using elasto-inertial focusing and magnetophoresis. RSC Advances, 2016, 6, 32090-32097.	3.6	24
60	Vacuum Nanohole Array Embedded Phosphorescent Organic Light Emitting Diodes. Scientific Reports, 2015, 5, 8685.	3.3	33
61	Effects of fiber length distribution on flow property and internal microstructure of an injection molded part. Macromolecular Research, 2015, 23, 844-849.	2.4	9
62	Agitation Effect on the Rheological Behavior of Lithium-Ion Battery Slurries. Journal of Electronic Materials, 2015, 44, 475-481.	2.2	30
63	Anisotropic optical film embedded with cellulose nanowhisker. Carbohydrate Polymers, 2015, 130, 448-454.	10.2	21
64	Rheological behavior of cellulose nanowhisker suspension under magnetic field. Carbohydrate Polymers, 2015, 126, 240-247.	10.2	24
65	Green nanocomposites filled with spent coffee grounds. Journal of Applied Polymer Science, 2015, 132, .	2.6	36
66	Precise nano-injection molding through local film heating system. RSC Advances, 2015, 5, 99797-99805.	3.6	22
67	Ferrohydrodynamic energy harvesting based on air droplet movement. Nano Energy, 2015, 11, 171-178.	16.0	25
68	Electromagnetic characterization of a computational asymmetric analysis for wireless networks. Microsystem Technologies, 2015, 21, 591-597.	2.0	2
69	Characterization of a single cell of Chlorella in a microfluidic channel using amperometric electrode arrays. Biotechnology Letters, 2014, 36, 2185-2191.	2.2	5
70	Warp analysis of a micro-molded parts prepared with liquid crystalline polymer based composites. Composites Part A: Applied Science and Manufacturing, 2013, 53, 34-45.	7.6	25
71	Evaluation of slurry characteristics for rechargeable lithium-ion batteries. Materials Research Bulletin, 2013, 48, 2922-2926.	5.2	45
72	Electrochemical sensing of high density photosynthetic cells using a microfluidic chip. Sensors and Actuators B: Chemical, 2013, 188, 1300-1305.	7.8	11

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73	Effect of enzyme and ammonia treatments in green composite systems. Journal of Composite Materials, 2013, 47, 3249-3255.	2.4	4
74	Characterization of silica/PET antiglare films using image analysis and dynamic dispersity index. Journal of Applied Polymer Science, 2013, 129, 3518-3526.	2.6	2
75	Cell-encapsulating droplet formation and freezing. Applied Physics Letters, 2012, 101, 133701.	3.3	8
76	Bubble development in a polymeric resin under vacuum. Polymer Engineering and Science, 2012, 52, 1733-1739.	3.1	9
77	Fluid-structure interaction analysis on the film wrinkling problem of a film insert molded part. Polymer Engineering and Science, 2011, 51, 812-818.	3.1	10
78	Relationship between the crystallization behavior and the warpage of film insert molded parts. Journal of Applied Polymer Science, 2011, 120, 1539-1546.	2.6	8
79	Mechanical properties of denim fabric reinforced poly(lactic acid). Fibers and Polymers, 2010, 11, 60-66.	2.1	51
80	Natural Fiber Reinforced PLA Composites. AIP Conference Proceedings, 2010, , .	0.4	1
81	Dispersion phenomena in helical flow in a concentric annulus. Journal of Chemical Physics, 2009, 131, 224108.	3.0	2