Michael Zaiser

List of Publications by Year
in descending order

165 papers	5,817 citations	76322 40 h-index	82542 72 g-index
165 all docs	165 docs citations	165 times ranked	3125 citing authors

#	Article	IF	Citations
1	Dislocation Avalanches, Strain Bursts, and the Problem of Plastic Forming at the Micrometer Scale. Science, 2007, 318, 251-254.	12.6	506
2	Spatial correlations and higher-order gradient terms in a continuum description of dislocation dynamics. Acta Materialia, 2003, 51, 1271-1281.	7.9	345
3	Interactions between Polymers and Carbon Nanotubes:Â A Molecular Dynamics Study. Journal of Physical Chemistry B, 2005, 109, 10009-10014.	2.6	333
4	Scale invariance in plastic flow of crystalline solids. Advances in Physics, 2006, 55, 185-245.	14.4	293
5	Fractal Dislocation Patterning During Plastic Deformation. Physical Review Letters, 1998, 81, 2470-2473.	7.8	148
6	Continuum dislocation dynamics: Towards a physical theory of crystal plasticity. Journal of the Mechanics and Physics of Solids, 2014, 63, 167-178.	4.8	141
7	A three-dimensional continuum theory of dislocation systems: kinematics and mean-field formulation. Philosophical Magazine, 2007, 87, 1261-1282.	1.6	134
8	Oscillatory Modes of Plastic Deformation: Theoretical Concepts. Physica Status Solidi (B): Basic Research, 1997, 199, 267-330.	1.5	133
9	Radiation-Induced Transformation of Graphite to Diamond. Physical Review Letters, 1997, 79, 3680-3683.	7.8	131
10	Statistical dynamics of dislocation systems: The influence of dislocation-dislocation correlations. Physical Review B, 2001, 64, .	3.2	130
11	Dislocation Jamming and Andrade Creep. Physical Review Letters, 2002, 89, 165501.	7.8	128
12	Strain bursts in plastically deforming molybdenum micro- and nanopillars. Philosophical Magazine, 2008, 88, 3861-3874.	1.6	128
13	Anticrack Nucleation as Triggering Mechanism for Snow Slab Avalanches. Science, 2008, 321, 240-243.	12.6	120
14	Avalanches in 2D Dislocation Systems: Plastic Yielding Is Not Depinning. Physical Review Letters, 2014, 112, 235501.	7.8	111
15	Self-Affine Surface Morphology of Plastically Deformed Metals. Physical Review Letters, 2004, 93, 195507.	7.8	99
16	Strain rate dependency of dislocation plasticity. Nature Communications, 2021, 12, 1845.	12.8	97
17	Carbon nanotube/epoxy resin composites using a block copolymer as a dispersing agent. Physica Status Solidi A, 2004, 201, R89-R91.	1.7	88
18	Continuum modeling of dislocation plasticity: Theory, numerical implementation, and validation by discrete dislocation simulations. Journal of Materials Research, 2011, 26, 623-632.	2.6	85

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19	Fractal analysis of deformation-induced dislocation patterns. Acta Materialia, 1999, 47, 2463-2476.	7.9	78
20	Fluctuation phenomena in crystal plasticityâ€"a continuum model. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P08004-P08004.	2.3	76
21	Depinning transition of dislocation assemblies: Pileups and low-angle grain boundaries. Physical Review B, 2004, 69, .	3.2	73
22	Randomness and slip avalanches in gradient plasticity. International Journal of Plasticity, 2006, 22, 1432-1455.	8.8	73
23	Irradiation-induced transformation of graphite to diamond: A quantitative study. Physical Review B, 2000, 62, 3058-3064.	3.2	59
24	Universal features of amorphous plasticity. Nature Communications, 2017, 8, 15928.	12.8	59
25	Grain boundary effect on nanoindentation: A multiscale discrete dislocation dynamics model. Journal of the Mechanics and Physics of Solids, 2019, 126, 117-135.	4.8	57
26	Numerical implementation of a 3D continuum theory of dislocation dynamics and application to micro-bending. Philosophical Magazine, 2010, 90, 3697-3728.	1.6	56
27	Statistical modelling of dislocation systems. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 309-310, 304-315.	5.6	54
28	Scaling properties of dislocation simulations in the similitude regime. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 065012.	2.0	53
29	Thin Film Encapsulation of Organic Solar Cells by Direct Deposition of Polysilazanes from Solution. Advanced Energy Materials, 2019, 9, 1900598.	19.5	52
30	Some steps towards a continuum representation of 3D dislocation systems. Scripta Materialia, 2006, 54, 717-721.	5.2	50
31	Geometrically necessary dislocations and strain gradient plasticityâ€"â€"a dislocation dynamics point of view. Scripta Materialia, 2003, 48, 133-139.	5.2	49
32	A continuum approach to combined Î³/Î³â€² evolution and dislocation plasticity in Nickel-based superalloys. International Journal of Plasticity, 2017, 95, 142-162.	8.8	49
33	Acceleration and localization of subcritical crack growth in a natural composite material. Physical Review E, 2014, 90, 052401.	2.1	47
34	Dislocation patterning in a two-dimensional continuum theory of dislocations. Physical Review B, 2016, 93, .	3.2	47
35	Slip avalanches in crystal plasticity: scaling of the avalanche cut-off. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P04013-P04013.	2.3	46
36	Local density approximation for the energy functional of three-dimensional dislocation systems. Physical Review B, 2015, 92, .	3.2	46

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37	Effects of twin boundary orientation on plasticity of bicrystalline copper micropillars: A discrete dislocation dynamics simulation study. Acta Materialia, 2019, 176, 289-296.	7.9	45
38	Size-dependent plasticity of hetero-structured laminates: A constitutive model considering deformation heterogeneities. International Journal of Plasticity, 2021, 145, 103063.	8.8	45
39	Depinning of a dislocation: the influence of long-range interactions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 309-310, 348-351.	5.6	44
40	Propagating compaction bands in confined compression of snow. Nature Physics, 2017, 13, 272-275.	16.7	44
41	Dislocation dynamics and work hardening of fractal dislocation cell structures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 272, 443-454.	5.6	40
42	Pattern formation in a minimal model of continuum dislocation plasticity. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 065005.	2.0	40
43	Dislocation motion in a random solid solution. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2002, 82, 2869-2883.	0.6	39
44	The flow stress of fractal dislocation arrangements. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 270, 299-307.	5.6	36
45	From systems of discrete dislocations to a continuous field description: stresses and averaging aspects. Modelling and Simulation in Materials Science and Engineering, 2013, 21, 085006.	2.0	36
46	Evading strength and ductility trade-off in an inverse nacre structured magnesium matrix nanocomposite. Acta Materialia, 2022, 228, 117730.	7.9	36
47	Chapter 56 Long-range internal stresses, dislocation patterning and work-hardening in crystal plasticity. Dislocations in Solids, 2002, 11, 1-100.	1.6	32
48	The effects of snow variability on slab avalanche release. Cold Regions Science and Technology, 2004, 40, 229-242.	3.5	31
49	From mesoscopic heterogeneity of slip to macroscopic fluctuations of stress and strain. Acta Materialia, 1997, 45, 1067-1075.	7.9	30
50	Modelling size effects using 3D density-based dislocation dynamics. Philosophical Magazine, 2007, 87, 1283-1306.	1.6	29
51	Dislocation depinning transition in a dispersion-strengthened steel. Physical Review B, 2008, 78, .	3.2	28
52	Continuum representation of systems of dislocation lines: A general method for deriving closed-form evolution equations. Journal of the Mechanics and Physics of Solids, 2016, 95, 575-601.	4.8	28
53	Instability of dislocation fluxes in a single slip: Deterministic and stochastic models of dislocation patterning. Physical Review B, 2018, 98, .	3.2	28
54	A unified description of strain-rate softening instabilities. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 238, 399-406.	5.6	27

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55	The study of self-organization processes in crystals by high-voltage electron microscopy. Ultramicroscopy, 1991, 39, 342-354.	1.9	26
56	Internal length scale and grain boundary yield strength in gradient models of polycrystal plasticity: How do they relate to the dislocation microstructure?. Journal of Materials Research, 2014, 29, 2116-2128.	2.6	26
57	Size effect in the tensile fracture of single-walled carbon nanotubes with defects. Nanotechnology, 2007, 18, 155708.	2.6	25
58	Failure initiation in snow stratifications containing weak layers: Nucleation of whumpfs and slab avalanches. Cold Regions Science and Technology, 2008, 52, 385-400.	3.5	24
59	Mechanical properties and microstructure of single-wall carbon nanotube/elastomeric epoxy composites with block copolymers. Materials Letters, 2014, 125, 116-119.	2.6	24
60	Annihilation and sources in continuum dislocation dynamics. Materials Theory, 2018, 2, .	4.3	24
61	A mesoscopic approach to radiation-induced defect aggregation in alkali halides stimulated by the elastic interaction of mobile Frenkel defects. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1994, 70, 313-327.	0.6	23
62	On the relations between strain and strain-rate softening phenomena in some metallic materials: a computational study. Computational Materials Science, 1999, 15, 35-49.	3.0	23
63	Stochastic and deterministic aspects of strain localization during cyclic plastic deformation. Acta Materialia, 1998, 46, 4143-4151.	7.9	22
64	Size and disorder effects in elasticity of cellular structures: From discrete models to continuum representations. International Journal of Solids and Structures, 2018, 146, 97-116.	2.7	22
65	Properties of dislocation lines in crystals with strong atomic-scale disorder. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 740-741, 285-294.	5.6	22
66	Prediction of creep failure time using machine learning. Scientific Reports, 2020, 10, 16910.	3.3	22
67	The tension-compression behavior of gradient structured materials: A deformation-mechanism-based strain gradient plasticity model. Mechanics of Materials, 2021, 159, 103912.	3.2	22
68	Strain localization and strain propagation in collapsible solid foams. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 567, 38-45.	5.6	21
69	Avalanche Behavior in Creep Failure of Disordered Materials. Physical Review Letters, 2018, 121, 125501.	7.8	21
70	Size-dependent yield stress in ultrafine-grained polycrystals: A multiscale discrete dislocation dynamics study. International Journal of Plasticity, 2022, 149, 103183.	8.8	21
71	Comparison of closure approximations for continuous dislocation dynamics. Materials Research Society Symposia Proceedings, 2014, 1651, 1.	0.1	18
72	Avalanche precursors of failure in hierarchical fuse networks. Scientific Reports, 2018, 8, 12090.	3.3	18

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73	An analytical model for fracture nucleation in collapsible stratifications. Geophysical Research Letters, 2006, 33, .	4.0	17
74	A generalized comopsite approach to the flow stress and strain hardening of crystals containing heterogeneous dislocation distributions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 249, 145-151.	5.6	16
75	Cell structure formation in a two-dimensional density-based dislocation dynamics model. Materials Theory, 2021, 5, .	4.3	16
76	Avalanches and Slip Patterning in Plastic Deformation. Journal of the Mechanical Behavior of Materials, 2003, 14, 255-270.	1.8	15
77	Deformation patterns and surface morphology in a minimal model of amorphous plasticity. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P03014.	2.3	15
78	Disorder is good for you: the influence of local disorder on strain localization and ductility of strain softening materials. International Journal of Fracture, 2017, 205, 139-150.	2.2	15
79	Digital strategies for structured and architected materials design. APL Materials, 2021, 9, .	5.1	15
80	The energetics and interactions of random dislocation walls. Philosophical Magazine Letters, 2013, 93, 387-394.	1.2	14
81	Growth of a Vortex Polycrystal in Type II Superconductors. Physical Review Letters, 2004, 92, 257004.	7.8	13
82	Statistical heterogeneity of plastic deformation: An investigation based on surface profilometry. Acta Materialia, 2010, 58, 4859-4870.	7.9	13
83	Rupture of graphene sheets with randomly distributed defects. AIMS Materials Science, 2016, 3, 1340-1349.	1.4	13
84	Pinning of extended dislocations in atomically disordered crystals. Acta Materialia, 2022, 236, 118095.	7.9	13
85	Misfit Dislocation Patterning in Thin Films. Physica Status Solidi (B): Basic Research, 1998, 209, 295-304.	1.5	12
86	Nickel coated carbon nanotubes in aluminum matrix composites: a multiscale simulation study. European Physical Journal B, 2019, 92, 1.	1.5	12
87	Random aspects of macroscopic plastic deformation. Philosophical Magazine Letters, 1996, 73, 369-376.	1.2	11
88	Dislocation Patterns in Crystalline Solidsâ€"Phenomenology and Modelling. , 2004, , 215-238.		11
89	Interplay of basal shear fracture and slab rupture in slab avalanche release. Cold Regions Science and Technology, 2007, 49, 26-38.	3.5	11
90	Scale-free statistics of plasticity-induced surface steps on KCl single crystals. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, L04001-L04001.	2.3	11

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91	Statistical aspects of microplasticity: experiments, discrete dislocation simulations and stochastic continuum models. Journal of the Mechanical Behavior of Materials, 2013, 22, 89-100.	1.8	11
92	Statistical analysis and stochastic dislocation-based modeling of microplasticity. Journal of the Mechanical Behavior of Materials, 2015, 24, 105-113.	1.8	11
93	Determining Cosserat constants of 2D cellular solids from beam models. Materials Theory, 2018, 2, .	4.3	11
94	Cyclic-loading microstructure-property relations from a mesoscale perspective: An example of single crystal Nickel-based superalloys. Journal of Alloys and Compounds, 2019, 770, 964-971.	5.5	11
95	Microplasticity and yielding in crystals with heterogeneous dislocation distribution. Modelling and Simulation in Materials Science and Engineering, 2019, 27, 074003.	2.0	11
96	Thermodynamic considerations on a class of dislocation-based constitutive models. Journal of the Mechanics and Physics of Solids, 2022, 159, 104735.	4.8	11
97	Self-Organization of Defect Structures under Low-Temperature Irradiation-A Theory of Stacking-Fault-Tetrahedron Lattices. Solid State Phenomena, 1992, 23-24, 221-236.	0.3	10
98	Some exactly solvable models for the statistical evolution of internal variables during plastic deformation. Probabilistic Engineering Mechanics, 2000, 15, 131-138.	2.7	10
99	Fractal Dislocation Patterning in Plastically Deformed NaCl Polycrystals. Physica Status Solidi A, 2001, 185, R4-R5.	1.7	10
100	Statistical dynamics of dislocations in simple models of plastic deformation: Phase transitions and related phenomena. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 400-401, 191-198.	5.6	10
101	Discrete dislocation dynamics simulation and continuum modeling of plastic boundary layers in tricrystal micropillars. IOP Conference Series: Materials Science and Engineering, 2009, 3, 012025.	0.6	10
102	Snow Mechanics Near the Ductileâ€Brittle Transition: Compressive Stickâ€Slip and Snow Microquakes. Geophysical Research Letters, 2020, 47, e2019GL085491.	4.0	10
103	Spatio-temporal aspects of low-temperature thermomechanical instabilities: A model based on dislocation dynamics. Applied Physics A: Solids and Surfaces, 1993, 57, 143-151.	1.4	9
104	Dislocation Transport and Line Length Increase in Averaged Descriptions of Dislocations. , 2009, , .		9
105	Network analysis predicts failure of materials and structures. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16666-16668.	7.1	9
106	Slab avalanche release viewed as interface fracture in a random medium. Annals of Glaciology, 2004, 38, 9-14.	1.4	8
107	Stress and strain fluctuations in plastic deformation of crystals with disordered microstructure. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P08009.	2.3	8
108	Stochastic Crystal Plasticity Models with Internal Variables: Application to Slip Channel Formation in Irradiated Metals. Advanced Engineering Materials, 2020, 22, 1901208.	3.5	8

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109	Beam network model for fracture of materials with hierarchical microstructure. International Journal of Fracture, 2021, 227, 243-257.	2.2	8
110	Stability criteria for plastic deformation at low temperatures. Scripta Metallurgica Et Materialia, 1995, 32, 1261-1268.	1.0	7
111	The role of density fluctuations in the relaxation of random dislocation systems. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P03036.	2.3	7
112	Role of weakest links and system-size scaling in multiscale modeling of stochastic plasticity. Physical Review B, 2017, 95, .	3.2	7
113	Statistical dynamics of early creep stages in disordered materials. European Physical Journal B, 2019, 92, 1.	1.5	7
114	Effects of elasticity and dislocation core structure on the interaction of dislocations with embedded CNTs in aluminium: An atomistic simulation study. Materialia, 2022, 21, 101347.	2.7	7
115	A mesoscopic approach to point-defect clustering in solids during irradiation. Applied Physics A: Solids and Surfaces, 1993, 57, 117-121.	1.4	6
116	The influence of strain-rate fluctuations on the stability of low-temperature plastic deformation. Acta Materialia, 1997, 45, 1695-1704.	7.9	6
117	Shear Bands and Damage Clusters in Slope Failure - A One-Dimensional Model. Journal of the Mechanical Behavior of Materials, 2004, 15, 185-202.	1.8	6
118	Roughening and pinning of interface cracks in shear delamination of thin films. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P11009.	2.3	6
119	Emergent patterns of localized damage as a precursor to catastrophic failure in a random fuse network. Physical Review E, 2013, 87, 042811.	2.1	6
120	Avalanche dynamics in hierarchical fiber bundles. Physical Review E, 2019, 100, 022133.	2.1	6
121	Edge betweenness centrality as a failure predictor in network models of structurally disordered materials. Scientific Reports, 2022, 12, .	3.3	6
122	A theory of the formation of slip channels in cold-worked bcc metals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 74, 287-298.	0.6	5
123	Microstructural Slip Localization in Strain Softening Materials. Physica Status Solidi (B): Basic Research, 1997, 203, 29-42.	1.5	5
124	RAS as a remote sensor of plastic deformation in metals. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3997-4002.	0.8	5
125	Density-based modelling of dislocations. Philosophical Magazine, 2007, 87, 1159-1160.	1.6	5
126	Nucleation of interfacial shear cracks in thin films on disordered substrates. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P02047.	2.3	5

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127	Theory of radiation-induced self-organization of defect structures. Applied Physics A: Solids and Surfaces, 1994, 58, 3-10.	1.4	4
128	A model of the formation of strain bursts during cyclic deformation. Scripta Metallurgica Et Materialia, 1994, 31, 1587-1592.	1.0	4
129	Theory of diffusion-controlled defect aggregation under irradiation: A comparative study of three basic approaches. Radiation Effects and Defects in Solids, 1995, 136, 209-215.	1.2	4
130	Depinning transition of a dislocation line in ferritic oxide strengthened steels. Journal of Nuclear Materials, 2009, 385, 284-287.	2.7	4
131	Modeling microbending of thin films through discrete dislocation dynamics, continuum dislocation theory, and gradient plasticity. Journal of Materials Research, 2012, 27, 612-618.	2.6	4
132	Graph theoretical approaches for the characterization of damage in hierarchical materials. European Physical Journal B, 2019, 92, 1.	1.5	4
133	A Beam Network Model Approach to Strength Optimization of Disordered Fibrous Materials. Advanced Engineering Materials, 2020, 22, 1901013.	3.5	4
134	Multilayer Structures of Graphene and Pt Nanoparticles: A Multiscale Computational Study. Advanced Engineering Materials, 2020, 22, 2000207.	3.5	4
135	Statistical theory of slip channels in body-centered cubic metals. Applied Physics A: Materials Science and Processing, 1997, 64, 391-401.	2.3	3
136	Expansion of Quasi-Discrete Dislocation Loops in the Context of a 3D Continuum Theory of Curved Dislocations. , 2009, , .		3
137	Some Limitations of Dislocation Walls as Models for Plast Boundary Layers. , 2011, , .		3
138	Damage growth in fibre bundle models with localized load sharing and environmentally-assisted ageing. Journal of Physics: Conference Series, 2013, 410, 012064.	0.4	3
139	Crack phantoms: localized damage correlations and failure in network models of disordered materials. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P08029.	2.3	3
140	Pinning of dislocations in disordered alloys: effects of dislocation orientation. Materials Theory, 2022, 6, .	4.3	3
141	Statistical aspects of interface adhesion and detachment of hierarchically patterned structures. Journal of Statistical Mechanics: Theory and Experiment, 2022, 2022, 023301.	2.3	3
142	Atomistic aspects of load transfer and fracture in CNT-reinforced aluminium. Materialia, 2022, 22, 101376.	2.7	3
143	Radiation-Induced Self-Organization of Defect Structures in Metals. Materials Science Forum, 1993, 123-125, 687-700.	0.3	2
144	Nucleation And Non-Linear Strain Localization During Cyclic Plastic Deformation. Journal of the Mechanical Behavior of Materials, 2007, 18, 69-79.	1.8	2

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145	Fracture Toughness of Snow: The Influence of Layered Microstructure. Journal of the Mechanical Behavior of Materials, 2007, 18, 195-215.	1.8	2
146	Der Knall im Lawinenhang. Die Ursache von Schneebrettlawinen. Physik in Unserer Zeit, 2010, 41, 31-34.	0.0	2
147	Statistical Dislocation Dynamics â€“ Multiplication and Long Range Interactions. Materials Research Society Symposia Proceedings, 2003, 779, 571.	0.1	2
148	Dislocation dynamics in cyclic plastic deformation. Applied Physics A: Materials Science and Processing, 1995, 60, 497-503.	2.3	1
149	Mithradham RE centre: Environment and RE promotion in India. Refocus, 2002, 3, 26-29.	0.2	1
150	Size scaling of strength in thin film delamination. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P02024.	2.3	1
151	Higher Order Continuum Modelling for Predicting the Mechanical Behaviour of Solid Foams. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 315-316.	0.2	1
152	Exaptation in Physics and Materials Science. The Frontiers Collection, 2020, , 35-45.	0.2	1
153	Theory of radiation-induced self-organization of defect structures. Applied Physics A: Solids and Surfaces, 1994, 58, 11-19.	1.4	0
154	Dislocation dynamics in cyclic plastic deformation. Applied Physics A: Materials Science and Processing, 1995, 60, 589-595.	2.3	0
155	Symposium on Modelling Complex Materials: Materials Behavior below the Scale of the Representative Volume Element. , 2009, , .		0
156	Interface-Dislocation Interaction on Sub-micron Scales. , 2009, , .		0
157	The Connection between Size Effects and Strain Bursts in Microscale Plasticity. , 2009, , .		0
158	Crack Nucleation in Thin Films on Disordered Substrates. , 2009, , .		0
159	Continuum Dislocation Dynamics (CDD) Modeling of Thin Film Micro-Plasticity. , 2009, , .		0
160	Application of a 3D-Continuum Theory of Dislocations to a Problems of Constrained Plastic Flow: Microbending of a Thin Film. Materials Research Society Symposia Proceedings, 2009, 1224, 1.	0.1	0
161	Preface of the Symposium on Discrete and Continuum Modeling of Dislocation Systems. , 2011, , .		0
162	Modelling Thin Film Microbending: A Comparative Study of Three Different Approaches. , 2011, , .		0

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163	Plasticity of Crystals with Disordered Microstructure: Scale-dependent Fluctuations of Stress and Strain. Materials Research Society Symposia Proceedings, 2014, 1651, 1.	0.1	0
164	Pinning and propagation of interface cracks in slope failure. , 2004, , 435-446.		0
165	Dislocation dynamics in cyclic plastic deformation II. Strain bursts. Applied Physics A: Materials Science and Processing, 1995, 60, 589-595.	2.3	0