

## List of independent citations

**Máthis Kristián et al. On the dynamics of twinning in magnesium micropillars. (2021) MATERIALS AND DESIGN 0264-1275 1873-4197 0261-3069 203, [31882582](#)**

Journal Article/Article (Journal Article)/Scientific  
[31882582]

1. Sendrowicz Aleksander et al. Challenges and Accomplishments in Mechanical Testing Instrumented by In Situ Techniques: Infrared Thermography, Digital Image Correlation, and Acoustic Emission. (2021) APPLIED SCIENCES-BASEL 2076-3417 11 15

Journal Article/Article (Journal Article)/Scientific  
[32237444] [Approved]

*Független, Idéző: [32237444](#), Kapcsolat: [30420373](#)*

**Ispánovity Péter Dusán et al. Emergence and role of dipolar dislocation patterns in discrete and continuum formulations of plasticity. (2020) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 101 2, [31136746](#)**

Journal Article/Article (Journal Article)/Scientific  
[31136746]

1. Xie Yuxi et al. Finite temperature atomistic-informed crystal plasticity finite element modeling of single crystal tantalum (alpha-Ta) at micron scale. (2021) INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING 0029-5981 1097-0207 122 17 4660-4697

Journal Article/Article (Journal Article)/Scientific  
[32236864] [Approved]

*Független, Idéző: [32236864](#), Kapcsolat: [30420313](#)*

**Kalácska Szilvia et al. Investigation of geometrically necessary dislocation structures in compressed Cu micropillars by 3-dimensional HR-EBSD. (2020) MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING 0921-5093 1873-4936 770, [30852183](#)**

Journal Article/Article (Journal Article)/Scientific  
[30852183]

1. Bagheripoor Mahdi et al. Effect of crystal orientation on the size effects of nano-scale fcc metals. (2020) MATERIALS SCIENCE AND TECHNOLOGY 0267-0836 36 17 1829-1850

Journal Article/Article (Journal Article)/Scientific  
[31747609] [Validated]

*Független, Idéző: [31747609](#), Kapcsolat: [29665835](#)*

2. Olasz Dániel et al. Extended Applications of the Depth-Sensing Indentation Method. (2020) MICROMACHINES 2072-666X 11 11

Journal Article/Article (Journal Article)/Scientific

[31677600] [Validated]

*Független, Idéző: [31677600](#), Kapcsolat: [29841130](#)*

3. Nautiyal Pranjali et al. In-Situ Mechanics: Experimental Tools and Techniques. (2020) In: In-situ Mechanics of Materials pp. 25-73

Chapter in Book/Study (Chapter in Book)/Scientific

[31865774] [Approved]

*Független, Idéző: [31865774](#), Kapcsolat: [29841174](#)*

4. Karamched Phani S. et al. Effect of sample thinning on strains and lattice rotations measured from Transmission Kikuchi diffraction in the SEM. (2021) ULTRAMICROSCOPY 0304-3991 225

Journal Article/Article (Journal Article)/Scientific

[32237377] [Approved]

*Független, Idéző: [32237377](#), Kapcsolat: [30420259](#)*

**Kalácska Szilvia et al. 3D HR-EBSD Characterization of the plastic zone around crack tips in tungsten single crystals at the micron scale. (2020) ACTA MATERIALIA 1359-6454 1873-2453 200 211-222, [31604275](#)**

Journal Article/Article (Journal Article)/Scientific

[31604275]

1. Li Xiaotao et al. Theoretical modeling of crack-tip plasticity by the distributed dislocation technique. (2021) ENGINEERING FRACTURE MECHANICS 0013-7944 243 p. 107471

Journal Article/Article (Journal Article)/Scientific

[31865925] [Approved]

*Független, Idéző: [31865925](#), Kapcsolat: [29841465](#)*

**Wu RH et al. Instability of dislocation fluxes in a single slip: Deterministic and stochastic models of dislocation patterning. (2018) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 98 5, [3419423](#)**

Journal Article/Article (Journal Article)/Scientific

[3419423]

1. Zuev L. B. et al. Vibrational Kinetics of the Luders Front. (2019) RUSSIAN PHYSICS JOURNAL 1064-8887 1573-9228 1338-1342

Journal Article/Article (Journal Article)/Scientific

[31092593] [Validated]

*Független, Idéző: [31092593](#), Kapcsolat: [28687771](#)*

2. Зубев Лев et al. Oscillatory kinetics of the Luders front. (2019) IZVESTIYA VYSSHIKH UCHEBNIKH ZAVEDENII FIZIKA 0021-3411 62 8 28-32

Journal Article/Article (Journal Article)/Scientific

[31092594] [Validated]

*Független, Idéző: [31092594](#), Kapcsolat: [28687772](#)*

3. Lin Peng et al. Implementation of annihilation and junction reactions in vector density-based continuum dislocation dynamics. (2020) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 28 4  
Journal Article/Article (Journal Article)/Scientific  
[31343102] [Validated]

*Független, Idéző: [31343102](#), Kapcsolat: [29031972](#)*

4. Zuev Lev et al. LOCALIZED PLASTIC DEFORMATION AND PERIODIC TABLE. (2020) INTERNATIONAL JOURNAL OF GEOMATE 2186-2982 2186-2990 18 67 90-95  
Journal Article/Article (Journal Article)/Scientific  
[31343203] [Validated]

*Független, Idéző: [31343203](#), Kapcsolat: [29031973](#)*

5. Zhou Zhengcheng et al. Characterisation of dislocation patterning behaviour with a continuum dislocation dynamics model on two parallel slip planes equipped with a deep neural network resolving local microstructures. (2020) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES 0020-7683 198 57-71  
Journal Article/Article (Journal Article)/Scientific  
[31460892] [Validated]

*Független, Idéző: [31460892](#), Kapcsolat: [29291918](#)*

6. Vivekanandan Vignesh et al. On the implementation of dislocation reactions in continuum dislocation dynamics modeling of mesoscale plasticity. (2021) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 149 p. 104327  
Journal Article/Article (Journal Article)/Scientific  
[31865621] [Approved]

*Független, Idéző: [31865621](#), Kapcsolat: [29840934](#)*

7. Mohamadnejad Sedigheh et al. Analyses of Dislocation Effects on Plastic Deformation. (2020) Multiscale Science and Engineering 2524-4515 2524-4523 2 2-3 69-89  
Journal Article/Article (Journal Article)/Scientific  
[31865636] [Approved]

*Független, Idéző: [31865636](#), Kapcsolat: [29840957](#)*

8. Trinh Truong Duc et al. A Crystal Plasticity Simulation on Strain-Induced Martensitic Transformation in Crystalline TRIP Steel by Coupling with Cellular Automata. (2021) METALS 2075-4701 11 8  
Journal Article/Article (Journal Article)/Scientific  
[32237173] [Approved]

*Független, Idéző: [32237173](#), Kapcsolat: [30419947](#)*

9. Ranjan Devraj et al. Crystal plasticity modeling of non-Schmid yield behavior: from Ni3Al single crystals to Ni-based superalloys. (2021) MODELLING AND SIMULATION IN

MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 29 5

Journal Article/Article (Journal Article)/Scientific

[32236863] [Approved]

*Független, Idéző: [32236863](#), Kapcsolat: [30419948](#)*

**Ispánovity PD et al. Role of weakest links and system-size scaling in multiscale modeling of stochastic plasticity. (2017) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 95 5, [3196361](#)**

Journal Article/Article (Journal Article)/Scientific

[3196361]

1. Maass R et al. Micro-plasticity and recent insights from intermittent and small-scale plasticity. (2018) ACTA MATERIALIA 1359-6454 1873-2453 143 338-363  
Journal Article/Article (Journal Article)/Scientific  
[27312686] [Validated]  
*Független, Idéző: [27312686](#), Kapcsolat: [27039557](#)*
2. Salmenjoki Henri et al. Machine learning plastic deformation of crystals. (2018) NATURE COMMUNICATIONS 2041-1723 9  
Journal Article/Article (Journal Article)/Scientific  
[30533473] [Validated]  
*Független, Idéző: [30533473](#), Kapcsolat: [28073809](#)*
3. Shimanek John et al. Scale-dependent pop-ins in nanoindentation and scale-free plastic fluctuations in microcompression. (2020) JOURNAL OF MATERIALS RESEARCH 0884-2914 35 2 196-205  
Journal Article/Article (Journal Article)/Scientific  
[31343174] [Validated]  
*Független, Idéző: [31343174](#), Kapcsolat: [29031966](#)*
4. Anderson Joseph Pierre et al. Situating the Vector Density Approach Among Contemporary Continuum Theories of Dislocation Dynamics. (2022) JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME 0094-4289 1528-8889 144 1  
Journal Article/Article (Journal Article)/Scientific  
[32237019] [Approved]  
*Független, Idéző: [32237019](#), Kapcsolat: [30419716](#)*

**István Hegyi Ádám et al. Micron-Scale Deformation: A Coupled In Situ Study of Strain Bursts and Acoustic Emission. (2017) MICROSCOPY AND MICROANALYSIS 1431-9276 1435-8115 23 6 1076-1081, [3329511](#)**

Journal Article/Article (Journal Article)/Scientific

[3329511]

1. Ctvrtlik R. et al. High-Resolution Acoustic Emission Monitoring in Nanomechanics. (2019)

Journal Article/Article (Journal Article)/Scientific

[30783612] [Validated]

*Független, Idéző: [30783612](#), Kapcsolat: [28280767](#)*

2. Papanikolaou Stefanos et al. Avalanches and plastic flow in crystal plasticity: an overview.

(2018) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING

0965-0393 1361-651X 26 1

Journal Article/Survey paper (Journal Article)/Scientific

[27312687] [Validated]

*Független, Idéző: [27312687](#), Kapcsolat: [28280769](#)*

3. Beake Ben D. et al. High frequency acoustic emission monitoring in nano-impact of alumina and partially stabilised zirconia. (2020) MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING 0921-5093 1873-4936 780

Journal Article/Article (Journal Article)/Scientific

[31343201] [Approved]

*Független, Idéző: [31343201](#), Kapcsolat: [29031970](#)*

4. Gubicza J. et al. Micropillar compression study on the deformation behavior of electrodeposited Ni-Mo films. (2020) COATINGS 2079-6412 10 3

Journal Article/Article (Journal Article)/Scientific

[31282736] [Validated]

*Független, Idéző: [31282736](#), Kapcsolat: [29031971](#)*

5. Rizzardi Q. et al. Microstructural signatures of dislocation avalanches in a high-entropy alloy. (2021) PHYSICAL REVIEW MATERIALS 2475-9953 5 4

Journal Article/Article (Journal Article)/Scientific

[32237078] [Approved]

*Független, Idéző: [32237078](#), Kapcsolat: [30419825](#)*

**Kalácska Szilvia et al. Comparison of the dislocation density obtained by HR-EBSD and X-ray profile analysis. (2017) APPLIED PHYSICS LETTERS 0003-6951 1077-3118 110 9, [3196789](#)**

Journal Article/Article (Journal Article)/Scientific

[3196789]

1. Gianola Daniel S. et al. New techniques for imaging and identifying defects in electron microscopy. (2019) MRS BULLETIN 0883-7694 44 6 450-458

Journal Article/Article (Journal Article)/Scientific

[30783575] [Validated]

*Független, Idéző: [30783575](#), Kapcsolat: [28280721](#)*

2. Seret Anthony et al. Estimation of geometrically necessary dislocation density from

- filtered EBSD data by a local linear adaptation of smoothing splines. (2019) JOURNAL OF APPLIED CRYSTALLOGRAPHY 0021-8898 1600-5767 52 548-563  
Journal Article/Article (Journal Article)/Scientific  
[30783576] [Validated]  
*Független, Idéző: [30783576](#), Kapcsolat: [28280722](#)*
3. Yu Hongbing et al. Mapping the full lattice strain tensor of a single dislocation by high angular resolution transmission Kikuchi diffraction (HR-TKD). (2019) SCRIPTA MATERIALIA 1359-6462 164 36-41  
Journal Article/Article (Journal Article)/Scientific  
[30783577] [Validated]  
*Független, Idéző: [30783577](#), Kapcsolat: [28280723](#)*
4. Zhang Yuqi et al. Extracting dislocation microstructures by deep learning. (2019) INTERNATIONAL JOURNAL OF PLASTICITY 0749-6419 115 18-28  
Journal Article/Article (Journal Article)/Scientific  
[30783578] [Validated]  
*Független, Idéző: [30783578](#), Kapcsolat: [28280724](#)*
5. Wilkinson Angus J. et al. Applications of multivariate statistical methods and simulation libraries to analysis of electron backscatter diffraction and transmission Kikuchi diffraction datasets. (2019) ULTRAMICROSCOPY 0304-3991 196 88-98  
Journal Article/Article (Journal Article)/Scientific  
[30783579] [Validated]  
*Független, Idéző: [30783579](#), Kapcsolat: [28280725](#)*
6. Salmenjoki Henri et al. Machine learning plastic deformation of crystals. (2018) NATURE COMMUNICATIONS 2041-1723 9  
Journal Article/Article (Journal Article)/Scientific  
[30533473] [Validated]  
*Független, Idéző: [30533473](#), Kapcsolat: [28280726](#)*
7. Ruggles T. J. et al. New levels of high angular resolution EBSD performance via inverse compositional Gauss-Newton based digital image correlation. (2018) ULTRAMICROSCOPY 0304-3991 195 85-92  
Journal Article/Article (Journal Article)/Scientific  
[30783580] [Approved]  
*Független, Idéző: [30783580](#), Kapcsolat: [28280727](#)*
8. Das Bakshi S et al. Anisotropic broadening of XRD peaks of alpha '-Fe: Williamson-Hall and Warren-Averbach analysis using full width at half maximum (FWHM) and integral breadth (IB). (2018) MATERIALS CHARACTERIZATION 1044-5803 142 144-153  
Journal Article/Article (Journal Article)/Scientific  
[27532364] [Validated]  
*Független, Idéző: [27532364](#), Kapcsolat: [28280728](#)*

9. Zhilyaev A. P. et al. Structure evolution in coarse-grained nickel under ultrasonic treatment. (2018) MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING 0921-5093 1873-4936 731 231-238  
Journal Article/Article (Journal Article)/Scientific  
[30783581] [Approved]  
*Független, Idéző: [30783581](#), Kapcsolat: [28280729](#)*
10. Wen Wei et al. Mechanism-based modeling of solute strengthening: Application to thermal creep in Zr alloy. (2018) INTERNATIONAL JOURNAL OF PLASTICITY 0749-6419 106 88-106  
Journal Article/Article (Journal Article)/Scientific  
[27532436] [Validated]  
*Független, Idéző: [27532436](#), Kapcsolat: [28280730](#)*
11. Saleh Ahmed A et al. On the evolution and modelling of Cube texture during dynamic recrystallisation of Ni-30Fe-Nb-C model alloy. (2018) JOURNAL OF ALLOYS AND COMPOUNDS 0925-8388 748 620-636  
Journal Article/Article (Journal Article)/Scientific  
[27564165] [Validated]  
*Független, Idéző: [27564165](#), Kapcsolat: [28280733](#)*
12. Hameiri Z. Photovoltaics literature survey (No. 135). (2017) PROGRESS IN PHOTOVOLTAICS: RESEARCH AND APPLICATIONS 1062-7995 1099-159X 25 6 470-474  
Journal Article/Note, Short, Rapid communications (Journal Article)/Scientific  
[26785477] [Admin approved]  
*Független, Idéző: [26785477](#), Kapcsolat: [28280772](#)*
13. Naveen Kumar N. et al. Influence of dislocations and grain boundaries on diffraction line profiles of nano-crystalline materials: A numerical study. (2020) COMPUTATIONAL MATERIALS SCIENCE 0927-0256 171  
Journal Article/Article (Journal Article)/Scientific  
[30814516] [Validated]  
*Független, Idéző: [30814516](#), Kapcsolat: [28327747](#)*
14. Lu H. et al. Effects of N addition and annealing treatment on microstructures and mechanical properties of ODS steels. (2019) JOURNAL OF NUCLEAR MATERIALS 0022-3115 527  
Journal Article/Article (Journal Article)/Scientific  
[30823196] [Validated]  
*Független, Idéző: [30823196](#), Kapcsolat: [28327748](#)*
15. de Campos M.. ACHIEVEMENTS IN MICROMAGNETIC TECHNIQUES OF STEEL PLASTIC STAGE EVALUATION. (2020) ADVANCES IN MATERIALS SCIENCE 1730-2439 2083-4799 20 1 16-55  
Journal Article/Article (Journal Article)/Scientific

[31343198] [Validated]

*Független, Idéző: [31343198](#), Kapcsolat: [29031968](#)*

16. Ruggles T. J. et al. Correlating results from high resolution EBSD with TEM- and ECCI-based dislocation microscopy: Approaching single dislocation sensitivity via noise reduction. (2020) ULTRAMICROSCOPY 0304-3991 210

Journal Article/Article (Journal Article)/Scientific

[31343199] [Validated]

*Független, Idéző: [31343199](#), Kapcsolat: [29031969](#)*

17. Panwar Aditya Singh et al. Material characterization techniques in engineering applications: A review. (2020) MATERIALS TODAY: PROCEEDINGS 2214-7853 28 1932-1937

Journal Article/Conference paper in journal (Journal Article)/Scientific

[31511531] [Validated]

*Független, Idéző: [31511531](#), Kapcsolat: [29284945](#)*

18. Mohankumar Madhan et al. XRD Peak Profile Analysis of SiC Reinforced Al<sub>2</sub>O<sub>3</sub> Ceramic Composite Synthesized by Electrical Resistance Heating and Microwave Sintering: A Comparison. (2021) ADVANCES IN MATERIALS SCIENCE AND ENGINEERING 1687-8434 1687-8442 2021

Journal Article/Article (Journal Article)/Scientific

[32237045] [Approved]

*Független, Idéző: [32237045](#), Kapcsolat: [30419758](#)*

19. Wallis David et al. Dislocation interactions in olivine control postseismic creep of the upper mantle. (2021) NATURE COMMUNICATIONS 2041-1723 12 1

Journal Article/Article (Journal Article)/Scientific

[32236791] [Approved]

*Független, Idéző: [32236791](#), Kapcsolat: [30419760](#)*

**Tüzes D et al. Disorder is good for you: the influence of local disorder on strain localization and ductility of strain softening materials. (2017) INTERNATIONAL JOURNAL OF FRACTURE 0376-9429 205 2 139-150, [3196360](#)**

Journal Article/Article (Journal Article)/Scientific

[3196360]

1. Taloni Alessandro et al. Size effects on the fracture of microscale and nanoscale materials. (2018) Nature Reviews Materials 2058-8437 3 7 211-224

Journal Article/Survey paper (Journal Article)/Scientific

[27584193] [Validated]

*Független, Idéző: [27584193](#), Kapcsolat: [27514115](#)*

2. Nicolas Alexandre et al. Deformation and flow of amorphous solids: Insights from elastoplastic models. (2018) REVIEWS OF MODERN PHYSICS 0034-6861 90 4



Journal Article/Article (Journal Article)/Scientific

[30554627] [Validated]

*Független, Idéző: [30554627](#), Kapcsolat: [28073807](#)*

3. Fusco Claudio et al. Brittle-to-quasibrittle transition in creep rupture of 2D disordered elastic materials. (2019) JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT 1742-5468 1742-5468

Journal Article/Article (Journal Article)/Scientific

[30823180] [Validated]

*Független, Idéző: [30823180](#), Kapcsolat: [28327732](#)*

4. Kovács Zsolt et al. Nanoindentation measurements on a torsionally deformed Zr<sub>44</sub>Ti<sub>11</sub>Cu<sub>10</sub>Ni<sub>10</sub>Be<sub>25</sub> bulk metallic glass. (2017) JOURNAL OF ALLOYS AND COMPOUNDS 0925-8388 708 301-307

Journal Article/Article (Journal Article)/Scientific

[3196431] [Validated]

*Független, Idéző: [3196431](#), Kapcsolat: [28327743](#)*

5. Barbot Armand et al. Rejuvenation and shear banding in model amorphous solids. (2020) PHYSICAL REVIEW E: COVERING STATISTICAL NONLINEAR BIOLOGICAL AND SOFT MATTER PHYSICS (2016-) 2470-0045 2470-0053 101 3

Journal Article/Article (Journal Article)/Scientific

[31511523] [Validated]

*Független, Idéző: [31511523](#), Kapcsolat: [29284926](#)*

6. Longwen Tang et al. The energy landscape governs ductility in disordered materials. (2020) MATERIALS HORIZONS 2051-6347 2051-6355 2020

Journal Article/Article (Journal Article)/Scientific

[31865317] [Approved]

*Független, Idéző: [31865317](#), Kapcsolat: [29840337](#)*

7. Cui Yinan et al. Spatio-temporal plastic instabilities at the nano/micro scale. (2019)

Journal of Micromechanics and Molecular Physics 2424-9130 3 03n04 p. 1840006

Journal Article/Article (Journal Article)/Scientific

[31865345] [Approved]

*Független, Idéző: [31865345](#), Kapcsolat: [29840398](#)*

**Groma I et al. Dislocation patterning in a two-dimensional continuum theory of dislocations. (2016) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 93 21, [3091092](#)**

Journal Article/Article (Journal Article)/Scientific

[3091092]

1. Valdenaire Pierre-Louis et al. Density-based crystal plasticity: From the discrete to the continuum. (2016) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805

1550-235X 1098-0121 93 21

Journal Article/Article (Journal Article)/Scientific

[26185684] [Approved]

*Független, Idéző: [26185684](#), Kapcsolat: [25988830](#)*

2. Zhu Yichao et al. Continuum dynamics of the formation, migration and dissociation of self-locked dislocation structures on parallel slip planes. (2016) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 96 369-387  
Journal Article/Article (Journal Article)/Scientific  
[26383838] [Admin approved]  
*Független, Idéző: [26383838](#), Kapcsolat: [26383838](#)*
3. Wu Ronghai et al. A dislocation dynamics-assisted phase field model for Nickel-based superalloys: The role of initial dislocation density and external stress during creep. (2017) JOURNAL OF ALLOYS AND COMPOUNDS 0925-8388 703 389-395  
Journal Article/Article (Journal Article)/Scientific  
[26722440] [Approved]  
*Független, Idéző: [26722440](#), Kapcsolat: [26561268](#)*
4. Zhang Peng et al. Taming intermittent plasticity at small scales. (2017) ACTA MATERIALIA 1359-6454 1873-2453 128 351-364  
Journal Article/Article (Journal Article)/Scientific  
[26563458] [Admin approved]  
*Független, Idéző: [26563458](#), Kapcsolat: [26561269](#)*
5. Ruffini Antoine et al. Three-dimensional phase-field model of dislocations for a heterogeneous face-centered cubic crystal. (2017) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 105 95-115  
Journal Article/Article (Journal Article)/Scientific  
[26745061] [Admin approved]  
*Független, Idéző: [26745061](#), Kapcsolat: [26745061](#)*
6. Papanikolaou Stefanos et al. Avalanches and plastic flow in crystal plasticity: an overview. (2018) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 26 1  
Journal Article/Survey paper (Journal Article)/Scientific  
[27312687] [Validated]  
*Független, Idéző: [27312687](#), Kapcsolat: [27308124](#)*
7. Spiliotis Konstantinos G et al. Analytical and numerical bifurcation analysis of dislocation pattern formation of the Walgraef-Aifantis model. (2018) INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS 0020-7462 1878-5638 102 41-52  
Journal Article/Article (Journal Article)/Scientific  
[27564412] [Validated]  
*Független, Idéző: [27564412](#), Kapcsolat: [27559859](#)*

8. Zhang Yuqi et al. Dislocation-density dynamics for modeling the cores and Peierls stress of curved dislocations. (2018) INTERNATIONAL JOURNAL OF PLASTICITY 0749-6419 104 1-22  
Journal Article/Article (Journal Article)/Scientific  
[27559860] [Validated]  
*Független, Idéző: [27559860](#), Kapcsolat: [27559860](#)*
9. Newton M.C. et al. Coherent diffraction imaging of a progressively deformed nanocrystal. (2019) PHYSICAL REVIEW MATERIALS 2475-9953 3 4  
Journal Article/Article (Journal Article)/Scientific  
[30783628] [Approved]  
*Független, Idéző: [30783628](#), Kapcsolat: [28280783](#)*
10. Garroni A. et al. Convergence and Non-convergence of Many-Particle Evolutions with Multiple Signs. (2019) ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS 0003-9527  
Journal Article/Article (Journal Article)/Scientific  
[30783629] [Validated]  
*Független, Idéző: [30783629](#), Kapcsolat: [28280785](#)*
11. Lyu Dandan et al. A multiscale dislocation pattern dynamics: Towards an atomistic-informed crystal plasticity theory. (2019) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 122 613-632  
Journal Article/Article (Journal Article)/Scientific  
[30539561] [Validated]  
*Független, Idéző: [30539561](#), Kapcsolat: [28280786](#)*
12. Xu S. et al. Generalized continua concepts in coarse-graining atomistic simulations. (2018) In: Advanced Structured Materials pp. 237-260  
Chapter in Book/Chapter (Chapter in Book)/Scientific  
[30783632] [Approved]  
*Független, Idéző: [30783632](#), Kapcsolat: [28280788](#)*
13. Zhang P. et al. Taming intermittent plasticity at small scales. (2017) ACTA MATERIALIA 1359-6454 1873-2453 128 351-364  
Journal Article/Article (Journal Article)/Scientific  
[30783634] [Approved]  
*Független, Idéző: [30783634](#), Kapcsolat: [28280790](#)*
14. Aifantis E.C.. Towards internal length gradient chemomechanics. (2017) REVIEWS ON ADVANCED MATERIALS SCIENCE 1606-5131 1605-8127 48 2 112-130  
Journal Article/Article (Journal Article)/Scientific  
[30783635] [Approved]  
*Független, Idéző: [30783635](#), Kapcsolat: [28280791](#)*
15. Aifantis E.C.. Internal length gradient (ILG) material mechanics across scales and

disciplines. (2016) In: Advances in Applied Mechanics pp. 1-110  
Chapter in Book/Chapter (Chapter in Book)/Scientific  
[30783637] [Approved]  
*Független, Idéző: [30783637](#), Kapcsolat: [28280793](#)*

16. Cui Yinan et al. Influence of Size on the Fractal Dimension of Dislocation Microstructure. (2019) METALS 2075-4701 9 4  
Journal Article/Article (Journal Article)/Scientific  
[30783643] [Approved]  
*Független, Idéző: [30783643](#), Kapcsolat: [28280804](#)*
17. Hochrainer Thomas et al. Is crystal plasticity non-conservative? Lessons from large deformation continuum dislocation theory. (2020) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 141  
Journal Article/Article (Journal Article)/Scientific  
[31407062] [Validated]  
*Független, Idéző: [31407062](#), Kapcsolat: [29109058](#)*
18. Hudson Thomas et al. Atomistic origins of continuum dislocation dynamics. (2020) MATHEMATICAL MODELS & METHODS IN APPLIED SCIENCES 0218-2025 30 13 2557-2618  
Journal Article/Article (Journal Article)/Scientific  
[31865214] [Approved]  
*Független, Idéző: [31865214](#), Kapcsolat: [29840057](#)*
19. Ranjan Devraj et al. Crystal plasticity modeling of non-Schmid yield behavior: from Ni3Al single crystals to Ni-based superalloys. (2021) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 29 5  
Journal Article/Article (Journal Article)/Scientific  
[32236863] [Approved]  
*Független, Idéző: [32236863](#), Kapcsolat: [30419487](#)*
20. Xie Yuxi et al. Finite temperature atomistic-informed crystal plasticity finite element modeling of single crystal tantalum (alpha-Ta) at micron scale. (2021) INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING 0029-5981 1097-0207 122 17 4660-4697  
Journal Article/Article (Journal Article)/Scientific  
[32236864] [Approved]  
*Független, Idéző: [32236864](#), Kapcsolat: [30419488](#)*
21. Vivekanandan Vignesh et al. On the implementation of dislocation reactions in continuum dislocation dynamics modeling of mesoscale plasticity. (2021) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 149 p. 104327  
Journal Article/Article (Journal Article)/Scientific  
[31865621] [Approved]  
*Független, Idéző: [31865621](#), Kapcsolat: [30419490](#)*

22. Song Hengxu et al. Data-mining of dislocation microstructures: concepts for coarse-graining of internal energies. (2021) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 29 3  
Journal Article/Article (Journal Article)/Scientific  
[32236703] [Approved]  
*Független, Idéző: [32236703](#), Kapcsolat: [30419491](#)*

**Groma I et al. Scale-free phase field theory of dislocations. (2015) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 114 1, [2825332](#)**  
Journal Article/Article (Journal Article)/Scientific  
[2825332]

1. Kooiman M et al. Microscopically derived free energy of dislocations. (2015) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 78 186-209  
Journal Article/Scientific  
[25249836] [Approved]  
*Független, Idéző: [25249836](#), Kapcsolat: [24603775](#)*
2. Zaiser M. Local density approximation for the energy functional of three-dimensional dislocation systems. (2015) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 92 17  
Journal Article/Article (Journal Article)/Scientific  
[25347608] [Approved]  
*Független, Idéző: [25347608](#), Kapcsolat: [25249900](#)*
3. Hochrainer Thomas. Thermodynamically consistent continuum dislocation dynamics. (2015) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 88 12-22  
Journal Article/Article (Journal Article)/Scientific  
[25250375] [Approved]  
*Független, Idéző: [25250375](#), Kapcsolat: [25250375](#)*
4. Weygand Daniel et al. Multiscale Simulation of Plasticity in bcc Metals. (2015) ANNUAL REVIEW OF MATERIALS RESEARCH 1531-7331 1545-4118 45 369-390  
Journal Article/Article (Journal Article)/Scientific  
[25250345] [Admin approved]  
*Független, Idéző: [25250345](#), Kapcsolat: [25250376](#)*
5. Schulz K et al. Dislocation-density based description of the deformation of a composite material. (2017) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 25 6  
Journal Article/Article (Journal Article)/Scientific  
[26914976] [Approved]  
*Független, Idéző: [26914976](#), Kapcsolat: [26914976](#)*
6. Silbermann C B et al. Geometrically linear continuum theory of dislocations revisited

from a thermodynamical perspective. (2018) ARCHIVE OF APPLIED MECHANICS  
0939-1533 88 1-2 141-173

Journal Article/Article (Journal Article)/Scientific  
[27110202] [Approved]

*Független, Idéző: [27110202](#), Kapcsolat: [27309150](#)*

7. Skaugen A et al. Separation of Elastic and Plastic Timescales in a Phase Field Crystal Model. (2018) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 121 25

Journal Article/Article (Journal Article)/Scientific  
[31238602] [Validated]

*Független, Idéző: [31238602](#), Kapcsolat: [28016260](#)*

8. Garroni A. et al. Convergence and Non-convergence of Many-Particle Evolutions with Multiple Signs. (2019) ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS 0003-9527

Journal Article/Article (Journal Article)/Scientific  
[30783629] [Validated]

*Független, Idéző: [30783629](#), Kapcsolat: [28280815](#)*

9. McDowell D.L.. Multiscale modeling of interfaces, dislocations, and dislocation field plasticity. (2019) In: Courses and Lectures pp. 195-297

Chapter in Book/Chapter (Chapter in Book)/Scientific  
[30783650] [Approved]

*Független, Idéző: [30783650](#), Kapcsolat: [28280816](#)*

10. Schulz K. et al. Discrete-continuum transition: A discussion of the continuum limit. (2018) TECHNISCHE MECHANIK (MAGDEBURG) 0232-3869 38 1 126-134

Journal Article/Article (Journal Article)/Scientific  
[30783652] [Approved]

*Független, Idéző: [30783652](#), Kapcsolat: [28280817](#)*

11. D'Yachenko O.I. et al. Response of critical temperature of the superconducting transition and energy gaps of MgB<sub>2</sub> to the hydrostatic compression. (2017) METALLOFIZIKA I NOVEISHIE TEKHNologii 1024-1809 39 6 719-731

Journal Article/Article (Journal Article)/Scientific  
[30783653] [Approved]

*Független, Idéző: [30783653](#), Kapcsolat: [28280818](#)*

12. Weygand D. et al. Multiscale Simulation of Plasticity in bcc Metals. (2015) In: Annual Review of Materials Research pp. 369-390

Chapter in Book/Chapter (Chapter in Book)/Scientific  
[30783654] [Approved]

*Független, Idéző: [30783654](#), Kapcsolat: [28280820](#)*

**Szabó P et al. Plastic strain is a mixture of avalanches and quasireversible deformations: Study of various sizes. (2015) PHYSICAL REVIEW B 2469-9950**

**2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 91 5, [2853608](#)**

Journal Article/Article (Journal Article)/Scientific  
[2853608]

1. Derlet PM et al. Universal power-law strengthening in metals?. (2015) SCRIPTA MATERIALIA 1359-6462 109 19-22  
Journal Article/Scientific  
[25249858] [Approved]  
*Független, Idéző: [25249858](#), Kapcsolat: [25001087](#)*
2. Derlet P M et al. Critical stress statistics and a fold catastrophe in intermittent crystal plasticity. (2016) PHYSICAL REVIEW E: COVERING STATISTICAL NONLINEAR BIOLOGICAL AND SOFT MATTER PHYSICS (2016-) 2470-0045 2470-0053 94 3  
Journal Article/Article (Journal Article)/Scientific  
[26215106] [Approved]  
*Független, Idéző: [26215106](#), Kapcsolat: [26215106](#)*
3. Berdichevsky V. L.. Beyond classical thermodynamics: Dislocation-mediated plasticity. (2019) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 129 83-118  
Journal Article/Article (Journal Article)/Scientific  
[30783681] [Validated]  
*Független, Idéző: [30783681](#), Kapcsolat: [28280849](#)*
4. Salmenjoki Henri et al. Plastic yielding and deformation bursts in the presence of disorder from coherent precipitates. (2020) PHYSICAL REVIEW MATERIALS 2475-9953 4 8  
Journal Article/Article (Journal Article)/Scientific  
[31739481] [Validated]  
*Független, Idéző: [31739481](#), Kapcsolat: [29655294](#)*
5. Kurunczi-Papp David et al. Dislocation avalanches from strain-controlled loading: A discrete dislocation dynamics study. (2021) PHYSICAL REVIEW E: COVERING STATISTICAL NONLINEAR BIOLOGICAL AND SOFT MATTER PHYSICS (2016-) 2470-0045 2470-0053 104 2  
Journal Article/Article (Journal Article)/Scientific  
[32236841] [Approved]  
*Független, Idéző: [32236841](#), Kapcsolat: [30419470](#)*
6. Salmenjoki Henri et al. Avalanche correlations and stress-strain curves in discrete dislocation plasticity. (2021) PHYSICAL REVIEW MATERIALS 2475-9953 5 7  
Journal Article/Article (Journal Article)/Scientific  
[32236829] [Approved]  
*Független, Idéző: [32236829](#), Kapcsolat: [30419471](#)*

**Ispánovity PD et al. Avalanches in 2D dislocation systems: Plastic yielding is not depinning. (2014) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 112 23, [2702839](#)**

1. Sharma Auditya et al. Avalanches and hysteresis in frustrated superconductors and XY spin glasses. (2014) PHYSICAL REVIEW E - STATISTICAL, NONLINEAR AND SOFT MATTER PHYSICS (2001-2015) 1539-3755 1550-2376 2470-0053 2470-0045 90 4  
Journal Article  
[24363846] [Admin approved]  
*Független, Idéző: [24363846](#), Kapcsolat: [24363846](#)*
2. Tarp JM et al. Intermittent dislocation density fluctuations in crystal plasticity from a phase-field crystal model. (2014) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 113 26  
Journal Article/Article (Journal Article)/Scientific  
[24446597] [Validated]  
*Független, Idéző: [24446597](#), Kapcsolat: [24486367](#)*
3. Maaß R et al. Crystal size effect in two dimensions–Influence of size and shape. (2015) SCRIPTA MATERIALIA 1359-6462 102 27-30  
Journal Article/Article (Journal Article)/Scientific  
[24603761] [Admin approved]  
*Független, Idéző: [24603761](#), Kapcsolat: [24603761](#)*
4. Niiyama Tomoaki et al. Atomistic mechanisms of intermittent plasticity in metals: Dislocation avalanches and defect cluster pinning. (2015) PHYSICAL REVIEW E - STATISTICAL, NONLINEAR AND SOFT MATTER PHYSICS (2001-2015) 1539-3755 1550-2376 2470-0053 2470-0045 91 2 p. 022401  
Journal Article/Article (Journal Article)/Scientific  
[24603764] [Approved]  
*Független, Idéző: [24603764](#), Kapcsolat: [24603764](#)*
5. Spasojević Djordje et al. Analysis of spanning avalanches in the two-dimensional nonequilibrium zero-temperature random-field Ising model. (2014) PHYSICAL REVIEW E - STATISTICAL, NONLINEAR AND SOFT MATTER PHYSICS (2001-2015) 1539-3755 1550-2376 2470-0053 2470-0045 89 1 p. 012118  
Journal Article/Article (Journal Article)/Scientific  
[24603767] [Admin approved]  
*Független, Idéző: [24603767](#), Kapcsolat: [24603767](#)*
6. Weiss J et al. From Mild to Wild Fluctuations in Crystal Plasticity. (2015) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 114 10 p. 105504  
Journal Article/Article (Journal Article)/Scientific  
[24603768] [Approved]  
*Független, Idéző: [24603768](#), Kapcsolat: [24603768](#)*
7. Zhao Xinyu et al. In situ measurements of a homogeneous to heterogeneous transition



in the plastic response of ion-irradiated  $\langle 111 \rangle$  Ni microspecimens. (2015) ACTA MATERIALIA 1359-6454 1873-2453 88 121-135  
Journal Article/Article (Journal Article)/Scientific  
[24858592] [Admin approved]  
*Független, Idéző: [24858592](#), Kapcsolat: [24603769](#)*

8. Mueller Markus et al. Marginal Stability in Structural, Spin, and Electron Glasses. (2015) ANNUAL REVIEW OF CONDENSED MATTER PHYSICS 1947-5454 1947-5462 6 177-200  
Journal Article/Scientific  
[24842388] [Approved]  
*Független, Idéző: [24842388](#), Kapcsolat: [24605156](#)*

9. Derlet PM et al. Universal power-law strengthening in metals?. (2015) SCRIPTA MATERIALIA 1359-6462 109 19-22  
Journal Article/Scientific  
[25249858] [Approved]  
*Független, Idéző: [25249858](#), Kapcsolat: [25249841](#)*

10. Keralavarma SM et al. High-temperature discrete dislocation plasticity. (2015) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 82 1-22  
Journal Article/Article (Journal Article)/Scientific  
[25249843] [Admin approved]  
*Független, Idéző: [25249843](#), Kapcsolat: [25249843](#)*

11. Lin Jie et al. Criticality in the Approach to Failure in Amorphous Solids. (2015) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 115 16  
Journal Article/Article (Journal Article)/Scientific  
[25370937] [Admin approved]  
*Független, Idéző: [25370937](#), Kapcsolat: [25249845](#)*

12. Jagla EA. Avalanche-size distributions in mean-field plastic yielding models. (2015) PHYSICAL REVIEW E - STATISTICAL, NONLINEAR AND SOFT MATTER PHYSICS (2001-2015) 1539-3755 1550-2376 2470-0053 2470-0045 92 4  
Journal Article/Article (Journal Article)/Scientific  
[25249846] [Admin approved]  
*Független, Idéző: [25249846](#), Kapcsolat: [25249846](#)*

13. Yan Le et al. Dynamics and Correlations among Soft Excitations in Marginally Stable Glasses. (2015) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 114 24  
Journal Article/Article (Journal Article)/Scientific  
[25760448] [Approved]  
*Független, Idéző: [25760448](#), Kapcsolat: [25249975](#)*

14. Biscari Paolo et al. Intermittency in Crystal Plasticity Informed by Lattice Symmetry. (2016) JOURNAL OF ELASTICITY 0374-3535 123 1 85-96

Journal Article/Article (Journal Article)/Scientific  
[25786791] [Admin approved]  
*Független, Idéző: [25786791](#), Kapcsolat: [25444813](#)*

15. Chen S H et al. Loading-rate-independent delay of catastrophic avalanches in a bulk metallic glass. (2016) SCIENTIFIC REPORTS 2045-2322 6  
Journal Article/Article (Journal Article)/Scientific  
[25790523] [Admin approved]  
*Független, Idéző: [25790523](#), Kapcsolat: [25790523](#)*
16. Thierry Thimothee et al. Universality in the mean spatial shape of avalanches. (2016) EUROPHYSICS LETTERS 0295-5075 1286-4854 114 3  
Journal Article/Article (Journal Article)/Scientific  
[25986145] [Admin approved]  
*Független, Idéző: [25986145](#), Kapcsolat: [25986145](#)*
17. Valdenaire Pierre-Louis et al. Density-based crystal plasticity: From the discrete to the continuum. (2016) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 93 21  
Journal Article/Article (Journal Article)/Scientific  
[26185684] [Approved]  
*Független, Idéző: [26185684](#), Kapcsolat: [25986146](#)*
18. Zhang Xu et al. Strain Avalanches in Microsized Single Crystals: Avalanche Size Predicted by a Continuum Crystal Plasticity Model. (2016) CHINESE PHYSICS LETTERS 0256-307X 1741-3540 33 10  
Journal Article/Article (Journal Article)/Scientific  
[26360823] [Approved]  
*Független, Idéző: [26360823](#), Kapcsolat: [26215892](#)*
19. Zhang Xu et al. Strain Avalanches in Microsized Single Crystals: A Theoretical Study of the Relation between the Avalanche Size and Duration. (2016) CHINESE PHYSICS LETTERS 0256-307X 1741-3540 33 7  
Journal Article/Article (Journal Article)/Scientific  
[26217527] [Admin approved]  
*Független, Idéző: [26217527](#), Kapcsolat: [26215893](#)*
20. Sparks G et al. Spatiotemporal slip dynamics during deformation of gold micro-crystals. (2017) ACTA MATERIALIA 1359-6454 1873-2453 122 109-119  
Journal Article/Article (Journal Article)/Scientific  
[26388143] [Admin approved]  
*Független, Idéző: [26388143](#), Kapcsolat: [26384193](#)*
21. Alabd Alhafez I et al. Influence of Tip Geometry on Nanoscratching. (2017) TRIBOLOGY LETTERS 1023-8883 65 1

Journal Article/Scientific

[26384194] [Admin approved]

*Független, Idéző: [26384194](#), Kapcsolat: [26384194](#)*

22. Dutta Amlan. Compressive deformation of Fe nanopillar at high strain rate: Modalities of dislocation dynamics. (2017) ACTA MATERIALIA 1359-6454 1873-2453 125 219-230

Journal Article/Article (Journal Article)/Scientific

[26563465] [Admin approved]

*Független, Idéző: [26563465](#), Kapcsolat: [26384195](#)*

23. Niiyama T et al. Effect of loading condition on statistics of intermittent plasticity in metallic crystals. (2016) ZAIRYO 0514-5163 65 2 119-126

Journal Article/Article (Journal Article)/Scientific

[26384196] [Admin approved]

*Független, Idéző: [26384196](#), Kapcsolat: [26384196](#)*

24. Derlet P M et al. The stress statistics of the first pop-in or discrete plastic event in crystal plasticity. (2016) JOURNAL OF APPLIED PHYSICS 0021-8979 1089-7550 120 22

Journal Article/Article (Journal Article)/Scientific

[26388146] [Admin approved]

*Független, Idéző: [26388146](#), Kapcsolat: [26386882](#)*

25. Zhang Dansong et al. Scaling of slip avalanches in sheared amorphous materials based on large-scale atomistic simulations. (2017) PHYSICAL REVIEW E: COVERING STATISTICAL NONLINEAR BIOLOGICAL AND SOFT MATTER PHYSICS (2016-) 2470-0045 2470-0053 95 3

Journal Article/Article (Journal Article)/Scientific

[26563460] [Admin approved]

*Független, Idéző: [26563460](#), Kapcsolat: [26562475](#)*

26. Gueudre Thomas et al. Scaling description of non-local rheology. (2017) SOFT MATTER 1744-683X 1744-6848 13 20 3794-3801

Journal Article/Article (Journal Article)/Scientific

[26746377] [Approved]

*Független, Idéző: [26746377](#), Kapcsolat: [26746377](#)*

27. Janicevic Sanja et al. Critical behavior of the two-dimensional nonequilibrium zero-temperature random field Ising model on a triangular lattice. (2017) PHYSICAL REVIEW E: COVERING STATISTICAL NONLINEAR BIOLOGICAL AND SOFT MATTER PHYSICS (2016-) 2470-0045 2470-0053 95 4

Journal Article/Article (Journal Article)/Scientific

[26746378] [Approved]

*Független, Idéző: [26746378](#), Kapcsolat: [26746378](#)*

28. Ni Xiaoyue et al. Probing Microplasticity in Small-Scale FCC Crystals via Dynamic Mechanical Analysis. (2017) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 118 15 p.

155501

Journal Article/Article (Journal Article)/Scientific  
[26630761] [Approved]

*Független, Idéző: [26630761](#), Kapcsolat: [26746379](#)*

29. Bares Jonathan et al. Local and global avalanches in a two-dimensional sheared granular medium. (2017) PHYSICAL REVIEW E: COVERING STATISTICAL NONLINEAR BIOLOGICAL AND SOFT MATTER PHYSICS (2016-) 2470-0045 2470-0053 96 5

Journal Article/Article (Journal Article)/Scientific  
[27079128] [Admin approved]

*Független, Idéző: [27079128](#), Kapcsolat: [27079128](#)*

30. Lea L J et al. Characterisation of high rate plasticity in the uniaxial deformation of high purity copper at elevated temperatures. (2018) INTERNATIONAL JOURNAL OF PLASTICITY 0749-6419 102 41-52

Journal Article/Article (Journal Article)/Scientific  
[27311437] [Validated]

*Független, Idéző: [27311437](#), Kapcsolat: [27311437](#)*

31. Skaugen Audun et al. Dislocation dynamics and crystal plasticity in the phase-field crystal model. (2018) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 97 5

Journal Article/Article (Journal Article)/Scientific  
[27311438] [Validated]

*Független, Idéző: [27311438](#), Kapcsolat: [27311438](#)*

32. Maass R et al. Micro-plasticity and recent insights from intermittent and small-scale plasticity. (2018) ACTA MATERIALIA 1359-6454 1873-2453 143 338-363

Journal Article/Article (Journal Article)/Scientific  
[27312686] [Validated]

*Független, Idéző: [27312686](#), Kapcsolat: [27311440](#)*

33. Papanikolaou Stefanos et al. Avalanches and plastic flow in crystal plasticity: an overview. (2018) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 26 1

Journal Article/Survey paper (Journal Article)/Scientific  
[27312687] [Validated]

*Független, Idéző: [27312687](#), Kapcsolat: [27311441](#)*

34. Sparks G et al. Shapes and velocity relaxation of dislocation avalanches in Au and Nb microcrystals. (2018) ACTA MATERIALIA 1359-6454 1873-2453 152 86-95

Journal Article/Article (Journal Article)/Scientific  
[27564410] [Validated]

*Független, Idéző: [27564410](#), Kapcsolat: [27562917](#)*

35. Papanikolaou Stefanos. Learning local, quenched disorder in plasticity and other crackling noise phenomena. (2018) NPJ COMPUTATIONAL MATERIALS 2057-3960 4  
Journal Article/Article (Journal Article)/Scientific  
[27564411] [Validated]  
*Független, Idéző: [27564411](#), Kapcsolat: [27562918](#)*
36. Sparks Gregory et al. Effects of orientation and pre-deformation on velocity profiles of dislocation avalanches in gold microcrystals. (2019) EUROPEAN PHYSICAL JOURNAL B 1434-6028 1434-6036 92 1  
Journal Article/Article (Journal Article)/Scientific  
[30551719] [Validated]  
*Független, Idéző: [30551719](#), Kapcsolat: [28013390](#)*
37. Nicolas Alexandre et al. Deformation and flow of amorphous solids: Insights from elastoplastic models. (2018) REVIEWS OF MODERN PHYSICS 0034-6861 90 4  
Journal Article/Article (Journal Article)/Scientific  
[30554627] [Validated]  
*Független, Idéző: [30554627](#), Kapcsolat: [28013392](#)*
38. Skaugen A et al. Separation of Elastic and Plastic Timescales in a Phase Field Crystal Model. (2018) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 121 25  
Journal Article/Article (Journal Article)/Scientific  
[31238602] [Validated]  
*Független, Idéző: [31238602](#), Kapcsolat: [28013393](#)*
39. Sparks G. et al. Nontrivial scaling exponents of dislocation avalanches in microplasticity. (2018) PHYSICAL REVIEW MATERIALS 2475-9953 2 12  
Journal Article/Article (Journal Article)/Scientific  
[30533447] [Validated]  
*Független, Idéző: [30533447](#), Kapcsolat: [28013395](#)*
40. Su F. et al. Acoustic Emission Responses of Three Typical Metals During Plastic and Creep Deformations. (2018) EXPERIMENTAL TECHNIQUES 0732-8818 42 6 685-691  
Journal Article/Article (Journal Article)/Scientific  
[30551732] [Validated]  
*Független, Idéző: [30551732](#), Kapcsolat: [28013398](#)*
41. Danku Zsuzsa et al. Avalanche dynamics in higher-dimensional fiber bundle models. (2018) PHYSICAL REVIEW E: COVERING STATISTICAL NONLINEAR BIOLOGICAL AND SOFT MATTER PHYSICS (2016-) 2470-0045 2470-0053 98 4  
Journal Article/Article (Journal Article)/Scientific  
[30308942] [Validated]  
*Független, Idéző: [30308942](#), Kapcsolat: [28013399](#)*
42. Berdichevsky V. L.. Beyond classical thermodynamics: Dislocation-mediated plasticity.

(2019) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 129 83-118  
Journal Article/Article (Journal Article)/Scientific  
[30783681] [Validated]

*Független, Idéző: [30783681](#), Kapcsolat: [28280854](#)*

43. Karimi Kamran et al. From plastic flow to brittle fracture: Role of microscopic friction in amorphous solids. (2019) PHYSICAL REVIEW E: COVERING STATISTICAL NONLINEAR BIOLOGICAL AND SOFT MATTER PHYSICS (2016-) 2470-0045 2470-0053 100 1  
Journal Article/Article (Journal Article)/Scientific  
[30783685] [Validated]

*Független, Idéző: [30783685](#), Kapcsolat: [28280855](#)*

44. Ni Xiaoyue et al. Yield Precursor Dislocation Avalanches in Small Crystals: The Irreversibility Transition. (2019) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 123 3  
Journal Article/Article (Journal Article)/Scientific  
[30783686] [Validated]

*Független, Idéző: [30783686](#), Kapcsolat: [28280856](#)*

45. Weiss Jerome. Ice: the paradigm of wild plasticity. (2019) PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A - MATHEMATICAL PHYSICAL & ENGINEERING SCIENCES 1364-503X 1471-2962 377 2146  
Journal Article/Article (Journal Article)/Scientific  
[30783687] [Validated]

*Független, Idéző: [30783687](#), Kapcsolat: [28280857](#)*

46. Zadeh Aghil Abed et al. Seismicity in sheared granular matter. (2019) PHYSICAL REVIEW E: COVERING STATISTICAL NONLINEAR BIOLOGICAL AND SOFT MATTER PHYSICS (2016-) 2470-0045 2470-0053 99 5  
Journal Article/Article (Journal Article)/Scientific  
[30783688] [Validated]

*Független, Idéző: [30783688](#), Kapcsolat: [28280858](#)*

47. Song Hengxu et al. Universality Class of Nanocrystal Plasticity: Localization and Self-Organization in Discrete Dislocation Dynamics. (2019) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 122 17  
Journal Article/Article (Journal Article)/Scientific  
[30783689] [Validated]

*Független, Idéző: [30783689](#), Kapcsolat: [28280859](#)*

48. Song H. et al. From statistical correlations to stochasticity and size effects in sub-micron crystal plasticity. (2019) METALS 2075-4701 9 8  
Journal Article/Article (Journal Article)/Scientific  
[30783701] [Validated]

*Független, Idéző: [30783701](#), Kapcsolat: [28280875](#)*

49. McDowell D.L.. Multiscale modeling of interfaces, dislocations, and dislocation field plasticity. (2019) In: Courses and Lectures pp. 195-297  
Chapter in Book/Chapter (Chapter in Book)/Scientific  
[30783650] [Approved]  
*Független, Idéző: [30783650](#), Kapcsolat: [28280877](#)*
50. Fressengeas C.. Mechanics of dislocation fields. (2017) ISBN:9781848213753;  
9781118578285  
Book/Monograph (Book)/Scientific  
[30783707] [Approved]  
*Független, Idéző: [30783707](#), Kapcsolat: [28280881](#)*
51. Kustov S. et al. Twinning in Ni-Fe-Ga-Co shape memory alloy: Temperature scaling beyond the Seeger model. (2017) SCRIPTA MATERIALIA 1359-6462 134 24-27  
Journal Article/Article (Journal Article)/Scientific  
[30783708] [Approved]  
*Független, Idéző: [30783708](#), Kapcsolat: [28280882](#)*
52. Zhang P. et al. Taming intermittent plasticity at small scales. (2017) ACTA MATERIALIA 1359-6454 1873-2453 128 351-364  
Journal Article/Article (Journal Article)/Scientific  
[30783634] [Approved]  
*Független, Idéző: [30783634](#), Kapcsolat: [28280884](#)*
53. Sun J.-C. et al. Precipitation strengthening of nickel based alloy by 2D discrete dislocation dynamics. (2016) Suxing Gongcheng Xuebao/Journal of Plasticity Engineering 1007-2012 23 6 194-200  
Journal Article/Article (Journal Article)/Scientific  
[30783709] [Approved]  
*Független, Idéző: [30783709](#), Kapcsolat: [28280885](#)*
54. McFaul L.W. et al. Force oscillations distort avalanche shapes. (2019) MATERIALS RESEARCH LETTERS 2166-3831 7 12 496-502  
Journal Article/Article (Journal Article)/Scientific  
[30823169] [Validated]  
*Független, Idéző: [30823169](#), Kapcsolat: [28327718](#)*
55. Baggio R. et al. Landau-Type Theory of Planar Crystal Plasticity. (2019) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 123 20  
Journal Article/Article (Journal Article)/Scientific  
[31065635] [Validated]  
*Független, Idéző: [31065635](#), Kapcsolat: [28699399](#)*
56. Niiyama Tomoaki et al. Structural relaxation affecting shear-transformation avalanches in metallic glasses. (2019) PHYSICAL REVIEW E: COVERING STATISTICAL NONLINEAR

BIOLOGICAL AND SOFT MATTER PHYSICS (2016-) 2470-0045 2470-0053 100 4  
Journal Article/Article (Journal Article)/Scientific  
[31065637] [Validated]

*Független, Idéző: [31065637](#), Kapcsolat: [28699401](#)*

57. Long Alan A. et al. From critical behavior to catastrophic runaways: comparing sheared granular materials with bulk metallic glasses. (2019) GRANULAR MATTER 1434-5021 1434-7636 21 4

Journal Article/Article (Journal Article)/Scientific  
[31099087] [Validated]

*Független, Idéző: [31099087](#), Kapcsolat: [28699403](#)*

58. McFaul Louis W. et al. Applied-force oscillations in avalanche dynamics. (2020) PHYSICAL REVIEW E: COVERING STATISTICAL NONLINEAR BIOLOGICAL AND SOFT MATTER PHYSICS (2016-) 2470-0045 2470-0053 101 5

Journal Article/Article (Journal Article)/Scientific  
[31343175] [Validated]

*Független, Idéző: [31343175](#), Kapcsolat: [29031925](#)*

59. Zhang Peng et al. Plate-like precipitate effects on plasticity of Al-Cu alloys at micrometer to sub-micrometer scales. (2020) MATERIALS AND DESIGN 0264-1275 1873-4197 0261-3069 188

Journal Article/Article (Journal Article)/Scientific  
[31343176] [Validated]

*Független, Idéző: [31343176](#), Kapcsolat: [29031928](#)*

60. Alcala Jorge et al. Statistics of dislocation avalanches in FCC and BCC metals: dislocation mechanisms and mean swept distances across microsample sizes and temperatures. (2020) SCIENTIFIC REPORTS 2045-2322 10 1

Journal Article/Article (Journal Article)/Scientific  
[31741362] [Validated]

*Független, Idéző: [31741362](#), Kapcsolat: [29653829](#)*

61. Chi-Cong Vu et al. Asymmetric Damage Avalanche Shape in Quasibrittle Materials and Subavalanche (Aftershock) Clusters. (2020) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 125 10

Journal Article/Article (Journal Article)/Scientific  
[31742349] [Validated]

*Független, Idéző: [31742349](#), Kapcsolat: [29653831](#)*

62. Zhang P. et al. Variety of scaling behaviors in nanocrystalline plasticity. (2020) PHYSICAL REVIEW E - STATISTICAL, NONLINEAR AND SOFT MATTER PHYSICS (2001-2015) 1539-3755 1550-2376 2470-0053 2470-0045 102 2

Journal Article/Article (Journal Article)/Scientific  
[31694577] [Validated]



*Független, Idéző: [31694577](#), Kapcsolat: [29653834](#)*

63. Saitoh Kuniyasu. The role of friction in statistics and scaling laws of avalanches. (2021) EUROPEAN PHYSICAL JOURNAL E 1292-8941 1292-895X 44 6  
Journal Article/Article (Journal Article)/Scientific  
[32236843] [Approved]  
*Független, Idéző: [32236843](#), Kapcsolat: [30419445](#)*
64. Salman Oguz Umut et al. Tempering the mechanical response of FCC micro-pillars: An Eulerian plasticity approach. (2021) MECHANICS RESEARCH COMMUNICATIONS 0093-6413 114  
Journal Article/Article (Journal Article)/Scientific  
[32236844] [Approved]  
*Független, Idéző: [32236844](#), Kapcsolat: [30419447](#)*
65. Zanjani Sedigheh Mohamadnejad et al. Multicrystalline Materials Analysis Based on Their Microstructure with Emphasis on Predicting Forming Limit Diagrams. (2021) Iranian Journal of Materials Science and Engineering 1735-0808 18 2  
Journal Article/Survey paper (Journal Article)/Scientific  
[32236846] [Approved]  
*Független, Idéző: [32236846](#), Kapcsolat: [30419448](#)*
66. Ohmura Takahito et al. Pop-In Phenomenon as a Fundamental Plasticity Probed by Nanoindentation Technique. (2021) MATERIALS 1996-1944 14 8  
Journal Article/Survey paper (Journal Article)/Scientific  
[32236847] [Approved]  
*Független, Idéző: [32236847](#), Kapcsolat: [30419450](#)*
67. Cui Yinan et al. Plasticity of irradiated materials at the nano and micro-scales. (2021) JOURNAL OF NUCLEAR MATERIALS 0022-3115 546  
Journal Article/Article (Journal Article)/Scientific  
[32236848] [Approved]  
*Független, Idéző: [32236848](#), Kapcsolat: [30419451](#)*
68. Mukhina MV et al. Single-Particle Studies Reveal a Nanoscale Mechanism for Elastic, Bright, and Repeatable ZnS:Mn Mechanoluminescence in a Low-Pressure Regime. (2021) ACS NANO 1936-0851 1936-086X 15 3 4115-4133  
Journal Article/Article (Journal Article)/Scientific  
[32016163] [Approved]  
*Független, Idéző: [32016163](#), Kapcsolat: [30419452](#)*
69. Chen Yan et al. Fine structures of acoustic emission spectra: How to separate dislocation movements and entanglements in 316L stainless steel. (2020) APPLIED PHYSICS LETTERS 0003-6951 1077-3118 117 26  
Journal Article/Article (Journal Article)/Scientific

[32236849] [Approved]

*Független, Idéző: [32236849](#), Kapcsolat: [30419454](#)*

**Kovács Zsolt et al. Statistical analysis of acoustic emission events in torsional deformation of a Vitreloy bulk metallic glass. (2014) ACTA MATERIALIA 1359-6454 70 113-122, [2564249](#)**

Journal Article/Article (Journal Article)/Scientific  
[2564249]

1. Tóth LZ et al. Simultaneous investigation of thermal, acoustic, and magnetic emission during martensitic transformation in single-crystalline Ni<sub>2</sub>MnGa. (2016) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 93 14  
Journal Article/Article (Journal Article)/Scientific  
[3068180] [Admin approved]  
*Független, Idéző: [3068180](#), Kapcsolat: [25790423](#)*
2. Gao M et al. Macroscopic tensile plasticity of Zr-based bulk metallic glass with surface screw thread shaped structure. (2016) MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING 0921-5093 1873-4936 673 417-422  
Journal Article/Article (Journal Article)/Scientific  
[26215650] [Admin approved]  
*Független, Idéző: [26215650](#), Kapcsolat: [26215650](#)*
3. Ren Jingli et al. Transition of Temporal Scaling Behavior in Percolation Assisted Shear-branching Structure during Plastic Deformation. (2017) SCIENTIFIC REPORTS 2045-2322 7  
Journal Article/Article (Journal Article)/Scientific  
[26562255] [Approved]  
*Független, Idéző: [26562255](#), Kapcsolat: [26562255](#)*
4. Daróczy L et al. Magnetic field induced random pulse trains of magnetic and acoustic noises in martensitic single-crystal Ni<sub>2</sub>MnGa. (2017) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 96 1  
Journal Article/Article (Journal Article)/Scientific  
[3253472] [Admin approved]  
*Független, Idéző: [3253472](#), Kapcsolat: [26746171](#)*
5. McFaul Louis W et al. Aftershocks in slowly compressed bulk metallic glasses: Experiments and theory. (2018) PHYSICAL REVIEW E: COVERING STATISTICAL NONLINEAR BIOLOGICAL AND SOFT MATTER PHYSICS (2016-) 2470-0045 2470-0053 97 6  
Journal Article/Article (Journal Article)/Scientific  
[27562355] [Validated]  
*Független, Idéző: [27562355](#), Kapcsolat: [27562355](#)*
6. Vinogradov A. et al. Mechanical Twinning is a Correlated Dynamic Process. (2019)

SCIENTIFIC REPORTS 2045-2322 9  
Journal Article/Article (Journal Article)/Scientific  
[30695894] [Validated]

*Független, Idéző: [30695894](#), Kapcsolat: [28327705](#)*

7. Beke Dezso Laszlo et al. Acoustic Emissions during Structural Changes in Shape Memory Alloys. (2019) METALS 2075-4701 9 1

Journal Article/Survey paper (Journal Article)/Scientific  
[30564610] [Validated]

*Független, Idéző: [30564610](#), Kapcsolat: [28327708](#)*

**Groma I et al. Asymmetric X-ray line broadening caused by dislocation polarization induced by external load. (2013) SCRIPTA MATERIALIA 1359-6462 68 9 755-758, [2283816](#)**

Journal Article/Article (Journal Article)/Scientific  
[2283816]

1. Wauthier-Monnin A et al. The evolution with strain of the stored energy in different texture components of cold-rolled IF steel revealed by high resolution X-ray diffraction. (2015) MATERIALS CHARACTERIZATION 1044-5803 104 31-41

Journal Article/Article (Journal Article)/Scientific  
[25635333] [Approved]

*Független, Idéző: [25635333](#), Kapcsolat: [25249861](#)*

2. Zhang Yanzhi et al. Effect of grain size on phase stability of monoclinic U-Nb alloy during low-temperature aging. (2015) JOURNAL OF NUCLEAR MATERIALS 0022-3115 465 167-169

Journal Article/Article (Journal Article)/Scientific  
[25378637] [Admin approved]

*Független, Idéző: [25378637](#), Kapcsolat: [25249862](#)*

3. Gubicza J. X-ray line profile analysis in Materials Science. (2014) ISBN:9781466658523; 1466658525; 9781466658530

Book/Monograph (Book)/Scientific  
[2527524] [Admin approved]

*Független, Idéző: [2527524](#), Kapcsolat: [26081949](#)*

4. Song Yanqun et al. Selective Fenton-like catalytic oxidation of acid orange II on inorganic heterogeneous molecular imprinted catalysts. (2017) JOURNAL OF ADVANCED OXIDATION TECHNOLOGIES 1203-8407 20 1

Journal Article/Article (Journal Article)/Scientific  
[26562609] [Approved]

*Független, Idéző: [26562609](#), Kapcsolat: [26562609](#)*

5. Yadav SD et al. Characterizing dislocation configurations and their evolution during creep

of a new 12% Cr steel. (2017) MATERIALS CHARACTERIZATION 1044-5803 134 387-397  
Journal Article/Article (Journal Article)/Scientific  
[3327304] [Admin approved]  
*Független, Idéző: [3327304](#), Kapcsolat: [27311626](#)*

6. Salmenjoki Henri et al. Machine learning plastic deformation of crystals. (2018) NATURE COMMUNICATIONS 2041-1723 9  
Journal Article/Article (Journal Article)/Scientific  
[30533473] [Validated]  
*Független, Idéző: [30533473](#), Kapcsolat: [28008725](#)*

7. Berdichevsky V. L.. Beyond classical thermodynamics: Dislocation-mediated plasticity. (2019) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 129 83-118  
Journal Article/Article (Journal Article)/Scientific  
[30783681] [Validated]  
*Független, Idéző: [30783681](#), Kapcsolat: [28281027](#)*

8. XRD Peaks. Strain Broadening of X-Ray Diffraction Peaks. (2014) In: X-ray line profile analysis in Materials Science pp. 49-100  
Chapter in Book/Study (Chapter in Book)/Scientific  
[31864568] [Approved]  
*Független, Idéző: [31864568](#), Kapcsolat: [29838943](#)*

**Ispánovity PD et al. Average yielding and weakest link statistics in micron-scale plasticity. (2013) ACTA MATERIALIA 1359-6454 61 16 6234-6245, [2407565](#)**

Journal Article/Article (Journal Article)/Scientific  
[2407565]

1. Chinh NQ et al. Grain Boundary Phenomena in an Ultrafine-Grained Al-Zn Alloy with Improved Mechanical Behavior for Micro-Devices. (2014) ADVANCED ENGINEERING MATERIALS 1438-1656 1527-2648 16 8 1000-1009  
Journal Article/Article (Journal Article)/Scientific  
[2761408] [Admin approved]  
*Független, Idéző: [2761408](#), Kapcsolat: [24307795](#)*

2. Dickel D et al. Dipole formation and yielding in a two-dimensional continuum dislocation model. (2014) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 90 9  
Journal Article/Article (Journal Article)/Scientific  
[24364976] [Approved]  
*Független, Idéző: [24364976](#), Kapcsolat: [24307796](#)*

3. Tarp JM et al. Intermittent dislocation density fluctuations in crystal plasticity from a phase-field crystal model. (2014) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 113 26  
Journal Article/Article (Journal Article)/Scientific

[24446597] [Validated]

*Független, Idéző: [24446597](#), Kapcsolat: [24367036](#)*

4. Maass R et al. Crystal size effect in two dimensions - Influence of size and shape. (2015) SCRIPTA MATERIALIA 1359-6462 102 27-30  
Journal Article/Article (Journal Article)/Scientific  
[24855905] [Approved]  
*Független, Idéző: [24855905](#), Kapcsolat: [24855905](#)*
5. Derlet PM et al. Universal power-law strengthening in metals?. (2015) SCRIPTA MATERIALIA 1359-6462 109 19-22  
Journal Article/Scientific  
[25249858] [Approved]  
*Független, Idéző: [25249858](#), Kapcsolat: [25249858](#)*
6. Derlet P M et al. The stress statistics of the first pop-in or discrete plastic event in crystal plasticity. (2016) JOURNAL OF APPLIED PHYSICS 0021-8979 1089-7550 120 22  
Journal Article/Article (Journal Article)/Scientific  
[26388146] [Admin approved]  
*Független, Idéző: [26388146](#), Kapcsolat: [26387280](#)*
7. Lee Jung-A et al. Statistical analysis of the size- and rate-dependence of yield and plastic flow in nanocrystalline copper pillars. (2017) ACTA MATERIALIA 1359-6454 1873-2453 127 332-340  
Journal Article/Article (Journal Article)/Scientific  
[26562651] [Approved]  
*Független, Idéző: [26562651](#), Kapcsolat: [26562651](#)*
8. Papanikolaou S et al. Obstacles and sources in dislocation dynamics: Strengthening and statistics of abrupt plastic events in nanopillar compression. (2017) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 102 17-29  
Journal Article/Article (Journal Article)/Scientific  
[26747563] [Approved]  
*Független, Idéző: [26747563](#), Kapcsolat: [26746618](#)*
9. Davoudi Kamyar M et al. Dislocation evolution during plastic deformation: Equations vs. discrete dislocation dynamics study. (2018) JOURNAL OF APPLIED PHYSICS 0021-8979 1089-7550 123 8  
Journal Article/Article (Journal Article)/Scientific  
[27311786] [Validated]  
*Független, Idéző: [27311786](#), Kapcsolat: [27311786](#)*
10. Maass R et al. Micro-plasticity and recent insights from intermittent and small-scale plasticity. (2018) ACTA MATERIALIA 1359-6454 1873-2453 143 338-363  
Journal Article/Article (Journal Article)/Scientific

[27312686] [Validated]

*Független, Idéző: [27312686](#), Kapcsolat: [27311787](#)*

11. Papanikolaou Stefanos et al. Avalanches and plastic flow in crystal plasticity: an overview. (2018) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 26 1  
Journal Article/Survey paper (Journal Article)/Scientific  
[27312687] [Validated]  
*Független, Idéző: [27312687](#), Kapcsolat: [27311788](#)*
12. Papanikolaou Stefanos. Learning local, quenched disorder in plasticity and other crackling noise phenomena. (2018) NPJ COMPUTATIONAL MATERIALS 2057-3960 4  
Journal Article/Article (Journal Article)/Scientific  
[27564411] [Validated]  
*Független, Idéző: [27564411](#), Kapcsolat: [27563439](#)*
13. Cabriolu Raffaella et al. Precursors of fluidisation in the creep response of a soft glass. (2019) SOFT MATTER 1744-683X 1744-6848 15 3 415-423  
Journal Article/Article (Journal Article)/Scientific  
[30552818] [Validated]  
*Független, Idéző: [30552818](#), Kapcsolat: [28010588](#)*
14. Song Hengxu et al. Universality Class of Nanocrystal Plasticity: Localization and Self-Organization in Discrete Dislocation Dynamics. (2019) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 122 17  
Journal Article/Article (Journal Article)/Scientific  
[30783689] [Validated]  
*Független, Idéző: [30783689](#), Kapcsolat: [28281050](#)*
15. Chinh N.Q. et al. Characterizing Microstructural and Mechanical Properties of Al-Zn Alloys Processed by High-Pressure Torsion. (2019) ADVANCED ENGINEERING MATERIALS 1438-1656 1527-2648 22 1  
Journal Article/Survey paper (Journal Article)/Scientific  
[30783850] [Validated]  
*Független, Idéző: [30783850](#), Kapcsolat: [28281068](#)*
16. Shimanek John et al. Scale-dependent pop-ins in nanoindentation and scale-free plastic fluctuations in microcompression. (2020) JOURNAL OF MATERIALS RESEARCH 0884-2914 35 2 196-205  
Journal Article/Article (Journal Article)/Scientific  
[31343174] [Validated]  
*Független, Idéző: [31343174](#), Kapcsolat: [29031923](#)*
17. Alcalá Jorge et al. Statistics of dislocation avalanches in FCC and BCC metals: dislocation mechanisms and mean swept distances across microsample sizes and temperatures.

(2020) SCIENTIFIC REPORTS 2045-2322 10 1  
Journal Article/Article (Journal Article)/Scientific  
[31741362] [Validated]

*Független, Idéző: [31741362](#), Kapcsolat: [29652493](#)*

18. Olasz Dániel et al. Extended Applications of the Depth-Sensing Indentation Method.

(2020) MICROMACHINES 2072-666X 11 11  
Journal Article/Article (Journal Article)/Scientific  
[31677600] [Validated]

*Független, Idéző: [31677600](#), Kapcsolat: [29839276](#)*

19. Salmenjoki Henri et al. Avalanche correlations and stress-strain curves in discrete dislocation plasticity. (2021) PHYSICAL REVIEW MATERIALS 2475-9953 5 7

Journal Article/Article (Journal Article)/Scientific  
[32236829] [Approved]

*Független, Idéző: [32236829](#), Kapcsolat: [30419421](#)*

**Groma I et al. Comment on "Dislocations Jam at Any Density". (2012) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 108 26, [2071962](#)**

Journal Article/Article (Journal Article)/Scientific  
[2071962]

1. Tsekenis G et al. Tsekenis, Goldenfeld, and Dahmen Reply. (2012) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 108 26

Journal Article  
[22571435] [Admin approved]

*Független, Idéző: [22571435](#), Kapcsolat: [22571435](#)*

2. Zapperi S. Current challenges for statistical physics in fracture and plasticity. (2012) EUROPEAN PHYSICAL JOURNAL B 1434-6028 1434-6036 85 9

Journal Article  
[23529626] [Admin approved]

*Független, Idéző: [23529626](#), Kapcsolat: [23233491](#)*

3. LeSar R. Simulations of Dislocation Structure and Response. (2014) ANNUAL REVIEW OF CONDENSED MATTER PHYSICS 1947-5454 1947-5462 5 375-407

Journal Article/Survey paper (Journal Article)/Scientific  
[24590443] [Approved]

*Független, Idéző: [24590443](#), Kapcsolat: [24363825](#)*

4. Zhou Caizhi et al. Dynamic Phases, Pinning, and Pattern Formation for Driven Dislocation Assemblies. (2015) SCIENTIFIC REPORTS 2045-2322 5

Journal Article/Article (Journal Article)/Scientific  
[24858596] [Approved]

*Független, Idéző: [24858596](#), Kapcsolat: [24365572](#)*

5. Song Hengxu et al. Universality Class of Nanocrystal Plasticity: Localization and Self-Organization in Discrete Dislocation Dynamics. (2019) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 122 17  
Journal Article/Article (Journal Article)/Scientific  
[30783689] [Validated]  
*Független, Idéző: [30783689](#), Kapcsolat: [28281097](#)*

**Ispanovity PD et al. Criticality of Relaxation in Dislocation Systems. (2011) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 107 8, [1792906](#)**  
Journal Article/Article (Journal Article)/Scientific  
[1792906]

1. Angheluta L et al. Anisotropic velocity statistics of topological defects under shear flow. (2012) PHYSICAL REVIEW E - STATISTICAL, NONLINEAR AND SOFT MATTER PHYSICS (2001-2015) 1539-3755 1550-2376 2470-0053 2470-0045 85 1  
Journal Article  
[22235435] [Admin approved]  
*Független, Idéző: [22235435](#), Kapcsolat: [22235435](#)*

2. Zapperi S. Current challenges for statistical physics in fracture and plasticity. (2012) EUROPEAN PHYSICAL JOURNAL B 1434-6028 1434-6036 85 9  
Journal Article  
[23529626] [Admin approved]  
*Független, Idéző: [23529626](#), Kapcsolat: [23235491](#)*

3. Amir A et al. Dislocation-mediated growth of bacterial cell walls. (2012) PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 0027-8424 1091-6490 109 25 9833-9838  
Journal Article  
[23327329] [Admin approved]  
*Független, Idéző: [23327329](#), Kapcsolat: [23327329](#)*

4. Laurson L et al. Dynamic Hysteresis in Cyclic Deformation of Crystalline Solids. (2012) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 109 15  
Journal Article  
[23327330] [Admin approved]  
*Független, Idéző: [23327330](#), Kapcsolat: [23327330](#)*

5. Jafarpour F et al. Velocity statistics for interacting edge dislocations in one dimension from Dyson's Coulomb gas model. (2013) PHYSICAL REVIEW E - STATISTICAL, NONLINEAR AND SOFT MATTER PHYSICS (2001-2015) 1539-3755 1550-2376 2470-0053 2470-0045 88 4  
Journal Article  
[23529183] [Admin approved]  
*Független, Idéző: [23529183](#), Kapcsolat: [23518051](#)*



6. Zhou C et al. Random organization in periodically driven gliding dislocations. (2014) PHYSICS LETTERS A 0375-9601 378 22-23 1675-1678  
Journal Article/Article (Journal Article)/Scientific  
[24307803] [Approved]  
*Független, Idéző: [24307803](#), Kapcsolat: [24307803](#)*
7. Dickel D et al. Dipole formation and yielding in a two-dimensional continuum dislocation model. (2014) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 90 9  
Journal Article/Article (Journal Article)/Scientific  
[24364976] [Approved]  
*Független, Idéző: [24364976](#), Kapcsolat: [24307804](#)*
8. Alava Mikko J et al. Crackling noise in plasticity. (2014) EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS 1951-6355 1951-6401 223 11 2353-2367  
Journal Article/Survey paper (Journal Article)/Scientific  
[24858620] [Admin approved]  
*Független, Idéző: [24858620](#), Kapcsolat: [24363847](#)*
9. Zhou Caizhi et al. Dynamic Phases, Pinning, and Pattern Formation for Driven Dislocation Assemblies. (2015) SCIENTIFIC REPORTS 2045-2322 5  
Journal Article/Article (Journal Article)/Scientific  
[24858596] [Approved]  
*Független, Idéző: [24858596](#), Kapcsolat: [24603858](#)*
10. Ovaska Markus et al. Quenched pinning and collective dislocation dynamics. (2015) SCIENTIFIC REPORTS 2045-2322 5  
Journal Article/Article (Journal Article)/Scientific  
[25370934] [Admin approved]  
*Független, Idéző: [25370934](#), Kapcsolat: [25249852](#)*
11. Janičević S et al. Avalanches in 2D dislocation systems without applied stresses. (2015) JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT 1742-5468 1742-5468 2015 7 p. P07016  
Journal Article/Article (Journal Article)/Scientific  
[25260578] [Approved]  
*Független, Idéző: [25260578](#), Kapcsolat: [25249982](#)*
12. Zhang Xu et al. Strain Avalanches in Microsized Single Crystals: A Theoretical Study of the Relation between the Avalanche Size and Duration. (2016) CHINESE PHYSICS LETTERS 0256-307X 1741-3540 33 7  
Journal Article/Article (Journal Article)/Scientific  
[26217527] [Admin approved]  
*Független, Idéző: [26217527](#), Kapcsolat: [26185501](#)*

13. Valdenaire Pierre-Louis et al. Density-based crystal plasticity: From the discrete to the continuum. (2016) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 93 21  
Journal Article/Article (Journal Article)/Scientific  
[26185684] [Approved]  
*Független, Idéző: [26185684](#), Kapcsolat: [26185502](#)*
14. Zhang Xu et al. Strain Avalanches in Microsized Single Crystals: Avalanche Size Predicted by a Continuum Crystal Plasticity Model. (2016) CHINESE PHYSICS LETTERS 0256-307X 1741-3540 33 10  
Journal Article/Article (Journal Article)/Scientific  
[26360823] [Approved]  
*Független, Idéző: [26360823](#), Kapcsolat: [26360823](#)*
15. Papanikolaou Stefanos et al. Avalanches and plastic flow in crystal plasticity: an overview. (2018) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 26 1  
Journal Article/Survey paper (Journal Article)/Scientific  
[27312687] [Validated]  
*Független, Idéző: [27312687](#), Kapcsolat: [27283020](#)*
16. Sparks G. et al. Nontrivial scaling exponents of dislocation avalanches in microplasticity. (2018) PHYSICAL REVIEW MATERIALS 2475-9953 2 12  
Journal Article/Article (Journal Article)/Scientific  
[30533447] [Validated]  
*Független, Idéző: [30533447](#), Kapcsolat: [27984187](#)*
17. McDowell D.L.. Multiscale modeling of interfaces, dislocations, and dislocation field plasticity. (2019) In: Courses and Lectures pp. 195-297  
Chapter in Book/Chapter (Chapter in Book)/Scientific  
[30783650] [Approved]  
*Független, Idéző: [30783650](#), Kapcsolat: [28281581](#)*
18. Ovaska Markus et al. Collective dynamics of dislocations interacting with mobile solute atoms. (2016) JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT 1742-5468 1742-5468  
Journal Article/Article (Journal Article)/Scientific  
[26031415] [Admin approved]  
*Független, Idéző: [26031415](#), Kapcsolat: [28281582](#)*
19. Salmenjoki Henri et al. Plastic yielding and deformation bursts in the presence of disorder from coherent precipitates. (2020) PHYSICAL REVIEW MATERIALS 2475-9953 4 8  
Journal Article/Article (Journal Article)/Scientific  
[31739481] [Validated]  
*Független, Idéző: [31739481](#), Kapcsolat: [29647663](#)*

**Ispanovity PD et al. Abnormal subgrain growth in a dislocation-based model of recovery. (2011) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 19 4, 1847445**

Journal Article/Article (Journal Article)/Scientific  
[1847445]

1. Kuykendall WP et al. Conditional convergence in two-dimensional dislocation dynamics. (2013) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 21 5  
Journal Article/Article (Journal Article)/Scientific  
[24534785] [Approved]  
*Független, Idéző: [24534785](#), Kapcsolat: [23327500](#)*
2. Derlet PM et al. Micro-plasticity and intermittent dislocation activity in a simplified micro-structural model. (2013) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 21 3  
Journal Article/Article (Journal Article)/Scientific  
[24534784] [Approved]  
*Független, Idéző: [24534784](#), Kapcsolat: [24603783](#)*
3. Tarp Jens M et al. Rotation-limited growth of three-dimensional body-centered-cubic crystals. (2015) PHYSICAL REVIEW E - STATISTICAL, NONLINEAR AND SOFT MATTER PHYSICS (2001-2015) 1539-3755 1550-2376 2470-0053 2470-0045 92 1  
Journal Article/Article (Journal Article)/Scientific  
[25374268] [Approved]  
*Független, Idéző: [25374268](#), Kapcsolat: [25374268](#)*
4. Guo Wanfu et al. Effects of Warm Rolling Deformation on the Microstructure and Ductility of Large 2219 Al-Cu Alloy Rings. (2020) METALS AND MATERIALS INTERNATIONAL 1598-9623 2005-4149 26 1 56-68  
Journal Article/Article (Journal Article)/Scientific  
[31432305] [Validated]  
*Független, Idéző: [31432305](#), Kapcsolat: [29838762](#)*

**Ispanovity PD et al. Impact of gamma ' particle coarsening on the critical resolved shear stress of nickel-base superalloys with low aluminium and/or titanium content. (2011) JOURNAL OF NUCLEAR MATERIALS 0022-3115 416 1-2 55-59, 1847471**

Journal Article/Article (Journal Article)/Scientific  
[1847471]

1. Krug ME et al. Comparison between dislocation dynamics model predictions and experiments in precipitation-strengthened Al-Li-Sc alloys. (2014) ACTA MATERIALIA 1359-6454 1873-2453 79 382-395  
Journal Article/Article (Journal Article)/Scientific

[24307827] [Approved]

*Független, Idéző: [24307827](#), Kapcsolat: [24307827](#)*

**Groma I et al. Variational approach in dislocation theory. (2010) PHILOSOPHICAL MAGAZINE 1478-6435 1478-6443 90 27-28 3679-3695, [1921342](#)**

Journal Article/Article (Journal Article)/Scientific  
[1921342]

1. Kobelev V. On the Lagrangian and instability of medium with defects. (2012) MECCANICA 0025-6455 1572-9648 47 3 745-753  
Journal Article  
[22235150] [Admin approved]  
*Független, Idéző: [22235150](#), Kapcsolat: [22235150](#)*
2. Njoroge K et al. An Intrinsic Dislocation Density – Finite Element Formulation Of Metal Plasticity. (2012) International Journal of Computational Engineering Research 2250-3005 2 3 843-850  
Journal Article/Article (Journal Article)/Scientific  
[23327309] [Admin approved]  
*Független, Idéző: [23327309](#), Kapcsolat: [23327309](#)*
3. Aoyagi Y et al. Modeling and simulation on ultrafine-graining based on multiscale crystal plasticity considering dislocation patterning. (2013) INTERNATIONAL JOURNAL OF PLASTICITY 0749-6419 47 13-28  
Journal Article/Article (Journal Article)/Scientific  
[24534783] [Approved]  
*Független, Idéző: [24534783](#), Kapcsolat: [23327510](#)*
4. Kooiman M et al. Collective behaviour of dislocations in a finite medium. (2014) JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT 1742-5468 1742-5468 2014 4 p. P04028  
Journal Article/Article (Journal Article)/Scientific  
[24856659] [Approved]  
*Független, Idéző: [24856659](#), Kapcsolat: [24307843](#)*
5. Kooiman M et al. Microscopically derived free energy of dislocations. (2015) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 78 186-209  
Journal Article/Scientific  
[25249836] [Approved]  
*Független, Idéző: [25249836](#), Kapcsolat: [24603778](#)*
6. Weygand Daniel et al. Multiscale Simulation of Plasticity in bcc Metals. (2015) ANNUAL REVIEW OF MATERIALS RESEARCH 1531-7331 1545-4118 45 369-390  
Journal Article/Article (Journal Article)/Scientific  
[25250345] [Admin approved]

*Független, Idéző: [25250345](#), Kapcsolat: [25250345](#)*

7. Groger R et al. Dislocations via incompatibilities in phase-field models of microstructure evolution. (2016) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 94 5  
Journal Article/Article (Journal Article)/Scientific  
[26185672] [Admin approved]  
*Független, Idéző: [26185672](#), Kapcsolat: [26185672](#)*
8. Mianroodi Jaber Rezaei et al. Strongly non-local modelling of dislocation transport and pile-up. (2016) PHILOSOPHICAL MAGAZINE 1478-6435 1478-6443 96 12 1171-1187  
Journal Article/Article (Journal Article)/Scientific  
[26185691] [Approved]  
*Független, Idéző: [26185691](#), Kapcsolat: [26185674](#)*
9. Zhu Yichao et al. Continuum dynamics of the formation, migration and dissociation of self-locked dislocation structures on parallel slip planes. (2016) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 96 369-387  
Journal Article/Article (Journal Article)/Scientific  
[26383838] [Admin approved]  
*Független, Idéző: [26383838](#), Kapcsolat: [26360965](#)*
10. Gröger R et al. Mesoscopic description of dislocation patterning using the concept of incompatibility of strains. (2017) SOLID STATE PHENOMENA 1012-0394 1662-9779 258 SSP 87-92  
Journal Article/Scientific  
[26453321] [Admin approved]  
*Független, Idéző: [26453321](#), Kapcsolat: [26453321](#)*
11. Mora Maria Giovanna et al. CONVERGENCE OF INTERACTION-DRIVEN EVOLUTIONS OF DISLOCATIONS WITH WASSERSTEIN DISSIPATION AND SLIP-PLANE CONFINEMENT. (2017) SIAM JOURNAL ON MATHEMATICAL ANALYSIS 0036-1410 1095-7154 49 5 4149-4205  
Journal Article/Article (Journal Article)/Scientific  
[27055947] [Approved]  
*Független, Idéző: [27055947](#), Kapcsolat: [27055942](#)*
12. Yadav SD et al. Characterizing dislocation configurations and their evolution during creep of a new 12% Cr steel. (2017) MATERIALS CHARACTERIZATION 1044-5803 134 387-397  
Journal Article/Article (Journal Article)/Scientific  
[3327304] [Admin approved]  
*Független, Idéző: [3327304](#), Kapcsolat: [27283157](#)*
13. Po Giacomo et al. A continuum dislocation-based model of wedge microindentation of single crystals. (2019) INTERNATIONAL JOURNAL OF PLASTICITY 0749-6419 114 72-86  
Journal Article/Article (Journal Article)/Scientific

[30784307] [Validated]

*Független, Idéző: [30784307](#), Kapcsolat: [28281642](#)*

14. Gröger R. et al. Mesoscopic description of dislocation patterning using the concept of incompatibility of strains. (2017) In: 8th International Conference on Materials Structure and Micromechanics of Fracture, MSMF8 pp. 87-92

Chapter in Book/Conference paper (Chapter in Book)/Scientific

[30784317] [Approved]

*Független, Idéző: [30784317](#), Kapcsolat: [28281655](#)*

15. Weygand D. et al. Multiscale Simulation of Plasticity in bcc Metals. (2015) In: Annual Review of Materials Research pp. 369-390

Chapter in Book/Chapter (Chapter in Book)/Scientific

[30783654] [Approved]

*Független, Idéző: [30783654](#), Kapcsolat: [28281656](#)*

**Ispanovity PD et al. Submicron Plasticity: Yield Stress, Dislocation Avalanches, and Velocity Distribution. (2010) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 105 8, [1792907](#)**

Journal Article/Article (Journal Article)/Scientific

[1792907]

1. Wang Z] et al. Sample size effects on the large strain bursts in submicron aluminum pillars. (2012) APPLIED PHYSICS LETTERS 0003-6951 1077-3118 100 7

Journal Article

[23241953] [Admin approved]

*Független, Idéző: [23241953](#), Kapcsolat: [22235429](#)*

2. Salman OU et al. Minimal Integer Automaton behind Crystal Plasticity. (2011) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 106 17

Journal Article

[23241980] [Admin approved]

*Független, Idéző: [23241980](#), Kapcsolat: [22235430](#)*

3. Tsekenis G et al. Dislocations Jam at Any Density. (2011) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 106 10

Journal Article

[23241986] [Admin approved]

*Független, Idéző: [23241986](#), Kapcsolat: [22235431](#)*

4. Angheluta L et al. Anisotropic velocity statistics of topological defects under shear flow. (2012) PHYSICAL REVIEW E - STATISTICAL, NONLINEAR AND SOFT MATTER PHYSICS (2001-2015) 1539-3755 1550-2376 2470-0053 2470-0045 85 1

Journal Article

[22235435] [Admin approved]

*Független, Idéző: [22235435](#), Kapcsolat: [22235433](#)*

5. Kristián Máthis et al. Exploring Plastic Deformation of Metallic Materials by the Acoustic Emission Technique. (2012) In: Acoustic Emission pp. 23-48  
Chapter in Book  
[22325473] [Admin approved]  
*Független, Idéző: [22325473](#), Kapcsolat: [22325473](#)*
6. Friedman N et al. Statistics of Dislocation Slip Avalanches in Nanosized Single Crystals Show Tuned Critical Behavior Predicted by a Simple Mean Field Model. (2012) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 109 9 p. 095507  
Journal Article/Article (Journal Article)/Scientific  
[22576869] [Approved]  
*Független, Idéző: [22576869](#), Kapcsolat: [22576869](#)*
7. Salman OU et al. On the critical nature of plastic flow: One and two dimensional models. (2012) INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE 0020-7225 59 219-254  
Journal Article/Article (Journal Article)/Scientific  
[22576739] [Approved]  
*Független, Idéző: [22576739](#), Kapcsolat: [22576871](#)*
8. Tiwari S et al. Simulated defect growth avalanches during deformation of nanocrystalline copper. (2013) PHILOSOPHICAL MAGAZINE 1478-6435 1478-6443 93 5 478-498  
Journal Article  
[23077183] [Admin approved]  
*Független, Idéző: [23077183](#), Kapcsolat: [23077183](#)*
9. Tsekenis G et al. Determination of the universality class of crystal plasticity. (2013) EUROPHYSICS LETTERS 0295-5075 1286-4854 101 3  
Journal Article  
[23241946] [Admin approved]  
*Független, Idéző: [23241946](#), Kapcsolat: [23077184](#)*
10. Chinh NQ et al. Observations of unique plastic behavior in micro-pillars of an ultrafine-grained alloy. (2012) MRS COMMUNICATIONS 2159-6859 2159-6867 2 3 75-78  
Journal Article/Article (Journal Article)/Scientific  
[2368869] [Admin approved]  
*Független, Idéző: [2368869](#), Kapcsolat: [23077185](#)*
11. Xu YJ et al. Spin-Peierls Instability in the Ferromagnetic Heisenberg Ladder. (2013) CHINESE PHYSICS LETTERS 0256-307X 1741-3540 30 3  
Journal Article/Article (Journal Article)/Scientific  
[26441655] [Admin approved]  
*Független, Idéző: [26441655](#), Kapcsolat: [23236420](#)*
12. Mishra T et al. Quantum phases and phase transitions of frustrated hard-core bosons on

a triangular ladder. (2013) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829  
0556-2805 1550-235X 1098-0121 87 17  
Journal Article/Article (Journal Article)/Scientific  
[26441656] [Admin approved]  
*Független, Idéző: [26441656](#), Kapcsolat: [23236421](#)*

13. Bibikov PN. On the ground state energy scaling in quasi-rung-dimerized spin ladders. (2013) EUROPEAN PHYSICAL JOURNAL B 1434-6028 1434-6036 86 4  
Journal Article/Article (Journal Article)/Scientific  
[26441657] [Admin approved]  
*Független, Idéző: [26441657](#), Kapcsolat: [23236422](#)*
14. Antolovich SD et al. Plastic strain localization in metals: Origins and consequences. (2014) PROGRESS IN MATERIALS SCIENCE 0079-6425 59 1 1-160  
Journal Article  
[23527921] [Admin approved]  
*Független, Idéző: [23527921](#), Kapcsolat: [23527921](#)*
15. Zhang Y et al. Microstructures and properties of high-entropy alloys. (2014) PROGRESS IN MATERIALS SCIENCE 0079-6425 61 1-93  
Journal Article/Survey paper (Journal Article)/Scientific  
[25958652] [Approved]  
*Független, Idéző: [25958652](#), Kapcsolat: [23527922](#)*
16. Jafarpour F et al. Velocity statistics for interacting edge dislocations in one dimension from Dyson's Coulomb gas model. (2013) PHYSICAL REVIEW E - STATISTICAL, NONLINEAR AND SOFT MATTER PHYSICS (2001-2015) 1539-3755 1550-2376 2470-0053 2470-0045 88 4  
Journal Article  
[23529183] [Admin approved]  
*Független, Idéző: [23529183](#), Kapcsolat: [23527923](#)*
17. Maass R et al. Small-scale plasticity: Insights into dislocation avalanche velocities. (2013) SCRIPTA MATERIALIA 1359-6462 69 8 586-589  
Journal Article  
[23529218] [Admin approved]  
*Független, Idéző: [23529218](#), Kapcsolat: [23529218](#)*
18. Chinh NQ et al. Grain Boundary Phenomena in an Ultrafine-Grained Al-Zn Alloy with Improved Mechanical Behavior for Micro-Devices. (2014) ADVANCED ENGINEERING MATERIALS 1438-1656 1527-2648 16 8 1000-1009  
Journal Article/Article (Journal Article)/Scientific  
[2761408] [Admin approved]  
*Független, Idéző: [2761408](#), Kapcsolat: [24307846](#)*



19. Dickel D et al. Dipole formation and yielding in a two-dimensional continuum dislocation model. (2014) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 90 9  
Journal Article/Article (Journal Article)/Scientific  
[24364976] [Approved]  
*Független, Idéző: [24364976](#), Kapcsolat: [24307847](#)*
20. Po Giacomo et al. Recent Progress in Discrete Dislocation Dynamics and Its Applications to Micro Plasticity. (2014) JOM-JOURNAL OF THE MINERALS METALS & MATERIALS SOCIETY 1047-4838 1543-1851 66 10 2108-2120  
Journal Article/Article (Journal Article)/Scientific  
[24858605] [Admin approved]  
*Független, Idéző: [24858605](#), Kapcsolat: [24363851](#)*
21. Zhang Xu et al. A stochastic model for the temporal aspects of flow intermittency in micropillar compression. (2014) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES 0020-7683 51 25-26 4519-4530  
Journal Article/Article (Journal Article)/Scientific  
[24858628] [Admin approved]  
*Független, Idéző: [24858628](#), Kapcsolat: [24363852](#)*
22. Čapek J et al. Study of the loading mode dependence of the twinning in random textured cast magnesium by acoustic emission and neutron diffraction methods. (2014) MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING 0921-5093 1873-4936 602 25-32  
Journal Article/Article (Journal Article)/Scientific  
[3044691] [Admin approved]  
*Független, Idéző: [3044691](#), Kapcsolat: [24363853](#)*
23. Cui Yi-nan et al. Theoretical and numerical investigations on confined plasticity in micropillars. (2015) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 76 127-143  
Journal Article/Article (Journal Article)/Scientific  
[24858581] [Approved]  
*Független, Idéző: [24858581](#), Kapcsolat: [24365136](#)*
24. Hu JQ et al. Sensitive material behavior: theoretical model and experiment for compression collapse of gold particles at submicron scale. (2014) JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME 0021-8936 81 9 p. 091007  
Journal Article/Article (Journal Article)/Scientific  
[24365137] [Approved]  
*Független, Idéző: [24365137](#), Kapcsolat: [24365137](#)*
25. Maass R et al. Independence of Slip Velocities on Applied Stress in Small Crystals. (2015) SMALL 1613-6810 1613-6829 11 3 341-351

Journal Article/Article (Journal Article)/Scientific  
[24858591] [Admin approved]  
*Független, Idéző: [24858591](#), Kapcsolat: [24365138](#)*

26. Crosby Tamer et al. The origin of strain avalanches in sub-micron plasticity of fcc metals. (2015) ACTA MATERIALIA 1359-6454 1873-2453 89 123-132  
Journal Article/Article (Journal Article)/Scientific  
[24858582] [Admin approved]  
*Független, Idéző: [24858582](#), Kapcsolat: [24603839](#)*
27. Kooiman M et al. Microscopically derived free energy of dislocations. (2015) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 78 186-209  
Journal Article/Scientific  
[25249836] [Approved]  
*Független, Idéző: [25249836](#), Kapcsolat: [24603841](#)*
28. Tarp JM et al. Intermittent dislocation density fluctuations in crystal plasticity from a phase-field crystal model. (2014) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 113 26  
Journal Article/Article (Journal Article)/Scientific  
[24446597] [Validated]  
*Független, Idéző: [24446597](#), Kapcsolat: [24603845](#)*
29. Amir A et al. Dislocation-mediated growth of bacterial cell walls. (2012) PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 0027-8424 1091-6490 109 25 9833-9838  
Journal Article  
[23327329] [Admin approved]  
*Független, Idéző: [23327329](#), Kapcsolat: [24605031](#)*
30. Derlet PM et al. Micro-plasticity and intermittent dislocation activity in a simplified micro-structural model. (2013) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 21 3  
Journal Article/Article (Journal Article)/Scientific  
[24534784] [Approved]  
*Független, Idéző: [24534784](#), Kapcsolat: [24605039](#)*
31. Dickel DE et al. A continuum formulation of stress correlations of dislocations in two dimensions. (2014) TECHNISCHE MECHANIK (MAGDEBURG) 0232-3869 34 3-4 205-212  
Journal Article/Scientific  
[24534878] [Admin approved]  
*Független, Idéző: [24534878](#), Kapcsolat: [24605108](#)*
32. Ovaska Markus et al. Quenched pinning and collective dislocation dynamics. (2015) SCIENTIFIC REPORTS 2045-2322 5  
Journal Article/Article (Journal Article)/Scientific

[25370934] [Admin approved]

*Független, Idéző: [25370934](#), Kapcsolat: [25249793](#)*

33. Kooiman M et al. Effective mobility of dislocations from systematic coarse-graining. (2015) JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT 1742-5468 1742-5468 2015 6  
Journal Article/Scientific  
[25249837] [Approved]  
*Független, Idéző: [25249837](#), Kapcsolat: [25249794](#)*
34. Máthis Krisztián et al. Effect of the loading mode on the evolution of the deformation mechanisms in randomly textured magnesium polycrystals - Comparison of experimental and modeling results. (2015) INTERNATIONAL JOURNAL OF PLASTICITY 0749-6419 72 127-150  
Journal Article/Article (Journal Article)/Scientific  
[2915178] [Approved]  
*Független, Idéző: [2915178](#), Kapcsolat: [25249795](#)*
35. Baris A et al. Microstructure decomposition and unique mechanical properties in an ultrafine-grained Al-Zn alloy processed by high-pressure torsion. (2015) KOVOVE MATERIALY / METALLIC MATERIALS 0023-432X 1338-4252 53 4 251-258  
Journal Article/Article (Journal Article)/Scientific  
[2923892] [Admin approved]  
*Független, Idéző: [2923892](#), Kapcsolat: [25249957](#)*
36. Derlet PM et al. A probabilistic explanation for the size-effect in crystal plasticity. (2015) PHILOSOPHICAL MAGAZINE 1478-6435 1478-6443 95 16-18 1829-1844  
Journal Article/Scientific  
[25249958] [Approved]  
*Független, Idéző: [25249958](#), Kapcsolat: [25249958](#)*
37. Nematollahi Gh Ali et al. Multiscale description of carbon-supersaturated ferrite in severely drawn pearlitic wires. (2016) ACTA MATERIALIA 1359-6454 1873-2453 111 321-334  
Journal Article/Article (Journal Article)/Scientific  
[26030143] [Approved]  
*Független, Idéző: [26030143](#), Kapcsolat: [25599439](#)*
38. Zhang Xu et al. Strain Avalanches in Microsized Single Crystals: Avalanche Size Predicted by a Continuum Crystal Plasticity Model. (2016) CHINESE PHYSICS LETTERS 0256-307X 1741-3540 33 10  
Journal Article/Article (Journal Article)/Scientific  
[26360823] [Approved]  
*Független, Idéző: [26360823](#), Kapcsolat: [26185503](#)*

39. McDermott D et al. Avalanches, plasticity, and ordering in colloidal crystals under compression. (2016) PHYSICAL REVIEW E: COVERING STATISTICAL NONLINEAR BIOLOGICAL AND SOFT MATTER PHYSICS (2016-) 2470-0045 2470-0053 93 6  
Journal Article/Article (Journal Article)/Scientific  
[26185504] [Approved]  
*Független, Idéző: [26185504](#), Kapcsolat: [26185504](#)*
40. Kooiman M et al. Viscoplastic flow rule for dislocation-mediated plasticity from systematic coarse-graining. (2016) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 90 77-90  
Journal Article/Article (Journal Article)/Scientific  
[26185689] [Approved]  
*Független, Idéző: [26185689](#), Kapcsolat: [26185505](#)*
41. Sparks G et al. Spatiotemporal slip dynamics during deformation of gold micro-crystals. (2017) ACTA MATERIALIA 1359-6454 1873-2453 122 109-119  
Journal Article/Article (Journal Article)/Scientific  
[26388143] [Admin approved]  
*Független, Idéző: [26388143](#), Kapcsolat: [26360824](#)*
42. Cui Yinan et al. Influence of loading control on strain bursts and dislocation avalanches at the nanometer and micrometer scale. (2017) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 95 6  
Journal Article/Article (Journal Article)/Scientific  
[26563468] [Admin approved]  
*Független, Idéző: [26563468](#), Kapcsolat: [26542155](#)*
43. Vajente G. Crackling noise in advanced gravitational wave detectors: A model of the steel cantilevers used in the test mass suspensions. (2017) PHYSICAL REVIEW D 1550-7998 2470-0029 2470-0010 0556-2821 96 2  
Journal Article/Article (Journal Article)/Scientific  
[26722266] [Approved]  
*Független, Idéző: [26722266](#), Kapcsolat: [26722266](#)*
44. Papanikolaou S et al. Obstacles and sources in dislocation dynamics: Strengthening and statistics of abrupt plastic events in nanopillar compression. (2017) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 102 17-29  
Journal Article/Article (Journal Article)/Scientific  
[26747563] [Approved]  
*Független, Idéző: [26747563](#), Kapcsolat: [26722267](#)*
45. Zhang Yong et al. Serration and noise behaviors in materials. (2017) PROGRESS IN MATERIALS SCIENCE 0079-6425 90 358-460  
Journal Article/Survey paper (Journal Article)/Scientific  
[27108351] [Approved]

*Független, Idéző: [27108351](#), Kapcsolat: [27055810](#)*

46. Davoudi Kamyar M et al. Dislocation evolution during plastic deformation: Equations vs. discrete dislocation dynamics study. (2018) JOURNAL OF APPLIED PHYSICS 0021-8979 1089-7550 123 8

Journal Article/Article (Journal Article)/Scientific  
[27311786] [Validated]

*Független, Idéző: [27311786](#), Kapcsolat: [27283021](#)*

47. Mathis Kristian et al. Investigation of the Microstructure Evolution and Deformation Mechanisms of a Mg-Zn-Zr-RE Twin-Roll-Cast Magnesium Sheet by In-Situ Experimental Techniques. (2018) MATERIALS 1996-1944 11 2

Journal Article/Article (Journal Article)/Scientific  
[27309163] [Validated]

*Független, Idéző: [27309163](#), Kapcsolat: [27283022](#)*

48. Maass R et al. Micro-plasticity and recent insights from intermittent and small-scale plasticity. (2018) ACTA MATERIALIA 1359-6454 1873-2453 143 338-363

Journal Article/Article (Journal Article)/Scientific  
[27312686] [Validated]

*Független, Idéző: [27312686](#), Kapcsolat: [27283023](#)*

49. Skaugen A et al. Separation of Elastic and Plastic Timescales in a Phase Field Crystal Model. (2018) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 121 25

Journal Article/Article (Journal Article)/Scientific  
[31238602] [Validated]

*Független, Idéző: [31238602](#), Kapcsolat: [27984194](#)*

50. Song Hengxu et al. Universality Class of Nanocrystal Plasticity: Localization and Self-Organization in Discrete Dislocation Dynamics. (2019) PHYSICAL REVIEW LETTERS 0031-9007 1079-7114 122 17

Journal Article/Article (Journal Article)/Scientific  
[30783689] [Validated]

*Független, Idéző: [30783689](#), Kapcsolat: [28281597](#)*

51. Chinh N.Q. et al. Characterizing Microstructural and Mechanical Properties of Al-Zn Alloys Processed by High-Pressure Torsion. (2019) ADVANCED ENGINEERING MATERIALS 1438-1656 1527-2648 22 1

Journal Article/Survey paper (Journal Article)/Scientific  
[30783850] [Validated]

*Független, Idéző: [30783850](#), Kapcsolat: [28281599](#)*

52. McDowell D.L.. Multiscale crystalline plasticity for materials design. (2018) In: Computational Materials System Design pp. 105-146  
Chapter in Book/Chapter (Chapter in Book)/Scientific

[30784269] [Approved]

*Független, Idéző: [30784269](#), Kapcsolat: [28281600](#)*

53. Zhang Xu et al. Strain Avalanches in Microsized Single Crystals: A Theoretical Study of the Relation between the Avalanche Size and Duration. (2016) CHINESE PHYSICS LETTERS 0256-307X 1741-3540 33 7

Journal Article/Article (Journal Article)/Scientific

[26217527] [Admin approved]

*Független, Idéző: [26217527](#), Kapcsolat: [28281601](#)*

54. Diao H. et al. Mechanical properties of high-entropy alloys. (2016) In: High-Entropy Alloys: Fundamentals and Applications pp. 181-236

Chapter in Book/Chapter (Chapter in Book)/Scientific

[30784272] [Approved]

*Független, Idéző: [30784272](#), Kapcsolat: [28281604](#)*

55. Kratochvíl J.. Formation of deformation substructures observed in ductile materials. (2014) In: CISM International Centre for Mechanical Sciences, Courses and Lectures pp. 199-304

Chapter in Book/Chapter (Chapter in Book)/Scientific

[30784274] [Approved]

*Független, Idéző: [30784274](#), Kapcsolat: [28281607](#)*

56. Hu Jianqiao et al. Predicting the flow stress and dominant yielding mechanisms: analytical models based on discrete dislocation plasticity. (2019) SCIENTIFIC REPORTS 2045-2322 9

Journal Article/Article (Journal Article)/Scientific

[31579663] [Validated]

*Független, Idéző: [31579663](#), Kapcsolat: [29418901](#)*

57. Sato Yuji et al. Unique universal scaling in nanoindentation pop-ins. (2020) NATURE COMMUNICATIONS 2041-1723 11 1

Journal Article/Article (Journal Article)/Scientific

[31739482] [Validated]

*Független, Idéző: [31739482](#), Kapcsolat: [29647665](#)*

58. Liu Ruoyu et al. Mechanical Properties and Serration Behavior of a NiCrFeCoMn High-Entropy Alloy at High Strain Rates. (2020) MATERIALS 1996-1944 13 17

Journal Article/Article (Journal Article)/Scientific

[31739483] [Validated]

*Független, Idéző: [31739483](#), Kapcsolat: [29647667](#)*

**Csikor FF et al. The role of density fluctuations in the relaxation of random dislocation systems. (2009) JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT 1742-5468 1742-5468 2009 3, [1792909](#)**

Journal Article/Article (Journal Article)/Scientific  
[1792909]

1. Laurson L et al. Spatial fluctuations in transient creep deformation. (2011) JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT 1742-5468 1742-5468 2011 7  
Journal Article/Article (Journal Article)/Scientific  
[23241972] [Approved]  
*Független, Idéző: [23241972](#), Kapcsolat: [22235426](#)*
2. Yalcinkaya T et al. Non-convex rate dependent strain gradient crystal plasticity and deformation patterning. (2012) INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES 0020-7683 49 18 2625-2636  
Journal Article  
[22611870] [Admin approved]  
*Független, Idéző: [22611870](#), Kapcsolat: [22571417](#)*
3. Rivera-Diaz-del-Castillo PEJ et al. Dislocation annihilation in plastic deformation: I. Multiscale irreversible thermodynamics. (2012) ACTA MATERIALIA 1359-6454 1873-2453 60 6-7 2606-2614  
Journal Article  
[22571431] [Admin approved]  
*Független, Idéző: [22571431](#), Kapcsolat: [22571418](#)*
4. Hall CL. Asymptotic analysis of a pile-up of regular edge dislocation walls. (2011) MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING 0921-5093 1873-4936 530 144-148  
Journal Article/Article (Journal Article)/Scientific  
[22611864] [Approved]  
*Független, Idéző: [22611864](#), Kapcsolat: [24603785](#)*
5. Janičević S et al. Avalanches in 2D dislocation systems without applied stresses. (2015) JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT 1742-5468 1742-5468 2015 7 p. P07016  
Journal Article/Article (Journal Article)/Scientific  
[25260578] [Approved]  
*Független, Idéző: [25260578](#), Kapcsolat: [25249988](#)*

**Ispanovity PD et al. The probability distribution of internal stresses in externally loaded 2D dislocation systems. (2008) JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT 1742-5468 1742-5468, [1792910](#)**

Journal Article/Article (Journal Article)/Scientific  
[1792910]

1. Luiza Angheluta et al. Avalanche statistics and intermittency in topological defect-mediated flows. (2011) ARXIV PREPRINT arXiv:1103.2185

Journal Article

[22325591] [Admin approved]

*Független, Idéző: [22325591](#), Kapcsolat: [22325591](#)*

2. Gurrutxaga-Lerma B.. A stochastic study of the collective effect of random distributions of dislocations. (2019) JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS 0022-5096 124 10-34

Journal Article/Article (Journal Article)/Scientific

[30784618] [Validated]

*Független, Idéző: [30784618](#), Kapcsolat: [29838319](#)*

**Ispánovity Péter Dusán et al. Evolution of the correlation functions in two-dimensional dislocation systems. (2008) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 78, [152714](#)**

Journal Article/Article (Journal Article)/Scientific

[152714]

1. Malyshev C. Non-singular screw dislocations as the Coulomb gas with smoothed-out coupling and the renormalization of the shear modulus. (2011) JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 1751-8113 1751-8121 44 28

Journal Article

[22235470] [Admin approved]

*Független, Idéző: [22235470](#), Kapcsolat: [22235470](#)*

2. Deng J et al. Temporal statistics and coarse graining of dislocation ensembles. (2010) PHILOSOPHICAL MAGAZINE 1478-6435 1478-6443 90 27-28 3651-3678

Journal Article

[23242000] [Admin approved]

*Független, Idéző: [23242000](#), Kapcsolat: [22235471](#)*

3. Deng J et al. Mathematical and computational modelling of correlations in dislocation dynamics. (2009) MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING 0965-0393 1361-651X 17 7

Journal Article

[22325718] [Admin approved]

*Független, Idéző: [22325718](#), Kapcsolat: [22325718](#)*

4. Mohamed M et al. Dislocation statistics in FCC crystals. (2010) In: TMS Annual Meeting pp. 61-68

Chapter in Book

[23327136] [Admin approved]

*Független, Idéző: [23327136](#), Kapcsolat: [23327136](#)*

5. Zaiser M. The energetics and interactions of random dislocation walls. (2013) PHILOSOPHICAL MAGAZINE LETTERS 0950-0839 1362-3036 93 7 387-394



Journal Article

[23529622] [Admin approved]

*Független, Idéző: [23529622](#), Kapcsolat: [23327150](#)*

6. Blonde R et al. High-resolution X-ray diffraction investigation on the evolution of the substructure of individual austenite grains in TRIP steels during tensile deformation. (2014) JOURNAL OF APPLIED CRYSTALLOGRAPHY 0021-8898 1600-5767 47 965-973

Journal Article/Article (Journal Article)/Scientific

[24307854] [Approved]

*Független, Idéző: [24307854](#), Kapcsolat: [24307854](#)*

7. Dickel DE et al. A continuum formulation of stress correlations of dislocations in two dimensions. (2014) TECHNISCHE MECHANIK (MAGDEBURG) 0232-3869 34 3-4 205-212

Journal Article/Scientific

[24534878] [Admin approved]

*Független, Idéző: [24534878](#), Kapcsolat: [24307858](#)*

8. Benediktovitch Andrei et al. X-Ray Diffraction from Crystals with Defects. (2014) In: Theoretical Concepts of X-Ray Nanoscale Analysis pp. 217-263

Chapter in Book/Study (Chapter in Book)/Scientific

[24365503] [Approved]

*Független, Idéző: [24365503](#), Kapcsolat: [24603856](#)*

9. Schulz K. et al. Discrete-continuum transition: A discussion of the continuum limit. (2018) TECHNISCHE MECHANIK (MAGDEBURG) 0232-3869 38 1 126-134

Journal Article/Article (Journal Article)/Scientific

[30783652] [Approved]

*Független, Idéző: [30783652](#), Kapcsolat: [28281664](#)*

**Groma I et al. Role of elastic anharmonicity in dislocation patterning. (2007) PHYSICAL REVIEW B 2469-9950 2469-9969 0163-1829 0556-2805 1550-235X 1098-0121 76 5, [1792912](#)**

Journal Article/Article (Journal Article)/Scientific

[1792912]

1. Njoroge K et al. An Intrinsic Dislocation Density – Finite Element Formulation Of Metal Plasticity. (2012) International Journal of Computational Engineering Research 2250-3005 2 3 843-850

Journal Article/Article (Journal Article)/Scientific

[23327309] [Admin approved]

*Független, Idéző: [23327309](#), Kapcsolat: [23327294](#)*