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List of Publications by Year
in descending order

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35 papers	835 citations	516710 16 h-index	501196 28 g-index
37 all docs	37 docs citations	37 times ranked	903 citing authors

#	Article	IF	Citations
1	Simulation and measurement of residual stress and warpage in a HgCdTe-based infrared detector at 100ÂK. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 813, 141148.	5.6	3
2	Simple shear behavior and constitutive modeling of 304 stainless steel over a wide range of strain rates and temperatures. International Journal of Impact Engineering, 2021, 154, 103896.	5.0	18
3	In-situ mapping of local orientation and strain in a fully operable infrared sensor. Acta Materialia, 2021, 220, 117290.	7.9	3
4	Multilayer CdHgTe-based infrared detector: 2D/3D microtomography, synchrotron emission and finite element modelling with stress distribution at room temperature and 100ÂK. Materialia, 2020, 9, 100511.	2.7	2
5	Thermo-viscoplastic behavior of 304 austenitic stainless steel at various strain rates and temperatures: Testing, modeling and validation. International Journal of Mechanical Sciences, 2020, 170, 105356.	6.7	25
6	A novel technique for dynamic shear testing of bulk metals with application to 304 austenitic stainless steel. International Journal of Solids and Structures, 2020, 204-205, 153-171.	2.7	17
7	Microstructure and mechanical properties of high strength steel deposits obtained by Wire-Arc Additive Manufacturing. Journal of Materials Processing Technology, 2020, 285, 116759.	6.3	26
8	Perforation Behavior of 304 Stainless Steel Plates at Various Temperatures. Journal of Dynamic Behavior of Materials, 2019, 5, 416-431.	1.7	10
9	X-ray Diffraction Residual Stress Measurement at Room Temperature and 77ÂK in a Microelectronic Multi-layered Single-Crystal Structure Used for Infrared Detection. Journal of Electronic Materials, 2018, 47, 6641-6648.	2.2	3
10	Local behavior of an AISI 304 stainless steel submitted to in situ biaxial loading in SEM. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 690, 44-51.	5.6	17
11	Comparison of residual stresses on long rolled profiles measured by X-ray diffraction, ring core and the sectioning methods and simulated by FE method. Thin-Walled Structures, 2016, 104, 126-134.	5.3	22
12	Effect of projectile nose shape on ballistic resistance of interstitial-free steel sheets. International Journal of Impact Engineering, 2015, 79, 83-94.	5.0	41
13	Microstructure investigation and flow behavior during thixoextrusion of M2 steel grade. Journal of Materials Processing Technology, 2015, 216, 178-187.	6.3	20
14	Microstructure observation and quantification of the liquid fraction of M2 steel grade in the semi-solid state, combining confocal laser scanning microscopy and X-ray microtomography. Acta Materialia, 2014, 66, 118-131.	7.9	28
15	Strain resolution of scanning electron microscopy based Kossel microdiffraction. Journal of Applied Crystallography, 2014, 47, 1699-1707.	4.5	8
16	Ballistic behavior of steel sheet subjected to impact and perforation. Steel and Composite Structures, 2014, 16, 595-609.	1.3	19
17	Impact of Thermal Aging on the Microstructure Evolution and Mechanical Properties of Lanthanum-Doped Tin-Silver-Copper Lead-Free Solders. Journal of Electronic Materials, 2013, 42, 492-501.	2.2	26
18	Influence of projectile shape on dynamic behavior of steel sheet subjected to impact and perforation. Thin-Walled Structures, 2013, 65, 93-104.	5.3	83

#	Article	IF	Citations
19	Experimental and numerical analysis of the martensitic transformation in AISI 304 steel sheets subjected to perforation by conical and hemispherical projectiles. International Journal of Solids and Structures, 2013, 50, 339-351.	2.7	46
20	Lattice strain measurements using synchrotron diffraction to calibrate a micromechanical modeling in a ferriteâ€“cementite steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 561, 67-77.	5.6	21
21	Quantification and localization of the liquid zone of partially remelted M2 tool steel using X-ray microtomography and scanning electron microscopy. Acta Materialia, 2012, 60, 948-957.	7.9	14
22	A constitutive model for analyzing martensite formation in austenitic steels deforming at high strain rates. International Journal of Plasticity, 2012, 29, 77-101.	8.8	75
23	Estimation of the electron beam-induced specimen heating and the emitted X-rays spatial resolution by Kossel microdiffraction in a scanning electron microscope. Ultramicroscopy, 2012, 115, 115-119.	1.9	15
24	Development and mechanical characterization of porous titanium bone substitutes. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 9, 34-44.	3.1	145
25	Analysis of the strain induced martensitic transformation in austenitic steel subjected to dynamic perforation. EPJ Web of Conferences, 2012, 26, 04036.	0.3	3
26	Experimental study on the martensitic transformation in AISI 304 steel sheets subjected to tension under wide ranges of strain rate at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5974-5982.	5.6	61
27	Stress Analysis by Kossel Microdiffraction on a Nickel-Based Single Crystal Superalloy during an In Situ Tensile Test â€“ Comparison with Classical X-Ray Diffraction. Materials Science Forum, 2011, 681, 1-6.	0.3	1
28	Influence of Temperature on Stress Distribution in Bainitic Steels - Application to 16 MND5-A508 Pressure Vessel Steel. Materials Science Forum, 2011, 681, 243-248.	0.3	1
29	Experimental survey on the behaviour of AISI 304 steel sheets subjected to perforation. Thin-Walled Structures, 2010, 48, 966-978.	5.3	26
30	Thermo-mechanical behaviour of TRIP 1000 steel sheets subjected to low velocity perforation by conical projectiles at different temperatures. International Journal of Solids and Structures, 2010, 47, 1268-1284.	2.7	22
31	Three scale modeling of the behavior of a 16MND5-A508 bainitic steel: Stress distribution at low temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 527, 376-386.	5.6	8
32	Grain and phase stress criteria for behaviour and cleavage in duplex and bainitic steels. Fatigue and Fracture of Engineering Materials and Structures, 2006, 29, 685-696.	3.4	7
33	Inter- and Intragranular Stress Determination with Kossel Microdiffraction in a Scanning Electron Microscope. Materials Science Forum, 2006, 524-525, 109-114.	0.3	7
34	Determination of Quantity and Localization of Liquid in the Semi-Solid State Using both 3D X-Ray Microtomography and 2D Techniques for Steel Thixoforming. Solid State Phenomena, 0, 192-193, 191-196.	0.3	0
35	Application of X-Ray Microtomography to Quantify the Liquid Fraction of M2 Steel for Semi-Solid Forming Process. Key Engineering Materials, 0, 554-557, 547-552.	0.4	1