Jaesang Yu

List of Publications by Year in descending order

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		516710	395702
37	1,107	16	33
papers	citations	h-index	g-index

38	38	38	1393
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface Modification of Sulfur-Assisted Reduced Graphene Oxide with Poly(phenylene sulfide) for Multifunctional Nanocomposites. Polymers, 2022, 14, 732.	4.5	2
2	Mechanically strong and highly ion conductive graphene oxide liquid crystal film containing the poly(amic acid) salt. International Journal of Energy Research, 2022, 46, 10620-10632.	4.5	2
3	Ultrahigh strength, modulus, and conductivity of graphitic fibers by macromolecular coalescence. Science Advances, 2022, 8, eabn0939.	10.3	34
4	Strain Transfer Function of Distributed Optical Fiber Sensors and Back-Calculation of the Base Strain Field. Sensors, 2021, 21, 3365.	3.8	8
5	Soft and Stretchable Liquid Metal Composites with Shape Memory and Healable Conductivity. ACS Applied Materials & Interfaces, 2021, 13, 28916-28924.	8.0	50
6	Structural control of crumpled sulfurâ€assisted reduced graphene oxide with elemental sulfur for supercapacitor. International Journal of Energy Research, 2021, 45, 21209-21218.	4.5	3
7	High-flame retarding properties of polyacrylonitrile copolymer nanocomposites with synergistic effect of elemental sulfur-doped reduced graphene oxide and bio-derived catechol units. Composites Part A: Applied Science and Manufacturing, 2021, 148, 106477.	7.6	10
8	Multifunctional aminoethylpiperazine-modified graphene oxide with high dispersion stability in polar solvents for mercury ion adsorption. Journal of Industrial and Engineering Chemistry, 2020, 90, 224-231.	5.8	7
9	Analysis of the effect of organic solventâ€“sheet interfacial interaction on the exfoliation of sulfur-doped reduced graphene oxide sheets in a solvent system using molecular dynamics simulations. Physical Chemistry Chemical Physics, 2020, 22, 20665-20672.	2.8	1
10	Enhanced Tensile Properties of Multi-Walled Carbon Nanotubes Filled Polyamide 6 Composites Based on Interface Modification and Reactive Extrusion. Polymers, 2020, 12, 997.	4.5	5
11	Enhancement of thermo-mechanical stability for nanocomposites containing plasma treated carbon nanotubes with an experimental study and molecular dynamics simulations. Scientific Reports, 2020, 10, 405.	3.3	17
12	Synergistic Effects of Hybrid Carbonaceous Fillers of Carbon Fibers and Reduced Graphene Oxides on Enhanced Heat-Dissipation Capability of Polymer Composites. Polymers, 2020, 12, 909.	4.5	6
13	The effect of aqueous polyimide sizing agent on PEEK based carbon fiber composites using experimental techniques and molecular dynamics simulations. Functional Composites and Structures, 2020, 2, 025001.	3.4	12
14	Sustainable production of reduced graphene oxide using elemental sulfur for multifunctional composites. Composites Part B: Engineering, 2019, 176, 107236.	12.0	20
15	Methylpiperidine-functionalized graphene oxide for efficient curing acceleration and gas barrier of polymer nanocomposites. Applied Surface Science, 2019, 464, 509-515.	6.1	17
16	Chemical assembling of amine functionalized boron nitride nanotubes onto polymeric nanofiber film for improving their thermal conductivity. RSC Advances, 2018, 8, 4426-4433.	3.6	15
17	Influences of carboxyl functionalization of intercalators on exfoliation of graphite oxide: a molecular dynamics simulation. Physical Chemistry Chemical Physics, 2018, 20, 28616-28622.	2.8	12
18	Molecular Design and Property Prediction of Sterically Confined Polyimides for Thermally Stable and Transparent Materials. Polymers, 2018, 10, 630.	4.5	14

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19	Pyridine-functionalized graphene/polyimide nanocomposites; mechanical, gas barrier, and catalytic effects. Composites Part B: Engineering, 2017, 114, 280-288.	12.0	37
20	A combined analytical formulation and genetic algorithm to analyze the nonlinear damage responses of continuous fiber toughened composites. Computational Mechanics, 2017, 60, 393-408.	4.0	12
21	The influence of N-doping types for carbon nanotube reinforced epoxy composites: A combined experimental study and molecular dynamics simulation. Composites Part A: Applied Science and Manufacturing, 2017, 103, 17-24.	7.6	25
22	Thermally conductive composite film filled with highly dispersed graphene nanoplatelets via solvent-free one-step fabrication. Composites Part B: Engineering, 2017, 110, 171-177.	12.0	30
23	Robust and Flexible Polyurethane Composite Nanofibers Incorporating Multi-Walled Carbon Nanotubes Produced by Solution Blow Spinning. Macromolecular Materials and Engineering, 2016, 301, 364-370.	3.6	17
24	Thermal conductivity of polymer composites with the geometrical characteristics of graphene nanoplatelets. Scientific Reports, 2016, 6, 26825.	3.3	126
25	Prediction and experimental validation of composite strength by applying modified micromechanics for composites containing multiple distinct heterogeneities. Composites Part B: Engineering, 2016, 91, 1-7.	12.0	3
26	Enhancement of the crosslink density, glass transition temperature, and strength of epoxy resin by using functionalized graphene oxide co-curing agents. Polymer Chemistry, 2016, 7, 36-43.	3.9	104
27	Thermal conductivity of polymer composites based on the length of multi-walled carbon nanotubes. Composites Part B: Engineering, 2015, 79, 505-512.	12.0	119
28	Prediction and experimental validation of electrical percolation by applying a modified micromechanics model considering multiple heterogeneous inclusions. Composites Science and Technology, 2015, 106, 156-162.	7.8	61
29	Ultra-high dispersion of graphene in polymer composite via solvent freefabrication and functionalization. Scientific Reports, 2015, 5, 9141.	3.3	93
30	Carbon fiber-reinforced plastics based on epoxy resin toughened with core shell rubber impact modifiers. E-Polymers, 2015, 15, 369-375.	3.0	12
31	Thermal conductivity of graphene nanoplatelets filled composites fabricated by solvent-free processing for the excellent filler dispersion and a theoretical approach for the composites containing the geometrized fillers. Composites Part A: Applied Science and Manufacturing, 2015, 69, 219-225.	7.6	99
32	Improved thermal conductivity of polymeric composites fabricated by solvent-free processing for the enhanced dispersion of nanofillers and a theoretical approach for composites containing multiple heterogeneities and geometrized nanofillers. Composites Science and Technology, 2014, 101, 79-85.	7.8	46
33	Effective property estimates for composites containing multiple nanoheterogeneities: Part I Nanospheres, nanoplatelets, and voids. Journal of Composite Materials, 2013, 47, 549-558.	2.4	18
34	Effective property estimates for composites containing multiple nanoheterogeneities: Part II nanofibers and voids. Journal of Composite Materials, 2013, 47, 1273-1282.	2.4	19
35	Determination of carbon nanofiber morphology in vinyl ester nanocomposites. Journal of Composite Materials, 2012, 46, 1943-1953.	2.4	15
36	Classical micromechanics modeling of nanocomposites with carbon nanofibers and interphase. Journal of Composite Materials, 2011, 45, 2401-2413.	2.4	34

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37	Analysis of mechanical and thermal characterization of hexagonal boron nitride using a molecular dynamics simulation with the new Dreiding force field. Mechanics of Advanced Materials and Structures, 0, , 1-9.	2.6	2