

CURRICULUM VITA

Günter Gottstein

Prof. em. Dr. rer. nat. Dr. h. c.

Institute of Physical Metallurgy and Metal Physics

RWTH Aachen University

D-52056 Aachen

Germany

Phone: +49 (0)241 80-2 68 59

Fax: +49 (0)241 80-2 26 08

E-mail: gottstein@imm.rwth-aachen.de

<http://www.imm.rwth-aachen.de>

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Education

Diplom-Physiker 1969 RWTH Aachen, Germany
 Dr. rer. nat. 1973 Fakultät für Bergbau und Hüttenwesen, RWTH Aachen, Germany
 Dr. habil. 1979 Fakultät für Bergbau und Hüttenwesen, RWTH Aachen, Germany

Professional Experience

1969-1972 Scientist, Institute for Solid State Physics, KFA Jülich, Germany
 1972-1979 Research Associate, Institute of Physical Metallurgy and Metal Physics, RWTH Aachen, Germany
 1979-1982 Visiting Scientist, Argonne National Laboratory, USA
 1981-1982 Visiting Assoc. Professor, Massachusetts Institute of Technology, USA
 1982-1983 Privatdozent, Institute of Physical Metallurgy and Metal Physics, RWTH Aachen, Germany
 1983-1985 Associate Professor, Michigan State University, East Lansing, USA
 1985-1989 Professor, Michigan State University, East Lansing, USA
 1989-2013 Professor and Director of the Institute of Physical Metallurgy and Metal Physics, RWTH Aachen, Germany
 2014- Distinguished Senior Professor of RWTH Aachen University
 1993-1999 Director of the Central Facility for Electron Microscopy of the RWTH Aachen (GFE)
 1996-1998 Dean of the Faculty of Mining, Metallurgy and Geosciences, RWTH Aachen

Professional Societies and Honors

Member, The Metallurgical Society
 Member, Materials Research Society
 Member, American Physical Society
 Member, German Materials Society, President 2006-2007
 Member, German Physical Society
 Member, Verein Deutscher Eisenhüttenleute
 Member, Sigma Xi
 Full member, Academy of Sciences and Literature, Mainz (since March 2002)
 Full member of German Academy of Engineering acatech (since October 2003)

Masing Award of German Metallurgical Society, 1982
 Heisenberg Research Fellowship, German Science Foundation, 1981-1983
 Max-Planck-Research Award of the Alexander von Humboldt-Foundation and the Max-Planck-Society, 1998
 Sawamura Award of the Iron and Steel Institute of Japan, 2002
 Heyn Medal, German Materials Society, 2003
 Werner Köster Award, Deutsche Gesellschaft für Materialkunde, 2005
 Gold Medal Award, Federation of European Materials Societies (FEMS), 2011
 Cyril Stanley Smith Award, ReX&GG International Conference (2013)
 Publication Award, Faculty of Geosciences and Materials Engineering, RWTH Aachen University (2013)
 Kurdjumov Medal, Russian Academy of Sciences, 2014
 TMS Distinguished Educator Award (2015)
 AMAP Research Award (2015)
 Hans-Joachim Bunge Preis (ICOTOM, 2021)
 Acta Materialia Gold Medal (2021)

Honorary Professor, Moscow Institute for Steel and Alloys (2006)

Honorary Professor, Northeastern University, Shenyang, China (2007)

Honorary Doctorate, Technical University, BA Freiberg, Faculty of Materials Science and Materials Technology

Honorary Member, Deutsche Gesellschaft für Materialkunde (2010)

RWTH Distinguished Senior Professor (2014)

Editor, Acta Materialia (January 2004 through March 2019)

Author and Coauthor of 12 books and more than 400 publications in professional journals.

Research Areas: Materials Modeling, Interfaces, Textures, Crystal Plasticity, Metal Matrix Composites

Publication

1. Books

- G. Gottstein: Materialwissenschaft und Werkstofftechnik: Physikalische Grundlagen
Springer-Verlag, Berlin-Heidelberg, Germany, (4th edition), 2014 (ISBN: 978-3-642-36602-4)
- Günter Gottstein and Lasar S. Shvindlerman: Grain Boundary Migration in Metals:
Thermodynamics, Kinetics, Applications
CRC Press, Boca Raton, Fl., USA, (second edition) 2010 (ISBN: 978-1-4200-5435-4)
- G. Gottstein: Physical-chemical Foundation of Material Science; Physikalische-chemische
Grundlagen der Materialwissenschaft, (in Russian), translated by V. Zlomanov, Binom, Moscow,
2009
- J. Hirsch, B. Skrotzki, and G. Gottstein: Aluminium Alloys – Their Physical and Mechanical
Properties, Wiley-VCH (DGM), 2008 (ISBN 978-3-527-32367-8)
- G. Gottstein: Physikalische Grundlagen der Materialkunde
Springer-Verlag, Berlin-Heidelberg, Germany, (3. edition), 2007 (ISBN 978-3-540-71104-9)
- Günter Gottstein: Integral Materials Modeling: Towards Physics-Based Through-Process Models
Wiley-VCH, 2007 (ISBN 978-3-527-31711-0)
- Franz Gustav Kollmann, G. Gottstein (Herausgeber): Weitab vom Hookeschen Gesetz –
Moderne Ansätze und Ingenieurpraxis großer inelastischer Deformationen metallischer
Werkstoffe“, Akademie der Wissenschaften und der Literatur, Mainz, Franz Steiner Verlag
Stuttgart (2005) (ISBN 3-515-08796-6)
- G. Gottstein: Physical Foundations of Materials Science
Springer-Verlag Berlin Heidelberg New York, 2004 (ISBN: 3-540-40139-3)
- G. Gottstein: Physikalische Grundlagen der Materialkunde
Springer-Verlag, Berlin-Heidelberg, Germany, (2. edition), 2001 (ISBN: 3-540-41961-6)
- G. Gottstein and D.A. Molodov (editors): Recrystallization and Grain Growth
Springer-Verlag Berlin, Germany (2001) (ISBN: 3-540-41837-7)
- G. Gottstein, R. Sebald (editors): Integral Materials Modelling
Shaker Verlag, Aachen (2000) (ISBN: 3-8265-7779-5)
- G. Gottstein and L.S. Shvindlerman: Grain Boundary Migration in Metals: Thermodynamics,
Kinetics, Applications
CRC Press, Boca Raton, Fl., USA, 1999 (ISBN: 0-8493-8222-X)
- H. Mughrabi, G. Gottstein, H. Mecking, H. Riedel, J. Tobolski (editors): Microstructure and
Mechanical Properties of Metallic High-Temperature Materials
Wiley-VCH, DFG, 1999 (ISBN: 3-527-27142-2)
- G. Gottstein: Physikalische Grundlagen der Materialkunde

Springer-Verlag, Berlin-Heidelberg, Germany, 1998 (ISBN: 3-540-62670-0)

J.S. Kallend and G. Gottstein (editors): ICOTOM 8
TMS Warrendale, Pa., USA, 1988 (ISBN: 0-87339-035-0)

G. Gottstein (editor): Rekristallisation metallischer Werkstoffe, Grundlagen, Analyse,
Anwendung
Deutsche Gesellschaft für Metallkunde, Germany, 1984 (ISBN: 3-88355-062-0)

G. Gottstein, K. Lücke (editors): Textures of Materials
Springer-Verlag Berlin, Germany, 1978 (ISBN: 0-387-09220-X)

2. Articles

Anthony D. Rollett, G. Gottstein: A Brief Overview of Texture and Anisotropy
In: 2021 IOP Conf. Ser.: Mater. Sci. Eng. 1121 012001

C. Meng, W. Hu, S. Sandloebes, S. Korte-Kerzel, G. Gottstein: The effect of severe plastic
deformation on elevated temperature mechanical behavior of dynamic strain aging Al-Mg alloys
In: Acta Materialia 181 (2019) 67-77

C. Schwarze, R. D. Kamachali, M. Kühbach, C. Mießen, M. Tegeler, L. Barrales-Mora,
I. Steinbach, G. Gottstein: Computationally Efficient Phase-field Simulation Studies Using RVE
Sampling and Statistical Analysis
In: Computational Materials Science 147 (2018) 204–216

H. Jiang, S. Sandlöbes, G. Gottstein, S. Korte-Kerzel: On the effect of precipitates on the cyclic
deformation behavior of anAl–Mg–Si alloy
In: J. Mater. Res. 32 (2017) 4398-4410

C. Mießen, N. Velinov, G. Gottstein, L. A. Barrales-Mora: A highly efficient 3D level-set grain
growth algorithm tailored for ccNUMA architecture
In: Modelling Simul. Mater. Sci. Eng. 25 (2017) 084002 (29pp)

M. Lin, G. Gottstein, L.S. Shvindlerman: Generalized Gibbs-Thomson equation for
nanoparticles at grain boundaries
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Z. Wu, S. Sandlöbes, L. Wu, W. Hu, G. Gottstein, S. Korte-Kerzel: Mechanical behavior of Zn–
Al–Cu–Mg alloys: Deformation mechanisms of as-cast microstructures
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M. Kühbach, G. Gottstein, L.A. Barrales-Mora: A statistical ensemble cellular automaton
microstructure model for primary recrystallization
In: Acta Materialia 107 (2016) 366-376

G. Gottstein and L. S. Shvindlerman: Thermodynamics and Kinetics of 1D Structural Elements
and Stability of Nanocrystalline Materials

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C. Mießen, M. Liesenjohann, L.A. Barrales-Mora, L.S. Shvindlerman, G. Gottstein: An advanced level set approach to grain growth – Accounting for grain boundary anisotropy and finite triple junction mobility

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B. B. Zhao, L. S. Shvindlerman, G. Gottstein: On the Orientation Dependence of Grain Boundary Triple Line Energy in Cu

In: International Journal of Materials Research 105 (2014) 1151-1158

M. Witte, G. Gottstein, N. de Boer, S. Gilges, J. Klöwer, M. Bäcker, O. Brunkahl, B. Wojtyniak, W. Mader, M. Svete, S. Hühne, S. Lepper, R. Böhm, M. Schebera: The Project SupraMetall: Towards Commercial Fabrication of High-Temperature Superconducting Tapes

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S. Mu, F. Tang, G. Gottstein: A cluster-type grain interaction deformation texture model accounting for twinning-induced texture and strain-hardening evolution: Application to magnesium alloys

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C. Haase, L. A. Barrales-Mora, F. Roters, D. A. Molodov, G. Gottstein: Applying the texture analysis for optimizing thermomechanical treatment of high manganese twinning-induced plasticity steel

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Shiteng Zhao, Chenlu Meng, Fengxin Mao, Weiping Hu, Günter Gottstein:

Influence of severe plastic deformation on dynamic strain aging of ultrafine grained Al–Mg alloys,

In: Acta Materialia 76 (2014) 54–67

V. Sursaeva, G. Gottstein, L.S. Shvindlerman: Grain growth in thin nanocrystalline silver films

In: Scripta Materialia 116 (2016) 91-94

Liu, Zhenshan; Mohles, Volker; Engler, Olaf; Gottstein, Guenter: Thermodynamics based modelling of the precipitation kinetics in commercial aluminium alloys

In: Computational materials science. -Amsterdam: Elsevier- ISSN: 0927-0256. -81 (2014), S./Art.: 410-417

Graetz, Kathrin; Miessen, Christian; Gottstein, Günter: Analysis of steady-state dynamic recrystallization

In: Acta Materialia 67 (2014) 58-66

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In: Acta materialia. -Kidlington: Elsevier Science- ISSN: 1359-6454. -61 (2013) 7, S./Art.: 2363-2375

Gottstein, Günter: Through-Process Modeling of Materials Fabrication: Philosophy, Current State, and Future Directions

In: Microstructural design of advanced engineering materials, ed. Molodov, Dmitri A.. -
Weinheim: Wiley-VCH, 2013.- ISBN: 978-3-527-33269-4, 978-352-76528-4-6, 978-352-76528-
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evolution of a cold-rolled Fe-28Mn-0.28C TWIP steel during recrystallization
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Günster, Christoph; Molodov, Dmitri A.; Gottstein, Günter: Magnetically controlled grain
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and effects on grain microstructure evolution
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Hu, Lei; Zhang, G.; Hu, Weiping; Gottstein, Günter; Bogner, S.; Bührig-Polaczek, Andreas :
Tensile creep of directionally solidified NiAl-9Mo in situ composites
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Haase, Christian; Barrales-Mora, Luis Antonio ; Molodov, Dmitri A.; Gottstein, Günter:
Tailoring the Mechanical Properties of a Twinning-Induced Plasticity Steel by Retention of
Deformation Twins During Heat Treatment
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Boston: Springer [u.a.]- ISSN: 0360-2133, 0360-2141, 1073-5615. -44A (2013) 10, S./Art.:
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Molodov, Dmitri A.; Günster, Christoph; Gottstein, Günter : Magnetically controlled grain
boundary migration and microstructure evolution in Zn
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Publ. [u.a.]- ISSN: 0377-6883, 1012-0386. -333 (2013) , S./Art.: 101-106

Haase, Christian; Ghosh Chowdhury, Sandip ; Barrales-Mora, Luis Antonio ; Molodov, Dmitri
A.; Gottstein, Günter: On the relation of microstructure and texture evolution in an austenitic Fe-
28Mn-0.28C TWIP steel during cold rolling
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Boston: Springer [u.a.]- ISSN: 0360-2133, 0360-2141, 1073-5615. -44 (2013) 2, S./Art.: 911-
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Shvindlerman, Lasar S.; Gottstein, Günter: Grain boundary junctions: their effect on interfacial
phenomena
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Weinheim: Wiley-VCH, 2013.- ISBN: 978-3-527-33269-4, 978-352-76528-4-6, 978-352-76528-3-9., S./Art.: 189-199

Brandenburg, Jann-Erik; Barrales-Mora, Luis Antonio ; Molodov, Dmitri A.; Gottstein, Günter: Motion of a grain boundary facet in aluminum

In: Acta materialia. -Kidlington: Elsevier Science- ISSN: 1359-6454. -61 (2013) 14, S./Art.: 5518-5524

Barrales-Mora, Luis Antonio ; Shvindlerman, L. S.; Gottstein, G.: Effect of the energy of triple-lines on 3D grain growth

In: Recrystallization and grain growth V : selected, peer reviewed papers from the 5th International Conference on Recrystallization and Grain Growth (ReX & GG V), May 5 - 10, 2013, Sydney, Australia / ed. by Matthew Barnett. -Durnten-Zurich [u.a.]: Trans Tech Publ. [u.a.], 2013. -(Materials science forum ; 753).- ISBN: 978-3-03785-688-8.- ISSN: 0255-5476, 1662-9752., S./Art.: 373-376

Basu, Indranil; Al-Samman, Talal ; Gottstein, Günter: Shear band-related recrystallization and grain growth in two rolled magnesium-rare earth alloys

In: Materials science & engineering / A, Structural materials: properties, microstructure and processing. -Amsterdam: Elsevier [u.a.]- ISSN: 0921-5093. -579 (2013) September, S./Art.: 50-56

Brandenburg, Jann-Erik; Barrales-Mora, Luis Antonio ; Molodov, Dmitri A.; Gottstein, Günter: Effect of inclination dependence of grain boundary energy on the mobility of tilt and non-tilt low-angle grain boundaries

In: Scripta materialia. -Oxford: Elsevier- ISSN: 1359-6462. -68 (2013) 12, S./Art.: 980-983

Zhao, Bingbing; Ziemons, Arndt; Shvindlerman, Lasar S.; Gottstein, Günter: Surface topography and energy of grain boundary triple junctions in copper tricrystals

In: Acta materialia. -Kidlington: Elsevier Science- ISSN: 1359-6454. -60 (2012) 3, S./Art.: 811-818

Bogner, Samuel; Hu, Lei; Hollad, Simon; Hu, Weiping; Gottstein, Günter: Microstructure of a eutectic NiAl–Mo alloy directionally solidified using an industrial scale and a laboratory scale Bridgman furnace

In: International journal of materials research : IJMR. -München: Hanser- ISSN: 0179-4841, 0044-3093, 1862-5282. -103 (2012) 1, S./Art.: 17-23

Sukhopar, Olga; Gottstein, Günter: Modeling recrystallization in Al alloys : investigation of nucleation at cube bands

In: Materials science forum. -Zürich-Stafa: Trans Tech Publ.- ISBN: 978-3-03785-390-0.- ISSN: 0255-5476, 1662-9752. -715/716 (2012) , S./Art.: 455-460

Zhao, Bingbing; Shvindlerman, Lasar S.; Gottstein, Günter: Grain boundary triple line tension in copper

In: Materials science forum. -Zürich-Stafa: Trans Tech Publ.- ISSN: 1662-9752, 0255-5476. -715/716 (2012) 715/716, S./Art.: 843-848

Barrales-Mora, Luis Antonio ; Lü, Yaping; Molodov, Dmitri A.; Gottstein, Günter: Mesoscopic

Simulations of Recrystallization and Grain Growth in a Fe-0.374%C-21.64%Mn Alloy
In: Materials science forum. -Zürich-Stafa: Trans Tech Publ.- ISBN: 978-3-03785-390-0.- ISSN: 0255-5476, 1662-9752. -715/716 (2012) , S./Art.: 849-852

Barrales-Mora, Luis Antonio ; Shvindlerman, Lasar S.; Gottstein, Günter: Understanding grain boundary junctions: effect of the grain size on microstructure evolution
In: Materials science forum. -Zürich-Stafa: Trans Tech Publ.- ISBN: 978-3-03785-390-0.- ISSN: 0255-5476, 1662-9752. -715/716 (2012) , S./Art.: 186-190

Gorkaya, Tatiana; Burlet, Thomas; Molodov, Dmitri A.; Gottstein, Günter: In-situ observations and measurements of mechanically induced grain boundary migration in a scanning electron microscope
In: Materials science forum. -Zürich-Stafa: Trans Tech Publ.- ISBN: 978-3-03785-390-0.- ISSN: 1662-9752, 0255-5476. -715/716 (2012) , S./Art.: 819-824

Lü, Yaping; Molodov, Dmitri A.; Gottstein, Günter: Recrystallization kinetics and exture evolution during annealing of cold rolled Fe-Mn-C alloy
In: Materials science forum. -Zürich-Stafa: Trans Tech Publ.- ISBN: 978-3-03785-390-0.- ISSN: 1662-9752, 0255-5476. -715/716 (2012) , S./Art.: 568-573

Günster, Christoph; Molodov, Dmitri A.; Gottstein, Günter: In-situ measurements of magnetically driven grain boundary migration in Zn bicrystals
In: Materials science forum. -Zürich-Stafa: Trans Tech Publ.- ISBN: 978-3-03785-390-0.- ISSN: 1662-9752, 0255-5476. -715/716 (2012) , S./Art.: 467-472

Gottstein, Günter: A different view on dynamic recrystallization
In: Materials science forum. -Zürich-Stafa: Trans Tech Publ.- ISBN: 978-3-03785-390-0.- ISSN: 1662-9752, 0255-5476. -715/716 (2012) , S./Art.: 235-242

Shvindlerman, Lasar S.; Gottstein, Günter: Thermodynamic and kinetic properties of grain boundary junctions
In: Materials science forum. -Zürich-Stafa: Trans Tech Publ.- ISBN: 978-3-03785-390-0.- ISSN: 1662-9752, 0255-5476. -715/716 (2012) , S./Art.: 243-250

Mu, Sijia; Jonas, John J.; Gottstein, Günter: Variant selection of primary, secondary and tertiary twins in a deformed Mg alloy
In: Acta materialia. -Kidlington: Elsevier Science- ISSN: 1359-6454. -60 (2012) 5, S./Art.: 2043-2053

Barrales-Mora, Luis Antonio ; Gottstein, Günter; Shvindlerman, Lasar S.: Effect of finite boundary junction mobility on the growth rate of grains in 3D polycrystals
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Hu, Lei; Hu, Weiping; Gottstein, Günter; Bogner, Samuel Wolf; Hollad, Simon; Bührig-Polaczek, A. : Investigation into microstructure and mechanical properties of nial-mo composites produced by directional solidification
In: Materials science & engineering / A, Structural materials: properties, microstructure and processing. -Amsterdam [u.a.]: Elsevier- ISSN: 0921-5093. -539 (2012) , S./Art.: 211-222

Witte, Marco; Belde, M.; Barrales-Mora, Luis Antonio ; de Boer, N. ; Gilges, S.; Klöwer, J.; Gottstein, Günter : Abnormal grain growth in Ni-5at.% W
In: The philosophical magazine. -Abingdon: Taylor & Francis [u.a.]- ISSN: 0031-8086, 1478-6435, 1478-6443. -92 (2012) 35, S./Art.: 4398-4407

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Molodov, Dmitri A.; Günster, Christoph; Gottstein, Günter ; Shvindlerman, Lasar: A novel experimental approach to determine the absolute grain boundary energy
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Molodov, Dmitri A.; Gorkaya, Tatiana; Gottstein, Günter: Stress induced grain boundary motion in Al bicrystals
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Günster, Christoph; Molodov, Dmitri A.; Gottstein, Günter: Grain boundary migration and grain growth texture evolution in Zn in a high magnetic field
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Molodov, Dmitri A.; Gorkaya, Tatiana; Gottstein, Günter: Observation of stress-driven migration of specific planar grain boundaries in Al bicrystals
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Bachmann, Florian; Witte, Marco; Nguyen, Thuan Q.; Schaeben, Helmut; Gottstein, Günter: Efficient and accurate measurement of very sharp crystallographic textures : a new measurement strategy
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Suwas, Satyam; Beausir, Benoit; Tóth, László S.; Funderberger, Jean-Jacques; Gottstein, Günter: Texture evolution in commercially pure titanium after warm equal channel angular extrusion

In: Acta materialia. -Kidlington: Elsevier Science- ISSN: 1359-6454. -1359-6454 (2011) 3, S./Art.: 1121-1133

Lischweski, Ingo; Gottstein, Günter: Nucleation and variant selection during the α - γ - α phase transformation in microalloyed steel

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Günter Gottstein, Markus Kühbach, Christian Mießen, Luis Barrales-Mora

Auf dem Weg zur physikalischen Realzeitsimulation: effiziente Statistik solitärer Systeme

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Engineering Plasticity: Work Softening by Dynamic Recrystallization

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Günter Gottstein and Lasar S. Shvindlerman

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Gottstein, K. Grätz

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G. Gottstein, K. Grätz, C. Mießen

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- Zhenshan Liu, Volker Mohles, Olaf Engler, Günter Gottstein

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- Christian Bollmann, Günter Gottstein:
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Symposium: Materials for High Temperature Applications: Next Generation Superalloys and Beyond

- Sheila Bhaumik, Volker Mohles, Günter Gottstein
Evaluation of Recovery Kinetics of the Aluminum Alloy AA3103 Using Stress Relaxation and Double Tension Tests

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- V. Mohles, X. Li, C. Heering, G. Hirt, S. Bhaumik, G. Gottstein:
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- Sheila Bhaumik, Günter Gottstein:
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 - Christian Bollmann, Günter Gottstein
 - Texture Control by Thermomechanical Processing During Sheet Production of AA6016
 - Tatiana Gorkaya, Smitri A. Molodov, Günter Gottstein
 - Stress Induced Migration of $\langle 100 \rangle$ Tilt Grain Boundaries in Al-Bicrystals
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- C. Schäfer, V. Mohles, G. Gottstein
 - Modeling of Texture Development During Tandem Hot Rolling of AA3103
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- THERMEC2006, 4.-8. Juli, Vancouver, Canada (2006)
- T. Al-Samman, G. Gottstein
- Deformation Conditions and Stability of the Basal Texture in Magnesium
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- Talal Al-Samman, Bashir Ahmad, Günter Gottstein
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- 2006 TMS Annual Meeting, Brandon-Symposium: "Advanced Materials and Characterization", San-Antonio, Texas, USA, März (2006)
- L.S. Shvindlerman, G. Gottstein, V. A. Ivanov, D.A. Molodov, D. Kolesnikov, W. Łojkowski
- Grain Boundary Excess Free Volume – Direct Thermodynamic Measurement
- Rex&GG-Conference (10.-15. Juni 2007), Korea (2007)
- Günter Gottstein, Lasar S. Shvindlerman, Mischa Crumbach
 - Recent Advances in the Simulation of Recrystallization and Grain Growth
 - Dmitri A. Molodov, Tatiana Gorkaya, Günter Gottstein
 - Mechanically Driven Migration of $\langle 100 \rangle$ Tilt Grain Boundaries in Al-Bicrystals
 - Sheila Bhaumik, Xenia Molodova, Dmitri A. Molodov, Günter Gottstein
 - Recrystallization Behaviour of Cold Rolled Aluminum Alloy AA 3103 in a Magnetic Field
 - X. Molodova, G. Gottstein, R.J. Hellmig
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 - C. Schäfer, G. Gottstein
 - Modeling Recrystallization of Aluminum Alloys: A Refined Approach to Particle Stimulated Nucleation
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Dynamic Recrystallization and Deformation Mechanisms of Cu and Ni₃Al during Hot Deformation
- S. Weiß, G. Brückner, G. Gottstein:
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- J. Pospiech, J. Jura, G. Gottstein:
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- O. Engler, A. Chavooshi, J. Hirsch, G. Gottstein:
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- P. Yang, O. Engler, G. Gottstein:
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- O. Engler, P. Yang, G. Gottstein, J. Jura, J. Pospiech:
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- O. Engler, J. Hirsch, K. Karhausen, G. Gottstein:
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- U. Czubayko, D.A. Molodov, B.-C. Petersen, G. Gottstein, L.S. Shvindlerman:
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F. Hegemann, P. Gomez, G. Gottstein:
Influence of Temperature of Shot Peening on Fatigue Life

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- G. Gottstein, O. Engler:
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- D. Raabe, K. Lücke, G. Gottstein:
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- D. Raabe, G. Gottstein:
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- O. Engler, C. Escher, G. Gottstein:
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Means of EBSP
- D. Ponge, D.S. Grummon, C.S. Lee, G. Gottstein:
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Compression
- J. Ball, G. Gottstein:
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6th International Conference on Intergranular and Interphase Boundaries in Materials,
Thessaloniki (1992); G. Gottstein:

Besides Ductility: Grain Boundary Kinetics in $\text{Ni}_3\text{Al}+\text{B}$

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R. Mitteau, G. Gottstein:

Investigation of Deformation Induced Disorder and Re-Ordering By Subsequent
Annealing in $\text{Ni}_3\text{Al}+\text{B}$

The Metallurgical Society, Fall Meeting, Cincinnati (1991):

- C. Kim, D.S. Grummon and G. Gottstein:
Plastic Flow and Dislocation Structures in Tantalum Carbide: Deformation at Low and
Intermediate Temperature
- C. Lee, D.S. Grummon and G. Gottstein:
Compressive Creep and Dynamic Recrystallization in Ni_3Al
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Large Strain Deformation Behavior of Ni₃Al+B at High Temperatures

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- J. Ball, B. Zeumer, G. Gottstein:

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Dynamic Recrystallization and Microstructural Evolution in B-doped Ni₃Al

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- T. Lee, U. Schmidt, and G. Gottstein:

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- S. Chen and G. Gottstein:

High Temperature Low Cycle Fatigue of Nickel

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- G. Gottstein:

Automatic Microtexture Determination with Synchrotron Radiation

- W. Kim and G. Gottstein:

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Dynamic Recrystallization During Cyclic Deformation of Nickel

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G. Gottstein:

Investigation of Dynamic Recrystallization During Tensile Deformation of Copper Single Crystals

4th International Conference on Strength of Metals and Alloys, Nancy (1986); G. Gottstein, D. Zabardjadi and H. Mecking:

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European Meeting on "Grain Boundaries and Recrystallization", Hünfeld/Germany (1986);

G. Gottstein and H. Schmidt:

The Occurrence of Twin Relationships in Recrystallization Textures"

The Metallurgical Society, Fall Meeting, Orlando (1986);

- W. Kim and G. Gottstein:

Rolling and Recrystallization Textures of Cu-5%Ag

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Dynamic Recrystallization Under Changing Loading Conditions

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The Influence of the Deformation Temperature on the Initiation of Recrystallization

American Society for Metals, Metals Congress '84, Detroit (1984); G. Gottstein and P. Karduck:

On the Interaction of Dislocations with Moving Grain Boundaries

2nd International Conference on Creep and Fracture of Engineering Materials and Structures, Swansea (Great Britain) (1984); G. Gottstein and A.S. Argon:

Dislocation Theory of Strain Hardening and Steady State Deformation in Creep and Constant Strain Rate Tests

Yamada Conference, Kyoto (Japan) (1981); J. Estrin, K. Lücke and G. Gottstein:

The Role of Vacancies in Grain Boundary Motion

International Conference on Dislocation Modelling in Physical Systems, Gainesville (1980);

K. Lücke, J. Estrin and G. Gottstein:

The Role of Vacancies in the Kinetics of Grain Boundary Motion

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- P. Karduck, J.M. Goux and G. Gottstein:

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- A. Wantzen, P. Karduck and G. Gottstein:

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- G. Gottstein:

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- P.J.T. Stuitje and G. Gottstein:

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