

# Mauro Callisti

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2050492/publications.pdf>

Version: 2024-02-01

26  
papers

887  
citations

430874

18  
h-index

580821

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1128  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Revealing nanoscale strain mechanisms in ion-irradiated multilayers. Acta Materialia, 2022, 229, 117807.	7.9	31
3	Characterizing heavy ions-irradiated Zr/Nb: Structure and mechanical properties. Materials and Design, 2022, 219, 110732.	7.0	26
4	Interphase boundary layer-dominated strain mechanisms in Cu+ implanted Zr-Nb nanoscale multilayers. Acta Materialia, 2021, 202, 317-330.	7.9	21
5	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
6	Toughening mechanisms in V-Si-N coatings. Materials and Design, 2021, 209, 109961.	7.0	10
7	Quantification of hydrogen trapping in multiphase steels: Part I – Point traps in martensite. Acta Materialia, 2020, 194, 118-133.	7.9	45
8	The structural evolution of light-ion implanted 6H-SiC single crystal: Comparison of the effect of helium and hydrogen. Acta Materialia, 2020, 188, 609-622.	7.9	66
9	Microstructural evolution of helium-irradiated 6H-SiC subjected to different irradiation conditions and annealing temperatures: A multiple characterization study. Acta Materialia, 2019, 181, 160-172.	7.9	70
10	Effect of implantation of C, Si and Cu into ZrNb nanometric multilayers. , 2019, , .		0
11	Competing mechanisms on the strength of ion-irradiated Zr/Nb nanoscale multilayers: Interface strength versus radiation hardening. Scripta Materialia, 2018, 152, 31-35.	5.2	22
12	Fracture toughness and sliding properties of magnetron sputtered CrBC and CrBCN coatings. Applied Surface Science, 2018, 443, 635-643.	6.1	15
13	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
14	2Hâ€™1T Phase Engineering of Layered Tantalum Disulfides in Electrocatalysis: Oxygen Reduction Reaction. Chemistry - A European Journal, 2017, 23, 8082-8091.	3.3	33
15	Electronic metal-support interaction enhanced oxygen reduction activity and stability of boron carbide supported platinum. Nature Communications, 2017, 8, 15802.	12.8	166
16	Study on the crack resistance of CrBN composite coatings via nano-indentation and scratch tests. Journal of Alloys and Compounds, 2017, 708, 1103-1109.	5.5	35
17	Parylene C topographic micropattern as a template for patterning PDMS and Polyacrylamide hydrogel. Scientific Reports, 2017, 7, 5764.	3.3	12
18	Combined size and texture-dependent deformation and strengthening mechanisms in Zr/Nb nano-multilayers. Acta Materialia, 2017, 124, 247-260.	7.9	53

#	ARTICLE	IF	CITATIONS
19	Selective oxidation-induced strengthening of Zr/Nb nanoscale multilayers. <i>Acta Materialia</i> , 2017, 122, 1-10.	7.9	30
20	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
21	Structural and mechanical properties of $\hat{\Gamma}^3$ -irradiated Zr/Nb multilayer nanocomposites. <i>Materials Letters</i> , 2016, 163, 138-141.	2.6	23
22	Evolution of structural, mechanical and tribological properties of Niâ€P/MWCNT coatings as a function of annealing temperature. <i>Surface and Coatings Technology</i> , 2016, 302, 195-201.	4.8	20
23	Length-scale-dependent mechanical behaviour of Zr/Nb multilayers as a function of individual layer thickness. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 632, 137-146.	5.6	36
24	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
25	Effects of Cu on the microstructural and mechanical properties of sputter deposited Ni-Ti thin films. <i>Surface and Coatings Technology</i> , 2013, 237, 261-268.	4.8	18
26	Indentation response of a NiTi shape memory alloy: modeling and experiments. <i>Frattura Ed Integrita Strutturale</i> , 2012, 6, 5-12.	0.9	19