

Raphaël Pesci

List of Publications by Year in descending order

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papers

835
citations

516710

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501196

28
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37
all docs

37
docs citations

37
times ranked

903
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and mechanical characterization of porous titanium bone substitutes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 9, 34-44.	3.1	145
2	Influence of projectile shape on dynamic behavior of steel sheet subjected to impact and perforation. <i>Thin-Walled Structures</i> , 2013, 65, 93-104.	5.3	83
3	A constitutive model for analyzing martensite formation in austenitic steels deforming at high strain rates. <i>International Journal of Plasticity</i> , 2012, 29, 77-101.	8.8	75
4	Experimental study on the martensitic transformation in AISI 304 steel sheets subjected to tension under wide ranges of strain rate at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 5974-5982.	5.6	61
5	Experimental and numerical analysis of the martensitic transformation in AISI 304 steel sheets subjected to perforation by conical and hemispherical projectiles. <i>International Journal of Solids and Structures</i> , 2013, 50, 339-351.	2.7	46
6	Effect of projectile nose shape on ballistic resistance of interstitial-free steel sheets. <i>International Journal of Impact Engineering</i> , 2015, 79, 83-94.	5.0	41
7	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. <i>Acta Materialia</i> , 2014, 66, 118-131.	7.9	28
8	Experimental survey on the behaviour of AISI 304 steel sheets subjected to perforation. <i>Thin-Walled Structures</i> , 2010, 48, 966-978.	5.3	26
9	Impact of Thermal Aging on the Microstructure Evolution and Mechanical Properties of Lanthanum-Doped Tin-Silver-Copper Lead-Free Solders. <i>Journal of Electronic Materials</i> , 2013, 42, 492-501.	2.2	26
10	Microstructure and mechanical properties of high strength steel deposits obtained by Wire-Arc Additive Manufacturing. <i>Journal of Materials Processing Technology</i> , 2020, 285, 116759.	6.3	26
11	Thermo-viscoplastic behavior of 304 austenitic stainless steel at various strain rates and temperatures: Testing, modeling and validation. <i>International Journal of Mechanical Sciences</i> , 2020, 170, 105356.	6.7	25
12	Thermo-mechanical behaviour of TRIP 1000 steel sheets subjected to low velocity perforation by conical projectiles at different temperatures. <i>International Journal of Solids and Structures</i> , 2010, 47, 1268-1284.	2.7	22
13	Comparison of residual stresses on long rolled profiles measured by X-ray diffraction, ring core and the sectioning methods and simulated by FE method. <i>Thin-Walled Structures</i> , 2016, 104, 126-134.	5.3	22
14	Lattice strain measurements using synchrotron diffraction to calibrate a micromechanical modeling in a ferrite-cementite steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 561, 67-77.	5.6	21
15	Microstructure investigation and flow behavior during thixoextrusion of M2 steel grade. <i>Journal of Materials Processing Technology</i> , 2015, 216, 178-187.	6.3	20
16	Ballistic behavior of steel sheet subjected to impact and perforation. <i>Steel and Composite Structures</i> , 2014, 16, 595-609.	1.3	19
17	Simple shear behavior and constitutive modeling of 304 stainless steel over a wide range of strain rates and temperatures. <i>International Journal of Impact Engineering</i> , 2021, 154, 103896.	5.0	18
18	Local behavior of an AISI 304 stainless steel submitted to in situ biaxial loading in SEM. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 690, 44-51.	5.6	17

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19	A novel technique for dynamic shear testing of bulk metals with application to 304 austenitic stainless steel. <i>International Journal of Solids and Structures</i> , 2020, 204-205, 153-171.	2.7	17
20	Estimation of the electron beam-induced specimen heating and the emitted X-rays spatial resolution by Kossel microdiffraction in a scanning electron microscope. <i>Ultramicroscopy</i> , 2012, 115, 115-119.	1.9	15
21	Quantification and localization of the liquid zone of partially remelted M2 tool steel using X-ray microtomography and scanning electron microscopy. <i>Acta Materialia</i> , 2012, 60, 948-957.	7.9	14
22	Perforation Behavior of 304 Stainless Steel Plates at Various Temperatures. <i>Journal of Dynamic Behavior of Materials</i> , 2019, 5, 416-431.	1.7	10
23	Three scale modeling of the behavior of a 16MND5-A508 bainitic steel: Stress distribution at low temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 527, 376-386.	5.6	8
24	Strain resolution of scanning electron microscopy based Kossel microdiffraction. <i>Journal of Applied Crystallography</i> , 2014, 47, 1699-1707.	4.5	8
25	Grain and phase stress criteria for behaviour and cleavage in duplex and bainitic steels. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2006, 29, 685-696.	3.4	7
26	Inter- and Intragranular Stress Determination with Kossel Microdiffraction in a Scanning Electron Microscope. <i>Materials Science Forum</i> , 2006, 524-525, 109-114.	0.3	7
27	X-ray Diffraction Residual Stress Measurement at Room Temperature and 77ÅK in a Microelectronic Multi-layered Single-Crystal Structure Used for Infrared Detection. <i>Journal of Electronic Materials</i> , 2018, 47, 6641-6648.	2.2	3
28	Simulation and measurement of residual stress and warpage in a HgCdTe-based infrared detector at 100ÅK. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 813, 141148.	5.6	3
29	In-situ mapping of local orientation and strain in a fully operable infrared sensor. <i>Acta Materialia</i> , 2021, 220, 117290.	7.9	3
30	Analysis of the strain induced martensitic transformation in austenitic steel subjected to dynamic perforation. <i>EPJ Web of Conferences</i> , 2012, 26, 04036.	0.3	3
31	Multilayer CdHgTe-based infrared detector: 2D/3D microtomography, synchrotron emission and finite element modelling with stress distribution at room temperature and 100ÅK. <i>Materialia</i> , 2020, 9, 100511.	2.7	2
32	Stress Analysis by Kossel Microdiffraction on a Nickel-Based Single Crystal Superalloy during an <i>In Situ</i> Tensile Test – Comparison with Classical X-Ray Diffraction. <i>Materials Science Forum</i> , 2011, 681, 1-6.	0.3	1
33	Influence of Temperature on Stress Distribution in Bainitic Steels - Application to 16 MND5-A508 Pressure Vessel Steel. <i>Materials Science Forum</i> , 2011, 681, 243-248.	0.3	1
34	Application of X-Ray Microtomography to Quantify the Liquid Fraction of M2 Steel for Semi-Solid Forming Process. <i>Key Engineering Materials</i> , 0, 554-557, 547-552.	0.4	1
35	Determination of Quantity and Localization of Liquid in the Semi-Solid State Using both 3D X-Ray Microtomography and 2D Techniques for Steel Thixoforming. <i>Solid State Phenomena</i> , 0, 192-193, 191-196.	0.3	0