# Hao-Yi Wang

List of Publications by Year
in descending order



| 21 | 411 | 759233 12 | 752698 20 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 23 | 23 | 23 | 652 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Polarization-Induced Trap States in Perovskite Solar Cells Revealed by Circuit-Switched Transient Photoelectric Technique. Journal of Physical Chemistry C, 2022, 126, 3696-3704. | 3.1 | 7 |
| 2 | Silicon Dioxide Nanoparticles Increase the Incidence Depth of Short-Wavelength Light in Active Layer for High-Performance Perovskite Solar Cells. Journal of Physical Chemistry C, 2022, 126, 7400-7409. | 3.1 | 1 |
| 3 | Influence of the MACl additive on grain boundaries, trap-state properties, and charge dynamics in perovskite solar cells. Physical Chemistry Chemical Physics, 2021, 23, 6162-6170. | 2.8 | 18 |
| 4 | Lewis Base-Mediated Perovskite Crystallization as Revealed by In Situ, Real-Time Optical Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 5357-5362. | 4.6 | 5 |
| 5 | Diffusion Dynamics of Mobile Ions Hidden in Transient Optoelectronic Measurement in Planar Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 8330-8337. | 5.1 | 1 |
| 6 | Rules for Selecting Metal Cocatalyst Based on Charge Transfer and Separation Efficiency between ZnO Nanoparticles and Noble Metal Cocatalyst Ag/ Au/ Pt. ChemCatChem, 2020, 12, 3838-3842. | 3.7 | 24 |
| 7 | Effect of trap states on photocatalytic properties of boron-doped anatase TiO<sub>2</sub> microspheres studied by time-resolved infrared spectroscopy. Physical Chemistry Chemical Physics, 2019, 21, 4349-4358. | 2.8 | 19 |
| 8 | Charge carrier recombination dynamics in a bi-cationic perovskite solar cell. Physical Chemistry Chemical Physics, 2019, 21, 5409-5415. | 2.8 | 20 |
| 9 | Reduced Defects of MAPbI<sub>3</sub> Thin Films Treated by FAI for Highâ€Performance Planar Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1805810. | 14.9 | 73 |
| 10 | Characterization of the influences of morphology on the intrinsic properties of perovskite films by temperature-dependent and time-resolved spectroscopies. Physical Chemistry Chemical Physics, 2018, 20, 6575-6581. | 2.8 | 11 |
| 11 | Adverse Effects of Excess Residual PbI<sub>2</sub> on Photovoltaic Performance, Charge Separation, and Trapâ€State Properties in Mesoporous Structured Perovskite Solar Cells. Chemistry - A European Journal, 2017, 23, 3986-3992. | 3.3 | 63 |
| 12 | The Influence of Morphology and PbI<sub>2</sub> on the Intrinsic Trap State Distribution in Perovskite Films Determined by Using Temperatureâ€Dependent Fluorescence Spectroscopy. ChemPhysChem, 2017, 18, 310-317. | 2.1 | 7 |
| 13 | Multipleâ€Trapping Model for the Charge Recombination Dynamics in Mesoporousâ€Structured Perovskite Solar Cells. ChemSusChem, 2017, 10, 4872-4878. | 6.8 | 11 |
| 14 | Power output and carrier dynamics studies of perovskite solar cells under working conditions. Physical Chemistry Chemical Physics, 2017, 19, 19922-19927. | 2.8 | 4 |
| 15 | The Influence of Structural Configuration on Charge Accumulation, Transport, Recombination, and Hysteresis in Perovskite Solar Cells. Energy Technology, 2017, 5, 442-451. | 3.8 | 15 |
| 16 | Porous gold nanoparticle/graphene oxide composite as efficient catalysts for reduction of 4-nitrophenol. RSC Advances, 2016, 6, 35945-35951. | 3.6 | 35 |
| 17 | Mechanism of biphasic charge recombination and accumulation in TiO<sub>2</sub>mesoporous structured perovskite solar cells. Physical Chemistry Chemical Physics, 2016, 18, 12128-12134. | 2.8 | 28 |
| 18 | Efficient promotion of charge separation and suppression of charge recombination by blending PCBM and its dimer as electron transport layer in inverted perovskite solar cells. RSC Advances, 2016, 6, 112512-112519. | 3.6 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The influence of morphology on charge transport/recombination dynamics in planar perovskite solar cells. Chemical Physics Letters, 2016, 662, 257-262. | 2.6 | 17 |
| 20 | Trap-limited charge recombination in intrinsic perovskite film and meso-superstructured perovskite solar cells and the passivation effect of the hole-transport material on trap states. Physical Chemistry Chemical Physics, 2015, 17, 29501-29506. | 2.8 | 36 |
| 21 | Interpretation of the Biphasic Charge Carrier Recombination Process Observed in Mesoporous-Structured Perovskite Solar Cells. , 0, , . | | 0 |