

# Cham Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

560  
citations

840776

11  
h-index

713466

21  
g-index

21  
all docs

21  
docs citations

21  
times ranked

807  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Development of photocatalytic TiO <sub>2</sub> nanofibers by electrospinning and its application to degradation of dye pollutants. <i>Journal of Hazardous Materials</i> , 2008, 154, 118-127.  | 12.4 | 148       |
| 2  | Visible-light absorptivity of a zincoxysulfide (ZnOxS <sub>1-x</sub> ) composite semiconductor and its photocatalytic activities for degradation of organic pollutants under visible-light irradiation. <i>Applied Catalysis A: General</i> , 2007, 330, 127-133.                               | 4.3  | 95        |
| 3  | Influence of powder morphology on thermoelectric anisotropy of spark-plasma-sintered BiTe-based thermoelectric materials. <i>Acta Materialia</i> , 2011, 59, 405-411.   | 7.9  | 70        |
| 4  | Immobilization of TiO <sub>2</sub> on an ITO substrate to facilitate the photoelectrochemical degradation of an organic dye pollutant. <i>Electrochimica Acta</i> , 2009, 54, 5715-5720.  | 5.2  | 36        |
| 5  | Significant Enhancement in the Thermoelectric Performance of a Bismuth Telluride Nanocompound through Brief Fabrication Procedures. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 2949-2954.   | 8.0  | 28        |
| 6  | Dual defect system of tellurium antisites and silver interstitials in off-stoichiometric Bi <sub>2</sub> (Te,Se) <sub>3+y</sub> causing enhanced thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 791-800.  | 10.3 | 28        |
| 7  | Concurrent defects of intrinsic tellurium and extrinsic silver in an n-type Bi <sub>2</sub> Te <sub>2.88</sub> Se <sub>0.15</sub> thermoelectric material. <i>Nano Energy</i> , 2019, 60, 26-35.  | 16.0 | 27        |
| 8  | Interfacial energy band and phonon scattering effect in Bi <sub>2</sub> Te <sub>3</sub> -polypyrrole hybrid thermoelectric material. <i>Applied Physics Letters</i> , 2018, 113, .  | 3.3  | 17        |
| 9  | Solvothermal synthesis and characterization of a CuInTe <sub>2</sub> absorber for thin-film photovoltaics. <i>Materials Research Bulletin</i> , 2012, 47, 4054-4058.  | 5.2  | 15        |
| 10 | New Chemical Reaction Process of a Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> Nanomaterial for Feasible Optimization in Transport Properties Resulting in Predominant n-Type Thermoelectric Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 5623-5633. | 3.7  | 15        |
| 11 | Crystal alignment of a LiFePO <sub>4</sub> cathode material for lithium ion batteries using its magnetic properties. <i>RSC Advances</i> , 2019, 9, 31936-31942.  | 3.6  | 13        |
| 12 | Interfacial effects in an inorganic/organic composite based on Bi <sub>2</sub> Te <sub>3</sub> inducing decoupled transport properties and enhanced thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13780-13792.  | 10.3 | 12        |
| 13 | Crystal Alignment Technology of Electrode Material for Enhancing Electrochemical Performance in Lithium Ion Battery. <i>Journal of the Electrochemical Society</i> , 2021, 168, 040502.   | 2.9  | 11        |
| 14 | Crystal alignment of a LiNi <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> O <sub>2</sub> electrode material for lithium ion batteries using its magnetic properties. <i>Applied Physics Letters</i> , 2020, 117, .   | 3.3  | 10        |
| 15 | Decoupling effect of electrical and thermal properties of Bi <sub>2</sub> Te <sub>3</sub> -polypyrrole hybrid material causing remarkable enhancement in thermoelectric performance. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 71, 119-126.                                | 5.8  | 8         |
| 16 | Energy filtering and phonon scattering effects in Bi <sub>2</sub> Te <sub>3</sub> -PEDOT:PSS composite resulting in enhanced n-type thermoelectric performance. <i>Applied Physics Letters</i> , 2022, 120, .   | 3.3  | 8         |
| 17 | Decoupling of thermal and electrical conductivities by adjusting the anisotropic nature in tungsten diselenide causing significant enhancement in thermoelectric performance. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 60, 458-464.                                       | 5.8  | 7         |
| 18 | A novel chemical process of Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> nanocompound for effective adjustment in transport properties resulting in remarkable n-type thermoelectric performance. <i>Scripta Materialia</i> , 2016, 119, 13-16.  | 5.2  | 4         |

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|----|---|-----|-----------|
| 19 | Effects of the Interface between Inorganic and Organic Components in a Bi <sub>2</sub> Te <sub>3</sub> Polypyrrole Bulk Composite on Its Thermoelectric Performance. <i>Materials</i> , 2021, 14, 3080.                             | 2.9 | 4         |
| 20 | Morphological characteristics in polycrystalline tungsten diselenide regulating transport properties lead to predominant thermoelectric performance. <i>Journal of Alloys and Compounds</i> , 2017, 722, 183-189.                   | 5.5 | 3         |
| 21 | Selective generation of Ag interstitial defects in Te-rich Bi <sub>2</sub> (Te,Se) <sub>3</sub> using Ag nanoparticles causing significant improvement in thermoelectric performance. <i>Scripta Materialia</i> , 2018, 144, 36-39. | 5.2 | 1         |