Seungwon Lee

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7345346/publications.pdf

Version: 2024-02-01

84	1,336	394390 19	361001 35
papers	citations	h-index	g-index

87	87	87	1100
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of dislocationâ€“solute atom interactions and stacking fault energy on grain size of single-phase alloys after severe plastic deformation using high-pressure torsion. Acta Materialia, 2014, 69, 68-77.	7.9	173
2	Precipitation kinetics in a severely plastically deformed 7075 aluminium alloy. Acta Materialia, 2014, 66, 105-117.	7.9	111
3	Formation of FeNi withL1₀-ordered structure using high-pressure torsion. Philosophical Magazine Letters, 2014, 94, 639-646.	1.2	79
4	High-pressure torsion of titanium at cryogenic and room temperatures: Grain size effect on allotropic phase transformations. Acta Materialia, 2014, 68, 207-213.	7.9	78
5	Age hardening and thermal stability of Alâ€“Cu alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 627, 111-118.	5.6	70
6	Atomic scale HAADF-STEM study of Î·â€² and Î· 1 phases in peak-aged Alâ€“Znâ€“Mg alloys. Journal of Materials Science, 2018, 53, 4598-4611.	3.7	62
7	Microstructures and Mechanical Properties of Pure V and Mo Processed by High-Pressure Torsion. Materials Transactions, 2010, 51, 1072-1079.	1.2	55
8	Strengthening of Cuâ€“Niâ€“Si alloy using high-pressure torsion and aging. Materials Characterization, 2014, 90, 62-70.	4.4	50
9	Age-hardening of an Alâ€“Liâ€“Cuâ€“Mg alloy (2091) processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 546, 82-89.	5.6	48
10	High-Pressure Torsion for Pure Chromium and Niobium. Materials Transactions, 2012, 53, 38-45.	1.2	45
11	Concurrent strengthening of ultrafine-grained age-hardenable Al-Mg alloy by means of high-pressure torsion and spinodal decomposition. Acta Materialia, 2017, 131, 57-64.	7.9	45
12	Strengthening of A2024 alloy by high-pressure torsion and subsequent aging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 112-118.	5.6	45
13	Continuous high-pressure torsion using wires. Journal of Materials Science, 2012, 47, 473-478.	3.7	44
14	Methods for Designing Concurrently Strengthened Severely Deformed Age-Hardenable Aluminum Alloys by Ultrafine-Grained and Precipitation Hardenings. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3921-3933.	2.2	43
15	Strengthening of AA7075 alloy by processing with high-pressure sliding (HPS) and subsequent aging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 56-61.	5.6	38
16	High strength and superconductivity in nanostructured niobiumâ€“titanium alloy by high-pressure torsion and annealing: Significance of elemental decomposition and supersaturation. Acta Materialia, 2014, 80, 149-158.	7.9	33
17	Aging Behavior of Al 6061 Alloy Processed by High-Pressure Torsion and Subsequent Aging. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2664-2673.	2.2	31
18	Superconducting properties in bulk nanostructured niobium prepared by high-pressure torsion. Physica C: Superconductivity and Its Applications, 2013, 493, 132-135.	1.2	25

#	Article	IF	Citations
19	Extra Electron Diffraction Spots Caused by Fine Precipitates Formed at the Early Stage of Aging in Al-Mg-X (X=Si, Ge, Zn)-Cu Alloys. Materials Transactions, 2017, 58, 167-175.	1.2	22
20	Aging behavior of Al-Li-(Cu, Mg) alloys processed by different deformation methods. Materials and Design, 2020, 196, 109139.	7.0	22
21	Effect of Copper Addition on Precipitation Behavior near Grain Boundary in Alâ€“Znâ€“Mg Alloy. Materials Transactions, 2019, 60, 1688-1696.	1.2	20
22	Effects of texture and precipitates characteristics on anisotropic hardness evolution during artificial aging for an Alâ€“Cuâ€“Li alloy. Materials and Design, 2021, 212, 110216.	7.0	17
23	Origin of the influence of Cu or Ag micro-additions on the age hardening behavior of ultrafine-grained Al-Mg-Si alloys. Journal of Alloys and Compounds, 2017, 710, 199-204.	5.5	16
24	Critical Temperature in Bulk Ultrafine-Grained Superconductors of Nb, V, and Ta Processed by High-Pressure Torsion. Materials Transactions, 2019, 60, 1367-1376.	1.2	12
25	Microstructure evolution in a hydrogen charged and aged Alâ€“Znâ€“Mg alloy. Materialia, 2018, 3, 50-56.	2.7	11
26	Enhancement of Strength and Ductility of Al-Ag Alloys Processed by High-Pressure Torsion and Aging. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3221-3231.	2.2	10
27	Nanoscale characterization of FeNi alloys processed by high-pressure torsion using photoelectron emission microscope. Journal of Applied Physics, 2013, 114, .	2.5	10
28	Aging behavior and microstructure of aged excess Mg type Al^|^#8211;Mg^|^#8211;Si alloys after HPT processing. Keikinzoku/Journal of Japan Institute of Light Metals, 2013, 63, 406-412.	0.4	8
29	Early Stage Clustering Behavior in Al-Mg-Si Alloys Observed via Time Dependent Magnetization. Materials Transactions, 2016, 57, 627-630.	1.2	8
30	Effect of Copper Addition on the Cluster Formation Behavior of Al-Mg-Si, Al-Zn-Mg, and Al-Mg-Ge in the Natural Aging. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5871-5877.	2.2	8
31	Effect of cooling rate on precipitation during homogenization cooling in excess Si type Alâ€“Mgâ€“Si alloy. Materials Letters, 2020, 278, 128363.	2.6	8
32	The possible transition mechanism for the meta-stable phase in the 7xxx aluminium. Materials Science and Technology, 2020, 36, 1621-1627.	1.6	8
33	Low-Temperature and High-Strain-Rate Superplasticity of Ultrafine-Grained A7075 Processed by High-Pressure Torsion. Materials Transactions, 2018, 59, 1341-1347.	1.2	7
34	Microstructures and the Mechanical Properties of the Alâ€“Liâ€“Cu Alloy Strengthened by the Combined Use of Accumulative Roll Bonding and Aging. Advanced Engineering Materials, 2020, 22, 1900561.	3.5	6
35	Aging Behavior of Ultrafine-Grained Al–Mg–Si–X (X = Cu, Ag, Pt, Pd) Alloys Produced by High-Pressure Torsion. Materials Transactions, 2014, 55, 640-645.	1.2	5
36	Muon Spin Relaxation Study of Soluteâ€“Vacancy Interactions During Natural Aging of Al-Mg-Si-Cu Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3446-3451.	2.2	5

#	Article	IF	Citations
37	Annealing Behavior of FeNi Alloy Processed by High-Pressure Torsion. Materials Science Forum, 0, 667-669, 313-318.	0.3	4
38	Effect of extrusion conditions on recrystallization texture in A6063 alloy. Keikinzoku/Journal of Japan Institute of Light Metals, 2019, 69, 327-331.	0.4	4
39	Effect of Cooling Rate on Precipitation during Homogenization Cooling in Balanced Alâ€“Mg₂Si Alloy. Materials Transactions, 2020, 61, 2115-2120.	1.2	4
40	Aging behavior of ultrafine-grained Al^|^ndash;Mg^|^ndash;Si^|^ndash;X (X=Cu, Ag, Pt, Pd) alloys produced by high-pressure torsion. Keikinzoku/Journal of Japan Institute of Light Metals, 2012, 62, 448-453.	0.4	3
41	Strengthening of Al 6061 Alloy by High-Pressure Torsion through Grain Refinement and Aging. Materials Science Forum, 2013, 765, 408-412.	0.3	3
42	Nanostructure control of age-hardenable Al 2024 alloy by high-pressure torsion. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012083.	0.6	3
43	Precipitation structure and mechanical properties on peak-aged Alâ€“Znâ€“Mg alloys including different with some Zn/Mg ratios. Keikinzoku/Journal of Japan Institute of Light Metals, 2017, 67, 162-167.	0.4	3
44	Effect of Thermal Cycles on Microstructure of Er₂O₃ Thin Film on SUS316 Substrate with Y₂O₃ Buffer Layer Fabricated by MOCVD Method. Materials Transactions, 2018, 59, 176-181.	1.2	3
45	Abnormally enhanced diamagnetism in Al-Zn-Mg alloys. Journal of Alloys and Compounds, 2019, 774, 405-409.	5.5	3
46	Corrosion Behavior of Crofer 22APU for Metallic Interconnects in Single and Dual Atmosphere Exposures at 1073~K. Acta Physica Polonica A, 2017, 131, 1394-1399.	0.5	3
47	Superplasticity of Ultra-Fine Grained 7075 Alloy Processed by High-Pressure Torsion. Materials Science Forum, 0, 794-796, 807-810.	0.3	2
48	The Effect of Thermal History on Microstructure of Er₂O₃Coating Layer Prepared by MOCVD Process. Plasma and Fusion Research, 2016, 11, 2405120-2405120.	0.7	2
49	Effect of copper on fine precipitates at the early stage of aging in Alâ€“Mgâ€“X (X=Si, Ge, Zn) alloys. Keikinzoku/Journal of Japan Institute of Light Metals, 2017, 67, 186-192.	0.4	2
50	Microstructure of Erbium Oxide Thin Film on SUS316 Substrate with Y₂O₃ or CeO₂ Buffer Layers Formed by MOCVD Method. Materials Transactions, 2017, 58, 231-235.	1.2	2
51	TEM Observation of Precipitates in Cast Al-7%Si-0.3%Mg Alloy Aged at 473 K. Journal of Smart Processing, 2019, 8, 155-159.	0.1	2
52	Aging Behavior of Al-Li-Cu-Mg Alloy Processed by High-Pressure Torsion. Materials Science Forum, 2010, 654-656, 1243-1246.	0.3	1
53	Dynamic Interactions between Precipitation and Plastic Deformation in Aluminium Alloys. Materials Science Forum, 0, 794-796, 1133-1140.	0.3	1
54	Three Strategies to Achieve Concurrent Strengthening by Ultrafine-grained and Precipitation Hardenings for Severely Deformed Age-hardenable Aluminum Alloys. Materia Japan, 2016, 55, 45-52.	0.1	1

#	Article	IF	Citations
55	PM-21Microstructure observation of cold-rolled Al-Mg-Si alloy with Cu and Ag addition. Microscopy (Oxford, England), 2018, 67, i45-i45.	1.5	1
56	Formation of Erbia-Yttria double layer fabricated by metal organic chemical vapor deposition process with changing oxygen flow rates. Thin Solid Films, 2019, 689, 137455.	1.8	1
57	Texture formation process of 6063-type aluminium alloy during hot extrusion. MATEC Web of Conferences, 2020, 326, 05005.	0.2	1
58	Recent Research for Age-precipitation Sequence on Al-Mg-Si Alloys. Materia Japan, 2021, 60, 404-410.	0.1	1
59	Effect of Cu2+ Ion Irradiation on Microstructure of Er2O3 Coating Layer Formed by MOCVD Method. Acta Physica Polonica A, 2017, 131, 1351-1353.	0.5	1
60	Effect of Sn and Rare Earth Elements on Mechanical Properties and Morphology of Spheroidal Graphite in FCD450 Cast Iron. Journal of Smart Processing, 2016, 5, 373-379.	0.1	1
61	Microstructure of Small Amount of TM Added Al-Mg-Si Alloys with Two-Step Ageing. Acta Physica Polonica A, 2017, 131, 1373-1376.	0.5	1
62	TEM Observation of Cu and Ag Added Al-Mg-Si Alloy. Acta Physica Polonica A, 2017, 131, 1379-1381.	0.5	1
63	Effect of Mn contents on Mgâ€“6%Al alloys aged at 473â€‰K. Keikinzoku/Journal of Japan Institute of Light Metals, 2018, 68, 480-486.	0.4	1
64	TEM Observation of HPT-Processed Cu-Added Excess Mg-Type Al-Mg-Si Alloys. Materials Science Forum, 0, 794-796, 811-814.	0.3	0
65	Effect of HPT on Age-Hardening Behavior in Cu-Added Excess Mg-Type Al-Mg-Si Alloys. Advanced Materials Research, 0, 922, 487-490.	0.3	0
66	GRAIN REFINEMENT AND MICROSTRUCTURE EVOLUTION IN ALUMINUM A2618 ALLOY BY HIGH-PRESSURE TORSION. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	0
67	Microstructure Observations of Graphite in Gray Cast Iron Using TEM. Materials Science Forum, 2016, 879, 1911-1914.	0.3	0
68	The Effect of Sc Addition on Microstructure in Mg-Gd Alloys. Materials Science Forum, 2016, 879, 2239-2242.	0.3	0
69	Fabrication and property evaluation of WO3 particles dispersed Al-based composite material. MATEC Web of Conferences, 2017, 130, 03002.	0.2	0
70	Effect of Addition of Inoculants and Solidification Structure on Machinability in Flake Graphite Cast Iron. Journal of Smart Processing, 2017, 6, 81-86.	0.1	0
71	Production of Al-based composite materials including stress-luminescent particles using 3-dimensional penetration casting (3DPC). MATEC Web of Conferences, 2017, 130, 03003.	0.2	0
72	PM-16Influence of heat treatment on the structure of CrSiCN coatongs. Microscopy (Oxford,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	1.5	0

#	Article	IF	Citations
73	PM-12Precipitates structure analysis of Mg-Y-Sc alloy by HRTEM. Microscopy (Oxford, England), 2018, 67, i41-i41.	1.5	0
74	PM-22Microstructure observation of HPT processed Al-2.5mass%Li(-2.0mass%Cu) alloy. Microscopy (Oxford, England), 2018, 67, i46-i46.	1.5	0
75	PM-11TEM observation of Al-1.0mass%Mg2Ge alloys with different elements. Microscopy (Oxford, England), 2018, 67, i40-i40.	1.5	0
76	PM-15Effect of Cu concentration on aiging behaviour and precipitation of Al-Zn-Mg Alloy with high Zn concentration. Microscopy (Oxford, England), 2018, 67, i42-i42.	1.5	0
77	PM-14Aging behavior of Al-7Si-0.4Mg casting alloy in T5 process. Microscopy (Oxford, England), 2018, 67, i42-i42.	1.5	0
78	PM-13Aging behavior of extruded Al-2.0%Mg-1.0%Si(mol%) alloy with and without homogenization. Microscopy (Oxford, England), 2018, 67, i41-i41.	1.5	0
79	PM-17Effect of cold-rolling on age hardenability of Al-1.0 mol%Cu-1.0 mol%Mg alloy. Microscopy (Oxford, England), 2018, 67, i43-i43.	1.5	0
80	PM-23Microstructure observation of Ag added Al-Mg-Ge alloys aged at 523 K. Microscopy (Oxford,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.5	0
81	PM-10Fabrication and characterization of Mechanoluminescence particle dispersed Al based composite. Microscopy (Oxford, England), 2018, 67, i40-i40.	1.5	0
82	Muon Spin Relaxation of an Alâ€“3.4%Znâ€“1.9%Mg alloy. , 2018, , .		0
83	Optimization of Mechanical Properties in Aluminum Alloys <i>via</i> Hydrogen Partitioning Control. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2019, 105, 240-253.	0.4	0
84	Solute-vacancy clustering in Alâ€“Mgâ€“Si alloy studied by muon spin relaxation spectroscopy. Keikinzoku/Journal of Japan Institute of Light Metals, 2017, 67, 151-155.	0.4	0