

Mauro Callisti

List of Publications by Year in descending order

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26
papers

887
citations

430874

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580821

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26
docs citations

26
times ranked

1128
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic metal-support interaction enhanced oxygen reduction activity and stability of boron carbide supported platinum. <i>Nature Communications</i> , 2017, 8, 15802.	12.8	166
2	Microstructural evolution of helium-irradiated 6H-SiC subjected to different irradiation conditions and annealing temperatures: A multiple characterization study. <i>Acta Materialia</i> , 2019, 181, 160-172.	7.9	70
3	The structural evolution of light-ion implanted 6H-SiC single crystal: Comparison of the effect of helium and hydrogen. <i>Acta Materialia</i> , 2020, 188, 609-622.	7.9	66
4	Bubbles formation in helium ion irradiated Cu/W multilayer nanocomposites: Effects on structure and mechanical properties. <i>Journal of Nuclear Materials</i> , 2016, 473, 18-27.	2.7	56
5	Combined size and texture-dependent deformation and strengthening mechanisms in Zr/Nb nano-multilayers. <i>Acta Materialia</i> , 2017, 124, 247-260.	7.9	53
6	Microstructure and mechanical properties of physical vapor deposited Cu/W nanoscale multilayers: Influence of layer thickness and temperature. <i>Thin Solid Films</i> , 2014, 571, 275-282.	1.8	51
7	Quantification of hydrogen trapping in multiphase steels: Part I – Point traps in martensite. <i>Acta Materialia</i> , 2020, 194, 118-133.	7.9	45
8	Length-scale-dependent mechanical behaviour of Zr/Nb multilayers as a function of individual layer thickness. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 632, 137-146.	5.6	36
9	Study on the crack resistance of CrBN composite coatings via nano-indentation and scratch tests. <i>Journal of Alloys and Compounds</i> , 2017, 708, 1103-1109.	5.5	35
10	2H ⁺ 1T Phase Engineering of Layered Tantalum Disulfides in Electrocatalysis: Oxygen Reduction Reaction. <i>Chemistry - A European Journal</i> , 2017, 23, 8082-8091.	3.3	33
11	Revealing nanoscale strain mechanisms in ion-irradiated multilayers. <i>Acta Materialia</i> , 2022, 229, 117807.	7.9	31
12	Selective oxidation-induced strengthening of Zr/Nb nanoscale multilayers. <i>Acta Materialia</i> , 2017, 122, 1-10.	7.9	30
13	Characterizing heavy ions-irradiated Zr/Nb: Structure and mechanical properties. <i>Materials and Design</i> , 2022, 219, 110732.	7.0	26
14	Structural and mechanical properties of ¹³ Ir-irradiated Zr/Nb multilayer nanocomposites. <i>Materials Letters</i> , 2016, 163, 138-141.	2.6	23
15	Competing mechanisms on the strength of ion-irradiated Zr/Nb nanoscale multilayers: Interface strength versus radiation hardening. <i>Scripta Materialia</i> , 2018, 152, 31-35.	5.2	22
16	Interphase boundary layer-dominated strain mechanisms in Cu+ implanted Zr-Nb nanoscale multilayers. <i>Acta Materialia</i> , 2021, 202, 317-330.	7.9	21
17	Evolution of structural, mechanical and tribological properties of Ni-P/MWCNT coatings as a function of annealing temperature. <i>Surface and Coatings Technology</i> , 2016, 302, 195-201.	4.8	20
18	Indentation response of a NiTi shape memory alloy: modeling and experiments. <i>Frattura Ed Integrità Strutturale</i> , 2012, 6, 5-12.	0.9	19

#	ARTICLE	IF	CITATIONS
19	Effects of Cu on the microstructural and mechanical properties of sputter deposited Ni-Ti thin films. Surface and Coatings Technology, 2013, 237, 261-268.	4.8	18
20	Effect of layer thickness on the mechanical behaviour of oxidation-strengthened Zr/Nb nanoscale multilayers. Journal of Materials Science, 2018, 53, 5860-5878.	3.7	17
21	Fracture toughness and sliding properties of magnetron sputtered CrBC and CrBCN coatings. Applied Surface Science, 2018, 443, 635-643.	6.1	15
22	Parylene C topographic micropattern as a template for patterning PDMS and Polyacrylamide hydrogel. Scientific Reports, 2017, 7, 5764.	3.3	12
23	Interface-Driven Strain in Heavy Ion-Irradiated Zr/Nb Nanoscale Metallic Multilayers: Validation of Distortion Modeling via Local Strain Mapping. ACS Applied Materials & Interfaces, 2022, 14, 12777-12796.	8.0	11
24	Toughening mechanisms in V-Si-N coatings. Materials and Design, 2021, 209, 109961.	7.0	10
25	Failure of Solid Lubricant W-S-C Coatings under Boundary Lubrication Conditions. Journal of Materials Engineering and Performance, 2021, 30, 3990-3999.	2.5	1
26	Effect of implantation of C, Si and Cu into ZrNb nanometric multilayers. , 2019, , .		0