

Janine Pfetzing-Micklich

List of Publications by Year in descending order

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papers

710
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g-index

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all docs

27
docs citations

27
times ranked

716
citing authors

#	ARTICLE	IF	CITATIONS
1	Impurity levels and fatigue lives of pseudoelastic NiTi shape memory alloys. <i>Acta Materialia</i> , 2013, 61, 3667-3686.	3.8	145
2	On the crystallographic anisotropy of nanoindentation in pseudoelastic NiTi. <i>Acta Materialia</i> , 2013, 61, 602-616.	3.8	66
3	Orientation dependence of stress-induced phase transformation and dislocation plasticity in NiTi shape memory alloys on the micro scale. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 538, 265-271.	2.6	57
4	Orientation dependence of stress-induced martensite formation during nanoindentation in NiTi shape memory alloys. <i>Acta Materialia</i> , 2014, 68, 19-31.	3.8	45
5	Sudden stress-induced transformation events during nanoindentation of NiTi shape memory alloys. <i>Acta Materialia</i> , 2014, 78, 144-160.	3.8	44
6	Microshear deformation of gold single crystals. <i>Acta Materialia</i> , 2014, 62, 225-238.	3.8	41
7	Rapid Identification of Areas of Interest in Thin Film Materials Libraries by Combining Electrical, Optical, X-ray Diffraction, and Mechanical High-Throughput Measurements: A Case Study for the System Ni-Al. <i>ACS Combinatorial Science</i> , 2014, 16, 686-694.	3.8	37
8	Nanoindentation of a Pseudoelastic NiTiFe Shape Memory Alloy. <i>Advanced Engineering Materials</i> , 2010, 12, 13-19.	1.6	34
9	Axial torsional thermomechanical fatigue of a near- β TiAl-alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 3829-3839.	2.6	32
10	Thickness-dependence of the B2-B19 martensitic transformation in nanoscale shape memory alloy thin films: Zero-hysteresis in 75nm thick Ti ₅₁ Ni ₃₈ Cu ₁₁ thin films. <i>Acta Materialia</i> , 2012, 60, 306-313.	3.8	30
11	TEM observation of stress-induced martensite after nanoindentation of pseudoelastic Ti ₅₀ Ni ₄₈ Fe ₂ . <i>Scripta Materialia</i> , 2008, 58, 743-746.	2.6	22
12	Nanoindentation of pseudoelastic NiTi shape memory alloys: Thermomechanical and microstructural aspects. <i>International Journal of Materials Research</i> , 2009, 100, 936-942.	0.1	22
13	Assessment of strain hardening in copper single crystals using in situ SEM microshear experiments. <i>Acta Materialia</i> , 2016, 113, 320-334.	3.8	20
14	Direct microstructural evidence for the stress induced formation of martensite during nanoindentation of NiTi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 591, 33-37.	2.6	16
15	Investigation of the Thin Film Phase Diagram of the Cr-Ni System by High-Throughput Experimentation. <i>Advanced Engineering Materials</i> , 2014, 16, 588-593.	1.6	14
16	Mechanical properties of SiLi _x thin films at different stages of electrochemical Li insertion. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2650-2656.	0.8	13
17	Microshear deformation of pure copper. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2011, 42, 219-223.	0.5	12
18	Identification of a ternary γ -phase in the Co-Ti-W system - An advanced correlative thin-film and bulk combinatorial materials investigation. <i>Acta Materialia</i> , 2017, 138, 100-110.	3.8	12

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19	Microstructural anisotropy, uniaxial and biaxial creep behavior of Ti-45Al-5Nb-0.2B-0.2C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 510-511, 368-372.	2.6	10
20	Si micro-cantilever sensor chips for space-resolved stress measurements in physical and plasma-enhanced chemical vapour deposition. <i>Sensors and Actuators A: Physical</i> , 2018, 270, 271-277.	2.0	9
21	Investigation of Optical, Electrical, and Mechanical Properties of MOCVD-grown ZrO ₂ Films. <i>Chemical Vapor Deposition</i> , 2014, 20, 320-327.	1.4	6
22	Nanoindentation of Ti50Ni48Fe2 and Ti50Ni40Cu10 shape memory alloys. <i>International Journal of Materials Research</i> , 2009, 100, 594-602.	0.1	5
23	The effect of notches on the fatigue behavior in NiTi shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 610, 188-196.	2.6	5
24	TEM investigation of the microstructural evolution during nanoindentation of NiTi. , 2009, , .		5
25	Investigation of ternary subsystems of superalloys by thin-film combinatorial synthesis and high-throughput analysis. <i>MATEC Web of Conferences</i> , 2014, 14, 18002.	0.1	3
26	Experimental and Theoretical Investigation on Phase Formation and Mechanical Properties in Cr-Co-Ni Alloys Processed Using a Novel Thin-Film Quenching Technique. <i>ACS Combinatorial Science</i> , 2020, 22, 232-247.	3.8	3
27	Composition-Structure-Property Relations in Au35-68Cu49-15Al16-17 Shape Memory Thin Films. <i>Shape Memory and Superelasticity</i> , 2016, 2, 80-85.	1.1	2