Wolfgang Bleck

List of Publications by Year
in descending order

26	752	516710 16	610901 24
papers	citations	h-index	g-index

26	26	26	650
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Austenite transformation and deformation behavior of a cold-rolled medium-Mn steel under different annealing temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 829, 142115.	5.6	19
2	Material oriented crash-box design â€“ Combining structural and material design to improve specific energy absorption. Materials and Design, 2022, 213, 110357.	7.0	11
3	Dynamic and Static Strain Aging in a Highâ€Manganese Steel. Steel Research International, 2022, 93, .	1.8	3
4	Revealing the relation between microstructural heterogeneities and local mechanical properties of complex-phase steel by correlative electron microscopy and nanoindentation characterization. Materials and Design, 2021, 203, 109620.	7.0	33
5	New insights into the properties of high-manganese steel. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 782-796.	4.9	23
6	Compositional heterogeneity in multiphase steels: Characterization and influence on local properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 827, 142078.	5.6	14
7	Mechanism-controlled thermomechanical treatment of high manganese steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 828, 142056.	5.6	10
8	Criterion for microcrack resistance of multi-phase steels based on property gradient maps. CIRP Annals - Manufacturing Technology, 2021, 70, 243-246.	3.6	4
9	Phase boundary segregation-induced strengthening and discontinuous yielding in ultrafine-grained duplex medium-Mn steels. Acta Materialia, 2020, 200, 389-403.	7.9	70
10	Development of a Cr-Ni-V-N Medium Manganese Steel with Balanced Mechanical and Corrosion Properties. Metals, 2019, 9, 705.	2.3	27
11	Combined deformation twinning and short-range ordering causes serrated flow in high-manganese steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 746, 434-442.	5.6	26
12	Strain Rate Dependent Mechanical Properties of TWIP Steel. Jom, 2019, 71, 1291-1302.	1.9	23
13	Strain Aging Behavior of an Austenitic Highâ€Mn Steel. Steel Research International, 2018, 89, 1700515.	1.8	12
14	Ab Initio-Based Modelling of the Yield Strength in High-Manganese Steels. Metals, 2018, 8, 34.	2.3	13
15	Quantification of complex-phase steel microstructure by using combined EBSD and EPMA measurements. Materials Characterization, 2018, 142, 179-186.	4.4	45
16	On the Mnâ€“C Short-Range Ordering in a High-Strength High-Ductility Steel: Small Angle Neutron Scattering and Ab Initio Investigation. Metals, 2018, 8, 44.	2.3	20
17	Influence of Intercritical Annealing Temperature on Microstructure and Mechanical Properties of a Cold-Rolled Medium-Mn Steel. Metals, 2018, 8, 357.	2.3	32
18	The TRIP Effect and Its Application in Cold Formable Sheet Steels. Steel Research International, 2017, 88, 1700218.	1.8	121

#	Article	IF	Citations
19	Investigation of the Microstructure Evolution in a Fe-17Mn-1.5Al-0.3C Steel via In Situ Synchrotron X-ray Diffraction during a Tensile Test. Materials, 2017, 10, 1129.	2.9	32
20	On the applicability of recovery-annealed Twinning-Induced Plasticity steels: Potential and limitations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 74-84.	5.6	51
21	Impact of short-range ordering on yield strength of high manganese austenitic steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 614, 122-128.	5.6	48
22	Control of Strain Hardening Behavior in High-Mn Austenitic Steels. Acta Metallurgica Sinica (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.9	64
23	Influence of Strain Rate, Temperature, Plastic Strain, and Microstructure on the Strain Rate Sensitivity of Automotive Sheet Steels. Steel Research International, 2013, 84, 426-442.	1.8	24
24	Phase-field modelling of microstructure evolution during processing of cold-rolled dual phase steels. Integrating Materials and Manufacturing Innovation, 2012, 1, 19-31.	2.6	13
25	Influence of Martensite Distribution on the Mechanical Properties of Dual Phase Steels: Experiments and Simulation. , 2009, 80, 582.		12
26	Correlating the microstructural heterogeneity with local formability of coldâ€rolled DP and CP steels through hardness gradients. Steel Research International, 0, , .	1.8	2