

Fabio Di Gioacchino

List of Publications by Year in descending order

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papers

763
citations

623734

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16
times ranked

557
citing authors

#	ARTICLE	IF	CITATIONS
1	High resolution digital image correlation mapping of strain localization upon room and high temperature, high cycle fatigue of a TiAl intermetallic alloy. <i>International Journal of Fatigue</i> , 2021, 142, 105905.	5.7	18
2	On the extraction of yield stresses from micro-compression experiments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 800, 140323.	5.6	9
3	A new mechanism of strain transfer in polycrystals. <i>Scientific Reports</i> , 2020, 10, 10082.	3.3	14
4	Crystal plasticity analysis of deformation anisotropy of lamellar TiAl alloy: 3D microstructure-based modelling and in-situ micro-compression. <i>International Journal of Plasticity</i> , 2019, 119, 344-360.	8.8	55
5	Slip bands in lamellar TiAl during high cycle fatigue microcompression by correlative total strain mapping, diffraction orientation mapping and transmission electron imaging. <i>International Journal of Fatigue</i> , 2019, 124, 520-527.	5.7	16
6	An experimental study of the polycrystalline plasticity of lamellar titanium aluminide. <i>International Journal of Plasticity</i> , 2019, 118, 291-319.	8.8	28
7	Transverse deformation of a lamellar TiAl alloy at high temperature by in situ microcompression. <i>Acta Materialia</i> , 2019, 166, 85-99.	7.9	41
8	Deformation of lamellar β -TiAl below the general yield stress. <i>Acta Materialia</i> , 2019, 163, 122-139.	7.9	24
9	Longitudinal twinning in a TiAl alloy at high temperature by in situ microcompression. <i>Acta Materialia</i> , 2018, 148, 202-215.	7.9	54
10	Reduced partitioning of plastic strain for strong and yet ductile precipitate-strengthened alloys. <i>Scientific Reports</i> , 2018, 8, 8698.	3.3	7
11	The interaction of borides and longitudinal twinning in polycrystalline TiAl alloys. <i>Acta Materialia</i> , 2017, 140, 305-316.	7.9	31
12	Stable Speckle Patterns for Nano-scale Strain Mapping up to 700°C. <i>Experimental Mechanics</i> , 2017, 57, 1469-1482.	2.0	31
13	Deformation of lamellar TiAl alloys by longitudinal twinning. <i>Scripta Materialia</i> , 2016, 118, 46-50.	5.2	49
14	An experimental study of the polycrystalline plasticity of austenitic stainless steel. <i>International Journal of Plasticity</i> , 2015, 74, 92-109.	8.8	154
15	Mapping deformation in small-scale testing. <i>Acta Materialia</i> , 2014, 78, 103-113.	7.9	40
16	Plastic Strain Mapping with Sub-micron Resolution Using Digital Image Correlation. <i>Experimental Mechanics</i> , 2013, 53, 743-754.	2.0	192