

Mitsutoshi Kuroda

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

72
papers

1,984
citations

25
h-index

44
g-index

74
ext. papers

2,180
ext. citations

3.9
avg, IF

5.23
L-index

#	Paper	IF	Citations
72	Description of plane strain deformation of FCC crystals by a gradient theory of crystal plasticity. <i>Extreme Mechanics Letters</i> , 2021 , 44, 101221	3.9	
71	Constraint and size effects in confined layer plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 149, 104328	5	1
70	Athermal strength of pure aluminum is significantly decreased by severe plastic deformation and it is markedly augmented by subsequent annealing. <i>Scientific Reports</i> , 2020 , 10, 14090	4.9	1
69	A simple model for size effects in constrained shear. <i>Extreme Mechanics Letters</i> , 2019 , 33, 100581	3.9	6
68	Nonuniform and localized deformation in single crystals under dynamic tensile loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 125, 347-359	5	9
67	Grain size effects in aluminum processed by severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 710, 300-308	5.3	38
66	Investigation of the origins of Bauschinger effect in polycrystalline metals. <i>The Proceedings of the Computational Mechanics Conference</i> , 2018 , 2018.31, 064	0	
65	Analysis of nonuniform plastic deformation using higher-order strain-gradient plasticity theory. <i>The Proceedings of the Computational Mechanics Conference</i> , 2018 , 2018.31, 063	0	
64	Interfacial microscopic boundary conditions associated with backstress-based higher-order gradient crystal plasticity theory. <i>Journal of Mechanics of Materials and Structures</i> , 2017 , 12, 193-218	1.2	5
63	A strain-gradient plasticity theory with a corner-like effect: a thermodynamics-based extension. <i>International Journal of Fracture</i> , 2016 , 200, 115-125	2.3	3
62	Strain Gradient Plasticity: An Application to Plastic Flow Localization Analysis. <i>Key Engineering Materials</i> , 2016 , 725, 41-46	0.4	
61	Measurement of Bauschinger Effect in Ultrafine-Grained A1070 Aluminum Rods. <i>Key Engineering Materials</i> , 2016 , 725, 202-207	0.4	5
60	A higher-order strain gradient plasticity theory with a corner-like effect. <i>International Journal of Solids and Structures</i> , 2015 , 58, 62-72	3.1	16
59	Strain Gradient Plasticity: A Variety of Treatments and Related Fundamental Issues. <i>Advanced Structured Materials</i> , 2015 , 199-218	0.6	3
58	On scale-dependent crystal plasticity models. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2014 , 305-353	0.6	2
57	Theoretical and experimental study of forming-limit strain of half-hard AA1100 aluminium alloy sheet. <i>Computational Materials Science</i> , 2013 , 77, 61-71	3.2	19
56	Plastic flow localization analysis of heterogeneous materials using homogenization-based finite element method. <i>International Journal of Mechanical Sciences</i> , 2013 , 72, 63-74	5.5	27

55	Higher-order gradient effects in micropillar compression. <i>Acta Materialia</i> , 2013 , 61, 2283-2297	8.4	30
54	Numerical investigation on a key factor in superior stretchability of face-centered cubic polycrystalline sheets. <i>International Journal of Mechanical Sciences</i> , 2012 , 58, 47-56	5.5	15
53	Comparison of bifurcation and imperfection analyses of localized necking in rate-independent polycrystalline sheets. <i>International Journal of Solids and Structures</i> , 2012 , 49, 2073-2084	3.1	29
52	Yielding and strain hardening in aluminium single-crystal foils subjected to tension and bending. <i>Philosophical Magazine Letters</i> , 2012 , 92, 507-516	1	1
51	Quantitative re-examination of Taylor model for FCC polycrystals. <i>Computational Materials Science</i> , 2012 , 51, 290-302	3.2	22
50	OS0314 On Numerical Methods for Simulating Rolling Process of Magnesium Sheets with Application of Crystal Plasticity Model. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2012 , 2012, _OS0314-1_-_OS0314-2_	0	
49	Crystal Plasticity Simulation of Forming Limit Strains for Fcc Polycrystalline Sheets with Different r-values 2011 ,		1
48	Effect of texture variation through sheet thickness on bendability in aluminum alloy sheet*. <i>Keikinzoiku/Journal of Japan Institute of Light Metals</i> , 2011 , 61, 53-59	0.3	9
47	Crystal plasticity analysis of texture development in magnesium alloy during extrusion. <i>International Journal of Plasticity</i> , 2011 , 27, 1916-1935	7.6	153
46	On large-strain finite element solutions of higher-order gradient crystal plasticity. <i>International Journal of Solids and Structures</i> , 2011 , 48, 3382-3394	3.1	38
45	Effects of crystal orientation on bendability of aluminum alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4050-4054	5.3	27
44	Solid-state recycling of aluminium alloy swarf through cold profile extrusion and cold rolling. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 1878-1887	5.3	40
43	Strain hardening in bent copper foils. <i>Journal of the Mechanics and Physics of Solids</i> , 2011 , 59, 1731-1751	5	37
42	Computational Plasticity. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2011 , 52, 88-95	0.3	
41	An alternative treatment of phenomenological higher-order strain-gradient plasticity theory. <i>International Journal of Plasticity</i> , 2010 , 26, 507-515	7.6	39
40	Tensile and microbend tests of pure aluminum foils with different thicknesses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 513-514, 77-82	5.3	33
39	Effects of microscopic boundary conditions on plastic deformations of small-sized single crystals. <i>International Journal of Solids and Structures</i> , 2009 , 46, 4396-4408	3.1	11
38	Improvement in formability of aluminum alloy sheet by enhancing geometrical hardening. <i>Computational Materials Science</i> , 2009 , 46, 459-468	3.2	27

37	Influence of twinning deformation and lattice rotation on strength differential effect in polycrystalline pure magnesium with rolling texture. <i>Computational Materials Science</i> , 2009 , 47, 448-455 ^{3,2}	58
36	On the formulations of higher-order strain gradient crystal plasticity models. <i>Journal of the Mechanics and Physics of Solids</i> , 2008 , 56, 1591-1608	5 123
35	A finite deformation theory of higher-order gradient crystal plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2008 , 56, 2573-2584	5 68
34	Quantitative evaluations for strain amplitude dependent organization of dislocation structures due to cyclic plasticity in austenitic stainless steel 316L. <i>Acta Materialia</i> , 2008 , 56, 2735-2743	8.4 53
33	Simulations of micro-bending of thin foils using a scale dependent crystal plasticity model. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2007 , 15, S13-S22	2 8
32	The effects of texture on formability of aluminum alloy sheets. <i>Acta Materialia</i> , 2007 , 55, 4499-4506	8.4 95
31	Effects of texture on shear band formation in plane strain tension/compression and bending. <i>International Journal of Plasticity</i> , 2007 , 23, 244-272	7.6 120
30	Path-dependence of the forming limit stresses in a sheet metal. <i>International Journal of Plasticity</i> , 2007 , 23, 361-384	7.6 128
29	Effects of Crystallographic Texture on Plastic Flow Localization. <i>Key Engineering Materials</i> , 2007 , 340-341, 211-216	0.4 0
28	A Polycrystalline Analysis of Hexagonal Metal Based on the Homogenized Method. <i>Key Engineering Materials</i> , 2007 , 340-341, 1049-1054	0.4 12
27	Forming limit strains of 5000 series aluminum alloys with different magnesium contents. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2006 , 56, 323-328	0.3 12
26	Studies of scale dependent crystal viscoplasticity models. <i>Journal of the Mechanics and Physics of Solids</i> , 2006 , 54, 1789-1810	5 75
25	Effects of Texture on Mechanical Properties of Aluminum Alloy Sheets and Texture Optimization Strategy. <i>AIP Conference Proceedings</i> , 2005 ,	0 5
24	Forming Limit Stresses of Sheet Metal under Proportional and Combined Loadings. <i>AIP Conference Proceedings</i> , 2005 ,	0 6
23	618 Analysis of high strain rate plastic deformation of steel considering thermally activated dislocation motions. <i>The Proceedings of Autumn Conference of Tohoku Branch</i> , 2005 , 2005.41, 255-256	0
22	617 Effects of cube texture on forming limit of aluminum alloy sheets. <i>The Proceedings of Autumn Conference of Tohoku Branch</i> , 2005 , 2005.41, 253-254	0
21	1312 Deformation analysis of crystalline polymer considering volume change behavior. <i>The Proceedings of the Computational Mechanics Conference</i> , 2005 , 2005.18, 685-686	0
20	Modelling of overall plastic deformation in rubber-toughened polymers. <i>Acta Mechanica</i> , 2004 , 172, 95-112	3

19	Shear band development in anisotropic bent specimens. <i>European Journal of Mechanics, A/Solids</i> , 2004 , 23, 811-821	3.7	20
18	Particle debonding using different yield criteria. <i>European Journal of Mechanics, A/Solids</i> , 2004 , 23, 737-751	3.7	12
17	Plastic Instability Analysis of Thin-Walled Tube Using Bi-Axial Stress Control. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2004 , 70, 1499-1506		
16	Crystal plasticity model accounting for pressure dependence of yielding and plastic volume expansion. <i>Scripta Materialia</i> , 2003 , 48, 605-610	5.6	9
15	Effects of plastic anisotropy on crack-tip behaviour. <i>International Journal of Fracture</i> , 2002 , 117, 297-312	2.3	21
14	Shear band development in polycrystalline metal with strength differential effect and plastic volume expansion. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2002 , 458, 2243-2259	2.4	23
13	A study on damage theory for numerical analysis of creep deformation. <i>The Proceedings of the JSME Annual Meeting</i> , 2002 , 2002.2, 77-78		
12	Plastic spin associated with a non-normality theory of plasticity. <i>European Journal of Mechanics, A/Solids</i> , 2001 , 20, 893-905	3.7	22
11	Shear band development predicted by a non-normality theory of plasticity and comparison to crystal plasticity predictions. <i>International Journal of Solids and Structures</i> , 2001 , 38, 8945-8960	3.1	27
10	A phenomenological plasticity model with non-normality effects representing observations in crystal plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2001 , 49, 1239-1263	5	85
9	Effect of strain path change on limits to ductility of anisotropic metal sheets. <i>International Journal of Mechanical Sciences</i> , 2000 , 42, 867-887	5.5	90
8	Forming limit diagrams for anisotropic metal sheets with different yield criteria. <i>International Journal of Solids and Structures</i> , 2000 , 37, 5037-5059	3.1	123
7	Interpretation of the behavior of metals under large plastic shear deformations: comparison of macroscopic predictions to physically based predictions. <i>International Journal of Plasticity</i> , 1999 , 15, 1217-1236	7.6	23
6	Use of abrupt strain path change for determining subsequent yield surface: illustrations of basic idea. <i>Acta Materialia</i> , 1999 , 47, 3879-3890	8.4	69
5	Effect of Spin on Strain Localization Behavior Predicted by Noncoaxial Plasticity Model. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 1996 , 62, 814-821		2
4	Roles of plastic spin in shear banding. <i>International Journal of Plasticity</i> , 1996 , 12, 671-693	7.6	21
3	Plastic spin associated with a corner theory of plasticity. <i>International Journal of Plasticity</i> , 1995 , 11, 547-560	7.0	21
2	Finite element simulations of large elasto-plastic deformation with different spin tensors. <i>Mechanics Research Communications</i> , 1994 , 21, 517-523	2.2	3

- 1 Permanent Strength of Metals: A Case Study on FCC Metals Processed by Severe Plastic Deformation. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, 1 2.3 0