

Kyunghwan Yoon

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

3,114
citations

279798

23
h-index

477307

29
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29
all docs

29
docs citations

29
times ranked

3427
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | High flux ultrafiltration membranes based on electrospun nanofibrous PAN scaffolds and chitosan coating. <i>Polymer</i> , 2006, 47, 2434-2441. | 3.8 | 503 |
| 2 | Functional nanofibers for environmental applications. <i>Journal of Materials Chemistry</i> , 2008, 18, 5326. | 6.7 | 388 |
| 3 | High Flux Filtration Medium Based on Nanofibrous Substrate with Hydrophilic Nanocomposite Coating. <i>Environmental Science & Technology</i> , 2005, 39, 7684-7691. | 10.0 | 348 |
| 4 | High flux nanofiltration membranes based on interfacially polymerized polyamide barrier layer on polyacrylonitrile nanofibrous scaffolds. <i>Journal of Membrane Science</i> , 2009, 326, 484-492. | 8.2 | 237 |
| 5 | High performance ultrafiltration composite membranes based on poly(vinyl alcohol) hydrogel coating on crosslinked nanofibrous poly(vinyl alcohol) scaffold. <i>Journal of Membrane Science</i> , 2006, 278, 261-268. | 8.2 | 225 |
| 6 | Formation of functional polyethersulfone electrospun membrane for water purification by mixed solvent and oxidation processes. <i>Polymer</i> , 2009, 50, 2893-2899. | 3.8 | 156 |
| 7 | High flux ultrafiltration nanofibrous membranes based on polyacrylonitrile electrospun scaffolds and crosslinked polyvinyl alcohol coating. <i>Journal of Membrane Science</i> , 2009, 338, 145-152. | 8.2 | 138 |
| 8 | High-flux thin-film nanofibrous composite ultrafiltration membranes containing cellulose barrier layer. <i>Journal of Materials Chemistry</i> , 2010, 20, 4692. | 6.7 | 125 |
| 9 | A Highly Reactive and Sinter-Resistant Catalytic System Based on Platinum Nanoparticles Embedded in the Inner Surfaces of CeO ₂ Hollow Fibers. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9543-9546. | 13.8 | 121 |
| 10 | Fabrication of thin-film nanofibrous composite membranes by interfacial polymerization using ionic liquids as additives. <i>Journal of Membrane Science</i> , 2010, 365, 52-58. | 8.2 | 98 |
| 11 | UV-cured poly(vinyl alcohol) ultrafiltration nanofibrous membrane based on electrospun nanofiber scaffolds. <i>Journal of Membrane Science</i> , 2009, 328, 1-5. | 8.2 | 91 |
| 12 | Design and fabrication of electrospun polyethersulfone nanofibrous scaffold for high-flux nanofiltration membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 2288-2300. | 2.1 | 84 |
| 13 | In-Situ X-ray Scattering Studies of a Unique Toughening Mechanism in Surface-Modified Carbon Nanofiber/UHMWPE Nanocomposite Films. <i>Macromolecules</i> , 2005, 38, 3883-3893. | 4.8 | 70 |
| 14 | Effect of degumming condition on the solution properties and electrospinnability of regenerated silk solution. <i>International Journal of Biological Macromolecules</i> , 2013, 55, 161-168. | 7.5 | 67 |
| 15 | Rheological study of carbon nanofiber induced physical gelation in polyolefin nanocomposite melt. <i>Polymer</i> , 2005, 46, 11591-11599. | 3.8 | 55 |
| 16 | Structure-properties relationships in clay nanocomposites based on PVDF/(ethylene vinyl acetate) copolymer blends. <i>Polymer</i> , 2007, 48, 7567-7572. | 3.8 | 55 |
| 17 | Thin-Film Nanofibrous Composite Ultrafiltration Membranes Based on Polyvinyl Alcohol Barrier Layer Containing Directional Water Channels. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 11978-11984. | 3.7 | 47 |
| 18 | Morphological features and melting behavior of nanocomposites based on isotactic polypropylene and multiwalled carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2007, 106, 2640-2647. | 2.6 | 46 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Uniaxial deformation of an elastomer nanocomposite containing modified carbon nanofibers by in situ synchrotron X-ray diffraction. <i>Polymer</i> , 2005, 46, 5103-5117. | 3.8 | 45 |
| 20 | In-Situ X-ray Deformation Study of Fluorinated Multiwalled Carbon Nanotube and Fluorinated Ethylene-Propylene Nanocomposite Fibers. <i>Macromolecules</i> , 2006, 39, 5427-5437. | 4.8 | 40 |
| 21 | Effects of degumming conditions on electro-spinning rate of regenerated silk. <i>International Journal of Biological Macromolecules</i> , 2013, 61, 50-57. | 7.5 | 32 |
| 22 | Shear-Induced Orientation and Structure Development in Isotactic Polypropylene Melt Containing Modified Carbon Nanofibers. <i>Journal of Macromolecular Science - Physics</i> , 2006, 45, 247-261. | 1.0 | 31 |
| 23 | Stabilizing Thin Film Polymer Bilayers against Dewetting Using Multiwalled Carbon Nanotubes. <i>Macromolecules</i> , 2007, 40, 9510-9516. | 4.8 | 29 |
| 24 | Optical transparency in a polymer blend induced by clay nanofillers. <i>European Polymer Journal</i> , 2008, 44, 3941-3945. | 5.4 | 21 |
| 25 | In situ synchrotron SAXS/WAXD studies during melt spinning of modified carbon nanofiber and isotactic polypropylene nanocomposite. <i>Colloid and Polymer Science</i> , 2004, 282, 802-809. | 2.1 | 19 |
| 26 | Relationship between structure and dynamic mechanical properties of a carbon nanofiber reinforced elastomeric nanocomposite. <i>Polymer</i> , 2006, 47, 6797-6807. | 3.8 | 17 |
| 27 | Nanoclay-Directed Structure and Morphology in PVDF Electrospun Membranes. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7. | 2.7 | 7 |