

Taehyo Kim

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,842
citations

257450

24
h-index

223800

46
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47
all docs

47
docs citations

47
times ranked

4543
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Effect of Catalyst Crystallinity on V-Based Selective Catalytic Reduction with Ammonia. <i>Nanomaterials</i> , 2021, 11, 1452. | 4.1 | 9 |
| 2 | Ammonium Ion Enhanced V ₂ O ₅ -WO ₃ /TiO ₂ Catalysts for Selective Catalytic Reduction with Ammonia. <i>Nanomaterials</i> , 2021, 11, 2677. | 4.1 | 8 |
| 3 | Small Reduced Graphene Oxides for Highly Efficient Oxygen Reduction Catalysts. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12300. | 4.1 | 6 |
| 4 | High-Resolution Filtration Patterning of Silver Nanowire Electrodes for Flexible and Transparent Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32154-32162. | 8.0 | 35 |
| 5 | A highly transparent thin film hematite with multi-element dopability for an efficient unassisted water splitting system. <i>Nano Energy</i> , 2020, 76, 105089. | 16.0 | 29 |
| 6 | Slot-Die and Roll-to-Roll Processed Single Junction Organic Photovoltaic Cells with the Highest Efficiency. <i>Advanced Energy Materials</i> , 2019, 9, 1901805. | 19.5 | 62 |
| 7 | Photovoltaic Devices: Slot-Die and Roll-to-Roll Processed Single Junction Organic Photovoltaic Cells with the Highest Efficiency (<i>Adv. Energy Mater.</i> 36/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970138. | 19.5 | 3 |
| 8 | Morphology-Dependent Hole Transfer under Negligible HOMO Difference in Non-Fullerene Acceptor-Based Ternary Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7208-7215. | 8.0 | 28 |
| 9 | Regio-regular alternating diketopyrrolopyrrole-based D ₁ -A ² -D ₂ -A terpolymers for the enhanced performance of polymer solar cells. <i>RSC Advances</i> , 2019, 9, 42096-42109. | 3.6 | 3 |
| 10 | Highly efficient polymer solar cells with a thienopyrroledione and benzodithiophene containing planar random copolymer. <i>Polymer Chemistry</i> , 2018, 9, 1216-1222. | 3.9 | 19 |
| 11 | Nanoparticle-Enhanced Silver-Nanowire Plasmonic Electrodes for High-Performance Organic Optoelectronic Devices. <i>Advanced Materials</i> , 2018, 30, e1800659. | 21.0 | 67 |
| 12 | Efficiency Exceeding 11% in Tandem Polymer Solar Cells Employing High Open-Circuit Voltage Wide-Bandgap π -Conjugated Polymers. <i>Advanced Energy Materials</i> , 2017, 7, 1700782. | 19.5 | 24 |
| 13 | Semi-crystalline A ₁ -D ² -A ₂ -type copolymers for efficient polymer solar cells. <i>Polymer Journal</i> , 2017, 49, 141-148. | 2.7 | 6 |
| 14 | Ternary Organic Solar Cells Based on Two Highly Efficient Polymer Donors with Enhanced Power Conversion Efficiency. <i>Advanced Energy Materials</i> , 2016, 6, 1502109. | 19.5 | 147 |
| 15 | Influence of aromatic heterocycle of conjugated side chains on photovoltaic performance of benzodithiophene-based wide-bandgap polymers. <i>Polymer Chemistry</i> , 2016, 7, 4036-4045. | 3.9 | 26 |
| 16 | Solar Cells: Investigation of Charge Carrier Behavior in High Performance Ternary Blend Polymer Solar Cells (<i>Adv. Energy Mater.</i> 19/2016). <i>Advanced Energy Materials</i> , 2016, 6, . | 19.5 | 0 |
| 17 | Effect of alkyl chain topology on the structure, optoelectronic properties and solar cell performance of thienopyrroledione-cored oligothiophene chromophores. <i>RSC Advances</i> , 2016, 6, 77655-77665. | 3.6 | 6 |
| 18 | Synthesis and photovoltaic properties of benzimidazole-based copolymer with fluorine atom. <i>Polymer Bulletin</i> , 2016, 73, 2511-2519. | 3.3 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | 2,1,3-benzothiadiazole-5,6-dicarboxylicimide based semicrystalline polymers for photovoltaic cells. Journal of Polymer Science Part A, 2016, 54, 3826-3834. | 2.3 | 5 |
| 20 | Investigation of Charge Carrier Behavior in High Performance Ternary Blend Polymer Solar Cells. Advanced Energy Materials, 2016, 6, 1600637. | 19.5 | 85 |
| 21 | Photocurrent Extraction Efficiency near Unity in a Thick Polymer Bulk Heterojunction. Advanced Functional Materials, 2016, 26, 3324-3330. | 14.9 | 48 |
| 22 | Syntheses and Properties of Conjugated Polymer with Thiophene-Bridged BTI and Indenoindene Units for Organic Solar Cells. Bulletin of the Korean Chemical Society, 2016, 37, 506-514. | 1.9 | 1 |
| 23 | Straight chain D-A copolymers based on thienothiophene and benzothiadiazole for efficient polymer field effect transistors and photovoltaic cells. Polymer Chemistry, 2016, 7, 4638-4646. | 3.9 | 29 |
| 24 | Quinoxaline-thiophene based thick photovoltaic devices with an efficiency of ~48%. Journal of Materials Chemistry A, 2016, 4, 9967-9976. | 10.3 | 49 |
| 25 | High-Performance Solution-Processed Non-Fullerene Organic Solar Cells Based on Selenophene-Containing Perylene Bisimide Acceptor. Journal of the American Chemical Society, 2016, 138, 375-380. | 13.7 | 643 |
| 26 | Medium bandgap copolymers based on carbazole and quinoxaline exceeding 1.0 V open-circuit voltages. RSC Advances, 2016, 6, 17624-17631. | 3.6 | 5 |
| 27 | Control of Charge Dynamics via Use of Nonionic Phosphonate Chains and Their Effectiveness for Inverted Structure Solar Cells. Advanced Energy Materials, 2015, 5, 1500844. | 19.5 | 28 |
| 28 | Syntheses and Properties of Copolymers with Alkyl-2,2-bithiophene-3,3-dicarboximide Unit for Polymer Solar Cells. Bulletin of the Korean Chemical Society, 2015, 36, 2238-2246. | 1.9 | 3 |
| 29 | Syntheses and solar cell applications of conjugated copolymers consisting of 3,3-dicarboximide and benzodithiophene units with thiophene and bithiophene linkage. Solar Energy Materials and Solar Cells, 2015, 141, 24-31. | 6.2 | 3 |
| 30 | Benzodithiophene-thiophene-based photovoltaic polymers with different side-chains. Journal of Polymer Science Part A, 2015, 53, 854-862. | 2.3 | 15 |
| 31 | Dithienogermole-Containing Small-Molecule Solar Cells with 7.3% Efficiency: In-Depth Study on the Effects of Heteroatom Substitution of Si with Ge. Advanced Energy Materials, 2015, 5, 1402044. | 19.5 | 40 |
| 32 | 2,7-Carbazole and thieno[3,4-c]pyrrole-4,6-dione based copolymers with deep highest occupied molecular orbital for photovoltaic cells. Current Applied Physics, 2015, 15, 654-661. | 2.4 | 4 |
| 33 | Spectroscopically tracking charge separation in polymer:fullerene blends with a three-phase morphology. Energy and Environmental Science, 2015, 8, 2713-2724. | 30.8 | 44 |
| 34 | Syntheses and solar cell applications of conjugated copolymers containing tetrafluorophenylene units. Polymer, 2015, 71, 113-121. | 3.8 | 5 |
| 35 | Small-Bandgap Polymer Solar Cells with Unprecedented Short-Circuit Current Density and High Fill Factor. Advanced Materials, 2015, 27, 3318-3324. | 21.0 | 294 |
| 36 | Trifluoromethyl benzimidazole-based conjugated polymers with deep HOMO levels for organic photovoltaics. Synthetic Metals, 2015, 205, 112-120. | 3.9 | 14 |

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|----|--|------|-----------|
| 37 | Synthesis and photovoltaic properties of alkoxy-benzimidazole containing low band gap polymers. <i>Thin Solid Films</i> , 2015, 580, 29-35. | 1.8 | 6 |
| 38 | Thienoisindigo (TIIG)-based small molecules for the understanding of structure–property–device performance correlations. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9899-9908. | 10.3 | 33 |
| 39 | Capillary Printing of Highly Aligned Silver Nanowire Transparent Electrodes for High-Performance Optoelectronic Devices. <i>Nano Letters</i> , 2015, 15, 7933-7942. | 9.1 | 196 |
| 40 | Interplay of Intramolecular Noncovalent Coulomb Interactions for Semicrystalline Photovoltaic Polymers. <i>Chemistry of Materials</i> , 2015, 27, 5997-6007. | 6.7 | 150 |
| 41 | Synthesis of the Copolymer Based on Diketopyrrolopyrrole with Didecyl Chain for OPVs. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 600, 88-98. | 0.9 | 1 |
| 42 | Replacing the metal oxide layer with a polymer surface modifier for high-performance inverted polymer solar cells. <i>RSC Advances</i> , 2014, 4, 4791-4795. | 3.6 | 34 |
| 43 | Synthesis of fluorinated analogues of a practical polymer TQ for improved open-circuit voltages in polymer solar cells. <i>Polymer Chemistry</i> , 2014, 5, 2540. | 3.9 | 40 |
| 44 | Versatile surface plasmon resonance of carbon-dot-supported silver nanoparticles in polymer optoelectronic devices. <i>Nature Photonics</i> , 2013, 7, 732-738. | 31.4 | 501 |
| 45 | Synthesis of the novel 2,2-bithiophene-3,3-dicarboximide-based conjugated copolymers for OPVs. <i>Synthetic Metals</i> , 2013, 177, 65-71. | 3.9 | 8 |
| 46 | Low bandgap small molecules based on 2,2-bithiophene-3,3-dicarboximide for soluble-processed solar cells. <i>Synthetic Metals</i> , 2013, 183, 16-23. | 3.9 | 7 |
| 47 | Highly efficient plasmonic organic optoelectronic devices based on a conducting polymer electrode incorporated with silver nanoparticles. <i>Energy and Environmental Science</i> , 2013, 6, 1949. | 30.8 | 69 |