Seung Zeon Han

List of Publications by Year
in descending order

38 papers	731 citations	516710 16 h-index	552781 26 g-index
38 all docs	38 docs citations	38 times ranked	494 citing authors

#	Article	IF	Citations
1	Ultrathin Silver Film Electrodes with Ultralow Optical and Electrical Losses for Flexible Organic Photovoltaics. ACS Applied Materials & Interfaces, 2018, 10, 27510-27520.	8.0	80
2	Alloy design strategies to increase strength and its trade-offs together. Progress in Materials Science, 2021, 117, 100720.	32.8	77
3	Microstructural evaluation of interfacial intermetallic compounds in Cu wire bonding with Al and Au pads. Acta Materialia, 2014, 64, 356-366.	7.9	57
4	Optical Transmittance Enhancement of Flexible Copper Film Electrodes with a Wetting Layer for Organic Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 38695-38705.	8.0	44
5	Increasing strength and conductivity of Cu alloy through abnormal plastic deformation of an intermetallic compound. Scientific Reports, 2016, 6, 30907.	3.3	40
6	Optimization of conductivity and strength in Cu-Ni-Si alloys by suppressing discontinuous precipitation. Metals and Materials International, 2016, 22, 1049-1054.	3.4	34
7	Effects of C addition and thermo-mechanical treatments on microstructures and properties of Cuâ€“Feâ€“P alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 652-658.	5.6	33
8	Strategy for improving Ag wetting on oxides: Coalescence dynamics versus nucleation density. Applied Surface Science, 2020, 510, 145515.	6.1	32
9	Design of exceptionally strong and conductive Cu alloys beyond the conventional speculation via the interfacial energy-controlled dispersion of Î³-Al2O3 nanoparticles. Scientific Reports, 2015, 5, 17364.	3.3	31
10	Bonding structure and optical bandgap of rf sputtered hydrogenated amorphous silicon carbide alloy films. Journal of Non-Crystalline Solids, 1994, 170, 199-204.	3.1	29
11	Effects of Ti addition and heat treatments on mechanical and electrical properties of Cu-Ni-Si alloys. Metals and Materials International, 2013, 19, 61-65.	3.4	27
12	Tensile and electrical properties of direct aged Cu-Ni-Si-x%Ti alloys. Metals and Materials International, 2013, 19, 183-188.	3.4	22
13	An unexpected surfactant role of immiscible nitrogen in the structural development of silver nanoparticles: an experimental and numerical investigation. Nanoscale, 2020, 12, 1749-1758.	5.6	21
14	Increasing toughness by promoting discontinuous precipitation in Cuâ€“Niâ€“Si alloys. Philosophical Magazine Letters, 2016, 96, 196-203.	1.2	20
15	Ti-added alumina dispersion-strengthened Cu alloy fabricated by oxidation. Journal of Alloys and Compounds, 2015, 622, 384-387.	5.5	19
16	Grain growth in ultrafine grain sized copper during cyclic deformation. Journal of Alloys and Compounds, 2014, 615, S587-S589.	5.5	18
17	Discontinuous precipitation at the deformation band in copper alloy. Metals and Materials International, 2018, 24, 23-27.	3.4	18
18	An unexpected role of atomic oxygen dopants in Au evolution from clusters to a layer. Acta Materialia, 2021, 202, 277-289.	7.9	15

#	Article	IF	Citations
19	Nonconventional nucleation and growth of Au nanoparticles with improved adhesion on oxygen-excessive oxide surfaces. Applied Surface Science, 2021, 553, 149385.	6.1	13
20	Effects of substantial atomic-oxygen migration across silverÂâ˘'Âoxide interfaces during silver growth. Applied Surface Science, 2021, 568, 150927.	6.1	12
21	Effect of alloyed Ti:Zr ratio on phase stability of Al66Mn9(Ti, Zr)25 intermetallic compounds. Intermetallics, 1996, 4, 245-249.	3.9	10
22	Fatigue damage generation in ECAPed oxygen free copper. Journal of Alloys and Compounds, 2009, 483, 159-161.	5.5	10
23	Strategy for Fabricating Ultrathin Au Film Electrodes with Ultralow Optoelectrical Losses and High Stability. ACS Applied Materials & Interfaces, 2022, 14, 12797-12811.	8.0	9
24	The effect of bimodal structure with nanofibers and normal precipitates on the mechanical and electrical properties of Cu Ni Si alloy. Materials Characterization, 2020, 170, 110642.	4.4	8
25	Simultaneous increase in strength and ductility by decreasing interface energy between Zn and Al phases in cast Al-Zn-Cu alloy. Scientific Reports, 2017, 7, 12195.	3.3	7
26	Simple optimization for strength and conductivity of Cu-Ni-Si alloy with discontinuous precipitation. Materials Characterization, 2022, 184, 111605.	4.4	7
27	A correction to optimum alloy composition for design of high-temperature high-strength AlTiVZr alloys through thermodynamic calculations. Scripta Materialia, 1997, 37, 93-97.	5.2	5
28	Accelerating heterogeneous nucleation to increase hardness and electrical conductivity by deformation prior to ageing for Cu-4 at.% Ti alloy. Philosophical Magazine Letters, 2019, 99, 275-283.	1.2	5
29	A 3nm-thick, quasi-single crystalline Cu layer with ultralow optoelectrical losses and exceptional durability. Acta Materialia, 2022, 223, 117484.	7.9	5
30	Co and Ti effect on hot workability of phosphor bronze. Journal of Alloys and Compounds, 2022, 903, 163778.	5.5	5
31	FATIGUE DAMAGE OF ULTRAFINE GRAINED OXYGEN-FREE COPPER. International Journal of Modern Physics B, 2006, 20, 4219-4224.	2.0	3
32	Effect of pre-deformation before aging on discontinuous precipitation behaviour in Cu-Ni-Si alloys. Philosophical Magazine Letters, 2021, 101, 51-59.	1.2	3
33	Formation process of fatigue slip bands with unique configurations of ultrafine-grained high-purity Cu fabricated by severe plastic deformation. Journal of Alloys and Compounds, 2022, 899, 163263.	5.5	3
34	Thermodynamically driven Al migration across ultrathin Ag layered electrodes without thermal loading. Applied Surface Science, 2022, 588, 152907.	6.1	3
35	Nano-Eutectic Growth in Co-17.8 wt%Gd Alloy Ribbons and the Magnetostrictive Properties at Different Wheel Speeds. Journal of Nanoscience and Nanotechnology, 2014, 14, 8572-8577.	0.9	2
36	Coherent interface driven super-plastic elongation of brittle intermetallic nano-fibers at room temperature. Journal of Materials Science and Technology, 2022, 115, 97-102.	10.7	2

#	Article	IF	Citations
37	Influence of Vanadium on Aging Characteristics of Cold Rolled Cu-Ni-Si Alloy. Materials Science Forum, 2010, 658, 256-259.	0.3	1
38	Fatigue Strength of Ultrafine Grained Copper Treated by Post-ECAP Mild Annealing. Advanced Materials Research, 2011, 275, 23-26.	0.3	1