Michael Zaiser

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/1290488/michael-zaiser-publications-by-year.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

 153
 4,689
 33
 65

 papers
 citations
 h-index
 g-index

 165
 5,301
 4.6
 5.98

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
153	Effects of elasticity and dislocation core structure on the interaction of dislocations with embedded CNTs in aluminium: An atomistic simulation study. <i>Materialia</i> , 2022 , 21, 101347	3.2	2
152	Evading strength and ductility trade-off in an inverse nacre structured magnesium matrix nanocomposite. <i>Acta Materialia</i> , 2022 , 228, 117730	8.4	3
151	Thermodynamic considerations on a class of dislocation-based constitutive models. <i>Journal of the Mechanics and Physics of Solids</i> , 2022 , 159, 104735	5	O
150	Size-dependent yield stress in ultrafine-grained polycrystals: A multiscale discrete dislocation dynamics study. <i>International Journal of Plasticity</i> , 2022 , 149, 103183	7.6	O
149	Statistical aspects of interface adhesion and detachment of hierarchically patterned structures. Journal of Statistical Mechanics: Theory and Experiment, 2022, 2022, 023301	1.9	O
148	Atomistic aspects of load transfer and fracture in CNT-reinforced aluminium. <i>Materialia</i> , 2022 , 22, 1013	37 6 ,2	1
147	Cell structure formation in a two-dimensional density-based dislocation dynamics model. <i>Materials Theory</i> , 2021 , 5,	2.2	8
146	Digital strategies for structured and architected materials design. APL Materials, 2021, 9, 020904	5.7	3
145	Strain rate dependency of dislocation plasticity. <i>Nature Communications</i> , 2021 , 12, 1845	17.4	21
144	The tension-compression behavior of gradient structured materials: A deformation-mechanism-based strain gradient plasticity model. <i>Mechanics of Materials</i> , 2021 , 159, 1039	9 123	5
143	Size-dependent plasticity of hetero-structured laminates: A constitutive model considering deformation heterogeneities. <i>International Journal of Plasticity</i> , 2021 , 145, 103063	7.6	9
142	Beam network model for fracture of materials with hierarchical microstructure. <i>International Journal of Fracture</i> , 2021 , 227, 243-257	2.3	2
141	Snow Mechanics Near the Ductile-Brittle Transition: Compressive Stick-Slip and Snow Microquakes. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085491	4.9	7
140	Exaptation in Physics and Materials Science. <i>The Frontiers Collection</i> , 2020 , 35-45	0.3	
139	A Beam Network Model Approach to Strength Optimization of Disordered Fibrous Materials. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901013	3.5	2
138	Stochastic Crystal Plasticity Models with Internal Variables: Application to Slip Channel Formation in Irradiated Metals. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901208	3.5	4
137	Multilayer Structures of Graphene and Pt Nanoparticles: A Multiscale Computational Study. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000207	3.5	3

136	Prediction of creep failure time using machine learning. Scientific Reports, 2020, 10, 16910	4.9	6
135	Avalanche dynamics in hierarchical fiber bundles. <i>Physical Review E</i> , 2019 , 100, 022133	2.4	3
134	Nickel coated carbon nanotubes in aluminum matrix composites: a multiscale simulation study. <i>European Physical Journal B</i> , 2019 , 92, 1	1.2	9
133	Network analysis predicts failure of materials and structures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16666-16668	11.5	5
132	Thin Film Encapsulation of Organic Solar Cells by Direct Deposition of Polysilazanes from Solution. <i>Advanced Energy Materials</i> , 2019 , 9, 1900598	21.8	23
131	Cyclic-loading microstructure-property relations from a mesoscale perspective: An example of single crystal Nickel-based superalloys. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 964-971	5.7	5
130	Graph theoretical approaches for the characterization of damage in hierarchical materials. <i>European Physical Journal B</i> , 2019 , 92, 1	1.2	3
129	Statistical dynamics of early creep stages in disordered materials. <i>European Physical Journal B</i> , 2019 , 92, 1	1.2	2
128	Effects of twin boundary orientation on plasticity of bicrystalline copper micropillars: A discrete dislocation dynamics simulation study. <i>Acta Materialia</i> , 2019 , 176, 289-296	8.4	24
127	Microplasticity and yielding in crystals with heterogeneous dislocation distribution. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019 , 27, 074003	2	5
126	Grain boundary effect on nanoindentation: A multiscale discrete dislocation dynamics model. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 126, 117-135	5	31
125	Properties of dislocation lines in crystals with strong atomic-scale disorder. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 740-741, 285-294	5.3	10
124	Size and disorder effects in elasticity of cellular structures: From discrete models to continuum representations. <i>International Journal of Solids and Structures</i> , 2018 , 146, 97-116	3.1	15
123	Determining Cosserat constants of 2D cellular solids from beam models. <i>Materials Theory</i> , 2018 , 2,	2.2	6
122	Annihilation and sources in continuum dislocation dynamics. <i>Materials Theory</i> , 2018 , 2,	2.2	16
121	Instability of dislocation fluxes in a single slip: Deterministic and stochastic models of dislocation patterning. <i>Physical Review B</i> , 2018 , 98,	3.3	18
120	Avalanche precursors of failure in hierarchical fuse networks. <i>Scientific Reports</i> , 2018 , 8, 12090	4.9	11
119	Avalanche Behavior in Creep Failure of Disordered Materials. <i>Physical Review Letters</i> , 2018 , 121, 12550	1 _{7.4}	10

118	Disorder is good for you: the influence of local disorder on strain localization and ductility of strain softening materials. <i>International Journal of Fracture</i> , 2017 , 205, 139-150	2.3	11
117	Role of weakest links and system-size scaling in multiscale modeling of stochastic plasticity. <i>Physical Review B</i> , 2017 , 95,	3.3	5
116	Universal features of amorphous plasticity. <i>Nature Communications</i> , 2017 , 8, 15928	17.4	42
115	Propagating compaction bands in confined compression of snow. <i>Nature Physics</i> , 2017 , 13, 272-275	16.2	30
114	A continuum approach to combined @evolution and dislocation plasticity in Nickel-based superalloys. <i>International Journal of Plasticity</i> , 2017 , 95, 142-162	7.6	33
113	Dislocation patterning in a two-dimensional continuum theory of dislocations. <i>Physical Review B</i> , 2016 , 93,	3.3	39
112	Rupture of graphene sheets with randomly distributed defects. AIMS Materials Science, 2016, 3, 1340-1	349	9
111	Continuum representation of systems of dislocation lines: A general method for deriving closed-form evolution equations. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 95, 575-601	5	22
110	Pattern formation in a minimal model of continuum dislocation plasticity. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015 , 23, 065005	2	33
109	Local density approximation for the energy functional of three-dimensional dislocation systems. <i>Physical Review B</i> , 2015 , 92,	3.3	34
108	Statistical analysis and stochastic dislocation-based modeling of microplasticity. <i>Journal of the Mechanical Behavior of Materials</i> , 2015 , 24, 105-113	1.9	9
107	Crack phantoms: localized damage correlations and failure in network models of disordered materials. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015 , 2015, P08029	1.9	3
106	Stress and strain fluctuations in plastic deformation of crystals with disordered microstructure. Journal of Statistical Mechanics: Theory and Experiment, 2015 , 2015, P08009	1.9	8
105	Mechanical properties and microstructure of single-wall carbon nanotube/elastomeric epoxy composites with block copolymers. <i>Materials Letters</i> , 2014 , 125, 116-119	3.3	17
104	Continuum dislocation dynamics: Towards a physical theory of crystal plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 63, 167-178	5	110
103	Deformation patterns and surface morphology in a minimal model of amorphous plasticity. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P03014	1.9	12
102	Higher Order Continuum Modelling for Predicting the Mechanical Behaviour of Solid Foams. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 315-316	0.2	1
101	Scaling properties of dislocation simulations in the similitude regime. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014 , 22, 065012	2	48

(2010-2014)

100	Avalanches in 2D dislocation systems: plastic yielding is not depinning. <i>Physical Review Letters</i> , 2014 , 112, 235501	7.4	96
99	Acceleration and localization of subcritical crack growth in a natural composite material. <i>Physical Review E</i> , 2014 , 90, 052401	2.4	30
98	Comparison of closure approximations for continuous dislocation dynamics. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1651, 1		16
97	Internal length scale and grain boundary yield strength in gradient models of polycrystal plasticity: How do they relate to the dislocation microstructure?. <i>Journal of Materials Research</i> , 2014 , 29, 2116-213	2 8 .5	22
96	Plasticity of Crystals with Disordered Microstructure: Scale-dependent Fluctuations of Stress and Strain. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1651, 1		
95	The energetics and interactions of random dislocation walls. <i>Philosophical Magazine Letters</i> , 2013 , 93, 387-394	1	13
94	Strain localization and strain propagation in collapsible solid foams. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 567, 38-45	5.3	18
93	Statistical aspects of microplasticity: experiments, discrete dislocation simulations and stochastic continuum models. <i>Journal of the Mechanical Behavior of Materials</i> , 2013 , 22, 89-100	1.9	11
92	From systems of discrete dislocations to a continuous field description: stresses and averaging aspects. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013 , 21, 085006	2	28
91	Emergent patterns of localized damage as a precursor to catastrophic failure in a random fuse network. <i>Physical Review E</i> , 2013 , 87, 042811	2.4	5
90	Damage growth in fibre bundle models with localized load sharing and environmentally-assisted ageing. <i>Journal of Physics: Conference Series</i> , 2013 , 410, 012064	0.3	2
89	Modeling microbending of thin films through discrete dislocation dynamics, continuum dislocation theory, and gradient plasticity. <i>Journal of Materials Research</i> , 2012 , 27, 612-618	2.5	3
88	Some Limitations of Dislocation Walls as Models for Plast Boundary Layers 2011,		3
87	Size scaling of strength in thin film delamination. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011 , 2011, P02024	1.9	1
86	Continuum modeling of dislocation plasticity: Theory, numerical implementation, and validation by discrete dislocation simulations. <i>Journal of Materials Research</i> , 2011 , 26, 623-632	2.5	79
85	Numerical implementation of a 3D continuum theory of dislocation dynamics and application to micro-bending. <i>Philosophical Magazine</i> , 2010 , 90, 3697-3728	1.6	48
84	Statistical heterogeneity of plastic deformation: An investigation based on surface profilometry. <i>Acta Materialia</i> , 2010 , 58, 4859-4870	8.4	13
83	Der Knall im Lawinenhang. Die Ursache von Schneebrettlawinen. <i>Physik in Unserer Zeit</i> , 2010 , 41, 31-34	0.1	1

82	The role of density fluctuations in the relaxation of random dislocation systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P03036	1.9	7
81	Roughening and pinning of interface cracks in shear delamination of thin films. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P11009	1.9	4
80	Nucleation of interfacial shear cracks in thin films on disordered substrates. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P02047	1.9	5
79	Dislocation Transport and Line Length Increase in Averaged Descriptions of Dislocations 2009,		9
78	Expansion of Quasi-Discrete Dislocation Loops in the Context of a 3D Continuum Theory of Curved Dislocations 2009 ,		3
77	Application of a 3D-Continuum Theory of Dislocations to a Problem of Constrained Plastic Flow: Microbending of a Thin Film. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1224, 1		
76	Depinning transition of a dislocation line in ferritic oxide strengthened steels. <i>Journal of Nuclear Materials</i> , 2009 , 385, 284-287	3.3	4
75	Discrete dislocation dynamics simulation and continuum modeling of plastic boundary layers in tricrystal micropillars. <i>IOP Conference Series: Materials Science and Engineering</i> , 2009 , 3, 012025	0.4	9
74	Failure initiation in snow stratifications containing weak layers: Nucleation of whumpfs and slab avalanches. <i>Cold Regions Science and Technology</i> , 2008 , 52, 385-400	3.8	19
73	Strain bursts in plastically deforming molybdenum micro- and nanopillars. <i>Philosophical Magazine</i> , 2008 , 88, 3861-3874	1.6	111
72	Anticrack nucleation as triggering mechanism for snow slab avalanches. <i>Science</i> , 2008 , 321, 240-3	33.3	90
71	Dislocation depinning transition in a dispersion-strengthened steel. <i>Physical Review B</i> , 2008 , 78,	3.3	22
70	Dislocation avalanches, strain bursts, and the problem of plastic forming at the micrometer scale. <i>Science</i> , 2007 , 318, 251-4	33.3	436
69	Scale-free statistics of plasticity-induced surface steps on KCl single crystals. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007 , 2007, L04001-L04001	1.9	11
68	Size effect in the tensile fracture of single-walled carbon nanotubes with defects. <i>Nanotechnology</i> , 2007 , 18, 155708	3.4	22
67	Slip avalanches in crystal plasticity: scaling of the avalanche cut-off. <i>Journal of Statistical Mechanics:</i> Theory and Experiment, 2007 , 2007, P04013-P04013	1.9	42
66	Nucleation And Non-Linear Strain Localization During Cyclic Plastic Deformation. <i>Journal of the Mechanical Behavior of Materials</i> , 2007 , 18, 69-79	1.9	2
65	Fracture Toughness of Snow: The Influence of Layered Microstructure. <i>Journal of the Mechanical Behavior of Materials</i> , 2007 , 18, 195-215	1.9	2

(2004-2007)

64	Interplay of basal shear fracture and slab rupture in slab avalanche release. <i>Cold Regions Science and Technology</i> , 2007 , 49, 26-38	3.8	7
63	Modelling size effects using 3D density-based dislocation dynamics. <i>Philosophical Magazine</i> , 2007 , 87, 1283-1306	1.6	25
62	A three-dimensional continuum theory of dislocation systems: kinematics and mean-field formulation. <i>Philosophical Magazine</i> , 2007 , 87, 1261-1282	1.6	122
61	Density-based modelling of dislocations. <i>Philosophical Magazine</i> , 2007 , 87, 1159-1160	1.6	5
60	Some steps towards a continuum representation of 3D dislocation systems. <i>Scripta Materialia</i> , 2006 , 54, 717-721	5.6	45
59	Scale invariance in plastic flow of crystalline solids. <i>Advances in Physics</i> , 2006 , 55, 185-245	18.4	261
58	An analytical model for fracture nucleation in collapsible stratifications. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	15
57	Randomness and slip avalanches in gradient plasticity. <i>International Journal of Plasticity</i> , 2006 , 22, 1432	- 1/4/5 5	59
56	Interactions between polymers and carbon nanotubes: a molecular dynamics study. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 10009-14	3.4	313
55	Statistical dynamics of dislocations in simple models of plastic deformation: Phase transitions and related phenomena. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 400-401, 191-198	5.3	10
54	RAS as a remote sensor of plastic deformation in metals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 3997-4002		3
53	Fluctuation phenomena in crystal plasticity continuum model. <i>Journal of Statistical Mechanics:</i> Theory and Experiment, 2005 , 2005, P08004-P08004	1.9	68
52	Self-affine surface morphology of plastically deformed metals. <i>Physical Review Letters</i> , 2004 , 93, 19550	7 7.4	86
51	Growth of a vortex polycrystal in type II superconductors. <i>Physical Review Letters</i> , 2004 , 92, 257004	7.4	12
50	Depinning transition of dislocation assemblies: Pileups and low-angle grain boundaries. <i>Physical Review B</i> , 2004 , 69,	3.3	61
49	Dislocation Patterns in Crystalline Solids Phenomenology and Modelling 2004, 215-238		9
48	Shear Bands and Damage Clusters in Slope Failure - A One-Dimensional Model. <i>Journal of the Mechanical Behavior of Materials</i> , 2004 , 15, 185-202	1.9	6
47	Carbon nanotube/epoxy resin composites using a block copolymer as a dispersing agent. <i>Physica Status Solidi A</i> , 2004 , 201, R89-R91		80

46	The effects of snow variability on slab avalanche release. <i>Cold Regions Science and Technology</i> , 2004 , 40, 229-242	3.8	29
45	Slab avalanche release viewed as interface fracture in a random medium. <i>Annals of Glaciology</i> , 2004 , 38, 9-14	2.5	8
44	Pinning and propagation of interface cracks in slope failure 2004 , 435-446		
43	Geometrically necessary dislocations and strain gradient plasticity dislocation dynamics point of view. <i>Scripta Materialia</i> , 2003 , 48, 133-139	5.6	38
42	Spatial correlations and higher-order gradient terms in a continuum description of dislocation dynamics. <i>Acta Materialia</i> , 2003 , 51, 1271-1281	8.4	305
41	Avalanches and Slip Patterning in Plastic Deformation. <i>Journal of the Mechanical Behavior of Materials</i> , 2003 , 14, 255-270	1.9	13
40	Statistical Dislocation Dynamics IMultiplication and Long Range Interactions. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 779, 571		2
39	Dislocation motion in a random solid solution. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002 , 82, 2869-2883		28
38	Chapter 56 Long-range internal stresses, dislocation patterning and work-hardening in crystal plasticity. <i>Dislocations in Solids</i> , 2002 , 11, 1-100		24
37	Dislocation jamming and andrade creep. <i>Physical Review Letters</i> , 2002 , 89, 165501	7.4	113
36	Depinning of a dislocation: the influence of long-range interactions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 309-310, 348-351	5.3	32
35	Statistical modelling of dislocation systems. <i>Materials Science & Dislocation A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 309-310, 304-315	5.3	48
34	Fractal Dislocation Patterning in Plastically Deformed NaCl Polycrystals. <i>Physica Status Solidi A</i> , 2001 , 185, R4-R5		7
33	Statistical dynamics of dislocation systems: The influence of dislocation-dislocation correlations. <i>Physical Review B</i> , 2001 , 64,	3.3	117
32	Some exactly solvable models for the statistical evolution of internal variables during plastic deformation. <i>Probabilistic Engineering Mechanics</i> , 2000 , 15, 131-138	2.6	8
31	Irradiation-induced transformation of graphite to diamond: A quantitative study. <i>Physical Review B</i> , 2000 , 62, 3058-3064	3.3	55
30	Fractal analysis of deformation-induced dislocation patterns. <i>Acta Materialia</i> , 1999 , 47, 2463-2476	8.4	70
29	The flow stress of fractal dislocation arrangements. Materials Science & Difference of the Action of the Company of the Compan		

28	Dislocation dynamics and work hardening of fractal dislocation cell structures. <i>Materials Science & Materials Properties, Microstructure and Processing</i> , 1999 , 272, 443-454	5.3	37
27	On the relations between strain and strain-rate softening phenomena in some metallic materials: a computational study. <i>Computational Materials Science</i> , 1999 , 15, 35-49	3.2	19
26	Misfit Dislocation Patterning in Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 1998 , 209, 295-304	1.3	9
25	A generalized comopsite approach to the flow stress and strain hardening of crystals containing heterogeneous dislocation distributions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 249, 145-151	5.3	16
24	Stochastic and deterministic aspects of strain localization during cyclic plastic deformation. <i>Acta Materialia</i> , 1998 , 46, 4143-4151	8.4	21
23	Fractal Dislocation Patterning During Plastic Deformation. <i>Physical Review Letters</i> , 1998 , 81, 2470-2473	7.4	137
22	Radiation-Induced Transformation of Graphite to Diamond. <i>Physical Review Letters</i> , 1997 , 79, 3680-3683	37.4	122
21	The influence of strain-rate fluctuations on the stability of low-temperature plastic deformation. <i>Acta Materialia</i> , 1997 , 45, 1695-1704	8.4	6
20	Statistical theory of slip channels in body-centered cubic metals. <i>Applied Physics A: Materials Science and Processing</i> , 1997 , 64, 391-401	2.6	3
19	From mesoscopic heterogeneity of slip to macroscopic fluctuations of stress and strain. <i>Acta Materialia</i> , 1997 , 45, 1067-1075	8.4	29
18	A unified description of strain-rate softening instabilities. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 238, 399-406	5.3	24
17	Oscillatory Modes of Plastic Deformation: Theoretical Concepts. <i>Physica Status Solidi (B): Basic Research</i> , 1997 , 199, 267-330	1.3	118
16	Microstructural Slip Localization in Strain Softening Materials. <i>Physica Status Solidi (B): Basic Research</i> , 1997 , 203, 29-42	1.3	5
15	Random aspects of macroscopic plastic deformation. <i>Philosophical Magazine Letters</i> , 1996 , 73, 369-376	1	10
14	A theory of the formation of slip channels in cold-worked bcc metals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1996 , 74, 287-298		5
13	Theory of diffusion-controlled defect aggregation under irradiation: A comparative study of three basic approaches. <i>Radiation Effects and Defects in Solids</i> , 1995 , 136, 209-215	0.9	3
12	Stability criteria for plastic deformation at low temperatures. <i>Scripta Metallurgica Et Materialia</i> , 1995 , 32, 1261-1268		7
11	Dislocation dynamics in cyclic plastic deformation. <i>Applied Physics A: Materials Science and Processing</i> , 1995 , 60, 589-595	2.6	

10	Dislocation dynamics in cyclic plastic deformation. <i>Applied Physics A: Materials Science and Processing</i> , 1995 , 60, 497-503	2.6	1
9	A mesoscopic approach to radiation-induced defect aggregation in alkali halides stimulated by the elastic interaction of mobile Frenkel defects. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1994 , 70, 313-327		19
8	Theory of radiation-induced self-organization of defect structures. <i>Applied Physics A: Solids and Surfaces</i> , 1994 , 58, 3-10		4
7	Theory of radiation-induced self-organization of defect structures. <i>Applied Physics A: Solids and Surfaces</i> , 1994 , 58, 11-19		
6	A model of the formation of strain bursts during cyclic deformation. <i>Scripta Metallurgica Et Materialia</i> , 1994 , 31, 1587-1592		4
5	Radiation-Induced Self-Organization of Defect Structures in Metals. <i>Materials Science Forum</i> , 1993 , 123-125, 687-700	0.4	2
4	A mesoscopic approach to point-defect clustering in solids during irradiation. <i>Applied Physics A: Solids and Surfaces</i> , 1993 , 57, 117-121		4
3	Spatio-temporal aspects of low-temperature thermomechanical instabilities: A model based on dislocation dynamics. <i>Applied Physics A: Solids and Surfaces</i> , 1993 , 57, 143-151		8
2	Self-Organization of Defect Structures under Low-Temperature Irradiation-A Theory of Stacking-Fault-Tetrahedron Lattices. <i>Solid State Phenomena</i> , 1992 , 23-24, 221-236	0.4	10
1	The study of self-organization processes in crystals by high-voltage electron microscopy. <i>Ultramicroscopy</i> , 1991 , 39, 342-354	3.1	24