

# Franz Roters

## List of Publications by Year in descending order

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122  
papers

10,863  
citations

36203

51  
h-index

30848

102  
g-index

128  
all docs

128  
docs citations

128  
times ranked

4974  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Determination and analysis of the constitutive parameters of temperature-dependent dislocation-density-based crystal plasticity models. <i>Mechanics of Materials</i> , 2022, 164, 104117.   | 1.7 | 24        |
| 2  | Characterizing Localized Microstructural Deformation of Multiphase Steel by Crystal Plasticity Simulation with Multi-Constitutive Law. <i>Journal of the Japan Society for Technology of Plasticity</i> , 2022, 63, 1-8.   | 0.0 | 0         |
| 3  | Modeling and simulation of microstructure in metallic systems based on multi-physics approaches. <i>Npj Computational Materials</i> , 2022, 8, .   | 3.5 | 10        |
| 4  | Crystal plasticity simulation of in-grain microstructural evolution during large deformation of IF-steel. <i>Acta Materialia</i> , 2022, 237, 118167.  | 3.8 | 15        |
| 5  | Lath Martensite Microstructure Modeling: A High-Resolution Crystal Plasticity Simulation Study. <i>Materials</i> , 2021, 14, 691.  | 1.3 | 13        |
| 6  | Large-deformation crystal plasticity simulation of microstructure and microtexture evolution through adaptive remeshing. <i>International Journal of Plasticity</i> , 2021, 146, 103078.   | 4.1 | 16        |
| 7  | Microstructure-based multiscale modeling of large strain plastic deformation by coupling a full-field crystal plasticity-spectral solver with an implicit finite element solver. <i>International Journal of Plasticity</i> , 2020, 125, 97-117.                     | 4.1 | 52        |
| 8  | Using spectral-based representative volume element crystal plasticity simulations to predict yield surface evolution during large scale forming simulations. <i>Journal of Materials Processing Technology</i> , 2020, 277, 116449.                                  | 3.1 | 28        |
| 9  | An FFT-based spectral solver for interface decohesion modelling using a gradient damage approach. <i>Computational Mechanics</i> , 2020, 65, 925-939.  | 2.2 | 17        |
| 10 | Solving Material Mechanics and Multiphysics Problems of Metals with Complex Microstructures Using DAMASK – The Düsseldorf Advanced Material Simulation Kit. <i>Advanced Engineering Materials</i> , 2020, 22, 1901044.   | 1.6 | 11        |
| 11 | Anisotropic polycrystal plasticity due to microstructural heterogeneity: A multi-scale experimental and numerical study on additively manufactured metallic materials. <i>Acta Materialia</i> , 2020, 185, 340-369.  | 3.8 | 64        |
| 12 | Current Challenges and Opportunities in Microstructure-Related Properties of Advanced High-Strength Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 5517-5586.                                      | 1.1 | 115       |
| 13 | Quantification of 3D spatial correlations between state variables and distances to the grain boundary network in full-field crystal plasticity spectral method simulations. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2020, 28, 055005. | 0.8 | 4         |
| 14 | A numerical study of the influence of crystal plasticity modeling parameters on the plastic anisotropy of rolled aluminum sheet. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2020, 28, 085005.  | 0.8 | 14        |
| 15 | Computer-Aided Material Design for Crash Boxes Made of High Manganese Steels. <i>Metals</i> , 2019, 9, 772.  | 1.0 | 3         |
| 16 | The through-process texture analysis of plate rolling by coupling finite element and fast Fourier transform crystal plasticity analysis. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 085005.                                    | 0.8 | 3         |
| 17 | Understanding the mechanisms of electroplasticity from a crystal plasticity perspective. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 085006.  | 0.8 | 37        |
| 18 | Spectral Solvers for Crystal Plasticity and Multi-physics Simulations. , 2019, , 1-25.   |     | 0         |

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|----|---|-----|-----------|
| 19 | Microstructural Influences on Fracture at Prior Austenite Grain Boundaries in Dual-Phase Steels. <i>Materials</i> , 2019, 12, 3687.   | 1.3 | 10        |
| 20 | Dislocation mechanism based size-dependent crystal plasticity modeling and simulation of gradient nano-grained copper. <i>International Journal of Plasticity</i> , 2019, 113, 52-73.   | 4.1 | 125       |
| 21 | DAMASK – The Düsseldorf Advanced Material Simulation Kit for modeling multi-physics crystal plasticity, thermal, and damage phenomena from the single crystal up to the component scale. <i>Computational Materials Science</i> , 2019, 158, 420-478. | 1.4 | 440       |
| 22 | Spectral Solvers for Crystal Plasticity and Multi-physics Simulations. , 2019, , 1-26.  |     | 2         |
| 23 | Spectral Solvers for Crystal Plasticity and Multi-physics Simulations. , 2019, , 1347-1372.   |     | 7         |
| 24 | Experimental – numerical study on strain and stress partitioning in bainitic steels with martensite – austenite constituents. <i>International Journal of Plasticity</i> , 2018, 104, 39-53.  | 4.1 | 48        |
| 25 | Temperature dependent strain hardening and fracture behavior of TWIP steel. <i>International Journal of Plasticity</i> , 2018, 104, 80-103.   | 4.1 | 98        |
| 26 | FFT-based interface decohesion modelling by a nonlocal interphase. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2018, 5, .   | 0.7 | 24        |
| 27 | An integrated crystal plasticity – phase field model for spatially resolved twin nucleation, propagation, and growth in hexagonal materials. <i>International Journal of Plasticity</i> , 2018, 106, 203-227.   | 4.1 | 125       |
| 28 | Yield locus prediction using statistical and RVE-based fast Fourier transform crystal plasticity models and validation for drawing steels. <i>Journal of Physics: Conference Series</i> , 2018, 1063, 012051.   | 0.3 | 1         |
| 29 | Spectral Solvers for Crystal Plasticity and Multi-physics Simulations. , 2018, , 1-27.  |     | 5         |
| 30 | Spectral Solvers for Crystal Plasticity and Multi-physics Simulations. , 2018, , 1-25.  |     | 1         |
| 31 | On the role of the collinear dislocation interaction in deformation patterning and laminate formation in single crystal plasticity. <i>Mechanics of Materials</i> , 2018, 125, 70-79.   | 1.7 | 12        |
| 32 | Multiscale Modelling of Hydrogen Transport and Segregation in Polycrystalline Steels. <i>Metals</i> , 2018, 8, 430.   | 1.0 | 21        |
| 33 | Identifying Structure – Property Relationships Through DREAM.3D Representative Volume Elements and DAMASK Crystal Plasticity Simulations: An Integrated Computational Materials Engineering Approach. <i>Jom</i> , 2017, 69, 848-855.                 | 0.9 | 71        |
| 34 | A Flexible and Efficient Output File Format for Grain-Scale Multiphysics Simulations. <i>Integrating Materials and Manufacturing Innovation</i> , 2017, 6, 83-91.   | 1.2 | 5         |
| 35 | Coupled Crystal Plasticity – Phase Field Fracture Simulation Study on Damage Evolution Around a Void: Pore Shape Versus Crystallographic Orientation. <i>Jom</i> , 2017, 69, 872-878.   | 0.9 | 46        |
| 36 | Crystal plasticity study on stress and strain partitioning in a measured 3D dual phase steel microstructure. <i>Physical Mesomechanics</i> , 2017, 20, 311-323.   | 1.0 | 58        |

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|----|--|-----|-----------|
| 37 | Constitutive modeling of strain induced grain boundary migration via coupling crystal plasticity and phase-field methods. <i>International Journal of Plasticity</i> , 2017, 99, 19-42.                              | 4.1 | 40        |
| 38 | Elasto-viscoplastic phase field modelling of anisotropic cleavage fracture. <i>Journal of the Mechanics and Physics of Solids</i> , 2017, 99, 19-34.   | 2.3 | 94        |
| 39 | Thermo-mechanical stresses within switching contact systems after arcing events. , 2017, , .   |     | 0         |
| 40 | Development of a Model for Dynamic Recrystallization Consistent with the Second Derivative Criterion. <i>Materials</i> , 2017, 10, 1259.   | 1.3 | 5         |
| 41 | A phase field model for damage in elasto-viscoplastic materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 312, 167-185.  | 3.4 | 79        |
| 42 | <i>Ab initio</i> -guided design of twinning-induced plasticity steels. <i>MRS Bulletin</i> , 2016, 41, 320-325.  | 1.7 | 25        |
| 43 | Neighborhood influences on stress and strain partitioning in dual-phase microstructures. <i>Meccanica</i> , 2016, 51, 429-441.   | 1.2 | 45        |
| 44 | A crystal plasticity model for twinning- and transformation-induced plasticity. <i>Acta Materialia</i> , 2016, 118, 140-151.   | 3.8 | 175       |
| 45 | A virtual laboratory using high resolution crystal plasticity simulations to determine the initial yield surface for sheet metal forming operations. <i>International Journal of Plasticity</i> , 2016, 80, 111-138. | 4.1 | 147       |
| 46 | Unraveling the temperature dependence of the yield strength in single-crystal tungsten using atomistically-informed crystal plasticity calculations. <i>International Journal of Plasticity</i> , 2016, 78, 242-265. | 4.1 | 137       |
| 47 | Crystal plasticity study of monocrystalline stochastic honeycombs under in-plane compression. <i>Acta Materialia</i> , 2016, 103, 796-808.   | 3.8 | 15        |
| 48 | Linking atomistic, kinetic Monte Carlo and crystal plasticity simulations of single-crystal tungsten strength. <i>GAMM Mitteilungen</i> , 2015, 38, 213-227.   | 2.7 | 13        |
| 49 | Assessing and ensuring parameter identifiability for a physically-based strain hardening model for twinning-induced plasticity. <i>Mechanics of Materials</i> , 2015, 84, 127-139.                                   | 1.7 | 11        |
| 50 | Analytical bounds of in-plane Young's modulus and full-field simulations of two-dimensional monocrystalline stochastic honeycomb structures. <i>Computational Materials Science</i> , 2015, 109, 323-329.            | 1.4 | 4         |
| 51 | Recrystallization behavior of a high-manganese steel: Experiments and simulations. <i>Acta Materialia</i> , 2015, 100, 155-168.  | 3.8 | 96        |
| 52 | Numerically robust spectral methods for crystal plasticity simulations of heterogeneous materials. <i>International Journal of Plasticity</i> , 2015, 66, 31-45.   | 4.1 | 159       |
| 53 | In situ observation of collective grain-scale mechanics in Mg and Mg-rare earth alloys. <i>Acta Materialia</i> , 2014, 80, 77-93.  | 3.8 | 91        |
| 54 | Interfacial dislocation motion and interactions in single-crystal superalloys. <i>Acta Materialia</i> , 2014, 79, 216-233.   | 3.8 | 50        |

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|----|---|-----|-----------|
| 55 | Applying the texture analysis for optimizing thermomechanical treatment of high manganese twinning-induced plasticity steel. <i>Acta Materialia</i> , 2014, 80, 327-340.  | 3.8 | 92        |
| 56 | Dislocation density distribution around an indent in single-crystalline nickel: Comparing nonlocal crystal plasticity finite-element predictions with experiments. <i>Acta Materialia</i> , 2014, 71, 333-348.  | 3.8 | 103       |
| 57 | Integrated experimental–simulation analysis of stress and strain partitioning in multiphase alloys. <i>Acta Materialia</i> , 2014, 81, 386-400.   | 3.8 | 285       |
| 58 | Strain localization and damage in dual phase steels investigated by coupled in-situ deformation experiments and crystal plasticity simulations. <i>International Journal of Plasticity</i> , 2014, 63, 198-210.   | 4.1 | 412       |
| 59 | Simulation of shear banding in heterophase co-deformation: Example of plane strain compressed Cu–Ag and Cu–Nb metal matrix composites. <i>Acta Materialia</i> , 2013, 61, 4591-4606.  | 3.8 | 68        |
| 60 | Revealing the strain-hardening behavior of twinning-induced plasticity steels: Theory, simulations, experiments. <i>Acta Materialia</i> , 2013, 61, 494-510.  | 3.8 | 429       |
| 61 | A spectral method solution to crystal elasto-viscoplasticity at finite strains. <i>International Journal of Plasticity</i> , 2013, 46, 37-53.   | 4.1 | 332       |
| 62 | Simulation of dislocation penetration through a general low-angle grain boundary. <i>Acta Materialia</i> , 2012, 60, 5380-5390.   | 3.8 | 79        |
| 63 | Non-crystallographic shear banding in crystal plasticity FEM simulations: Example of texture evolution in $\alpha$ -brass. <i>Acta Materialia</i> , 2012, 60, 1099-1115.  | 3.8 | 87        |
| 64 | Orientation dependence of shear banding in face-centered-cubic single crystals. <i>Acta Materialia</i> , 2012, 60, 3415-3434.   | 3.8 | 129       |
| 65 | DAMASK: the Dasseldorf Advanced Material Simulation Kit for studying crystal plasticity using an FE based or a spectral numerical solver. <i>Procedia IUTAM</i> , 2012, 3, 3-10.  | 1.2 | 159       |
| 66 | Analysis of the plastic anisotropy and pre-yielding of $(\beta/\beta_2)$ -phase titanium aluminide microstructures by crystal plasticity simulation. <i>Intermetallics</i> , 2011, 19, 820-827.   | 1.8 | 23        |
| 67 | Dislocation interactions and low-angle grain boundary strengthening. <i>Acta Materialia</i> , 2011, 59, 7125-7134.  | 3.8 | 84        |
| 68 | Editorial Steel ab initio. <i>Steel Research International</i> , 2011, 82, 85-85.   | 1.0 | 1         |
| 69 | Experimental and numerical investigations of the plane strain compression of an oligocrystalline pure copper specimen. <i>Journal of Materials Processing Technology</i> , 2011, 211, 1305-1323.  | 3.1 | 5         |
| 70 | Overview of constitutive laws, kinematics, homogenization and multiscale methods in crystal plasticity finite-element modeling: Theory, experiments, applications. <i>Acta Materialia</i> , 2010, 58, 1152-1211.  | 3.8 | 1,558     |
| 71 | The mechanical size effect as a mean-field breakdown phenomenon: Example of microscale single crystal beam bending. <i>Acta Materialia</i> , 2010, 58, 1876-1886.   | 3.8 | 78        |
| 72 | Microstructure and texture evolution in dual-phase steels: Competition between recovery, recrystallization, and phase transformation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 4161-4168. | 2.6 | 111       |

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|----|---|-----|-----------|
| 73 | On the Modeling of Dual Phase Steels: Microstructure-based Simulation from the Hot Rolled Sheet to the Deep Drawn Component. <i>International Journal of Material Forming</i> , 2010, 3, 73-76.                     | 0.9 | 10        |
| 74 | Bending of single crystal microcantilever beams of cube orientation: Finite element model and experiments. <i>Journal of the Mechanics and Physics of Solids</i> , 2010, 58, 1599-1612.                             | 2.3 | 28        |
| 75 | EBSD Study of Substructure and Texture Formation in Dual-Phase Steel Sheets for Semi-Finished Products. <i>Solid State Phenomena</i> , 2010, 160, 251-256.  | 0.3 | 3         |
| 76 | Comparison of texture evolution in fcc metals predicted by various grain cluster homogenization schemes. <i>International Journal of Materials Research</i> , 2009, 100, 500-509.                                   | 0.1 | 24        |
| 77 | Texture prediction from a novel grain cluster-based homogenization scheme. <i>International Journal of Material Forming</i> , 2009, 2, 523-526.   | 0.9 | 5         |
| 78 | Relaxed grain cluster (RGC) homogenization scheme. <i>International Journal of Material Forming</i> , 2009, 2, 939-942.   | 0.9 | 5         |
| 79 | Smaller is stronger: The effect of strain hardening. <i>Acta Materialia</i> , 2009, 57, 5996-6005.  | 3.8 | 115       |
| 80 | Virtual material testing for stamping simulations based on polycrystal plasticity. <i>Computational Materials Science</i> , 2009, 46, 383-392.  | 1.4 | 65        |
| 81 | The role of heterogeneous deformation on damage nucleation at grain boundaries in single phase metals. <i>International Journal of Plasticity</i> , 2009, 25, 1655-1683.  | 4.1 | 304       |
| 82 | Simulation of earing of a 17% Cr stainless steel considering texture gradients. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 488, 482-490. | 2.6 | 42        |
| 83 | Multiscale simulation of polycrystal mechanics of textured $\hat{\tau}$ alloys using ab initio and crystal-based finite element methods. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2642-2648.   | 0.7 | 26        |
| 84 | Texture Evolution During Bending of a Single Crystal Copper Nanowire Studied by EBSD and Crystal Plasticity Finite Element Simulations. <i>Advanced Engineering Materials</i> , 2008, 10, 737-741.                  | 1.6 | 14        |
| 85 | On the origin of deformation-induced rotation patterns below nanoindents. <i>Acta Materialia</i> , 2008, 56, 31-42.   | 3.8 | 103       |
| 86 | Selecting a set of discrete orientations for accurate texture reconstruction. <i>Computational Materials Science</i> , 2008, 42, 670-678.   | 1.4 | 57        |
| 87 | Recent Progress in the 3D Experimentation and Simulation of Nanoindents. <i>Materials Science Forum</i> , 2007, 550, 199-204.   | 0.3 | 0         |
| 88 | Iso-Work-Rate Weighted-Taylor Homogenization Scheme for Multiphase Steels Assisted by Transformation-induced Plasticity Effect. <i>Steel Research International</i> , 2007, 78, 777-783.                            | 1.0 | 9         |
| 89 | Mechanism Oriented Steel Development. <i>Steel Research International</i> , 2007, 78, 195-198.  | 1.0 | 0         |
| 90 | A dislocation density based constitutive law for BCC materials in crystal plasticity FEM. <i>Computational Materials Science</i> , 2007, 39, 91-95.   | 1.4 | 65        |

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|-----|--|-----|-----------|
| 91  | Effects of initial orientation, sample geometry and friction on anisotropy and crystallographic orientation changes in single crystal microcompression deformation: A crystal plasticity finite element study. <i>Acta Materialia</i> , 2007, 55, 4567-4583. | 3.8 | 120       |
| 92  | A Finite Element approach with patch projection for strain gradient plasticity formulations. <i>International Journal of Plasticity</i> , 2007, 23, 690-710.   | 4.1 | 42        |
| 93  | Simulation of earing during deep drawing of an Al-3% Mg alloy (AA 5754) using a texture component crystal plasticity FEM. <i>Journal of Materials Processing Technology</i> , 2007, 183, 169-175.  | 3.1 | 39        |
| 94  | Studying the effect of grain boundaries in dislocation density based crystal-plasticity finite element simulations. <i>International Journal of Solids and Structures</i> , 2006, 43, 7287-7303.   | 1.3 | 68        |
| 95  | Three-dimensional investigation of the texture and microstructure below a nanoindent in a Cu single crystal using 3D EBSD and crystal plasticity finite element simulations. <i>Acta Materialia</i> , 2006, 54, 1863-1876.                                   | 3.8 | 282       |
| 96  | On the consideration of interactions between dislocations and grain boundaries in crystal plasticity finite element modeling – Theory, experiments, and simulations. <i>Acta Materialia</i> , 2006, 54, 2181-2194.   | 3.8 | 198       |
| 97  | A dislocation density based constitutive model for crystal plasticity FEM including geometrically necessary dislocations. <i>Acta Materialia</i> , 2006, 54, 2169-2179.  | 3.8 | 329       |
| 98  | On strain gradients and size-dependent hardening descriptions in crystal plasticity frameworks. <i>Metals and Materials International</i> , 2006, 12, 407-411.   | 1.8 | 5         |
| 99  | Mapping the Crystal Orientation Distribution Function to Discrete Orientations in Crystal Plasticity Finite Element Forming Simulations of Bulk Materials. <i>Materials Science Forum</i> , 2006, 519-521, 803-808.  | 0.3 | 0         |
| 100 | Phase-Field Extension of Crystal Plasticity with Application to Hardening Modeling., 2005, , 501-511.  |     | 1         |
| 101 | Simulation of Earing during Deep Drawing of bcc Steel by Use of a Texture Component Crystal Plasticity Finite Element Method. <i>Materials Science Forum</i> , 2005, 495-497, 1529-1534.   | 0.3 | 6         |
| 102 | A Texture Evolution Study Using the Texture Component Crystal Plasticity FEM. <i>Materials Science Forum</i> , 2005, 495-497, 937-944.   | 0.3 | 7         |
| 103 | Application of crystal plasticity FEM from single crystal to bulk polycrystal. <i>Computational Materials Science</i> , 2005, 32, 509-517.   | 1.4 | 24        |
| 104 | Crystal plasticity simulation study on the influence of texture on earing in steel. <i>Computational Materials Science</i> , 2005, 34, 221-234.  | 1.4 | 92        |
| 105 | Using texture components in crystal plasticity finite element simulations. <i>International Journal of Plasticity</i> , 2004, 20, 339-361.   | 4.1 | 196       |
| 106 | Comparison of Single Crystal Simple Shear Deformation Experiments with Crystal Plasticity Finite Element Simulations. <i>Advanced Engineering Materials</i> , 2004, 6, 653-656.  | 1.6 | 30        |
| 107 | A texture optimization study for minimum earing in aluminium by use of a texture component crystal plasticity finite element method. <i>Acta Materialia</i> , 2004, 52, 1003-1012.   | 3.8 | 71        |
| 108 | Orientation dependence of nanoindentation pile-up patterns and of nanoindentation microtextures in copper single crystals. <i>Acta Materialia</i> , 2004, 52, 2229-2238.   | 3.8 | 247       |

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|-----|--|-----|-----------|
| 109 | A constitutive model for fcc single crystals based on dislocation densities and its application to uniaxial compression of aluminium single crystals. <i>Acta Materialia</i> , 2004, 52, 3603-3612.            | 3.8 | 232       |
| 110 | Numerical study of textures and Lankford values for FCC polycrystals by use of a modified Taylor model. <i>Computational Materials Science</i> , 2004, 29, 353-361.  | 1.4 | 16        |
| 111 | A new concept for the calculation of the mobile dislocation density in constitutive models of strain hardening. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 240, 68-74.                           | 0.7 | 21        |
| 112 | A Texture Component Crystal Plasticity Finite Element Method for Physically-Based Metal Forming Simulations Including Texture Update. <i>Materials Science Forum</i> , 2002, 396-402, 31-38.                   | 0.3 | 6         |
| 113 | Concepts for Integrating Plastic Anisotropy into Metal Forming Simulations. <i>Advanced Engineering Materials</i> , 2002, 4, 169-180.  | 1.6 | 72        |
| 114 | Application of the Texture Component Crystal Plasticity Finite Element Method for Deep Drawing Simulations-A Comparison with Hill's Yield Criterion. <i>Advanced Engineering Materials</i> , 2002, 4, 221-223. | 1.6 | 2         |
| 115 | Development and application of constitutive equations for the multiple-stand hot rolling of Al-alloys. <i>Journal of Materials Processing Technology</i> , 2002, 123, 155-166.                                 | 3.1 | 25        |
| 116 | Theory of orientation gradients in plastically strained crystals. <i>Acta Materialia</i> , 2002, 50, 421-440.  | 3.8 | 195       |
| 117 | Application of a dislocation model for FE-process simulation. <i>Computational Materials Science</i> , 2001, 21, 1-8.  | 1.4 | 24        |
| 118 | A finite element method on the basis of texture components for fast predictions of anisotropic forming operations. <i>Steel Research = Archiv für Das Eisenhüttenwesen</i> , 2001, 72, 421-426.                | 0.2 | 21        |
| 119 | Spontaneous Dislocation Annihilation Explains the Breakdown of the Power Law of Steady State Deformation. <i>Physica Status Solidi A</i> , 2001, 184, 257-261.   | 1.7 | 8         |
| 120 | Micromechanical and macromechanical effects in grain scale polycrystal plasticity experimentation and simulation. <i>Acta Materialia</i> , 2001, 49, 3433-3441.  | 3.8 | 388       |
| 121 | Work hardening in heterogeneous alloys—a microstructural approach based on three internal state variables. <i>Acta Materialia</i> , 2000, 48, 4181-4189.   | 3.8 | 379       |
| 122 | Microstructure Evolution during Recrystallization in Dual-Phase Steels. <i>Materials Science Forum</i> , 0, 715-716, 13-22.  | 0.3 | 7         |