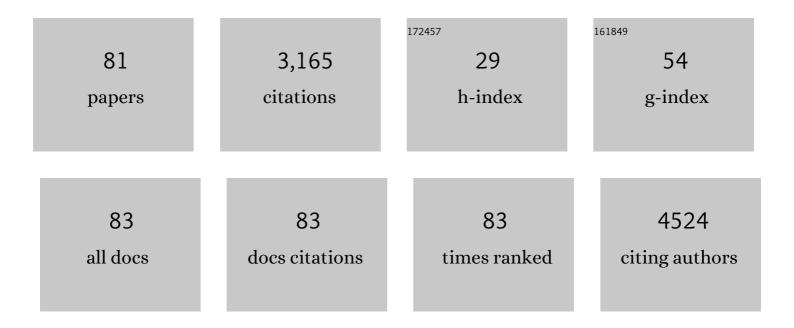
Heon Sang Lee

List of Publications by Year in descending order

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HEON SANCLEE

#	Article	IF	CITATIONS
1	Fingertip skin–inspired microstructured ferroelectric skins discriminate static/dynamic pressure and temperature stimuli. Science Advances, 2015, 1, e1500661.	10.3	704
2	Rheological and electrical properties of polycarbonate/multi-walled carbon nanotube composites. Polymer, 2006, 47, 4434-4439.	3.8	157
3	Transparent and high gas barrier films based on poly(vinyl alcohol)/graphene oxide composites. Thin Solid Films, 2011, 519, 7766-7771.	1.8	138
4	Effects of crystallinity and crosslinking on the thermal and rheological properties of ethylene vinyl acetate copolymer. Polymer, 2005, 46, 11844-11848.	3.8	97
5	Highly bendable bilayer-type photo-actuators comprising of reduced graphene oxide dispersed in hydrogels. Scientific Reports, 2016, 6, 20921.	3.3	92
6	Nitrogen doping effects on the structure behavior and the field emission performance of double-walled carbon nanotubes. Carbon, 2009, 47, 169-177.	10.3	90
7	Dynamic mechanical and morphological properties of polycarbonate/multi-walled carbon nanotube composites. Polymer, 2005, 46, 5656-5661.	3.8	84
8	Rheological properties and interfacial tension of polypropylene–poly(styrene-co-acrylonitrile) blend containing compatibilizer. Polymer, 2003, 44, 1681-1687.	3.8	77
9	Electrically conductive transparent papers using multiwalled carbon nanotubes. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 1235-1242.	2.1	72
10	Electrical, morphological and rheological properties of carbon nanotube composites with polyethylene and poly(phenylene sulfide) by melt mixing. Chemical Engineering Science, 2009, 64, 4649-4656.	3.8	69
11	Persistence Length of Multiwalled Carbon Nanotubes with Static Bending. Journal of Physical Chemistry C, 2007, 111, 18882-18887.	3.1	66
12	Blends of linear and branched polyethylenes. Polymer Engineering and Science, 2000, 40, 1132-1142.	3.1	61
13	Properties of water-blown rigid polyurethane foams with reactivity of raw materials. Journal of Applied Polymer Science, 2004, 93, 2334-2342.	2.6	61
14	Effects of silicone surfactant on the cell size and thermal conductivity of rigid polyurethane foams by environmentally friendly blowing agents. Macromolecular Research, 2009, 17, 44-50.	2.4	60
15	Grafting of Polyimide onto Chemically-Functionalized Graphene Nanosheets for Mechanically-Strong Barrier Membranes. Chemistry of Materials, 2015, 27, 2040-2047.	6.7	60
16	Effect of multi-walled carbon nanotube dispersion on the electrical, morphological and rheological properties of polycarbonate/multi-walled carbon nanotube composites. Macromolecular Research, 2009, 17, 863-869.	2.4	58
17	Energy Efficient Glazing for Adaptive Solar Control Fabricated with Photothermotropic Hydrogels Containing Graphene Oxide. Scientific Reports, 2015, 5, 7646.	3.3	58
18	Synthesis and properties of polyurethane/clay nanocomposite by clay modified with polymeric methane diisocyanate. Journal of Applied Polymer Science, 2006, 101, 2879-2883.	2.6	48

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19	Effects of morphology on the electrical and mechanical properties of the polycarbonate/multi-walled carbon nanotube composites. Macromolecular Research, 2006, 14, 456-460.	2.4	45
20	5-Day repeated inhalation and 28-day post-exposure study of graphene. Nanotoxicology, 2015, 9, 1023-1031.	3.0	44
21	Effects of compatibilizer on mechanical, morphological, and rheological properties of polypropylene/poly(acrylonitrile-butadiene-styrene) blends. Macromolecular Research, 2007, 15, 308-314.	2.4	40
22	Effects of multi-walled carbon nanotube (MWCNT) dispersion and compatibilizer on the electrical and rheological properties of polycarbonate/poly(acrylonitrile–butadiene–styrene)/MWCNT composites. Journal of Materials Science, 2014, 49, 4522-4529.	3.7	40
23	Tailored CVD graphene coating as a transparent and flexible gas barrier. Scientific Reports, 2016, 6, 24143.	3.3	38
24	Pyridine-functionalized graphene/polyimide nanocomposites; mechanical, gas barrier, and catalytic effects. Composites Part B: Engineering, 2017, 114, 280-288.	12.0	37
25	Effects of clay on the morphology of poly(acrylonitrileâ€butadieneâ€styrene) and polypropylene nanocomposites. Polymer Engineering and Science, 2007, 47, 1671-1677.	3.1	36
26	Effects of PP-g-MAH on the Mechanical, morphological and rheological properties of polypropylene and poly(acrylonitrile-butadiene-styrene) blends. Macromolecular Research, 2009, 17, 417-423.	2.4	35
27	Ultrahigh strength, modulus, and conductivity of graphitic fibers by macromolecular coalescence. Science Advances, 2022, 8, eabn0939.	10.3	34
28	Pulmonary Responses of Sprague-Dawley Rats in Single Inhalation Exposure to Graphene Oxide Nanomaterials. BioMed Research International, 2015, 2015, 1-9.	1.9	33
29	Glass transition temperatures and rigid amorphous fraction of poly(ether ether ketone) and poly(ether imide) blends. Polymer, 1997, 38, 2657-2663.	3.8	31
30	Remote control of volume phase transition of hydrogels containing graphene oxide by visible light irradiation. RSC Advances, 2014, 4, 25379-25383.	3.6	30
31	A simple and highly effective process for the purification of single-walled carbon nanotubes synthesized with arc-discharge. Carbon, 2009, 47, 3544-3549.	10.3	28
32	Hierarchical structure control in solution spinning for strong and multifunctional carbon nanotube fibers. Carbon, 2022, 196, 59-69.	10.3	28
33	Theoretical and experimental investigation of the wet-spinning process for mechanically strong carbon nanotube fibers. Chemical Engineering Journal, 2021, 412, 128650.	12.7	27
34	Fabrication of high-quality or highly porous graphene sheets from exfoliated graphene oxide via reactions in alkaline solutions. Carbon, 2018, 138, 219-226.	10.3	26
35	Translational and Rotational Diffusions of Multiwalled Carbon Nanotubes with Static Bending. Journal of Physical Chemistry C, 2008, 112, 10653-10658.	3.1	25
36	A differential pressure extensional rheometer on a chip with fully developed elongational flow. Journal of Rheology, 2017, 61, 1049-1059.	2.6	23

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37	Rheology of a viscoelastic emulsion with a liquid crystalline polymer dispersed phase. Journal of Rheology, 1999, 43, 1583-1598.	2.6	22
38	Steady-state extensional viscosity of a linear polymer solution using a differential pressure extensional rheometer on a chip. Journal of Rheology, 2018, 62, 1261-1270.	2.6	22
39	Water and oxygen permeation through transparent ethylene vinyl alcohol/(graphene oxide) membranes. Carbon Letters, 2014, 15, 50-56.	5.9	21
40	Sustainable production of reduced graphene oxide using elemental sulfur for multifunctional composites. Composites Part B: Engineering, 2019, 176, 107236.	12.0	20
41	Percolation of two-dimensional multiwall carbon nanotube networks. Applied Physics Letters, 2009, 95, 134104.	3.3	19
42	Oscillatory shear induced gelation of graphene–poly(vinyl alcohol) composite hydrogels and rheological premonitor of ultra-light aerogels. Polymer, 2014, 55, 287-294.	3.8	19
43	Lateral diffusion of graphene oxides in water and the size effect on the orientation of dispersions and electrical conductivity. Carbon, 2017, 125, 280-288.	10.3	19
44	The effect of mesoscopic shape on thermal properties of multi-walled carbon nanotube mats. Current Applied Physics, 2011, 11, 1144-1148.	2.4	18
45	Effects of compatibilizers on the mechanical, morphological, and thermal properties of poly(propylene carbonate)/poly(methyl methacrylate) blends. Macromolecular Research, 2013, 21, 1182-1187.	2.4	18
46	Kinetics of hydrazine reduction of thin films of graphene oxide and the determination of activation energy by the measurement of electrical conductivity. RSC Advances, 2015, 5, 102567-102573.	3.6	18
47	Thermal properties in strong hydrogen bonding systems composed of poly(vinyl alcohol), polyethyleneimine, and graphene oxide. Carbon Letters, 2014, 15, 282-289.	5.9	18
48	Methylpiperidine-functionalized graphene oxide for efficient curing acceleration and gas barrier of polymer nanocomposites. Applied Surface Science, 2019, 464, 509-515.	6.1	17
49	Determination of the Flory-Huggins interaction parameter of polystyrene?polybutadiene blends by thermal analysis. Journal of Applied Polymer Science, 1997, 64, 1301-1308.	2.6	16
50	Thermal properties and morphology of blends of poly(ether imide) and polycarbonate. Polymer Engineering and Science, 1996, 36, 2694-2702.	3.1	15
51	Thermal properties of melt-blended poly(ether ether ketone) and poly(ether imide). Journal of Applied Polymer Science, 1999, 72, 733-739.	2.6	15
52	Effects of filler characteristics and processing conditions on the electrical, morphological and rheological properties of PE and PP with conductive filler composites. Macromolecular Research, 2009, 17, 110-115.	2.4	15
53	Negative normal stress differences in graphene/polycarbonate composites. Applied Physics Letters, 2012, 100, .	3.3	14
54	Brush-painted superhydrophobic silica coating layers for self-cleaning solar panels. Journal of Industrial and Engineering Chemistry, 2022, 106, 460-468.	5.8	14

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55	Blends of a thermotropic liquid crystalline polymer and some flexible chain polymers and the determination of the polymer-polymer interaction parameter of the two polymers. Polymer Bulletin, 1998, 41, 387-394.	3.3	13
56	High-Quality Single-Walled Carbon Nanotubes Synthesized by Catalytic Decomposition of Xylene over Feâ	3.1	13
57	Generation and characterization of monodisperse deformable alginate and pNIPAM microparticles with a wide range of shear moduli. Soft Matter, 2017, 13, 5785-5794.	2.7	13
58	The deformation and retraction of thermotropic LCP droplets in a flexible polymer matrix. Journal of Non-Newtonian Fluid Mechanics, 2000, 93, 315-323.	2.4	12
59	Linear Viscoelasticity and the Measurement of Interfacial Tension in a Partially Miscible Polymer Mixture. Macromolecules, 2005, 38, 1196-1200.	4.8	12
60	Determination of molecular weight distribution and composition dependence of monomeric friction factors from the stress relaxation of ultrahigh molecular weight polyethylene gels. Journal of Rheology, 2015, 59, 1173-1189.	2.6	11
61	Elastic particle deformation in rectangular channel flow as a measure of particle stiffness. Soft Matter, 2018, 14, 216-227.	2.7	11
62	Effects of Fiber Characteristics on the Rheological and Mechanical Properties of Polycarbonate/Carbon Fiber Composites. Composite Interfaces, 2009, 16, 477-491.	2.3	10
63	Orientation effect on the rheology of graphene oxide dispersions in isotropic phase, ordered isotropic biphase, and discotic phase. Journal of Rheology, 2021, 65, 791-806.	2.6	10
64	Rotational motions of repulsive graphene oxide domains in aqueous dispersion during slow shear flow. Journal of Rheology, 2020, 64, 29-41.	2.6	9
65	Polyvinylidene Fluoride/Reduced Graphene Oxide Layers on SiO _{<i>x</i>} N _{<i>y</i>} /Poly(ethylene terephthalate) Films as Transparent Coatings for Organic Electronic Devices and Packaging Materials. ACS Applied Nano Materials, 2020, 3, 8972-8981.	5.0	9
66	Thermal behavior and the determination of the polymer-polymer interaction parameter of polycarbonate and a thermotropic liquid crystalline polymer blends. Polymer Bulletin, 1996, 37, 503-510.	3.3	8
67	Bent-shape effects of multi-walled carbon nanotube on the electrical conductivity and rheological properties of polycarbonate/multi-walled carbon nanotube nanocomposites. Synthetic Metals, 2011, 161, 1629-1634.	3.9	8
68	Size of a crystal nucleus in the isothermal crystallization of supercooled liquid. Journal of Chemical Physics, 2013, 139, 104909.	3.0	8
69	The effect of bernard-marangoni convection on percolation threshold in amorphous polymer-multiwall carbon nanotube composites. Current Applied Physics, 2012, 12, 467-472.	2.4	7
70	Concentration Dependence of the Extensional Relaxation Time and Finite Extensibility in Dilute and Semidilute Polymer Solutions Using a Microfluidic Rheometer. Macromolecules, 2019, 52, 9585-9593.	4.8	7
71	Highâ€Resolution 3D Printing of Mechanically Tough Hydrogels Prepared by Thermoâ€Responsive Poloxamer Ink Platform. Macromolecular Rapid Communications, 2022, 43, e2100579.	3.9	7
72	Crystallization of polycarbonate in solvent/nonsolvent system and its application to highâ€density polyethylene composite as a filler. Polymer Engineering and Science, 2014, 54, 1893-1899.	3.1	6

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73	Humanâ€Irisâ€Like Aperture and Sphincter Muscle Comprising Hyperelastic Composite Hydrogels Containing Graphene Oxide. Macromolecular Materials and Engineering, 2019, 304, 1800560.	3.6	5
74	Dispersion of Multiwalled Carbon Nanotubes in Aqueous Silk Fibroin Solutions. Journal of Nanoscience and Nanotechnology, 2008, 8, 5543-5546.	0.9	4
75	Method Development to Evaluate Melting Behavior of Glass Fiber-Reinforced Syndiotactic Polystyrene Composites in the Presence of Pressure Loading. Polymer-Plastics Technology and Engineering, 2014, 53, 1028-1034.	1.9	2
76	Mass Production of 2D Manifolds of Graphene Oxide by Shear Flow. Advanced Functional Materials, 0, , 2107694.	14.9	2
77	Tube-rolling and formation of mechanically robust micro-tubes in graphene oxide aqueous dispersions during shear flow. Soft Matter, 2019, 15, 4238-4243.	2.7	1
78	Thermal properties of meltâ€blended poly(ether ether ketone) and poly(ether imide). Journal of Applied Polymer Science, 1999, 72, 733-739.	2.6	1
79	Investigation of Mechanical and Thermal Properties of Poly(N-isopropylacrylamide) Hydrogels Containing Graphene Oxide. Porrime, 2015, 39, 788.	0.2	1
80	Synthesis of Poly(N-isopropylacrylamide) Micro-hydrogel Using a Microfluidic Channel and Study on Concentration Sensor. Porrime, 2018, 42, 1052-1058.	0.2	1
81	Simulated orientational morphology from the measured transient rheology of polycarbonate–carbon fiber composites. Korea Australia Rheology Journal, 0, , .	1.7	0