

Tetsuya Ohashi

List of Publications by Year in descending order

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papers

985
citations

567281

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63
all docs

63
docs citations

63
times ranked

567
citing authors

#	ARTICLE	IF	CITATIONS
1	A multiscale approach for modeling scale-dependent yield stress in polycrystalline metals. International Journal of Plasticity, 2007, 23, 897-914.	8.8	160
2	Crystal plasticity analysis of dislocation emission from micro voids. International Journal of Plasticity, 2005, 21, 2071-2088.	8.8	113
3	Finite-element analysis of plastic slip and evolution of geometrically necessary dislocations in fcc crystals. Philosophical Magazine Letters, 1997, 75, 51-58.	1.2	95
4	Numerical modelling of plastic multislip in metal crystals of f.c.c. type. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1994, 70, 793-803.	0.6	82
5	Orientation dependence of the deformation kink band formation behavior in Zn single crystal. International Journal of Plasticity, 2016, 77, 174-191.	8.8	76
6	X-ray microdiffraction and strain gradient crystal plasticity studies of geometrically necessary dislocations near a Ni bicrystal grain boundary. International Journal of Plasticity, 2009, 25, 920-941.	8.8	59
7	Computer Simulation of Non-Uniform Multiple Slip in Face Centered Cubic Bicrystals. Transactions of the Japan Institute of Metals, 1987, 28, 906-915.	0.5	41
8	Three dimensional structures of the geometrically necessary dislocations in matrix-inclusion systems under uniaxial tensile loading. International Journal of Plasticity, 2004, 20, 1093-1109.	8.8	36
9	A multiscale approach for the deformation mechanism in pearlite microstructure: Numerical evaluation of elasto-plastic deformation in fine lamellar structures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 588, 214-220.	5.6	35
10	Microscopic mechanism of plastic deformation in a polycrystalline Co-Cr-Mo alloy with a single hcp phase. Acta Materialia, 2014, 64, 1-11.	7.9	30
11	A multiscale approach for the deformation mechanism in pearlite microstructure: Experimental measurements of strain distribution using a novel technique of precision markers. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 590, 37-43.	5.6	28
12	A multiscale approach for the deformation mechanism in pearlite microstructure: Atomistic study of the role of the heterointerface on ductility. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 598, 68-76.	5.6	26
13	Crystal Plasticity Analysis of Development of Intragranular Misorientations due to Kinking in HCP Single Crystals Subjected to Uniaxial Compressive Loading. Materials Transactions, 2015, 56, 963-972.	1.2	22
14	Generation and accumulation of atomic vacancies due to dislocation movement and pair annihilation. Philosophical Magazine, 2018, 98, 2275-2295.	1.6	22
15	Crystal plasticity analysis of change in incompatibility and activities of slip systems in β -phase of Ti alloy under cyclic loading. International Journal of Mechanical Sciences, 2018, 146-147, 475-485.	6.7	16
16	A New Model of Scale Dependent Crystal Plasticity Analysis. Solid Mechanics and Its Applications, 2004, , 97-106.	0.2	15
17	Evolution of dislocation patterns in a tricrystal model subjected to cyclic loading. Philosophical Magazine, 2013, 93, 366-387.	1.6	12
18	Crystal Plasticity Analyses of Scale Dependent Mechanical Properties of Ferrite/Cementite Lamellar Structure Model in Pearlite Steel Wire with Bagaryatsky or Pitsch-Petch Orientation Relationship. ISIJ International, 2016, 56, 2320-2326.	1.4	12

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19	Crystal Plasticity Analysis Considering Dislocations' Behavior in Ferrite/Cementite Lamellar Structure. ISIJ International, 2017, 57, 573-580.	1.4	11
20	Investigation of strain redistribution mechanism in α titanium by image-based crystal plasticity analysis. European Physical Journal B, 2019, 92, 1.	1.5	11
21	Crystal Plasticity Analysis of Microscopic Deformation Mechanisms and GN Dislocation Accumulation Depending on Vanadium Content in β Phase of Two-Phase Ti Alloy. Materials Transactions, 2019, 60, 959-968.	1.2	10
22	Numerical Modeling for Strain Hardening of Two-phase Alloys with Dispersion of Hard Fine Spherical Particles. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2016, 102, 396-404.	0.4	10
23	Grain Boundary Accumulation of Geometrically Necessary Dislocations and Asymmetric Deformations in Compatible Bicrystals with Tilted Angle Grain Boundary under Tensile Loading. JSME International Journal Series A-Solid Mechanics and Material Engineering, 2006, 49, 581-588.	0.4	7
24	Development of a EBSD-FEM data conversion interface and the image-based crystal plasticity analysis. Transactions of the JSME (in Japanese), 2018, 84, 17-00559-17-00559.	0.2	5
25	Density evolution of atomic vacancies in copper single crystals during initial stage of fatigue deformation. Philosophical Magazine, 2019, 99, 3032-3058.	1.6	5
26	Numerical Analyses of Deformation Band Evolution in Face-Centered Cubic Single Crystals under Tensile Deformation. Materials Transactions, JIM, 1990, 31, 456-462.	0.9	4
27	Crystal Plasticity Analysis of Dislocation Accumulation in ULSI Cells with Consideration of Temperature Dependence of the Lattice Friction Stress for Silicon. Key Engineering Materials, 2007, 340-341, 199-204.	0.4	4
28	High Density Bands of GN Dislocations Formed by Multi Body Interaction in Compatible Type Multi Crystal Models. Key Engineering Materials, 2007, 340-341, 187-192.	0.4	4
29	Crystal Plasticity Analysis of Thermal Deformation and Dislocation Accumulation in ULSI Cells. Key Engineering Materials, 2006, 324-325, 1035-1038.	0.4	3
30	Crystal Plasticity Analysis of Dislocation Accumulation in Impurity Doped-ULSI Cells. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2009, 75, 1057-1062.	0.2	3
31	Influence of Grain Boundary on Activation of Slip Systems in Magnesium: Crystal Plasticity Analysis. Materials Science Forum, 2010, 654-656, 695-698.	0.3	3
32	Grain boundary inclination dependence of GN dislocation patterns and density in bicrystal model. Transactions of the JSME (in Japanese), 2015, 81, 14-00630-14-00630.	0.2	3
33	Modeling and Crystal Plasticity Analysis of Multiple Slip Deformation in the Microstructure of Particle Dispersed Alloy and Its Macroscopic Strain Hardening Characteristics. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2018, 104, 166-176.	0.4	3
34	Three Dimensional Dislocation Structure Formed in the Vicinity of Spherical Inclusions.. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2002, 68, 1513-1519.	0.2	2
35	Numerical Modeling of Scale Dependent Mechanical Properties of Metal Polycrystals. Materials Science Forum, 2007, 561-565, 1827-1832.	0.3	2
36	Crystal Plasticity Analysis of the Dislocation Type Deformation Field and Stress Concentration in a HCP Bicrystal(<Special Issue>M & M 2009 Conference). Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2010, 76, 367-369.	0.2	2

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37	Evaluation of Plastic Work Density, Strain Energy and Slip Multiplication Intensity at Some Typical Grain Boundary Triple Junctions. Materials Science Forum, 2010, 654-656, 1283-1286.	0.3	2
38	Crystal Plasticity Analysis of Mechanical Response in Two Phase Alloys with Dispersion of Fine Particles. Key Engineering Materials, 0, 725, 267-272.	0.4	2
39	Modelling and Crystal Plasticity Analysis for the Mechanical Response of Alloys with Non-uniformly Distributed Secondary Particles. ISIJ International, 2020, 60, 1819-1828.	1.4	2
40	Crystal plasticity finite element analysis of slip deformation in the polycrystal models of textured Ti alloys. The Proceedings of the Materials and Mechanics Conference, 2016, 2016, OS01-14.	0.0	2
41	Finite Element Analyses of Elasto-Plastic Deformation in Pearlite Lamellar and Colony Structures. Key Engineering Materials, 2014, 626, 307-310.	0.4	1
42	Dislocation Density-Based Modeling of Crystal Plasticity Finite Element Analysis. , 2018, , 1-26.		1
43	Crystal Plasticity Analysis on Compressive Loading of Magnesium with Suppression of Twinning. , 2011, , 273-277.		1
44	Numerical Modeling of Anisotropic Mechanical Characteristics of Human Muscles, Tendons, and Intervertebral Discs. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2008, 74, 1398-1404.	0.2	0
45	Crystal Plasticity Analysis of Scale Effect on Tensile Properties of Ferrite/Cementite Fine Lamellar Structure under Lattice Strain. Key Engineering Materials, 0, 626, 145-148.	0.4	0
46	Crystal Plasticity Analysis of Mechanical Response and Size Effect in Two Phase Alloys with Dispersion of Fine Particles. Key Engineering Materials, 2014, 626, 264-268.	0.4	0
47	Elasto-Plastic Deformation of Colony Boundaries in Pearlite Microstructure by Finite Element Analyses. Applied Mechanics and Materials, 0, 786, 33-36.	0.2	0
48	Crystal Plasticity Analysis of Change in Active Slip Systems of β -Phase of Ti-6Al-4V Alloy under Cyclic Loading. Key Engineering Materials, 0, 725, 183-188.	0.4	0
49	OS0313 Crystal plasticity analysis for the disclination type deformation field and stress concentration in a HCP bicrystal. The Proceedings of the Materials and Mechanics Conference, 2009, 2009, 724-726.	0.0	0
50	OS0305 Kink Formation and Strain Hardening Characteristics of Basal Slip in Long-Period-Stacking-Ordered Phase in Magnesium Alloys. The Proceedings of the Materials and Mechanics Conference, 2012, 2012, _OS0305-1-_OS0305-3_.	0.0	0
51	OS0109-168 Crystal plasticity finite element analysis of slip deformation and dislocation accumulation in polycrystal models of Ti-6Al-4V alloy. The Proceedings of the Materials and Mechanics Conference, 2015, 2015, _OS0109-16-_OS0109-16.	0.0	0
52	J0410104 Crystal plasticity analysis on the initial deformation of fee metal materials with harmonic-type bimodal microstructures. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0410104--_J0410104-.	0.0	0
53	J0410105 Crystal Plasticity Analyses on the Dislocations in Ferrite Lamella in Pearlite Microstructure. The Proceedings of Mechanical Engineering Congress Japan, 2015, 2015, _J0410105--_J0410105-.	0.0	0
54	Progress of plastic deformation and dislocation accumulation from the tip of U-shaped notch in models of β phase titanium alloy under cyclic loading. The Proceedings of the Materials and Mechanics Conference, 2016, 2016, OS01-08.	0.0	0

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55	Establishment of a Data Transfer Interface from EBSD to FEM and its Application to Crystal Plasticity Analysis of Ti-6Al-4V Alloys. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J0410201.	0.0	0
56	Modelling and Crystal Plasticity Analysis for the Mechanical Response of Alloys with Non-uniformly Distributed Secondary Particles. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2019, 105, 163-172.	0.4	0
57	Dislocation Density-Based Modeling of Crystal Plasticity Finite Element Analysis. , 2019, , 1213-1238.		0
58	Crystal plasticity analysis of the suppression of dislocation accumulation during the production process of semiconductor devices. Transactions of the JSME (in Japanese), 2020, 86, 19-00457-19-00457.	0.2	0
59	Crystal plasticity finite element analysis of kink banding in Mg-based LPSO phase. Keikinzoku/Journal of Japan Institute of Light Metals, 2020, 70, 167-173.	0.4	0