

# Sung-Ryong Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,635  
citations

331259

21  
h-index

301761

39  
g-index

62  
all docs

62  
docs citations

62  
times ranked

2022  
citing authors

#	ARTICLE	IF	CITATIONS
1	UV-reduction of graphene oxide and its application as an interfacial layer to reduce the back-transport reactions in dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2009, 483, 124-127.	1.2	228
2	Improvement of interfacial adhesion and nondestructive damage evaluation for plasma-treated PBO and Kevlar fibers/epoxy composites using micromechanical techniques and surface wettability. <i>Journal of Colloid and Interface Science</i> , 2003, 264, 431-445.	5.0	158
3	Fracture mechanics analysis of coating/substrate systems. <i>Engineering Fracture Mechanics</i> , 2000, 65, 573-593.	2.0	96
4	Surface modification of polytetrafluoroethylene by Ar <sup>+</sup> irradiation for improved adhesion to other materials. <i>Journal of Applied Polymer Science</i> , 1997, 64, 1913-1921.	1.3	80
5	Ultrathin thermally conductive yet electrically insulating exfoliated graphene fluoride film for high performance heat dissipation. <i>Carbon</i> , 2020, 157, 741-749.	5.4	69
6	High Thermal Conductivity Enhancement of Polymer Composites with Vertically Aligned Silicon Carbide Sheet Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 23388-23398.	4.0	69
7	Fracture mechanics analysis of coating/substrate systems. <i>Engineering Fracture Mechanics</i> , 2000, 65, 595-607.	2.0	58
8	Hybrid shell of MXene and reduced graphene oxide assembled on PMMA bead core towards tunable thermoconductive and EMI shielding nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106574.	3.8	56
9	A fracture mechanics analysis of multiple cracking in coatings. <i>Engineering Fracture Mechanics</i> , 1992, 42, 195-208.	2.0	55
10	Scalable ultrarobust thermoconductive nonflammable bioinspired papers of graphene nanoplatelet crosslinked aramid nanofibers for thermal management and electromagnetic shielding. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8527-8540.	5.2	53
11	Synergistic effects of segregated network by polymethylmethacrylate beads and sintering of copper nanoparticles on thermal and electrical properties of epoxy composites. <i>Composites Science and Technology</i> , 2018, 155, 144-150.	3.8	40
12	Direct-Write Patterning of Bacterial Cells by Dip-Pen Nanolithography. <i>Journal of the American Chemical Society</i> , 2012, 134, 16500-16503.	6.6	38
13	Highly Flexible Graphene Derivative Hybrid Film: An Outstanding Nonflammable Thermally Conductive yet Electrically Insulating Material for Efficient Thermal Management. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26413-26423.	4.0	38
14	Self-Assembly of Carbon Nanotubes and Boron Nitride via Electrostatic Interaction for Epoxy Composites of High Thermal Conductivity and Electrical Resistivity. <i>Macromolecular Research</i> , 2018, 26, 521-528.	1.0	36
15	Interfacial properties and microfailure degradation mechanisms of bioabsorbable fibers/poly-l-lactide composites using micromechanical test and nondestructive acoustic emission. <i>Composites Science and Technology</i> , 2003, 63, 403-419.	3.8	35
16	3D structured graphene fluoride-based epoxy composites with high thermal conductivity and electrical insulation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106585.	3.8	34
17	Copper flake-coated cellulose scaffold to construct segregated network for enhancing thermal conductivity of epoxy composites. <i>Composites Part B: Engineering</i> , 2019, 165, 772-778.	5.9	31
18	Nondestructive evaluation of interfacial damage properties for plasma-treated biodegradable poly(p-dioxanone) fiber/poly(l-lactide) composites by micromechanical test and surface wettability. <i>Composites Science and Technology</i> , 2004, 64, 847-860.	3.8	30

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19	Submillimeter-scale Graphene Patterning through Ink-jet Printing of Graphene Oxide Ink. <i>Chemistry Letters</i> , 2011, 40, 54-55.	0.7	28
20	Pt and TCO free hybrid bilayer silver nanowire-graphene counter electrode for dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2013, 561-562, 115-119.	1.2	28
21	Nacre-inspired nanocomposite papers of graphene fluoride integrated 3D aramid nanofibers towards heat-dissipating applications. <i>Chemical Engineering Journal</i> , 2022, 429, 132182.	6.6	25
22	Ultralight covalently interconnected silicon carbide aerofoam for high performance thermally conductive epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 138, 106028.	3.8	22
23	Comparative study of plasma and ion-beam treatment to reduce the oxygen vacancies in TiO <sub>2</sub> and recombination reactions in dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2010, 495, 69-72.	1.2	20
24	Core-shell structured carbon nanotube-poly(methylmethacrylate) beads as thermo-conductive filler in epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 55-62.	3.8	20
25	Synthesis of Hybrid Polyacetylene Gels Using Octafunctional POSS Initiator. <i>Macromolecular Symposia</i> , 2007, 249-250, 562-567.	0.4	19
26	Bundling dynamics regulates the active mechanics and transport in carbon nanotube networks and their nanocomposites. <i>Nanoscale</i> , 2012, 4, 3584.	2.8	19
27	3D printing of copper particles and poly(methyl methacrylate) beads containing poly(lactic acid) composites for enhancing thermomechanical properties. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49776.	1.3	19
28	Properties of Flame-Retarding Blends of Polycarbonate and Poly(Acrylonitrile-butadiene-Styrene). <i>Journal of Polymer Engineering</i> , 1998, 18, 115-130.	0.6	16
29	Extensional and complex viscosities of linear and branched polycarbonate blends. <i>Macromolecular Research</i> , 2002, 10, 135-139.	1.0	14
30	Poly(methyl methacrylate)-functionalized reduced graphene oxide-based core-shell structured beads for thermally conductive epoxy composites. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47377.	1.3	14
31	Electrical energy generated by silicone elastomers filled with nanospring-carbon-nanotubes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3535-3542.	2.7	13
32	Effect of aspect ratio of vertically aligned copper nanowires in the presence of cellulose nanofibers on the thermal conductivity of epoxy composites. <i>Polymers for Advanced Technologies</i> , 2020, 31, 2351-2359.	1.6	13
33	Pressure-sensitive adhesive composites with a hydrophobic form of graphene oxide for enhanced thermal conductivity. <i>Macromolecular Research</i> , 2016, 24, 1070-1076.	1.0	12
34	Ultrasoother transparent conductive hybrid films of reduced graphene oxide and single-walled carbon nanotube by ultrasonic spraying. <i>Synthetic Metals</i> , 2016, 221, 340-344.	2.1	12
35	Thermally conductive adhesives from covalent-bonding of reduced graphene oxide to acrylic copolymer. <i>Journal of Adhesion</i> , 2019, 95, 887-910.	1.8	12
36	Measurement of Poisson's Ratio of a Thin Film on a Substrate by Combining X-Ray Diffraction with in situ Substrate Bending. <i>Electronic Materials Letters</i> , 2009, 5, 51-54.	1.0	10

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37	Ultrasonic-sprayed Graphene Oxide and Air-sprayed Silver Nanowire for the Preparation of Flexible Transparent Conductive Films. <i>Chemistry Letters</i> , 2014, 43, 1242-1244.	0.7	10
38	Preparation and characterization of expanded graphite intercalation compound/UV-crosslinked acrylic resin pressure sensitive adhesives. <i>Macromolecular Research</i> , 2015, 23, 396-401.	1.0	10
39	Effect of silicone oil on the morphology and properties of polycarbonate. <i>Journal of Applied Polymer Science</i> , 2008, 109, 3439-3446.	1.3	9
40	Study on Thermal Conductivity of Polyetheretherketone/Thermally Conductive Filler Composites. <i>Solid State Phenomena</i> , 2007, 124-126, 1079-1082.	0.3	8
41	Effects of argon and oxygen flow rate on water vapor barrier properties of silicon oxide coatings deposited on polyethylene terephthalate by plasma enhanced chemical vapor deposition. <i>Thin Solid Films</i> , 2010, 518, 1929-1934.	0.8	8
42	Highly electrocatalytic hybrid silver nanowire-graphene counter electrode for Co <sup>3+/2+</sup> redox mediator based dye-sensitized solar cells. <i>Synthetic Metals</i> , 2013, 177, 77-81.	2.1	8
43	Transparent high-performance SiO <sub>x</sub> Ny/SiO <sub>x</sub> barrier films for organic photovoltaic cells with high durability. <i>Nano Energy</i> , 2017, 33, 12-20.	8.2	8
44	Enhancement of Thermal Conductivity of Poly(methylmethacrylate) Composites at Low Loading of Copper Nanowires. <i>Macromolecular Research</i> , 2019, 27, 1117-1123.	1.0	8
45	Synthesis of acetyl imidazolium-based electrolytes and application for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 57, 285-289.	2.6	7
46	Scalable graphene fluoride sandwiched aramid nanofiber paper with superior high-temperature capacitive energy storage. <i>Chemical Engineering Journal</i> , 2022, 444, 136504.	6.6	7
47	Oxygen ion-beam irradiation of TiO <sub>2</sub> films reduces oxygen vacancies and improves performance of dye-sensitized solar cells. <i>Journal of Materials Research</i> , 2011, 26, 1012-1017.	1.2	6
48	Surface modification and retardation of back reaction by nitrogen ion-beam treatment in dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2012, 538, 77-81.	1.2	6
49	Graphene-Gold Nanoparticle Composite Counter Electrode for Cobalt-electrolyte-based Dye-sensitized Solar Cells. <i>Chemistry Letters</i> , 2013, 42, 31-33.	0.7	5
50	Enhanced Thermal Conductivity of Pressure Sensitive Adhesives Using Hybrid Fillers of SiC Microparticle and SiC Nanoparticle Grafted Graphene Oxide. <i>Polymer</i> , 2016, 40, 804.	0.0	5
51	Spin Self-Assembled Clay Nanocomposite Passivation Layers Made from a Photocrosslinkable Poly(vinyl) Thin-Film Transistors. <i>Chinese Journal of Chemistry</i> , 2016, 34, 1103-1108.	0.784314	4
52	Thermal Conductivity Improvement by Cu Surface Treatments and Incorporation of PMMA Beads on Cu/Epoxy Composites. <i>Polymer</i> , 2016, 40, 148.	0.0	2
53	Acoustic Characteristics and Thermal Properties of Polycarbonate/(Graphite Intercalation) Thin-Film Transistors. <i>Journal of Applied Polymer Science</i> , 2017, 121, 1079-1082.	0.0	2
54	Effects of Bending Stress on 6,13-Bis(triisopropylsilylethynyl) Pentacene (TIPS-PEN)-Based Organic Thin-Film Transistors. <i>Science of Advanced Materials</i> , 2017, 9, 2234-2239.	0.1	1

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55	Effect of Graphite Intercalation Compound on the Sound Absorption Coefficient and Sound Transmission Loss of Epoxy Composites. <i>Composites Research</i> , 2015, 28, 389-394.	0.1	1
56	New Hole Transporting Materials Based on Di- and Tetra-Substituted Biphenyl Derivatives for Organic Light-Emitting Diodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 5123-5129.	0.9	0
57	Failure Paths of Polymer/Roughened Metal Interfaces under Mixed-Mode Loading. <i>Korean Journal of Materials Research</i> , 2004, 14, 322-327.	0.1	0
58	Comparative Study on the Failure of Polymer/Roughened Metal Interfaces under Mode-I Loading II: Adhesion Model. <i>Korean Journal of Materials Research</i> , 2005, 15, 6-13.	0.1	0
59	Properties of Stretchable Graphite Intercalation Compound/Polydimethylsiloxane Composites after Cyclic Tensile Strain of 20%. <i>Porrime</i> , 2016, 40, 336.	0.0	0
60	Hybrid Nanocomposites of Bridged Polysilsesquioxane Nanoparticles and Polystyrene by Radical Polymerization. <i>Porrime</i> , 2016, 40, 992.	0.0	0
61	Effects of Carbon-based Nanofillers on the Structure and Property of Phenolic Foam. <i>Porrime</i> , 2018, 42, 133-139.	0.0	0