# Chun-Ming Yang

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 48 papers | 1,153 citations | 430874 18 h-index | 414414 32 g-index |
| 49 all docs | 49 docs citations | 49 times ranked | 1209 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Sol-gel synthesis of TiO2-SiO2 hybrid films with tunable refractive index for broadband antireflective coatings covering the visible range. Journal of Sol-Gel Science and Technology, 2023, 107, 105-121. | 2.4 | 4 |
| 2 | SGTools: a suite of tools for processing and analyzing large data sets from in situ X-ray scattering experiments. Journal of Applied Crystallography, 2022, 55, 195-203. | 4.5 | 13 |
| 3 | In Situ Grazing-Incidence SAXS Investigation of Thermal-Induced Self-Assembly Process of PS-b-PMMA Films Deposited on Surface-Modified Substrate. Journal of Physical Chemistry B, 2022, 126, 1625-1632. | 2.6 | 3 |
| 4 | Side-chain engineering improves molecular stacking and miscibility for efficient fullerene organic solar cells. Journal of Materials Chemistry C, 2022, 10, 6754-6761. | 5.5 | 8 |
| 5 | Synergistic Effect of Poly(aryl ether ketone) Matrices via Rational Ternary Copolymerization Enables Efficient and Stable Organic Solar Cells. Chemistry of Materials, 2022, 34, 430-439. | 6.7 | 6 |
| 6 | Hammer throw-liked hybrid cyclic and alkyl chains: A new side chain engineering for over 18 % efficiency organic solar cells. Nano Energy, 2022, 101, 107538. | 16.0 | 27 |
| 7 | Synergetic Strategy for Highly Efficient and Super Flexible Thickâ€film Organic Solar Cells. Advanced Energy Materials, 2022, 12, . | 19.5 | 27 |
| 8 | Rational Mutual Interactions in Ternary Systems Enable Highâ€Performance Organic Solar Cells. Advanced Functional Materials, 2021, 31, 2007088. | 14.9 | 61 |
| 9 | Over 15% efficiency all-small-molecule organic solar cells enabled by a C-shaped small molecule donor with tailorable asymmetric backbone. Nano Energy, 2021, 81, 105612. | 16.0 | 96 |
| 10 | Chemical short-range ordering and its strengthening effect in refractory high-entropy alloys. Physical Review B, 2021, 103, . | 3.2 | 27 |
| 11 | Identifying tunneling effects of poly(aryl ether) matrices and boosting the efficiency, stability, and stretchability of organic solar cells. Cell Reports Physical Science, 2021, 2, 100408. | 5.6 | 26 |
| 12 | In situ studies on the positive and negative effects of 1,8-diiodoctane on the device performance and morphology evolution of organic solar cells. Nuclear Science and Techniques/Hewuli, 2021, 32, 1. | 3.4 | 5 |
| 13 | Benzobis(Thiazole)-Based Conjugated Polymer with Varying Alkylthio Side-Chain Positions for Efficient Fullerene-Free Organic Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 36071-36079. | 8.0 | 12 |
| 14 | Overlapping fasten packing enables efficient dual-donor ternary organic solar cells with super stretchability. Energy and Environmental Science, 2021, 14, 5968-5978. | 30.8 | 63 |
| 15 | Directed Self-assembly of Vertical PS-b-PMMA Nanodomains Grown on Multilayered Polyelectrolyte Films. Chinese Journal of Polymer Science (English Edition), 2020, 38, 92-99. | 3.8 | 11 |
| 16 | Unusual thickness relaxation of spin-coated polystyrene ultrathin films in the glassy state. Polymer, 2020, 186, 121972. | 3.8 | 5 |
| 17 | Non-toxic green food additive enables efficient polymer solar cells through adjusting the phase composition distribution and boosting charge transport. Journal of Materials Chemistry C, 2020, 8, 2483-2490. | 5.5 | 51 |
| 18 | Growth and Termination of Cylindrical Micelles via Liquid-Crystallization-Driven Self-Assembly. Macromolecules, 2020, 53, 8992-8999. | 4.8 | 29 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A Universal Method to Enhance Flexibility and Stability of Organic Solar Cells by Constructing Insulating Matrices in Active Layers. Advanced Functional Materials, 2020, 30, 2003654. | 14.9 | 106 |
| 20 | Self-assembly of rod-coil block copolymers on a substrate into micrometer-scale ordered stripe nanopatterns. Polymer Chemistry, 2020, 11, 7487-7496. | 3.9 | 5 |
| 21 | Low-Temperature Preparation of SiO2/Nb2O5/TiO2â€“SiO2 Broadband Antireflective Coating for the Visible via Acid-Catalyzed Solâ€“Gel Method. Coatings, 2020, 10, 737. | 2.6 | 11 |
| 22 | Employing Asymmetrical Thieno[3,4-d]pyridazin-1(2H)-one Block Enables Efficient Ternary Polymer Solar Cells with Improved Light-Harvesting and Morphological Properties. Macromolecules, 2020, 53, 6619-6629. | 4.8 | 31 |
| 23 | Construction of Thiazolo[5,4-d]thiazole-based Two-Dimensional Network for Efficient Photocatalytic CO<sub>2</sub> Reduction. ACS Applied Materials & Interfaces, 2020, 12, 46483-46489. | 8.0 | 43 |
| 24 | Suppressing the Photocatalytic Activity of Zinc Oxide Electron-Transport Layer in Nonfullerene Organic Solar Cells with a Pyrene-Bodipy Interlayer. ACS Applied Materials & Interfaces, 2020, 12, 21961-21973. | 8.0 | 57 |
| 25 | Optimized Molecular Packing and Nonradiative Energy Loss Based on Terpolymer Methodology Combining Two Asymmetric Segments for High-Performance Polymer Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 20393-20403. | 8.0 | 9 |
| 26 | Tuning the morphology of the active layer of organic solar cells by spin 1/2 radicals. New Journal of Chemistry, 2019, 43, 13998-14008. | 2.8 | 4 |
| 27 | Regulation of Molecular Packing and Blend Morphology by Finely Tuning Molecular Conformation for High-Performance Nonfullerene Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 44501-44512. | 8.0 | 18 |
| 28 | Enhanced Organic Photovoltaic Performance through Modulating Vertical Composition Distribution and Promoting Crystallinity of the Photoactive Layer by Diphenyl Sulfide Additives. ACS Applied Materials & Interfaces, 2019, 11, 7022-7029. | 8.0 | 79 |
| 29 | Ternary Solar Cells Employing Thieno[3,4-b]thiophene-Based Copolymer Offer High Performance with Large Current Density and Fine-Tuned Morphology. Journal of Physical Chemistry C, 2019, 123, 14976-14984. | 3.1 | 14 |
| 30 | Analysis of Dimer Impurity in Polyamidoamine Dendrimer Solutions by Small-angle Neutron Scattering. Chinese Journal of Polymer Science (English Edition), 2019, 37, 827-833. | 3.8 | 10 |
| 31 | In-situ GISAXS investigation of the structure evolution mechanism of template removal of ordered mesoporous films prepared via a soft-templating method. Applied Surface Science, 2019, 479, 776-785. | 6.1 | 4 |
| 32 | Bioinspired Shear-Flow-Driven Layer-by-Layer in Situ Self-Assembly. ACS Nano, 2019, 13, 1910-1922. | 14.6 | 10 |
| 33 | Superhydrophilic Antireflective Periodic Mesoporous Organosilica Coating on Flexible Polyimide Substrate with Strong Abrasion-Resistance. ACS Applied Materials & Interfaces, 2017, 9, 5468-5476. | 8.0 | 33 |
| 34 | Reorientation of the poly(3-hydroxybutyrate- co -3-hydroxyhexanoate) crystal in thin film induced by polyethylene glycol. Polymer, 2017, 120, 59-67. | 3.8 | 13 |
| 35 | High Extinction Coefficient Thieno[3,4-b]thiophene-Based Copolymer for Efficient Fullerene-Free Solar Cells with Large Current Density. Chemistry of Materials, 2017, 29, 6766-6771. | 6.7 | 56 |
| 36 | Thermochromic VO<sub>2</sub> films from ammonium citrato-oxovanadate(<scp>iv</scp>) with excellent optical and phase transition properties. Journal of Materials Chemistry C, 2016, 4, 5281-5288. | 5.5 | 19 |

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|---|---|---|---|
| 37 | In situ synchrotron small- and wide-angle X-ray study on the structural evolution of Kevlar fiber under uniaxial stretching. RSC Advances, 2016, 6, 81552-81558. | 3.6 | 9 |
| 38 | Local Grafting of Ionic Liquid in Poly(vinylidene fluoride) Amorphous Region and the Subsequent Microphase Separation Behavior in Melt. Macromolecular Rapid Communications, 2016, 37, 1559-1565. | 3.9 | 12 |
| 39 | Novel donorâ€“acceptor polymers containing o-fluoro-p-alkoxyphenyl-substituted benzo[1,2-b:4,5-bâ€²]dithiophene units for polymer solar cells with power conversion efficiency exceeding 9%. Journal of Materials Chemistry A, 2016, 4, 10212-10222. | 10.3 | 52 |
| 40 | Broadband antireflective double-layer mesoporous silica coating with strong abrasion-resistance for solar cell glass. RSC Advances, 2016, 6, 25191-25197. | 3.6 | 23 |
| 41 | Probing the surface microstructure of layer-by-layer self-assembly chitosan/poly( l -glutamic acid) multilayers: A grazing-incidence small-angle X-ray scattering study. Materials Science and Engineering C, 2016, 58, 352-358. | 7.3 | 15 |
| 42 | A general model for estimating the ordering of mesoporous film by grazing incidence small angle X-ray scattering. Journal of Applied Physics, 2014, 115, 204311. | 2.5 | 5 |
| 43 | Depth-dependent inhomogeneous characteristics in supported glassy polystyrene films revealed by ultra-low X-ray reflectivity measurements. Polymer Journal, 2014, 46, 873-879. | 2.7 | 6 |
| 44 | In situ small angle Xâ€ray scattering study on structural evolution of crosslinked polytetrafluoroethylene during deformation. Journal of Applied Polymer Science, 2014, 131, . | 2.6 | 1 |
| 45 | Confinement effects on glass transition temperature, transition breadth, and linear expansivity: An ultraslow X-ray reflectivity study on supported ultrathin polystyrene films. European Physical Journal E, 2013, 36, 66. | 1.6 | 15 |
| 46 | Broadening, no broadening and narrowing of glass transition of supported polystyrene ultrathin films emerging under ultraslow temperature variations. Polymer Journal, 2011, 43, 390-397. | 2.7 | 9 |
| 47 | Thickness Anomalies in Supported Polystyrene Films with Thicknesses Comparable to the Radius of Gyration. Polymer Journal, 2009, 41, 1036-1040. | 2.7 | 7 |
| 48 | Functionalized BODIPYs as Tailorâ€Made and Universal Interlayers for Efficient and Stable Organic and Perovskite Solar Cells. Advanced Materials Interfaces, 0, , 2102324. | 3.7 | 3 |