

Chun-Hway Hsueh

List of Publications by Year in descending order

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84
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times ranked

2863
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Effects of La addition on the microstructure and mechanical properties of CoCrNi medium entropy alloy. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162401. | 2.8 | 18 |
| 2 | Effects of yttrium addition on microstructures and mechanical properties of CoCrNi medium entropy alloy. <i>Intermetallics</i> , 2022, 140, 107405. | 1.8 | 23 |
| 3 | Subwavelength VO ₂ Nanoparticle Films for Smart Window Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 2923-2934. | 2.4 | 10 |
| 4 | Au-Based Thin-Film Metallic Glasses for Propagating Surface Plasmon Resonance-Based Sensor Applications. <i>ACS Omega</i> , 2022, 7, 18780-18785. | 1.6 | 5 |
| 5 | Wafer-scale SERS metallic nanotube arrays with highly ordered periodicity. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129132. | 4.0 | 16 |
| 6 | Fatigue studies of CoCrFeMnNi high entropy alloy films using nanoindentation dynamic mechanical analyses. <i>Surface and Coatings Technology</i> , 2021, 410, 126927. | 2.2 | 10 |
| 7 | Kinetin Detection Enhancement Based on Photonic Nanojets and Surface-Enhanced Raman Scattering. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-8. | 1.9 | 1 |
| 8 | Nanotwinned CoCrFeMnNi high entropy alloy films for flexible electronic device applications. <i>Vacuum</i> , 2021, 189, 110249. | 1.6 | 9 |
| 9 | Structural and Optical Properties of Textured Silicon Substrates by Three-Step Chemical Etching. <i>Langmuir</i> , 2021, 37, 9622-9629. | 1.6 | 4 |
| 10 | Microstructures and mechanical properties of (CoCrFeMnNi) ₁₀₀ -Mo high entropy alloy films. <i>Intermetallics</i> , 2021, 135, 107236. | 1.8 | 13 |
| 11 | Effects of cerium addition on microstructures and mechanical properties of CoCrNi medium entropy alloy films. <i>Surface and Coatings Technology</i> , 2021, 424, 127645. | 2.2 | 10 |
| 12 | Fabrication of periodic Ag tetrahedral nanopyramids via H ₂ O ₂ -assisted nanosphere lithography for plasmonic applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 628, 127278. | 2.3 | 4 |
| 13 | Imprintable Au-Based Thin-Film Metallic Glasses with Different Crystallinities for Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23983-23990. | 1.5 | 4 |
| 14 | Effects of Nb Addition on Microstructures and Mechanical Properties of Nb _x -CoCrFeMnNi High Entropy Alloy Films. <i>Coatings</i> , 2021, 11, 1539. | 1.2 | 12 |
| 15 | Effects of Ag particle geometry on photocatalytic performance of Ag/TiO ₂ /reduced graphene oxide ternary systems. <i>Materials Chemistry and Physics</i> , 2020, 240, 122216. | 2.0 | 16 |
| 16 | Microstructures and mechanical properties of CoCrFeMnNi _{IV} high entropy alloy films. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153388. | 2.8 | 52 |
| 17 | Wettability, electron work function and corrosion behavior of CoCrFeMnNi high entropy alloy films. <i>Surface and Coatings Technology</i> , 2020, 400, 126222. | 2.2 | 27 |
| 18 | High hardness and fatigue resistance of CoCrFeMnNi high entropy alloy films with ultrahigh-density nanotwins. <i>International Journal of Plasticity</i> , 2020, 131, 102726. | 4.1 | 80 |

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|----|--|-----|-----------|
| 19 | Modifications of microstructures and mechanical properties of CoCrFeMnNi high entropy alloy films by adding Ti element. <i>Surface and Coatings Technology</i> , 2020, 399, 126149. | 2.2 | 19 |
| 20 | Growth, microstructure and mechanical properties of CoCrFeMnNi high entropy alloy films. <i>Vacuum</i> , 2020, 179, 109553. | 1.6 | 27 |
| 21 | Martensitic transformation and mechanical behavior of a medium-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 786, 139371. | 2.6 | 18 |
| 22 | Effects of Al Addition on Microstructures and Mechanical Properties of CoCrFeMnNiAl _x High Entropy Alloy Films. <i>Entropy</i> , 2020, 22, 2. | 1.1 | 35 |
| 23 | Photocurrent Enhancements of TiO ₂ -Based Nanocomposites with Gold Nanostructures/Reduced Graphene Oxide on Nanobranched Substrate. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21103-21113. | 1.5 | 33 |
| 24 | Fabrication of WO ₃ photoanode decorated with Au nanoplates and its enhanced photoelectrochemical properties. <i>Electrochimica Acta</i> , 2019, 321, 134674. | 2.6 | 19 |
| 25 | Hardness and strength enhancements of CoCrFeMnNi high-entropy alloy with Nd doping. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 764, 138192. | 2.6 | 56 |
| 26 | High quality thermochromic VO ₂ films prepared by magnetron sputtering using V ₂ O ₅ target with in situ annealing. <i>Applied Surface Science</i> , 2019, 495, 143436. | 3.1 | 44 |
| 27 | Thermochromic vanadium dioxide film on textured silica substrate for smart window with enhanced visible transmittance and tunable infrared radiation. <i>Infrared Physics and Technology</i> , 2019, 102, 103019. | 1.3 | 10 |
| 28 | Construction of Schottky junction solar cell using silicon nanowires and multi-layered graphene. <i>Superlattices and Microstructures</i> , 2019, 126, 42-48. | 1.4 | 11 |
| 29 | Combined metal-assisted chemical etching and anisotropic wet etching for anti-reflection inverted pyramidal cavities on dendrite-like textured substrates. <i>Results in Physics</i> , 2019, 12, 244-249. | 2.0 | 10 |
| 30 | Surface plasmons excited by multiple layer grating. <i>Optics Express</i> , 2019, 27, 1660. | 1.7 | 2 |
| 31 | Micromechanics Modeling of Creep Fracture of High-Temperature Ceramics. , 2019, , 1035-1091. | | 0 |
| 32 | Molecular Sensing and Color Manipulation Based on Dimension-Controlled Plasmon-Enhanced Silicon Nanotube SERS Substrates. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8510-8516. | 1.5 | 3 |
| 33 | Nanoscaled superelastic behavior of shape memory alloy/metallic glass multilayered films. <i>Composites Part B: Engineering</i> , 2018, 142, 193-199. | 5.9 | 20 |
| 34 | Surface Plasmon Excited on Imprintable Thin-Film Metallic Glasses for Surface-Enhanced Raman Scattering Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 908-914. | 2.4 | 11 |
| 35 | High performance and reusable SERS substrates using Ag/ZnO heterostructure on periodic silicon nanotube substrate. <i>Applied Surface Science</i> , 2018, 439, 852-858. | 3.1 | 31 |
| 36 | TiNiCuAg shape memory alloy films for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2018, 738, 336-344. | 2.8 | 19 |

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|----|---|-----|-----------|
| 37 | Periodic ZnO-Elevated Gold Dimer Nanostructures for Surface-Enhanced Raman Scattering Applications. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27016-27023. | 1.5 | 5 |
| 38 | Design of diffusion barrier and buffer layers for Zn_2Sb mid-temperature thermoelectric modules. <i>Journal of Alloys and Compounds</i> , 2018, 762, 631-636. | 2.8 | 7 |
| 39 | Micromechanics Modeling of Creep Fracture of High-Temperature Ceramics. , 2018, , 1-58. | | 0 |
| 40 | Improvement of photocatalytic activities of Ag/P25 hybrid systems by controlled morphology of Ag nanoprisms. <i>Materials Chemistry and Physics</i> , 2017, 192, 78-85. | 2.0 | 14 |
| 41 | Microstructure and mechanical properties of Zr-Ti-Cu-Nd metallic glass composites. <i>Journal of Alloys and Compounds</i> , 2017, 702, 318-326. | 2.8 | 15 |
| 42 | Suspended graphene with periodic dimer nanostructure on Si cavities for surface-enhanced Raman scattering applications. <i>Applied Physics Letters</i> , 2017, 110, 171111. | 1.5 | 8 |
| 43 | Viscous flow and viscosity measurement of low-temperature imprintable AuCuSi thin film metallic glasses investigated by nanoindentation creep. <i>Materials and Design</i> , 2017, 123, 112-119. | 3.3 | 12 |
| 44 | Far-field and near-field monitoring of hybridized optical modes from Au nanoprisms suspended on a graphene/Si nanopillar array. <i>Nanoscale</i> , 2017, 9, 16950-16959. | 2.8 | 10 |
| 45 | Mechanical properties and microstructure of Zr-Ti-Ni thin film metallic glasses modified with minor SF6. <i>Composites Part B: Engineering</i> , 2017, 129, 243-250. | 5.9 | 10 |
| 46 | Gold-rich ligament nanostructure by dealloying Au-based metallic glass ribbon for surface-enhanced Raman scattering. <i>Scientific Reports</i> , 2017, 7, 7485. | 1.6 | 14 |
| 47 | Free-standing gold elliptical nanoantenna with tunable wavelength in near-infrared region for enhanced Raman spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1. | 1.1 | 7 |
| 48 | Effects of the rotation angle on surface plasmon coupling of nanoprisms. <i>Nanoscale</i> , 2016, 8, 3660-3670. | 2.8 | 16 |
| 49 | 3D Nanostructures of Silver Nanoparticle-Decorated Suspended Graphene for SERS Detection. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3448-3457. | 1.5 | 18 |
| 50 | Electroplastic forming in a Fe-based metallic glass ribbon. <i>Journal of Alloys and Compounds</i> , 2016, 658, 795-799. | 2.8 | 13 |
| 51 | Zr-Ti-Ni thin film metallic glass as a diffusion barrier between copper and silicon. <i>Journal of Materials Science</i> , 2015, 50, 2085-2092. | 1.7 | 30 |
| 52 | Optical Control of Fluorescence through Plasmonic Eigenmode Extinction. <i>Scientific Reports</i> , 2015, 5, 9911. | 1.6 | 5 |
| 53 | Anti-reflection textured structures by wet etching and island lithography for surface-enhanced Raman spectroscopy. <i>Applied Surface Science</i> , 2015, 357, 615-621. | 3.1 | 20 |
| 54 | Finite Element Analysis and Design of Thermal-Mechanical Stresses in Multilayer Ceramic Capacitors. <i>International Journal of Applied Ceramic Technology</i> , 2015, 12, 451-460. | 1.1 | 17 |

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|----|---|-----|-----------|
| 55 | Effects of corner radius on periodic nanoantenna for surface-enhanced Raman spectroscopy. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 125002. | 1.0 | 13 |
| 56 | Optimized Sensitivity and Electric Field Enhancement by Controlling Localized Surface Plasmon Resonances for Bowtie Nanoring Nanoantenna Arrays. <i>Plasmonics</i> , 2015, 10, 553-561. | 1.8 | 22 |
| 57 | Superelasticity of TiNi-based shape memory alloys at micro/nanoscale. <i>Journal of Materials Research</i> , 2014, 29, 2717-2726. | 1.2 | 7 |
| 58 | Rapid thermoplastic formation of Fe-based metallic glass foil achieved by electropulsing. <i>Materials Letters</i> , 2014, 136, 353-355. | 1.3 | 10 |
| 59 | Advanced characterization of mechanical properties of multilayer ceramic capacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 627-634. | 1.1 | 12 |
| 60 | Control of Stress Concentration in Surface-Mounted Multilayer Ceramic Capacitor Subjected to Bending. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1170-1176. | 1.9 | 7 |
| 61 | Micromechanics modeling of creep fracture of zirconium diboride-silicon carbide composites at 1400-1700°C. <i>Journal of the European Ceramic Society</i> , 2014, 34, 4145-4155. | 2.8 | 22 |
| 62 | Thin film metallic glass as an underlayer for tin whisker mitigation: A room-temperature evaluation. <i>Thin Solid Films</i> , 2014, 561, 93-97. | 0.8 | 14 |
| 63 | Effects of annealing on mechanical behavior of Zr-Ti-Ni thin film metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 608, 258-264. | 2.6 | 37 |
| 64 | A micromechanics study of competing mechanisms for creep fracture of zirconium diboride polycrystals. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1625-1637. | 2.8 | 11 |
| 65 | Rapid relaxation and embrittlement of Zr-based bulk metallic glasses by electropulsing. <i>Intermetallics</i> , 2013, 34, 43-48. | 1.8 | 10 |
| 66 | Giant Electric Field Enhancement and Localized Surface Plasmon Resonance by Optimizing Contour Bowtie Nanoantennas. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25004-25011. | 1.5 | 45 |
| 67 | Plasticity enhancement of Zr-based bulk metallic glasses by direct current electropulsing. <i>Journal of Alloys and Compounds</i> , 2012, 525, 68-72. | 2.8 | 19 |
| 68 | Effects of grain boundary heterogeneities on creep fracture studied by rate-dependent cohesive model. <i>Engineering Fracture Mechanics</i> , 2012, 93, 48-64. | 2.0 | 15 |
| 69 | Novel method to measure the shear strength of exfoliated montmorillonite/polymer nanocomposite films. <i>Polymer International</i> , 2012, 61, 174-179. | 1.6 | 3 |
| 70 | High Tunability of the Surface-Enhanced Raman Scattering Response with a Metal-Multiferroic Composite. <i>Nano Letters</i> , 2011, 11, 1265-1269. | 4.5 | 22 |
| 71 | Resonance modes, cavity field enhancements, and long-range collective photonic effects in periodic bowtie nanostructures. <i>Optics Express</i> , 2011, 19, 19660. | 1.7 | 16 |
| 72 | Measurements of residual stresses in Al film/silicon nitride substrate microcantilever beam systems. <i>Journal of Materials Research</i> , 2011, 26, 1279-1284. | 1.2 | 5 |

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|----|---|-----|-----------|
| 73 | Free-Standing Optical Gold Bowtie Nanoantenna with Variable Gap Size for Enhanced Raman Spectroscopy. Nano Letters, 2010, 10, 4952-4955. | 4.5 | 480 |
| 74 | Controlled normal/shear loading and shear fracture in bulk metallic glasses. Intermetallics, 2009, 17, 802-810. | 1.8 | 8 |
| 75 | Shear fracture of bulk metallic glasses with controlled applied normal stresses. Scripta Materialia, 2008, 59, 111-114. | 2.6 | 18 |
| 76 | Analyses of mode I edge delamination by thermal stresses in multilayer systems. Composites Part B: Engineering, 2006, 37, 1-9. | 5.9 | 27 |
| 77 | Master curves for Hertzian indentation on coating/substrate systems. Journal of Materials Research, 2004, 19, 94-100. | 1.2 | 40 |
| 78 | Combined empirical-analytical method for determining contact radius and indenter displacement during Hertzian indentation on coating/substrate systems. Journal of Materials Research, 2004, 19, 2774-2781. | 1.2 | 30 |
| 79 | Effects of viscous flow on residual stresses in film/substrate systems. Journal of Applied Physics, 2002, 91, 2760-2765. | 1.1 | 23 |
| 80 | Modeling of elastic deformation of multilayers due to residual stresses and external bending. Journal of Applied Physics, 2002, 91, 9652. | 1.1 | 283 |
| 81 | Apparent coefficient of thermal expansion and residual stresses in multilayer capacitors. Composites Part A: Applied Science and Manufacturing, 2002, 33, 1115-1121. | 3.8 | 17 |
| 82 | Thermal stresses in elastic multilayer systems. Thin Solid Films, 2002, 418, 182-188. | 0.8 | 234 |
| 83 | A damage model of creep crack growth in polycrystals. Acta Metallurgica, 1983, 31, 1675-1687. | 2.1 | 55 |
| 84 | Overview 14 Creep fracture in ceramic polycrystals-II. effects of inhomogeneity on creep rupture. Acta Metallurgica, 1981, 29, 1907-1917. | 2.1 | 47 |