## Liuwen Chang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Building on bubbles in metal electrodeposition. Nature, 2002, 417, 139-139.	13.7	156
2	Improvement of strength of magnesium alloy processed by equal channel angular extrusion. Scripta Materialia, 2008, 59, 1006-1009.	2.6	145
3	The influence of interface modifier on the performance of nanostructured ZnO/polymer hybrid solar cells. Applied Physics Letters, 2009, 94, 063308.	1.5	114
4	Effect of die angle on the deformation texture of copper processed by equal channel angular extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 307, 113-118.	2.6	86
5	Strengthening mechanisms in electrodeposited Ni–P alloys with nanocrystalline grains. Scripta Materialia, 2007, 56, 713-716.	2.6	76
6	Hydrogen Bubbles and the Growth Morphology of Ramified Zinc by Electrodeposition. Journal of the Electrochemical Society, 2008, 155, D400.	1.3	74
7	Structural relaxation and nanoindentation response in Zr–Cu–Ti amorphous thin films. Applied Physics Letters, 2008, 93, .	1.5	73
8	On the amorphous and nanocrystalline Zr–Cu and Zr–Ti co-sputtered thin films. Journal of Alloys and Compounds, 2009, 483, 337-340.	2.8	59
9	Structure evolution in sputtered thin films of Ti <sub><i>x</i></sub> (Ni, Cu) <sub>1â^'<i>x</i></sub> I: Diffusive transformations. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1997, 76, 163-189.	0.7	51
10	Effect of Processing Parameters on Microstructure and Mechanical Properties of an Al-Al11Ce3-Al2O3 In-Situ Composite Produced by Friction Stir Processing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 513-522.	1.1	46
11	Mechanical properties of ZrCuTi thin film metallic glass with high content of immiscible tantalum. Surface and Coatings Technology, 2010, 205, 587-590.	2.2	45
12	Title is missing!. Journal of Applied Electrochemistry, 2001, 31, 925-933.	1.5	43
13	Heteroepitaxial growth of Fe2Al5 inhibition layer in hot-dip galvanizing of an interstitial-free steel. Thin Solid Films, 2010, 518, 1935-1942.	0.8	43
14	Growth and characterization of nonpolar ZnO () epitaxial film on $\hat{I}^3$ -LiAlO2 substrate by chemical vapor deposition. Journal of Crystal Growth, 2007, 308, 412-416.	0.7	42
15	Amorphous and nanocrystalline sputtered Mg–Cu thin films. Journal of Alloys and Compounds, 2009, 483, 341-345.	2.8	34
16	Crystal Growth of Nonpolar m-Plane ZnO on a Lattice-Matched (100) Î <sup>3</sup> -LiAlO <sub>2</sub> Substrate. Crystal Growth and Design, 2009, 9, 2073-2078.	1.4	31
17	The Relationship between Nano Crystallite Structure and Internal Stress in Ni Coatings Electrodeposited by Watts Bath Electrolyte Mixed with Supercritical CO <sub>2</sub> . Journal of the Electrochemical Society, 2012, 159, D393-D399.	1.3	30
18	Phase transformations in sputtered thin films of Ti <sub><i>x</i></sub> (Ni, Cu) <sub>1â^'<i>x</i></sub> II: Displacive transformations. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1997, 76, 191-219.	0.7	29

#	Article	IF	CITATIONS
19	Role of Al in Zn bath on the formation of the inhibition layer during hot-dip galvanizing for a 1.2Si–1.5Mn transformation-induced plasticity steel. Applied Surface Science, 2013, 285, 458-468.	3.1	28
20	Coherent Microradiology Directly Observes a Critical Cathode-Anode Distance Effect in Localized Electrochemical Deposition. Electrochemical and Solid-State Letters, 2004, 7, C95.	2.2	27
21	Effect of electrolyte temperature on composition and phase structure of nanocrystalline Fe–Ni alloys prepared by direct current electrodeposition. Surface and Coatings Technology, 2012, 207, 523-528.	2.2	26
22	Electrodeposition of Ni–P Alloys From a Sulfamate Electrolyte. Journal of the Electrochemical Society, 2008, 155, D57.	1.3	24
23	Anisotropic tensile ductility of cold-rolled and annealed aluminum alloy sheet and the beneficial effect of post-anneal rolling. Scripta Materialia, 2009, 60, 340-343.	2.6	24
24	Elevation of premartensitic transformation temperature by (Ni+Cu)2Ti precipitation in sputtered Ni(1â°'x)TiCu(x) thin films. Scripta Metallurgica Et Materialia, 1991, 25, 2079-2084.	1.0	19
25	Effect of Bath Temperature on Microstructure of Sulfamate Nickel Electrodeposits. Materials Transactions, JIM, 2000, 41, 777-782.	0.9	19
26	Epitaxial growth of rocksalt Zn1â^'xMgxO on MgO (100) substrate by molecular beam epitaxy. Journal of Crystal Growth, 2017, 477, 169-173.	0.7	19
27	Growth and characterization of m-plane GaN-based layers on LiAlO2 (100) grown by MOVPE. Journal of Crystal Growth, 2009, 311, 452-455.	0.7	18
28	Mechanical Properties of Nanometric Al <sub>2</sub> O <sub>3</sub> Particulate-Reinforced Al-Al <sub>11</sub> Ce <sub>3</sub> Composites Produced by Friction Stir Processing. Materials Transactions, 2010, 51, 933-938.	0.4	17
29	Luminescence properties of LiGaO 2 crystal. Optical Materials, 2017, 69, 449-459.	1.7	17
30	Study of Selective Oxidation Behavior of a 1.2Si-1.5Mn TRIP Steel during Intercritical Annealing. Journal of the Electrochemical Society, 2012, 159, C561-C570.	1.3	15
31	An electroplating technique using the post supercritical carbon dioxide mixed watts electrolyte. Surface and Coatings Technology, 2013, 232, 234-239.	2.2	15
32	Growth of nonpolar ZnO Films on (100) $\hat{l}^2$ -LiGaO 2 substrate by molecular beam epitaxy. Journal of Crystal Growth, 2014, 407, 11-16.	0.7	15
33	Growth behavior of nonpolar GaN on the nearly lattice-matched (100) $\hat{I}^3$ -LiAlO2 substrate by chemical vapor deposition. Journal of Crystal Growth, 2009, 311, 448-451.	0.7	14
34	Growth and Characterization of Nonpolar (101i0) Zn <sub>1â~'<i>x</i></sub> Mg <sub><i>x</i></sub> O (0) Tj E Substrates. Crystal Growth and Design, 2009, 9, 3301-3306.		rgBT /Overlo 14
35	Formation of Fe2Al5-xZnx intermetallic crystals at the Fe-Zn interface in hot-dip galvanizing. Materials Characterization, 2018, 137, 189-200.	1.9	14
36	Growth and stability of rocksalt Zn1â^'xMgxO epilayers and ZnO/MgO superlattice on MgO (100) substrate by molecular beam epitaxy. Journal of Chemical Physics, 2016, 144, 214704.	1.2	13

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37	Real-time observation of Zn electro-deposition with high-resolution microradiology. Nuclear Instruments & Methods in Physics Research B, 2003, 199, 451-456.	0.6	12
38	Improved quality of nonpolar m-plane GaN $[101\hat{A}^{-}0]$ on LiAlO2 substrate using a modified chemical vapor deposition. Journal of Applied Physics, 2010, 107, 013502.	1.1	12
39	Epitaxial growth of nonpolar and polar ZnO on $\hat{l}^3$ -LiAlO2 (100) substrate by plasma-assisted molecular beam epitaxy. Journal of Crystal Growth, 2013, 377, 82-87.	0.7	12
40	Growth, structural, optical and thermal properties of Yb-doped and Yb–Mg codoped LiNbO3 single crystals. Journal of Alloys and Compounds, 2013, 564, 1-7.	2.8	12
41	Optical properties of lithium gallium oxide. Applied Surface Science, 2017, 421, 837-842.	3.1	12
42	Annealing Behavior of Nickel Electrodeposited from Sulfamate Bath at Different Temperatures. Materials Transactions, 2001, 42, 316-322.	0.4	11
43	Grain boundary imaging, gallium diffusion and the fracture behavior of Al–Zn Alloy – An in situ study. Nuclear Instruments & Methods in Physics Research B, 2003, 199, 457-463.	0.6	11
44	Effect of Heating Rate on the Development of Annealing Texture in a 1.09 wt.% Si Non-oriented Electrical Steel. ISIJ International, 2016, 56, 326-334.	0.6	11
45	Analytical Electron Microscopy Study of Interfacial Oxides formed on a Hot-rolled Low-Carbon Steel. Oxidation of Metals, 2005, 63, 131-144.	1.0	10
46	Epitaxial growth of nonpolar ZnO on MgO (100) substrate by molecular beam epitaxy. Journal of Crystal Growth, 2013, 378, 172-176.	0.7	10
47	Spectral and Spatial Luminescence Distribution of <i>m</i> i>Plane ZnO Epitaxial Films Containing Stacking Faults: A Cathodoluminescence Study. Applied Physics Express, 2013, 6, 061101.	1.1	10
48	Growth of c-plane ZnO on $\hat{I}^3$ -LiAlO2 (100) substrate with a GaN buffer layer by plasma assisted molecular beam epitaxy. Applied Surface Science, 2015, 351, 824-830.	3.1	10
49	Rock-salt Zn1â^'xMgxO epilayer having high Zn content grown on MgO (100) substrate by plasma-assisted molecular beam epitaxy. Journal of Crystal Growth, 2013, 378, 168-171.	0.7	9
50	Characterization of the FeAl intermetallic layer formed at Fe Zn interface of a hot-dip galvanized coating containing 5Âwt.% Al. Surface and Coatings Technology, 2020, 396, 125969.	2.2	9
51	Optical characteristics of m-plane InGaN/GaN multiple quantum well grown on LiAlO2 (100) by MOVPE. Journal of Crystal Growth, 2009, 311, 2919-2922.	0.7	8
52	Formation Mechanism of $\{0001\}$ ZnO Epitaxial Layer on $\hat{I}^3$ -LiAlO[sub 2](100) Substrate by Chemical Vapor Deposition. Journal of the Electrochemical Society, 2011, 158, H38.	1.3	8
53	Growth of MgO doped near stoichiometric LiNbO3 single crystals by a hanging crucible Czochralski method using a ship lockage type powder feeding system assisted by numerical simulation. CrystEngComm, 2014, 16, 6593.	1.3	8
54	Epitaxial Growth and Microstructural Evolution of Nickel Electrodeposited on a Polycrystalline Copper Substrate. Journal of the Electrochemical Society, 2018, 165, D743-D752.	1.3	8

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55	Epitaxial growth of Cu2O on Cu substrate – A combinatorial substrate approach. Journal of Crystal Growth, 2019, 512, 124-130.	0.7	8
56	Growth behavior and microstructure of ZnO epilayer on Î³â€ŁiAlO <sub>2</sub> (100) substrate by chemical vapor deposition. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 215-219.	0.8	7
57	Growth Behavior of m-Plane ZnO Epilayer on (100) LiGaO2 by Chemical Vapor Deposition. Journal of the Electrochemical Society, 2011, 158, H1166.	1.3	7
58	Microstructure of non-polar GaN on LiGaO2 grown by plasma-assisted MBE. Nanoscale Research Letters, 2011, 6, 425.	3.1	7
59	Strain Relaxation, Defects and Cathodoluminescence of m-Plane ZnO and Zn <sub>0.8</sub> Mg <sub>0.2</sub> O Epilayers Grown on $\hat{I}^3$ -LiAlO <sub>2</sub> Substrate. ECS Journal of Solid State Science and Technology, 2013, 2, P338-P345.	0.9	7
60	Achieving high MgO content in wurtzite ZnO epilayer grown on ScAlMgO4 substrate. Journal of Crystal Growth, 2017, 477, 174-178.	0.7	7
61	Correlation between Recrystallization Texture and Heterogeneities in Deformed Structure of an Electrical Steel by Electron Back-scatter Diffraction. ISIJ International, 2015, 55, 2212-2216.	0.6	6
62	Photoconductivities in m-plane and c-plane ZnO epitaxial films grown by chemical vapor deposition on LiGaO2 substrates: a comparative study. RSC Advances, 2016, 6, 86095-86100.	1.7	6
63	Characterization of microtexture of 316L stainless steel fiber after multi-pass drawing by electron backscatter diffraction. Materials Characterization, 2018, 141, 338-347.	1.9	6
64	Effect of nish rolling temperature on static recrystallisation in hot bands of electrical steel containing $1\hat{A}\cdot 3\%$ silicon. Materials Science and Technology, 2002, 18, 151-159.	0.8	5
65	Compression along the Easy-Glide Orientation of Ultrafine and Fine-Grained Mg-3Al-1Zn Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 3282-3286.	1.1	4
66	Orientation relationships and interfaces of the Fe–Zn intermetallic phases in galvannealed CMnSi-TRIP steels. Materials Characterization, 2015, 107, 23-28.	1.9	4
67	Epitaxial growth of nonpolar m-plane ZnO epilayers and ZnO/Zn <sub>0.55</sub> Mg <sub>0.45</sub> O multiple quantum wells on a LiGaO <sub>2</sub> (100) substrate. RSC Advances, 2015, 5, 104798-104805.	1.7	4
68	The effects of grain boundary carbides on the low cycle fatigue properties of type 316 stainless steel. Materials Science and Engineering, 1987, 95, 125-136.	0.1	3
69	Practical method for producing galvanised dual-phase steels with superior strength – ductility combination. Materials Science and Technology, 2009, 25, 1265-1270.	0.8	3
70	Deformation Structure of Unidirectionally Compressed Ultrafine-Grained Mg-3Al-1Zn Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2909-2916.	1,1	3
71	Growth of non-polar GaN on LiGaO2 by plasma-assisted MBE. Journal of Crystal Growth, 2011, 323, 76-79.	0.7	3
72	Formation Mechanisms of Islands on Cu-Alloyed GaN Grown by Plasma Assisted Molecular Beam Epitaxy. Journal of the Electrochemical Society, 2011, 158, H860.	1.3	3

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73	Analyzing mechanical properties of a nanocrystalline Fe–Ni coating by nanoindentation. Journal of Materials Research, 2011, 26, 2533-2542.	1.2	3
74	Microstructure Characterization of Nonpolar ZnO and Zn1-xMgxO Epilayers Grown on (100) Â-LiAlO2 by Chemical Vapor Deposition. ECS Transactions, 2012, 45, 63-71.	0.3	3
75	The Development and Application of Imaging EXAFS Spectromicroscopy. Japanese Journal of Applied Physics, 1999, 38, 646.	0.8	3
76	Effect of Electrolyte Concentration on Epitaxial Growth of ZnO on Cu Substrates through Electrochemical Deposition. Journal of the Electrochemical Society, 2020, 167, 162505.	1.3	3
77	Epitaxial Growth of ZnO on LiAlO <sub>2</sub> and LiGaO <sub>2</sub> Substrates by Chemical Vapor Deposition. ECS Transactions, 2010, 28, 33-44.	0.3	2
78	Deformation twinning in LiAlO2 at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 551, 218-221.	2.6	2
79	Enhancing the Bias and Illumination Stabilities of Aamorphous InGaZnO Thin Film Transistors Using a SiAlNO Passivation Layer. ECS Solid State Letters, 2014, 3, P53-P56.	1.4	2
80	Effect of Dissolved Carbon on the Recrystallization Texture Formation in Electrical Steels. ISIJ International, 2018, 58, 958-964.	0.6	2
81	Growth and Optical Properties of Nonpolar (\$10{ar {1}}0\$) Zn <sub>1â<math>\in</math>xi&gt;xxxxxxxx&lt;</sub>	1.4	1
82	Microstructure Characterization of Cu-Alloyed GaN Grown by Plasma Assisted Molecular Beam Epitaxy. ECS Transactions, 2011, 35, 83-89.	0.3	1
83	Growth Behavior of M-Plane ZnO Epilayer on (100) LiGaO2 by Chemical Vapor Deposition. ECS Transactions, 2011, 35, 133-139.	0.3	1
84	ZnO Nanostructures Prepared on LiAlO2 Substrates by Chemical Vapor Deposition. ECS Transactions, 2013, 45, 13-19.	0.3	0
85	Deposition and characterization of silicon–aluminum non-conductive vacuum metallization coatings. Materials Letters, 2014, 131, 161-163.	1.3	O