

Chun-Hway Hsueh

List of Publications by Year in descending order

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84
papers

2,455
citations

304602

22
h-index

223716

46
g-index

84
all docs

84
docs citations

84
times ranked

2863
citing authors

#	ARTICLE	IF	CITATIONS
1	Free-Standing Optical Gold Bowtie Nanoantenna with Variable Gap Size for Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2010, 10, 4952-4955.	4.5	480
2	Modeling of elastic deformation of multilayers due to residual stresses and external bending. <i>Journal of Applied Physics</i> , 2002, 91, 9652.	1.1	283
3	Thermal stresses in elastic multilayer systems. <i>Thin Solid Films</i> , 2002, 418, 182-188.	0.8	234
4	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
5	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
6	A damage model of creep crack growth in polycrystals. <i>Acta Metallurgica</i> , 1983, 31, 1675-1687.	2.1	55
7	Microstructures and mechanical properties of CoCrFeMnNiV high entropy alloy films. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153388.	2.8	52
8	Overview 14 Creep fracture in ceramic polycrystals—II. effects of inhomogeneity on creep rupture. <i>Acta Metallurgica</i> , 1981, 29, 1907-1917.	2.1	47
9	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
10	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
11	Master curves for Hertzian indentation on coating/substrate systems. <i>Journal of Materials Research</i> , 2004, 19, 94-100.	1.2	40
12	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
13	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
14	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
15	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
16	Combined empirical-analytical method for determining contact radius and indenter displacement during Hertzian indentation on coating/substrate systems. <i>Journal of Materials Research</i> , 2004, 19, 2774-2781.	1.2	30
17	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
18	Analyses of mode I edge delamination by thermal stresses in multilayer systems. <i>Composites Part B: Engineering</i> , 2006, 37, 1-9.	5.9	27

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19	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
20	Growth, microstructure and mechanical properties of CoCrFeMnNi high entropy alloy films. <i>Vacuum</i> , 2020, 179, 109553.	1.6	27
21	Effects of viscous flow on residual stresses in film/substrate systems. <i>Journal of Applied Physics</i> , 2002, 91, 2760-2765.	1.1	23
22	Effects of yttrium addition on microstructures and mechanical properties of CoCrNi medium entropy alloy. <i>Intermetallics</i> , 2022, 140, 107405.	1.8	23
23	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
24	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
25	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
26	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
27	Nanoscaled superelastic behavior of shape memory alloy/metallic glass multilayered films. <i>Composites Part B: Engineering</i> , 2018, 142, 193-199.	5.9	20
28	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
29	TiNiCuAg shape memory alloy films for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2018, 738, 336-344.	2.8	19
30	Fabrication of WO ₃ photoanode decorated with Au nanoplates and its enhanced photoelectrochemical properties. <i>Electrochimica Acta</i> , 2019, 321, 134674.	2.6	19
31	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
32	Shear fracture of bulk metallic glasses with controlled applied normal stresses. <i>Scripta Materialia</i> , 2008, 59, 111-114.	2.6	18
33	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
34	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
35	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
36	Apparent coefficient of thermal expansion and residual stresses in multilayer capacitors. <i>Composites Part A: Applied Science and Manufacturing</i> , 2002, 33, 1115-1121.	3.8	17

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37	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
38	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
39	Effects of the rotation angle on surface plasmon coupling of nanoprisms. <i>Nanoscale</i> , 2016, 8, 3660-3670.	2.8	16
40	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
41	Wafer-scale SERS metallic nanotube arrays with highly ordered periodicity. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129132.	4.0	16
42	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
43	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
44	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
45	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
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	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
48	Electroplastic forming in a Fe-based metallic glass ribbon. <i>Journal of Alloys and Compounds</i> , 2016, 658, 795-799.	2.8	13
49	Microstructures and mechanical properties of (CoCrFeMnNi) ₁₀₀ -Mo high entropy alloy films. <i>Intermetallics</i> , 2021, 135, 107236.	1.8	13
50	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
51	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
52	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
53	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
54	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

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55	Construction of Schottky junction solar cell using silicon nanowires and multi-layered graphene. Superlattices and Microstructures, 2019, 126, 42-48.	1.4	11
56	Rapid relaxation and embrittlement of Zr-based bulk metallic glasses by electropulsing. Intermetallics, 2013, 34, 43-48.	1.8	10
57	Rapid thermoplastic formation of Fe-based metallic glass foil achieved by electropulsing. Materials Letters, 2014, 136, 353-355.	1.3	10
58	Far-field and near-field monitoring of hybridized optical modes from Au nanoprisms suspended on a graphene/Si nanopillar array. Nanoscale, 2017, 9, 16950-16959.	2.8	10
59	Mechanical properties and microstructure of Zr-Ti-Ni thin film metallic glasses modified with minor SF6. Composites Part B: Engineering, 2017, 129, 243-250.	5.9	10
60	Thermochromic vanadium dioxide film on textured silica substrate for smart window with enhanced visible transmittance and tunable infrared radiation. Infrared Physics and Technology, 2019, 102, 103019.	1.3	10
61	Combined metal-assisted chemical etching and anisotropic wet etching for anti-reflection inverted pyramidal cavities on dendrite-like textured substrates. Results in Physics, 2019, 12, 244-249.	2.0	10
62	Fatigue studies of CoCrFeMnNi high entropy alloy films using nanoindentation dynamic mechanical analyses. Surface and Coatings Technology, 2021, 410, 126927.	2.2	10
63	Effects of cerium addition on microstructures and mechanical properties of CoCrNi medium entropy alloy films. Surface and Coatings Technology, 2021, 424, 127645.	2.2	10
64	Subwavelength VO ₂ Nanoparticle Films for Smart Window Applications. ACS Applied Nano Materials, 2022, 5, 2923-2934.	2.4	10
65	Nanotwinned CoCrFeMnNi high entropy alloy films for flexible electronic device applications. Vacuum, 2021, 189, 110249.	1.6	9
66	Controlled normal/shear loading and shear fracture in bulk metallic glasses. Intermetallics, 2009, 17, 802-810.	1.8	8
67	Suspended graphene with periodic dimer nanostructure on Si cavities for surface-enhanced Raman scattering applications. Applied Physics Letters, 2017, 110, 171111.	1.5	8
68	Superelasticity of TiNi-based shape memory alloys at micro/nanoscale. Journal of Materials Research, 2014, 29, 2717-2726.	1.2	7
69	Control of Stress Concentration in Surface-mounted Multilayer Ceramic Capacitor Subjected to Bending. Journal of the American Ceramic Society, 2014, 97, 1170-1176.	1.9	7
70	Free-standing gold elliptical nanoantenna with tunable wavelength in near-infrared region for enhanced Raman spectroscopy. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	7
71	Design of diffusion barrier and buffer layers for $\hat{\rho}$ -Zn ₄ Sb ₃ mid-temperature thermoelectric modules. Journal of Alloys and Compounds, 2018, 762, 631-636.	2.8	7
72	Measurements of residual stresses in Al film/silicon nitride substrate microcantilever beam systems. Journal of Materials Research, 2011, 26, 1279-1284.	1.2	5

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73	Optical Control of Fluorescence through Plasmonic Eigenmode Extinction. Scientific Reports, 2015, 5, 9911.	1.6	5
74	Periodic ZnO-Elevated Gold Dimer Nanostructures for Surface-Enhanced Raman Scattering Applications. Journal of Physical Chemistry C, 2018, 122, 27016-27023.	1.5	5
75	Au-Based Thin-Film Metallic Glasses for Propagating Surface Plasmon Resonance-Based Sensor Applications. ACS Omega, 2022, 7, 18780-18785.	1.6	5
76	Structural and Optical Properties of Textured Silicon Substrates by Three-Step Chemical Etching. Langmuir, 2021, 37, 9622-9629.	1.6	4
77	Fabrication of periodic Ag tetrahedral nanopyramids via H2O2-assisted nanosphere lithography for plasmonic applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127278.	2.3	4
78	Imprintable Au-Based Thin-Film Metallic Glasses with Different Crystallinities for Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2021, 125, 23983-23990.	1.5	4
79	Novel method to measure the shear strength of exfoliated montmorillonite/polymer nanocomposite films. Polymer International, 2012, 61, 174-179.	1.6	3
80	Molecular Sensing and Color Manipulation Based on Dimension-Controlled Plasmon-Enhanced Silicon Nanotube SERS Substrates. Journal of Physical Chemistry C, 2018, 122, 8510-8516.	1.5	3
81	Surface plasmons excited by multiple layer grating. Optics Express, 2019, 27, 1660.	1.7	2
82	Kinetin Detection Enhancement Based on Photonic Nanojets and Surface-Enhanced Raman Scattering. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	1.9	1
83	Micromechanics Modeling of Creep Fracture of High-Temperature Ceramics. , 2018, , 1-58.		0
84	Micromechanics Modeling of Creep Fracture of High-Temperature Ceramics. , 2019, , 1035-1091.		0