

AFM characterization of the surface morphology of the severe plastic deformed copper [Electronic resource]

Hussainova, Irina; Lõhmus, Rünno; **Kommel, Lembit;** Siimon, H. Proceedings of Material Research Society Spring Meeting : March 28 - April 1, 2005, San Francisco, CA, USA 2005 / [CD-ROM]

Characterization of the viscoplastic behavior of nanocrystalline metals at HCV deformation

Kommel, Lembit; Hussainova, Irina; Traksmaa, Rainer Reviews on advanced materials science 2005 / p. 447-453

https://www.researchgate.net/publication/250143614_Characterization_of_the_Viscoplastic_Behavior_of_Nanocrystalline_Metals_at_HCV_Deformation

Enhancement of hydrogen storage in metals by using a new technique in Severe Plastic Deformations

Omranpour Shahreza, Babak; Kommel, Lembit; Sanchez, E. Garcia Modern Materials and Manufacturing 2019 : 12th

International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p.

173-178 : ill <https://doi.org/10.4028/www.scientific.net/KEM.799.173> <https://www.scientific.net/KEM.799.173>

https://www.ester.ee/record=b5235278*est Conference proceeding at Scopus Article at Scopus

Formation of property gradient in coarse-grained niobium using a wedge tool : experiment and analysis

Tarasov, Oleksandr; Kübarsepp, Jakob; Viljus, Mart; Saarna, Mart; Sergejev, Fjodor International journal of refractory metals and

hard materials 2024 / art. 106905 <https://doi.org/10.1016/j.ijrmhm.2024.106905> Journal metrics at Scopus Article at Scopus Journal

metrics at WOS Article at WOS

The impact of microstructural refinement on the tribological behavior of niobium processed by Indirect Extrusion Angular Pressing

Omranpour Shahreza, Babak; Hernandez-Rodriguez, Marco A. L.; Hernandez-Rodriguez, Edgar; **Kommel, Lembit; Sergejev,**

Fjodor Tribology international 2022 / art. 107412 <https://doi.org/10.1016/j.triboint.2021.107412> Journal metrics at Scopus Article at

Scopus Journal metrics at WOS Article at WOS

Influence of SPD on structure and properties of copper

Kommel, Lembit; Kenk, Kalju; Veinthal, Renno Proceedings of the 3rd International Conference Industrial Engineering - New

Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 161-164 : ill

Influence of the SPD processing features on the nanostructure and properties of a pure niobium

Kommel, Lembit; Mikli, Valdek; Traksmaa, Rainer; Saarna, Mart; Pokatilov, Andrei; Pikker, Siim; Kommel, Igor Materials science

forum Nanomaterials by Severe Plastic Deformation: NanoSPD5 : Selected, peer reviewed papers from the 5th International

Conference on Nanomaterials by Severe Plastic Deformation, NanoSPD5, held in Nanjing, China, on March 21-25, 2011 2011 / p.

785-790 : ill <https://doi.org/10.4028/www.scientific.net/MSF.667-669.785>

Limit load on screws strengthened by plastic deformations

Penkov, Igor; Strizak, Viktor; Arjassov, Gennadi Machines, technologies, materials 2007 / 6/7, p. 22-24

Mechanical properties and fracture developed in nanocopper by severe plastic deformations

Besterici, Michal; Kvackaj, Tibor; Kovac, Ladislav; Sülleiova, Katarina; Kulu, Priit 15th International Baltic Conference "Engineering

Materials & Tribology. Baltattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 22

Mechanical properties and fracture of nanocopper by severe plastic deformations

Besterici, Michal; Kvackaj, Tibor; Kovac, Ladislav; Sülleiova, Katarina; Kulu, Priit Proceedings of the Estonian Academy of Sciences.

Engineering 2006 / 4, p. 340-348 : ill

Mechanism for single crystal refinement in high purity niobium during equal-channel angular pressing

Kommel, Lembit; Laev, Natalja Materials science 2008 / p. 319-323 : ill <https://matssc.ktu.lt/index.php/MatSc/article/view/26198>

Mechanism for single crystal refinement in high purity niobium during equal-channel angular pressing

Kommel, Lembit; Laev, Natalja 17th International Baltic Conference : Materials Engineering 2008 : November 6-7, Kaunas,

Lithuania : abstracts of papers 2008 / p. 12 <https://matssc.ktu.lt/index.php/MatSc/article/view/26198>

Microstructural and mechanical behaviour of friction welded SS316L components fabricated by selective laser melting

Dinesh, Lanka; Damodaram, R.; Sivaprasad, Katakam; Prashanth, Konda Gokuldoss Materials today communications 2023 / art.

107430 <https://doi.org/10.1016/j.mtcomm.2023.107430> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at

WOS

Microstructure and properties development of copper during severe plastic deformation [Electronic resource]

Hussainova, Irina; Kommel, Lembit Nanotechnology in Northern Europe : Congress : Finland, 2005 2005 / p. 54 [CD-ROM]

Microstructure evolution in Ti-alloys during severe plastic deformation by electric upset forging

Kommel, Lembit; Teterin, G. Proceedings of NATO Advanced Research Workshop : Investigations and Applications of Severe

Plastic Deformation : August 2-6, 1999, Moscow, Russia 1999 / p. 78

Microstructure, properties and atomic level strain in severely deformed rare metal niobium

Kommel, Lembit; Saarna, Mart; Traksmäa, Rainer; Kommel, Igor Materials science = Medžiagotyra 2012 / p. 330-335 : ill
https://www.researchgate.net/publication/272702114_Microstructure_Properties_and_Atomic_Level_Strain_in_Severely_Deformed_Rare_Metal_Niobium

Nanostructured copper manufacturing features and mechanical/physical properties forming

Kommel, Lembit Nanopowders, Nanostructured Materials and Coatings : Network for Nanostructured Materials of ACC : March 17, 2005, Tallinn, Estonia : book of abstracts 2005 / p. 22-24 : ill

New advanced technologies for nanocrystalline metals manufacturing

Kommel, Lembit Proceedings of the 4th International Conference Industrial Engineering - New Challenges to SME : 29-30 April 2004, Tallinn, Estonia 2004 / p. 195-198 : ill

On the describing of cyclic deformation process in plasticity

Kenk, Kalju BEM & FEM : 19th International Conference Mathematical Modelling in Solid Mechanics. Boundary and Finite Elements Methods, 30 May - 2 June 2001, Saint Petersburg, Russia : proceedings. Vol. 1 2001 / p. 76

On the describing of cyclic deformation process in plasticity

Kenk, Kalju BEM & FEM : 19th International Conference Mathematical Modelling in Solid Mechanics. Boundary and Finite Elements Methods, 30 May - 2 June 2001, Saint Petersburg, Russia : proceedings. Vol. 2 2001 / p. 199-203 : ill

Severe plastic deformation of metals by using high pressure torsion extrusion = Metallide süvapistne deformeerimine kõrgsurve-väändeekstrusiooni meetodil

Omranpour Shahreza, Babak 2019 <https://digikogu.taltech.ee/et/Item/e74f8a8e-4021-4cd2-b1f0-cb91d05b9a56>

Structural behaviour of NC copper at hard cyclic viscoplastic deformation

Kommel, Lembit; Hussainova, Irina; Nisumaa, Reet; Volobujeva, Olga Ultrafine Grained Materials - from Basics to Applications : UFG-2006 : September 25-27, 2006, Kloster Irsee, Germany 2006 / p. 6-16 - 6-17

Wheel-rail wear simulation

Telliskivi, Tanel; Olofsson, Ulf Wear 2004 / 11, p. 1145-1153 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0043164804001577>

Влияние состояния поверхности металла на начальную стадию процесса окисления

Hunt, A.; Prikk, Arvi XXX студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 8-10 апреля 1986 года : тезисы докладов. Том II, Автоматика. Энергетика. Механика. Химия 1986 / с. 65 : илл https://www.ester.ee/record=b1305565*est

Исследование методом наноиндентирования микромеханических свойств полос сдвига в нанокристаллическом чистом ниобии, полученном при интенсивной пластической деформации

Kommel, Lembit НАНО 2013 : v Всероссийская конференция по наноматериалам : сборник материалов : 23-27 сентября 2013 г., г. Звенигород 2013 / с. 414-416

Стохастическая модель процессов поверхностного пластического деформирования (ППД)

Papstel, Jüri Сборник статей по машиностроению. 14 1976 / с. 3-9 : илл https://www.ester.ee/record=b2190772*est
<https://digikogu.taltech.ee/et/Item/19a7abb0-e96a-49e5-bc18-3d1b1f0b3218>