# Kong-Wei Cheng

List of Publications by Year
in descending order



| 48 | 968 | 361388<br>20 | 477281<br>29 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 49 | 49 | 49 | 989 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Copper zinc tin sulfide as a catalytic material for counter electrodes in dye-sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 562-569. | 10.3 | 77 |
| 2 | Photoelectrochemical properties of AgInS2 thin films prepared using electrodeposition. Solar Energy Materials and Solar Cells, 2011, 95, 453-461. | 6.2 | 57 |
| 3 | Effect of Ni on the growth and photoelectrochemical properties of ZnS thin films. Materials Chemistry and Physics, 2009, 117, 156-162. | 4.0 | 53 |
| 4 | Photo-enhanced salt-water splitting using orthorhombic Ag8SnS6 photoelectrodes in photoelectrochemical cells. Journal of Power Sources, 2016, 317, 81-92. | 7.8 | 41 |
| 5 | Ternary Agâ€“Inâ€“S polycrystalline films deposited using chemical bath deposition for photoelectrochemical applications. Materials Chemistry and Physics, 2010, 120, 307-312. | 4.0 | 40 |
| 6 | Photoelectrochemical performances of AgInS2 film electrodes fabricated using the sulfurization of Agâ€“In metal precursors. Solar Energy Materials and Solar Cells, 2011, 95, 1859-1866. | 6.2 | 38 |
| 7 | Photoelectrochemical performance of gallium-doped AgInS2 photoelectrodes prepared by electrodeposition process. Solar Energy Materials and Solar Cells, 2012, 96, 33-42. | 6.2 | 35 |
| 8 | Physical properties of AgIn5S8 polycrystalline films fabricated by solution growth technique. Materials Chemistry and Physics, 2008, 108, 16-23. | 4.0 | 34 |
| 9 | Preparation of Znâ€“Inâ€“S film electrodes using chemical bath deposition for photoelectrochemical applications. Solar Energy Materials and Solar Cells, 2010, 94, 1137-1145. | 6.2 | 34 |
| 10 | Preparation and characterizations of visible light-responsive (Agâ€“Inâ€“Zn)S thin-film electrode by chemical bath deposition. Journal of the Taiwan Institute of Chemical Engineers, 2009, 40, 180-187. | 5.3 | 33 |
| 11 | Preparation of the Agâ€“Znâ€“Snâ€“S quaternary photoelectrodes using chemical bath deposition for photoelectrochemical applications. Thin Solid Films, 2014, 558, 289-293. | 1.8 | 33 |
| 12 | Photoelectrochemical performance of Cu-doped ZnIn2S4 electrodes created using chemical bath deposition. Solar Energy Materials and Solar Cells, 2011, 95, 1940-1948. | 6.2 | 31 |
| 13 | The physical properties and photoresponse of AgIn5S8 polycrystalline film electrodes fabricated by chemical bath deposition. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 190, 77-87. | 3.9 | 30 |
| 14 | Physical properties and photoresponse of Cuâ€“Agâ€“Inâ€“S semiconductor electrodes created using chemical bath deposition. Solar Energy Materials and Solar Cells, 2009, 93, 1427-1434. | 6.2 | 30 |
| 15 | Ternary CuInS2 photoelectrodes created using the sulfurization of Cuâ€“In metal precursors for photoelectrochemical applications. Materials Research Bulletin, 2013, 48, 2457-2468. | 5.2 | 28 |
| 16 | Effect of [Cu]/[Cu+In] ratio in the solution bath on the growth and physical properties of CuInS2 film using one-step electrodeposition. Journal of Electroanalytical Chemistry, 2011, 661, 57-65. | 3.8 | 23 |
| 17 | Effects of complex agents on the physical properties of Agâ€“Inâ€“S ternary semiconductor films using chemical bath deposition. Materials Chemistry and Physics, 2009, 115, 14-20. | 4.0 | 22 |
| 18 | Photoelectrochemical salt water splitting using ternary silverâ€“tinâ€“selenide photoelectrodes. Journal of Power Sources, 2016, 307, 329-339. | 7.8 | 22 |

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|---|---|---|---|
| 19 | Influence of chelating agents on the growth and photoelectrochemical responses of chemical bath-synthesized AgIn5S8 film electrodes. Solar Energy Materials and Solar Cells, 2009, 93, 307-314. | 6.2 | 21 |
| 20 | Preparation of chemical bath synthesized ternary Agâ€“Snâ€“S thin films as the photoelectrodes in photoelectrochemical cell. Journal of Power Sources, 2015, 275, 750-759. | 7.8 | 21 |
| 21 | Ternary AgInSe2 film electrode created using selenization of RF magnetron sputtered Agâ€“In metal precursor for photoelectrochemical applications. International Journal of Hydrogen Energy, 2012, 37, 13638-13644. | 7.1 | 20 |
| 22 | Influences of Silver and Zinc Contents in the Stannite Ag<sub>2</sub>ZnSnS<sub>4</sub> Photoelectrodes on Their Photoelectrochemical Performances in the Saltwater Solution. ACS Applied Materials & Interfaces, 2018, 10, 22130-22142. | 8.0 | 19 |
| 23 | Photoelectrochemical water splitting using Cu(In,Al)Se2 photoelectrodes developed via selenization of sputtered Cuâ€“Inâ€“Al metal precursors. Solar Energy Materials and Solar Cells, 2016, 151, 120-130. | 6.2 | 18 |
| 24 | Stable photoelectrochemical salt-water splitting using the n-ZnSe/n-Ag 8 SnS 6 photoanodes with the nanoscale surface state capacitances. Journal of the Taiwan Institute of Chemical Engineers, 2018, 87, 182-195. | 5.3 | 17 |
| 25 | Photoelectrochemical performances of kesterite Ag 2 ZnSnSe 4 photoelectrodes in the salt-water and water solutions. Journal of the Taiwan Institute of Chemical Engineers, 2017, 75, 199-208. | 5.3 | 16 |
| 26 | Photoelectrochemical performance of Cuâ€“Znâ€“Inâ€“S film grown using one-step electrodeposition. Electrochimica Acta, 2013, 87, 53-62. | 5.2 | 15 |
| 27 | Reorientation of Magnetic Graphene Oxide Nanosheets in Crosslinked Quaternized Polyvinyl Alcohol as Effective Solid Electrolyte. Energies, 2016, 9, 1003. | 3.1 | 15 |
| 28 | Antibacterial Application on Staphylococcus aureus Using Antibiotic Agent/Zinc Oxide Nanorod Arrays/Polyethylethylketone Composite Samples. Nanomaterials, 2019, 9, 713. | 4.1 | 15 |
| 29 | Growth and characterization of CuInS2 nanoparticles prepared using sonochemical synthesis. Journal of the Taiwan Institute of Chemical Engineers, 2015, 48, 87-94. | 5.3 | 14 |
| 30 | Long-term antibacterial performances of biodegradable polylactic acid materials with direct absorption of antibiotic agents. RSC Advances, 2018, 8, 16223-16231. | 3.6 | 12 |
| 31 | Catalytic and photoelectrochemical performances of Cuâ€“Znâ€“Snâ€“Se thin films prepared using selenization of electrodeposited Cuâ€“Znâ€“Sn metal precursors. Journal of Power Sources, 2015, 286, 47-57. | 7.8 | 11 |
| 32 | Surface modification of the p-type Cu2ZnSnS4 photocathode with n-type zinc oxide nanorods for photo-driven salt water splitting. International Journal of Hydrogen Energy, 2021, 46, 26961-26975. | 7.1 | 11 |
| 33 | Photoelectrochemical performance of aluminum-doped AgIn5S8 electrodes created using chemical bath deposition. Thin Solid Films, 2011, 520, 469-474. | 1.8 | 10 |
| 34 | Chemical synthesis of orthorhombic Ag8SnS6/zinc oxide nanorods photoanodes for photoelectrochemical salt-water splitting. Journal of Materials Science: Materials in Electronics, 2021, 32, 10532-10548. | 2.2 | 10 |
| 35 | The photoelectrochemical performances of Sb-doped AgIn5S8 film electrodes prepared by chemical bath deposition. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 202, 107-114. | 3.9 | 9 |
| 36 | Preparation and Characterization for Antibacterial Activities of 3D Printing Polyetheretherketone Disks Coated with Various Ratios of Ampicillin and Vancomycin Salts. Applied Sciences (Switzerland), 2020, 10, 97. | 2.5 | 9 |

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|---|---|---|---|
| 37 | Preparation and characterization of CuInxAl1âˆ’xS2 films using the sulfurization of metal precursors for photoelectrochemical applications. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 407-414. | 5.3 | 8 |
| 38 | Antibacterial Activity Studies of 3D-Printing Polyetheretherketone Substrates with Surface Growth of 2D TiO<sub>2</sub>/ZnO Rodlike Arrays. ACS Omega, 2022, 7, 9559-9572. | 3.5 | 6 |
| 39 | Preparation and photoelectrochemical applications of chemically synthesized Sb-doped p-AgIn5S8 film electrodes. Physica B: Condensed Matter, 2009, 404, 1264-1270. | 2.7 | 5 |
| 40 | Effect of Sb on the growth and photoelectrochemical response of AgIn5S8 film electrodes created by solution growth technique. Chemical Engineering Science, 2010, 65, 74-79. | 3.8 | 5 |
| 41 | Modification of Ag8SnS6 Photoanodes with Incorporation of Zn Ions for Photo-Driven Hydrogen Production. Catalysts, 2021, 11, 363. | 3.5 | 5 |
| 42 | Influence of [Cu]/[Cu+Sn] molar ratios in p-type Cuâ€“Snâ€“S photoelectrodes on their photoelectrochemical performances in water and saltâ€“water solutions. Journal of the Taiwan Institute of Chemical Engineers, 2017, 75, 209-219. | 5.3 | 4 |
| 43 | Solution-growth-synthesized Cu(In,Ga)Se 2 nanoparticles in ethanol bath for the applications of dye-sensitized solar cell and photoelectrochemical reaction. Journal of the Taiwan Institute of Chemical Engineers, 2017, 74, 136-145. | 5.3 | 4 |
| 44 | Influence of gallium on the growth and photoelectrochemical performances of AgIn5S8 photoelectrodes. Thin Solid Films, 2012, 524, 238-244. | 1.8 | 3 |
| 45 | Photoelectrochemical performances of the cubic AgSnSe2 thin film electrodes created using the selenization of thermal evaporated Ag-Sn metal precursors. Journal of the Taiwan Institute of Chemical Engineers, 2018, 85, 56-65. | 5.3 | 2 |
| 46 | Photoelectrochemical study of AgInS<inf>2</inf> thin films prepared using sulfurization of evaporated Metal Precursors. , 2010, , . |  | 0 |
| 47 | Photoelectrochemical response for Cu-doped ZnIn<inf>2</inf>S<inf>4</inf> electrode created using chemical bath deposition. , 2010, , . |  | 0 |
| 48 | Chemical synthesis of ternary silverâ€“indium selenide (AgInSe2) nanopowders in ethanol bath for photoelectrochemical hydrogen production. Materials Science in Semiconductor Processing, 2022, 143, 106542. | 4.0 | 0 |