# Jung-Hyun Kim

List of Publications by Year
in descending order



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|---|---|---|---|
| 40 papers | 1,833 citations | 361045<br>20 h-index | 288905<br>40 g-index |
| 40 all docs | 40 docs citations | 40 times ranked | 2511 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Water-Based Highly Stretchable PEDOT:PSS/Nonionic WPU Transparent Electrode. Polymers, 2022, 14, 949. | 2.0 | 13 |
| 2 | Dual-Cation Electrolytes Crosslinked with MXene for High-Performance Electrochromic Devices. Nanomaterials, 2021, 11, 874. | 1.9 | 3 |
| 3 | Multituning of Structural Color by Protonation and Conjugate Bases. ACS Applied Polymer Materials, 2021, 3, 2902-2910. | 2.0 | 7 |
| 4 | Design of highly stable and solution-processable electrochromic devices based on PEDOT:PSS. Organic Electronics, 2021, 93, 106106. | 1.4 | 8 |
| 5 | Comparison of the mechanical properties of polymer blend and main-chain conjugated copolymer films with donorâ€“acceptor heterojunctions. Chemical Engineering Journal, 2021, 415, 128952. | 6.6 | 8 |
| 6 | High-Coloration Efficiency and Low-Power Consumption Electrochromic Film based on Multifunctional Conducting Polymer for Large Scale Smart Windows. ACS Applied Electronic Materials, 2021, 3, 4781-4792. | 2.0 | 22 |
| 7 | Highly Conductive PEDOT:PSS Thin Films with Two-Dimensional Lamellar Stacked Multi-Layers. Nanomaterials, 2020, 10, 2211. | 1.9 | 30 |
| 8 | Design of intrinsically stretchable and highly conductive polymers for fully stretchable electrochromic devices. Scientific Reports, 2020, 10, 16488. | 1.6 | 25 |
| 9 | Stretchable Hole Extraction Layer for Improved Stability in Perovskite Solar Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 8004-8010. | 3.2 | 13 |
| 10 | Work Function Engineering of Electrohydrodynamic-Jet-Printed PEDOT:PSS Electrodes for High-Performance Printed Electronics. ACS Applied Materials & Interfaces, 2020, 12, 17799-17805. | 4.0 | 30 |
| 11 | Synthesis of Stretchable, Environmentally Stable, Conducting Polymer PEDOT Using a Modified Acid Template Random Copolymer. Macromolecular Chemistry and Physics, 2020, 221, 1900465. | 1.1 | 7 |
| 12 | Colorimetric Visualization Using Polymeric Coreâ€“Shell Nanoparticles: Enhanced Sensitivity for Formaldehyde Gas Sensors. Polymers, 2020, 12, 998. | 2.0 | 11 |
| 13 | Effect of molecular weight distribution of PSSA on electrical conductivity of PEDOT:PSS. RSC Advances, 2019, 9, 4028-4034. | 1.7 | 16 |
| 14 | Improvement of PEDOT:PSS linearity <i>via</i> controlled addition process. RSC Advances, 2019, 9, 17318-17324. | 1.7 | 22 |
| 15 | Synthesis of Solution-Stable PEDOT-Coated Sulfonated Polystyrene Copolymer PEDOT:P(SS-co-St) Particles for All-Organic NIR-Shielding Films. Coatings, 2019, 9, 151. | 1.2 | 5 |
| 16 | Formation of a conductive overcoating layer based on hybrid composites to improve the stability of flexible transparent conductive films. RSC Advances, 2019, 9, 4428-4434. | 1.7 | 5 |
| 17 | Facile synthesis of P(EDOT/Ani)â€‰:â€‰PSS with enhanced heat shielding efficiency<i>via</i>two-stage shot growth. RSC Advances, 2018, 8, 12992-12998. | 1.7 | 7 |
| 18 | Synthesis of Poly(methyl methacrylate-co-butyl acrylate)/Perfluorosilyl Methacrylate Core-Shell Nanoparticles: Novel Approach for Optimization of Coating Process. Polymers, 2018, 10, 1186. | 2.0 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Influence of residual sodium ions on the structureÂand properties of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate). RSC Advances, 2018, 8, 29044-29050. | 1.7 | 23 |
| 20 | Improved Stability of Interfacial Energy-Level Alignment in Inverted Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 18964-18973. | 4.0 | 22 |
| 21 | Electrical characteristics of heterogeneous polymer layers in PEDOT:PSS films. Journal of Materials Chemistry C, 2018, 6, 8906-8913. | 2.7 | 32 |
| 22 | Large-scalable RTCVD Graphene/PEDOT:PSS hybrid conductive film for application in transparent and flexible thermoelectric nanogenerators. RSC Advances, 2017, 7, 25237-25243. | 1.7 | 46 |
| 23 | Thermodynamically self-organized hole transport layers for high-efficiency inverted-planar perovskite solar cells. Nanoscale, 2017, 9, 12677-12683. | 2.8 | 18 |
| 24 | Synthesis and Characterization of PEDOT:P(SS-co-VTMS) with Hydrophobic Properties and Excellent Thermal Stability. Polymers, 2016, 8, 189. | 2.0 | 67 |
| 25 | Influence of imidazoleâ€based acidity control of <scp>PEDOT:PSS</scp> on its electrical properties and environmental stability. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1530-1536. | 2.4 | 36 |
| 26 | Synthesis of conductive and transparent PEDOT:P(SS-co-PEGMA) with excellent water-, weather-, and chemical-stabilities for organic solar cells. RSC Advances, 2016, 6, 63296-63303. | 1.7 | 21 |
| 27 | Hybrid Silver Mesh Electrode for ITOâ€Free Flexible Polymer Solar Cells with Good Mechanical Stability. ChemSusChem, 2016, 9, 1042-1049. | 3.6 | 36 |
| 28 | N-type organic thermoelectric materials based on polyaniline doped with the aprotic ionic liquid 1-ethyl-3-methylimidazolium ethyl sulfate. RSC Advances, 2016, 6, 37130-37135. | 1.7 | 38 |
| 29 | Purification of PEDOT:PSS by Ultrafiltration for Highly Conductive Transparent Electrode of Allâ€Printed Organic Devices. Advanced Materials, 2016, 28, 10149-10154. | 11.1 | 66 |
| 30 | Synthesis of curcumin/polyrhodanine nanocapsules with antimicrobial properties by oxidative polymerization using the Fenton reaction. Reactive and Functional Polymers, 2016, 109, 125-130. | 2.0 | 6 |
| 31 | Electronic Properties of Cu<sub>2â€“<i>x</i></sub>Se Nanocrystal Thin Films Treated with Short Ligand (S<sup>2â€“</sup>, SCN<sup>â€“</sup>, and Cl<sup>â€“</sup>) Solutions. Journal of Physical Chemistry C, 2016, 120, 14899-14905. | 1.5 | 12 |
| 32 | Thermoelectric Behavior of Conducting Polymers Hybridized with Inorganic Nanoparticles. Journal of Electronic Materials, 2016, 45, 2935-2942. | 1.0 | 5 |
| 33 | Aqueous chemical synthesis of tellurium nanowires using a polymeric template for thermoelectric materials. CrystEngComm, 2015, 17, 1092-1097. | 1.3 | 36 |
| 34 | Simultaneous enhancement of the efficiency and stability of organic solar cells using PEDOT:PSS grafted with a PEGME buffer layer. Organic Electronics, 2015, 26, 191-199. | 1.4 | 59 |
| 35 | Preparation of Fe3O4-Embedded Poly(styrene)/Poly(thiophene) Core/Shell Nanoparticles and Their Hydrogel Patterns for Sensor Applications. Materials, 2014, 7, 195-205. | 1.3 | 13 |
| 36 | Direct synthesis of highly conductive poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonate) (PEDOT:PSS)/graphene composites and their applications in energy harvesting systems. Nano Research, 2014, 7, 717-730. | 5.8 | 383 |

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|---|---|---|---|
| 37 | Enhanced thermoelectric properties of PEDOT:PSS nanofilms by a chemical dedoping process. Journal of Materials Chemistry A, 2014, 2, 6532-6539. | 5.2 | 259 |
| 38 | Transparent and flexible organic semiconductor nanofilms with enhanced thermoelectric efficiency. Journal of Materials Chemistry A, 2014, 2, 7288-7294. | 5.2 | 210 |
| 39 | Highly reliable AgNW/PEDOT:PSS hybrid films: efficient methods for enhancing transparency and lowering resistance and haziness. Journal of Materials Chemistry C, 2014, 2, 5636-5643. | 2.7 | 105 |
| 40 | Novel solution-processable, dedoped semiconductors for application in thermoelectric devices. Journal of Materials Chemistry A, 2014, 2, 13380-13387. | 5.2 | 101 |