

Doo Jin Lee

List of Publications by Year in descending order

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44
papers

1,043
citations

394286

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434063

31
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all docs

44
docs citations

44
times ranked

1339
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Droplet Bouncing and Superhydrophobicity Induced by Multiscale Hierarchical Nanostructures. ACS Nano, 2012, 6, 7656-7664.	7.3	99
2	Multiplex Particle Focusing via Hydrodynamic Force in Viscoelastic Fluids. Scientific Reports, 2013, 3, 3258.	1.6	90
3	Optimization and characterization of high-viscosity ZrO ₂ ceramic nanocomposite resins for supportless stereolithography. Materials and Design, 2019, 180, 107960.	3.3	82
4	Synergistic improvement of flame retardant properties of expandable graphite and multi-walled carbon nanotube reinforced intumescent polyketone nanocomposites. Carbon, 2019, 143, 650-659.	5.4	69
5	Super-insulating, flame-retardant, and flexible poly(dimethylsiloxane) composites based on silica aerogel. Composites Part A: Applied Science and Manufacturing, 2019, 123, 108-113.	3.8	48
6	Multiple-Line Particle Focusing under Viscoelastic Flow in a Microfluidic Device. Analytical Chemistry, 2017, 89, 3639-3647.	3.2	40
7	Enhanced electrical conductivity of polymer nanocomposite based on edge-selectively functionalized graphene nanoplatelets. Composites Science and Technology, 2020, 189, 108001.	3.8	37
8	Micromechanical and dynamic mechanical analyses for characterizing improved interfacial strength of maleic anhydride compatibilized basalt fiber/polypropylene composites. Composite Structures, 2018, 193, 73-79.	3.1	35
9	Analysis of effective elastic modulus for multiphased hybrid composites. Composites Science and Technology, 2012, 72, 278-283.	3.8	30
10	Temperature controlled tensiometry using droplet microfluidics. Lab on A Chip, 2017, 17, 717-726.	3.1	29
11	Dewetting Metal Nanofilms—Effect of Substrate on Refractive Index Sensitivity of Nanoplasmonic Gold. Nanomaterials, 2019, 9, 1530.	1.9	27
12	Warpage analysis of a micro-molded parts prepared with liquid crystalline polymer based composites. Composites Part A: Applied Science and Manufacturing, 2013, 53, 34-45.	3.8	25
13	Ferrohydrodynamic energy harvesting based on air droplet movement. Nano Energy, 2015, 11, 171-178.	8.2	25
14	Revealing the enhanced structural recovery and gelation mechanisms of cation-induced cellulose nanofibrils composite hydrogels. Carbohydrate Polymers, 2021, 272, 118515.	5.1	25
15	Two step label free particle separation in a microfluidic system using elasto-inertial focusing and magnetophoresis. RSC Advances, 2016, 6, 32090-32097.	1.7	24
16	Mechanical, thermomechanical, and local anisotropy analyses of long basalt fiber reinforced polyamide 6 composites. Composite Structures, 2019, 222, 110917.	3.1	24
17	Modeling the effects of elastic modulus and thermal expansion coefficient on the shrinkage of glass fiber reinforced composites. Composites Part B: Engineering, 2018, 146, 98-105.	5.9	23
18	Local anisotropy analysis based on the Mori-Tanaka model for multiphase composites with fiber length and orientation distributions. Composites Part B: Engineering, 2018, 148, 227-234.	5.9	23

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19	Liquid Slip on a Nanostructured Surface. <i>Langmuir</i> , 2012, 28, 10488-10494.	1.6	22
20	Prediction of enhanced interfacial bonding strength for basalt fiber/epoxy composites by micromechanical and thermomechanical analyses. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 142, 106208.	3.8	22
21	Dual-mode refractive index and charge sensing to investigate complex surface chemistry on nanostructures. <i>Nanoscale</i> , 2017, 9, 547-554.	2.8	19
22	Thermomechanical anisotropy and flowability of talc and glass fiber reinforced multiphase polymer composites. <i>Composite Structures</i> , 2017, 174, 329-337.	3.1	18
23	Synergistic improvement of electrical and thermal conductivities of carbon-based nanocomposites and its prediction by Mori-Tanaka scheme with interfacial resistances. <i>Composite Structures</i> , 2019, 211, 56-62.	3.1	18
24	Integrated microfluidic platform for instantaneous flow and localized temperature control. <i>RSC Advances</i> , 2015, 5, 85620-85629.	1.7	15
25	Statistical modeling of effective elastic modulus for multiphased hybrid composites. <i>Polymer Testing</i> , 2015, 41, 99-105.	2.3	15
26	Thermal and electrical properties of SiO ₂ /SiC-epoxy composite by surface oxidation of silicon carbide. <i>Thermochimica Acta</i> , 2017, 654, 70-73.	1.2	15
27	Optimizing the printability and dispersibility of functionalized zirconium oxide/acrylate composites with various nano-to micro-particle ratios. <i>Ceramics International</i> , 2020, 46, 26903-26910.	2.3	15
28	Chain Extension Effects of para-Phenylene Diisocyanate on Crystallization Behavior and Biodegradability of Poly(lactic acid)/Poly(butylene terephthalate) Blends. <i>Advanced Composite Materials</i> , 2010, 19, 331-348.	1.0	13
29	Shape memory polymer composites embedded with hybrid ceramic microparticles. <i>Smart Materials and Structures</i> , 2020, 29, 055037.	1.8	13
30	Development of multicolor 3D-printed 3Y-ZrO ₂ sintered bodies by optimizing rheological properties of UV-curable high-content ceramic nanocomposites. <i>Materials and Design</i> , 2021, 209, 109981.	3.3	13
31	Shape-tunable wax microparticle synthesis via microfluidics and droplet impact. <i>Biomicrofluidics</i> , 2015, 9, 064114.	1.2	10
32	Flame Retardant Composite Foam Modified by Silylated Nanocellulose and Tris(2-chloropropyl) Phosphate. <i>Fibers and Polymers</i> , 2019, 20, 2280-2288.	1.1	10
33	Effects of fiber length distribution on flow property and internal microstructure of an injection molded part. <i>Macromolecular Research</i> , 2015, 23, 844-849.	1.0	9
34	Revealing the flame retardancy mechanism of highly transparent cellulose nanopapers fabricated by vacuum filtration assisted layer-by-layer deposition. <i>Carbohydrate Polymers</i> , 2020, 246, 116628.	5.1	8
35	Designing an interpenetrating network of silane-functionalized nanocomposites for enhanced particle dispersity and interfacial bonding strength. <i>Ceramics International</i> , 2022, 48, 1827-1835.	2.3	8
36	Anomalous water drop bouncing on a nanotextured surface by the Leidenfrost levitation. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	7

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37	Prediction of Defect Formation during Resin Impregnation Process through a Multi-Layered Fiber Preform in Resin Transfer Molding by a Proposed Analytical Model. <i>Materials</i> , 2018, 11, 2055.	1.3	7
38	Micro-Macroscopic coupled modeling for the prediction of synergistic improvement on the thermal conductivity of boron nitride and multi-walled carbon nanotube reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 148, 106474.	3.8	7
39	Eco-Friendly Synthesis of Water-Glass-Based Silica Aerogels via Catechol-Based Modifier. <i>Nanomaterials</i> , 2020, 10, 2406.	1.9	6
40	Investigation on the Mold Compressive Stage of Compression Resin Transfer Molding by Using In-situ Measurement of Permeability Variation of Fiber Preform. <i>Fibers and Polymers</i> , 2019, 20, 651-655.	1.1	5
41	Interfacial Tension Measurements in Microfluidic Quasi-Static Extensional Flows. <i>Micromachines</i> , 2021, 12, 272.	1.4	4
42	Experimental and theoretical investigations of the rheological and electrical behavior of nanocomposites with universal percolation networks. <i>Composites Part B: Engineering</i> , 2021, 225, 109317.	5.9	4
43	Double-line particle focusing induced by negative normal stress difference in a microfluidic channel. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	3
44	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.	1.1	2