

Kyung Jin Lee

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

2,323
citations

218381

26
h-index

223531

46
g-index

83
all docs

83
docs citations

83
times ranked

3231
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Recent advances with anisotropic particles. <i>Current Opinion in Colloid and Interface Science</i> , 2011, 16, 195-202. | 3.4 | 222 |
| 2 | Activated carbon nanofiber produced from electrospun polyacrylonitrile nanofiber as a highly efficient formaldehyde adsorbent. <i>Carbon</i> , 2010, 48, 4248-4255. | 5.4 | 211 |
| 3 | Waterproof, Highly Tough, and Fast Self-Healing Polyurethane for Durable Electronic Skin. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11072-11083. | 4.0 | 149 |
| 4 | Toward an effective adsorbent for polar pollutants: Formaldehyde adsorption by activated carbon. <i>Journal of Hazardous Materials</i> , 2013, 260, 82-88. | 6.5 | 109 |
| 5 | Spontaneous shape reconfigurations in multicompartamental microcylinders. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16057-16062. | 3.3 | 90 |
| 6 | Effect of silica nanofillers on isothermal crystallization of poly(vinyl alcohol): In-situ ATR-FTIR study. <i>Polymer Testing</i> , 2008, 27, 360-367. | 2.3 | 85 |
| 7 | Carbon Nanofibers: A Novel Nanofiller for Nanofluid Applications. <i>Small</i> , 2007, 3, 1209-1213. | 5.2 | 73 |
| 8 | Multifunctional polymer particles with distinct compartments. <i>Journal of Materials Chemistry</i> , 2011, 21, 8502. | 6.7 | 73 |
| 9 | Pore Structure Analysis of Activated Carbon Fiber by Microdomain-Based Model. <i>Langmuir</i> , 2009, 25, 7631-7637. | 1.6 | 72 |
| 10 | Syringeless Electrospinning toward Versatile Fabrication of Nanofiber Web. <i>Scientific Reports</i> , 2017, 7, 41424. | 1.6 | 60 |
| 11 | 3D Jet Writing: Functional Microtissues Based on Tessellated Scaffold Architectures. <i>Advanced Materials</i> , 2018, 30, e1707196. | 11.1 | 58 |
| 12 | Versatile strategies for fabricating polymer nanomaterials with controlled size and morphology. <i>Macromolecular Research</i> , 2008, 16, 85-102. | 1.0 | 55 |
| 13 | Synthesis of highly functionalized thermoplastic polyurethanes and their potential applications. <i>Polymer</i> , 2017, 116, 287-294. | 1.8 | 55 |
| 14 | Fabrication of CdS/PMMA core/shell nanoparticles by dispersion mediated interfacial polymerization. <i>Chemical Communications</i> , 2007, , 2689. | 2.2 | 47 |
| 15 | Anisotropic Janus Catalysts for Spatially Controlled Chemical Reactions. <i>Small</i> , 2012, 8, 3116-3122. | 5.2 | 46 |
| 16 | N-chloro hydantoin functionalized polyurethane fibers toward protective cloth against chemical warfare agents. <i>Polymer</i> , 2018, 138, 146-155. | 1.8 | 40 |
| 17 | Fabrication of polyimide nanotubes and carbon nanotubes containing magnetic iron oxide in confinement. <i>Chemical Communications</i> , 2005, , 3847. | 2.2 | 38 |
| 18 | Fabrication of Photoluminescent Dyes/Poly(acrylonitrile) Coaxial Nanotubes Using Vapor Deposition Polymerization. <i>Chemistry of Materials</i> , 2006, 18, 5002-5008. | 3.2 | 38 |

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|----|--|------|-----------|
| 19 | Photoluminescent polymer nanoparticles for label-free cellular imaging. <i>Chemical Communications</i> , 2010, 46, 5229. | 2.2 | 37 |
| 20 | Janus-Core and Shell Microfibers. <i>Langmuir</i> , 2013, 29, 6181-6186. | 1.6 | 36 |
| 21 | Nanofiber-Based Hydrocolloid from Colloid Electrospinning Toward Next Generation Wound Dressing. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 818-826. | 1.7 | 34 |
| 22 | Analysis of deuterated water contents using FTIR bending motion. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 322, 487-493. | 0.7 | 34 |
| 23 | Zirconium Hydroxide-coated Nanofiber Mats for Nerve Agent Decontamination. <i>Chemistry - an Asian Journal</i> , 2017, 12, 698-705. | 1.7 | 33 |
| 24 | A remotely steerable Janus micromotor adsorbent for the active remediation of Cs-contaminated water. <i>Journal of Hazardous Materials</i> , 2019, 369, 416-422. | 6.5 | 33 |
| 25 | Vapor-Phase Synthesis of Mesostructured Silica Nanofibers Inside Porous Alumina Membranes. <i>Small</i> , 2008, 4, 1945-1949. | 5.2 | 30 |
| 26 | 3D jet writing of mechanically actuated tandem scaffolds. <i>Science Advances</i> , 2021, 7, . | 4.7 | 28 |
| 27 | Mesoporous Nanofibers from Dual Structure-directing Agents in AAO: Mesostructural Control and their Catalytic Applications. <i>Chemistry - A European Journal</i> , 2009, 15, 2491-2495. | 1.7 | 26 |
| 28 | Porous hydrogel containing Prussian blue nanoparticles for effective cesium ion adsorption in aqueous media. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 60, 465-474. | 2.9 | 26 |
| 29 | Black Diatom Colloids toward Efficient Photothermal Converters for Solar-to-Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4531-4540. | 4.0 | 22 |
| 30 | Solar-to-Steam Generation via Porous Black Membranes with Tailored Pore Structures. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48300-48308. | 4.0 | 21 |
| 31 | Compartmentalized Photoreactions within Compositionally Anisotropic Janus Microstructures. <i>Macromolecular Rapid Communications</i> , 2011, 32, 431-437. | 2.0 | 20 |
| 32 | Fabrication of One-Dimensional Organic Nanomaterials and Their Optoelectronic Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 1282-1302. | 0.9 | 18 |
| 33 | Cheap, facile, and upscalable activated carbon-based photothermal layers for solar steam generation. <i>RSC Advances</i> , 2020, 10, 42432-42440. | 1.7 | 17 |
| 34 | Photoswitchable Particles for On-Demand Degradation and Triggered Release. <i>Small</i> , 2013, 9, 3051-3057. | 5.2 | 16 |
| 35 | Spatioselective Growth of Metal-Organic Framework Nanocrystals on Compositionally Anisotropic Polymer Particles. <i>Advanced Materials</i> , 2014, 26, 2883-2888. | 11.1 | 16 |
| 36 | Toward a detoxification fabric against nerve gas agents: guanidine-functionalized poly[2-(3-butenyl)-2-oxazoline]/Nylon-6,6 nanofibers. <i>RSC Advances</i> , 2017, 7, 15246-15254. | 1.7 | 16 |

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|----|--|-----|-----------|
| 37 | Simultaneous control of size and surface functionality of silica particle via growing method. <i>Advanced Powder Technology</i> , 2017, 28, 2914-2920. | 2.0 | 16 |
| 38 | Polydipyrrole- and polydicarbazole-nanorods as new nanosized supports for DNA hybridization. <i>Chemical Communications</i> , 2005, , 4357. | 2.2 | 15 |
| 39 | Influence of amorphous polymer nanoparticles on the crystallization behavior of poly(vinyl alcohol) nanocomposites. <i>Macromolecular Research</i> , 2009, 17, 476-482. | 1.0 | 15 |
| 40 | Fabrication of polymer nanotubes containing nanoparticles and inside functionalization. <i>Chemical Communications</i> , 2011, 47, 9447. | 2.2 | 15 |
| 41 | Mass Production of Electrospun Carbon Nanofiber Containing SiO ₂ for Lithium-Ion Batteries with Enhanced Capacity. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800564. | 1.7 | 15 |
| 42 | Highly functionalized thermoplastic polyurethane from surface click reactions. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46519. | 1.3 | 14 |
| 43 | Cooperative Switching in Large Area Assemblies of Magnetic Janus Particles. <i>Advanced Functional Materials</i> , 2020, 30, 1907865. | 7.8 | 13 |
| 44 | Syringeless electrospinning of PVDF/SiO ₂ as separator membrane for high-performance lithium-ion batteries. <i>Materials Chemistry and Physics</i> , 2022, 288, 126354. | 2.0 | 13 |
| 45 | Mass Production of Functional Amine-Conjugated PAN Nanofiber Mat via Syringeless Electrospinning and CVD. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700565. | 1.7 | 12 |
| 46 | Novel silane-treated polyacrylonitrile as a promising negative electrode binder for LIBs. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152481. | 2.8 | 12 |
| 47 | Improved Performance of All-Solid-State Lithium Metal Batteries via Physical and Chemical Interfacial Control. <i>Advanced Science</i> , 2022, 9, e2103433. | 5.6 | 12 |
| 48 | Enhancement of adhesion between inorganic nanoparticles and polymeric matrix in nanocomposite by introducing polymeric thin film onto nanoparticles. <i>Polymer Engineering and Science</i> , 2015, 55, 1906-1911. | 1.5 | 11 |
| 49 | Fluorescent boronic acid-modified polymer nanoparticles for enantioselective monosaccharide detection. <i>Analytical Methods</i> , 2012, 4, 913. | 1.3 | 10 |
| 50 | Preparation and Electrochemical Characterization of Si@C Nanoparticles as an Anode Material for Lithium-Ion Batteries via Solvent-Assisted Wet Coating Process. <i>Nanomaterials</i> , 2022, 12, 1649. | 1.9 | 10 |
| 51 | Compartmentalized Microhelices Prepared via Electrohydrodynamic Cojetting. <i>Advanced Science</i> , 2018, 5, 1800024. | 5.6 | 9 |
| 52 | Preparation of a Catalytic Membrane Reactor with Palladium Nanoparticles Supported by a Packed-Bed Silica Nanosupporter for Gas-Phase Methanol Oxidation. <i>Small</i> , 2010, 6, 2378-2382. | 5.2 | 8 |
| 53 | Introduction of reversible crosslinker into artificial marbles toward chemical recyclability. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 31, 86-90. | 2.9 | 8 |
| 54 | Synthesis of Multi-Functionalized N-Cl Hydantoin Polyurethane for Chemical Warfare Agent Decomposition with High N-Cl Stability. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900213. | 1.1 | 8 |

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|----|--|-----|-----------|
| 55 | Preparation of Poly-1-butene Nanofiber Mat and Its Application as Shutdown Layer of Next Generation Lithium Ion Battery. <i>Polymers</i> , 2020, 12, 2267. | 2.0 | 8 |
| 56 | Bio-specific immobilization of enzymes on electrospun PHB nanofibers. <i>Enzyme and Microbial Technology</i> , 2021, 145, 109749. | 1.6 | 8 |
| 57 | Preparation of cathode slurry for lithium-ion battery by three-roll mill process. <i>Carbon Letters</i> , 2022, 32, 265-272. | 3.3 | 8 |
| 58 | Colloid Syringeless Electrospinning toward Nonwoven Nanofiber Web Containing a Massive Amount of Inorganic Fillers. <i>Macromolecular Materials and Engineering</i> , 2022, 307, . | 1.7 | 8 |
| 59 | Fabrication of silica nanotubes with an anisotropic functionality as a smart catalyst supporter. <i>Chemical Communications</i> , 2016, 52, 9825-9828. | 2.2 | 7 |
| 60 | Preparation of non-woven nanofiber webs for detoxification of nerve gases. <i>Polymer</i> , 2019, 179, 121664. | 1.8 | 7 |
| 61 | Dye Clicked Thermoplastic Polyurethane as a Generic Platform toward Chromic-Polymer Applications. <i>Scientific Reports</i> , 2019, 9, 18648. | 1.6 | 7 |
| 62 | Facile Fabrication of Anisotropic Multicompartmental Microfibers Using Charge Reversal Electrohydrodynamic Coâ€¢Jetting. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100560. | 2.0 | 7 |
| 63 | Post-crosslinkable thermoplastic polyurethane for control of mechanical properties after processes. <i>Polymer</i> , 2021, 236, 124350. | 1.8 | 7 |
| 64 | Snailâ€¢like Particles from Compartmentalized Microfibers. <i>Macromolecular Rapid Communications</i> , 2016, 37, 73-78. | 2.0 | 6 |
| 65 | Chemically Tunable Organic Dielectric Layer on an Oxide TFT: Poly(<i>p</i> -xylylene) Derivatives. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43123-43133. | 4.0 | 6 |
| 66 | Simultaneous Chemical and Optical Patterning of Polyacrylonitrile Film by Vapor-Based Reaction. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1192-1199. | 2.0 | 5 |
| 67 | Preparation of metal-ion containing polymers: Synthesis and characterization of methacrylic copolymers containing copper ion. <i>Polymer</i> , 2015, 77, 297-304. | 1.8 | 5 |
| 68 | Synthesis of chain-end multi-functionalized polyisoprene with a definite number of amino groups via living anionic copolymerization. <i>Polymer</i> , 2016, 101, 158-167. | 1.8 | 5 |
| 69 | Prussian blue decorated hydrogel particles for effective removal of cesium ion from aqueous media. <i>Polymer</i> , 2020, 186, 122029. | 1.8 | 4 |
| 70 | Fabrication of Metallochromic Dye Functionalized Hydrogel for On-site, Fast, User-friendly Metal-ion Sensing Kit. <i>Macromolecular Research</i> , 2020, 28, 580-586. | 1.0 | 4 |
| 71 | A Facile Route Towards Inorganic Particles with Two Distinct Compartments Based on Electroâ€¢Hydrodynamic Coâ€¢Jetting. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 936-939. | 1.2 | 3 |
| 72 | Novel flexible styrenic elastomer cation-exchange material based on phenyl functionalized polystyrene-butadiene copolymer. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 47, 128-140. | 2.9 | 3 |

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|----|--|-----|-----------|
| 73 | Study on peculiar carbon pattern formation from polymer blend thin films under electric fields. <i>Thin Solid Films</i> , 2018, 660, 846-851. | 0.8 | 3 |
| 74 | Synthesis of Multifunctionalized Graft-Type Polyolefin-Based Elastomers with a High Utility Temperature. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700298. | 1.1 | 2 |
| 75 | Fabrication of Homogeneous Metal-Organic Hybrid Composite from Copper Containing Methacrylate Copolymer Through Layer-by-Layer Film Processing and e-Beam Irradiation. <i>Macromolecular Research</i> , 2018, 26, 466-471. | 1.0 | 2 |
| 76 | Synthesis of poly[2-(3-butenyl)-2-oxazoline] with abundant carboxylic acid functional groups as a fiber-based sol-gel reaction supporter for catalytic applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 112-121. | 2.9 | 2 |
| 77 | A Convenient Dual-Side Anionic Initiator Based on 2,6-Ludidine/s-Butyl Lithium. <i>Macromolecular Research</i> , 2019, 27, 601-605. | 1.0 | 2 |
| 78 | Optimizing chemical and mechanical stability of catalytic nanofiber web for development of efficient detoxification cloths against CWAs. <i>Polymer</i> , 2021, 214, 123262. | 1.8 | 2 |
| 79 | Preparation of mesoporous nanofibers by vapor phase synthesis: control of mesopore structures with the aid of co-surfactants. <i>Nanotechnology</i> , 2013, 24, 255602. | 1.3 | 1 |
| 80 | Macromol. Rapid Commun. 5/2011. <i>Macromolecular Rapid Communications</i> , 2011, 32, . | 2.0 | 0 |
| 81 | 9. Needleless and syringeless electrospinning for mass production. , 2019, , 217-238. | | 0 |