# Qingge Xie

## List of Publications by Year in descending order



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|---|---|---|---|
| 34 papers | 1,532 citations | 471509 17 h-index | 414414 32 g-index |
| 35 all docs | 35 docs citations | 35 times ranked | 1554 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Crystallographic orientation and spatially resolved damage for polycrystalline deformation of a high manganese steel. Acta Materialia, 2022, 226, 117628. | 7.9 | 10 |
| 2 | Self-equilibrated backstresses induce compensation between hardening and softening: Micromechanical and microstructural features. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 843, 143145. | 5.6 | 11 |
| 3 | Process parameter influence on deformation and recrystallization textures in Al alloys. IOP Conference Series: Materials Science and Engineering, 2021, 1121, 012046. | 0.6 | 1 |
| 4 | Assessment of Dislocation Density by Various Techniques in Cold Rolled 1050 Aluminum Alloy. Metals, 2021, 11, 1571. | 2.3 | 15 |
| 5 | Crystallographic orientation and spatially resolved damage in a dispersion-hardened Al alloy. Acta Materialia, 2020, 193, 138-150. | 7.9 | 33 |
| 6 | Microstructure-based fatigue modelling with residual stresses: Prediction of the fatigue life for various inclusion sizes. International Journal of Fatigue, 2019, 129, 105158. | 5.7 | 35 |
| 7 | Investigating the Difference in Mechanical Stability of Retained Austenite in Bainitic and Martensitic High-Carbon Bearing Steels using in situ Neutron Diffraction and Crystal Plasticity Modeling. Metals, 2019, 9, 482. | 2.3 | 7 |
| 8 | Multiscale mechanical fatigue damage of stainless steel investigated by neutron diffraction and X-ray microdiffraction. Acta Materialia, 2019, 165, 336-345. | 7.9 | 18 |
| 9 | Effects of the isotropic and anisotropic hardening within each grain on the evolution of the flow stress, the r-value and the deformation texture of tensile tests for AA6016 sheets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 721, 154-164. | 5.6 | 29 |
| 10 | In-situ neutron diffraction investigation on twinning/detwinning activities during tension-compression load reversal in a twinning induced plasticity steel. Scripta Materialia, 2018, 150, 168-172. | 5.2 | 30 |
| 11 | Applying neutron transmission physics and 3D statistical full-field model to understand 2D Bragg-edge imaging. Journal of Applied Physics, 2018, 123, . | 2.5 | 10 |
| 12 | The in-depth residual strain heterogeneities due to an indentation and a laser shock peening for Ti-6Al-4V titanium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 714, 140-145. | 5.6 | 20 |
| 13 | Grain Orientation Dependence of the Residual Lattice Strain in a Cold Rolled Interstitialâ€Free Steel. Steel Research International, 2018, 89, 1700408. | 1.8 | 12 |
| 14 | Unraveling submicron-scale mechanical heterogeneity by three-dimensional X-ray microdiffraction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 483-488. | 7.1 | 52 |
| 15 | In-situ neutron diffraction and crystal plasticity finite element modeling to study the kinematic stability of retained austenite in bearing steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 579-587. | 5.6 | 18 |
| 16 | Article I. Statistical models for deformation texture prediction using vortex-type accommodation of local strain misfits. IOP Conference Series: Materials Science and Engineering, 2018, 375, 012001. | 0.6 | 0 |
| 17 | The lattice strain ratio in characterizing the grain-to-grain interaction effect and its specific insight on the plastic deformation of polycrystalline materials. Journal of Strain Analysis for Engineering Design, 2018, 53, 353-363. | 1.8 | 16 |
| 18 | Transition from the twinning induced plasticity to the Î³-Îµ transformation induced plasticity in a high manganese steel. Acta Materialia, 2018, 161, 273-284. | 7.9 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Evaluation of crystallographic changes and plastic strain ratio in Al alloys. Materials Science and Technology, 2017, 33, 667-677. | 1.6 | 9 |
| 20 | In-situ neutron diffraction study on the tension-compression fatigue behavior of a twinning induced plasticity steel. Scripta Materialia, 2017, 137, 83-87. | 5.2 | 27 |
| 21 | Twinning-mediated work hardening and texture evolution in CrCoFeMnNi high entropy alloys at cryogenic temperature. Materials and Design, 2017, 131, 419-427. | 7.0 | 54 |
| 22 | In-situ Neutron Diffraction Analysis of Crystal Plasticity of Retained Austenite in Bearing Steel. Procedia Engineering, 2017, 207, 1958-1963. | 1.2 | 4 |
| 23 | Characterization of Crystallographic Structures Using Bragg-Edge Neutron Imaging at the Spallation Neutron Source. Journal of Imaging, 2017, 3, 65. | 3.0 | 31 |
| 24 | Strain hardening in Feâ€“16Mnâ€“10Alâ€“0.86Câ€“5Ni high specific strength steel. Acta Materialia, 2016, 109, 213-222. | 7.9 | 190 |
| 25 | A new cluster-type statistical model for the prediction of deformation textures. IOP Conference Series: Materials Science and Engineering, 2015, 82, 012015. | 0.6 | 0 |
| 26 | Effect of the grain shape on the q-value evolution of steel sheets. IOP Conference Series: Materials Science and Engineering, 2015, 82, 012096. | 0.6 | 1 |
| 27 | A new cluster-type model for the simulation of textures of polycrystalline metals. Acta Materialia, 2014, 69, 175-186. | 7.9 | 30 |
| 28 | Polycrystal plasticity models based on crystallographic and morphologic texture: Evaluation of predictions of plastic anisotropy and deformation texture. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 581, 66-72. | 5.6 | 21 |
| 29 | Strong morphological and crystallographic texture and resulting yield strength anisotropy in selective laser melted tantalum. Acta Materialia, 2013, 61, 4657-4668. | 7.9 | 492 |
| 30 | Anisotropic Sheet Forming Simulations Based on the ALAMEL Model: Application on Cup Deep Drawing and Ironing. , 2011, , . | | 1 |
| 31 | Dependence of deformation mechanisms on grain orientations and their changes calculated based on Sachs model in magnesium alloy AZ31. Frontiers of Materials Science in China, 2008, 2, 316-321. | 0.5 | 1 |
| 32 | Analyses on Compression Twins in Magnesium. Materials Transactions, 2008, 49, 710-714. | 1.2 | 28 |
| 33 | Dependence of deformation twinning on grain orientation in compressed high manganese steels. Scripta Materialia, 2007, 56, 931-934. | 5.2 | 105 |
| 34 | Dependence of deformation twinning on grain orientation in a high manganese steel. Scripta Materialia, 2006, 55, 629-631. | 5.2 | 203 |