Qingge Xie

List of Publications by Year
in descending order

34 papers	1,532 citations	471477 17 h-index	414395 32 g-index
35 all docs	35 docs citations	35 times ranked	1554 citing authors

#	Article	IF	Citations
1	Strong morphological and crystallographic texture and resulting yield strength anisotropy in selective laser melted tantalum. Acta Materialia, 2013, 61, 4657-4668.	7.9	492
2	Dependence of deformation twinning on grain orientation in a high manganese steel. Scripta Materialia, 2006, 55, 629-631.	5.2	203
3	Strain hardening in Feâ€“16Mnâ€“10Alâ€“0.86Câ€“5Ni high specific strength steel. Acta Materialia, 2016, 109, 213-222.	7.9	190
4	Dependence of deformation twinning on grain orientation in compressed high manganese steels. Scripta Materialia, 2007, 56, 931-934.	5.2	105
5	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
6	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
7	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
8	Crystallographic orientation and spatially resolved damage in a dispersion-hardened Al alloy. Acta Materialia, 2020, 193, 138-150.	7.9	33
9	Characterization of Crystallographic Structures Using Bragg-Edge Neutron Imaging at the Spallation Neutron Source. Journal of Imaging, 2017, 3, 65.	3.0	31
10	A new cluster-type model for the simulation of textures of polycrystalline metals. Acta Materialia, 2014, 69, 175-186.	7.9	30
11	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
12	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
13	Analyses on Compression Twins in Magnesium. Materials Transactions, 2008, 49, 710-714.	1.2	28
14	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
15	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
16	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
17	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
18	Multiscale mechanical fatigue damage of stainless steel investigated by neutron diffraction and X-ray microdiffraction. Acta Materialia, 2019, 165, 336-345.	7.9	18

#	Article	IF	Citations
19	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
20	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
21	Assessment of Dislocation Density by Various Techniques in Cold Rolled 1050 Aluminum Alloy. Metals, 2021, 11, 1571.	2.3	15
22	Grain Orientation Dependence of the Residual Lattice Strain in a Cold Rolled Interstitialâ€Free Steel. Steel Research International, 2018, 89, 1700408.	1.8	12
23	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
24	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
25	Crystallographic orientation and spatially resolved damage for polycrystalline deformation of a high manganese steel. Acta Materialia, 2022, 226, 117628.	7.9	10
26	Evaluation of crystallographic changes and plastic strain ratio in Al alloys. Materials Science and Technology, 2017, 33, 667-677.	1.6	9
27	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
28	In-situ Neutron Diffraction Analysis of Crystal Plasticity of Retained Austenite in Bearing Steel. Procedia Engineering, 2017, 207, 1958-1963.	1.2	4
29	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
30	Anisotropic Sheet Forming Simulations Based on the ALAMEL Model: Application on Cup Deep Drawing and Ironing. , 2011, , .		1
31	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
32	Process parameter influence on deformation and recrystallization textures in Al alloys. IOP Conference Series: Materials Science and Engineering, 2021, 1121, 012046.	0.6	1
33	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
34	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