Jacobus Sturm

List of Publications by Year
in descending order

33	379	840776 11	794594 19
papers	citations	h-index	g-index

33	33	33	566
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Post deposition nitridation of Si in W/Si soft X-ray multilayer systems. Thin Solid Films, 2021, 725, 138601.	1.8	3
2	Nb Texture Evolution and Interdiffusion in Nb/Si-Layered Systems. ACS Applied Materials & Interfaces, 2021, 13, 31260-31270.	8.0	2
3	Room temperature oxygen exchange and diffusion in nanometer-thick ZrO2 and MoO3 films. Applied Surface Science, 2021, 550, 149384.	6.1	3
4	Dual modulation STM: Simultaneous high-resolution mapping of the differential conductivity and local tunnel barrier height demonstrated on Au(111). Journal of Applied Physics, 2021, 129, 225301.	2.5	0
5	Oxidation kinetics of transition metals exposed to molecular and atomic oxygen. Materialia, 2021, 20, 101203.	2.7	7
6	Sputtering and nitridation of transition metal surfaces under low energy, steady state nitrogen ion bombardment. Applied Surface Science, 2020, 505, 144529.	6.1	12
7	The influence of oxygen on the neutralization of slow helium ions scattered from transition metals and aluminum surfaces. Surface Science, 2020, 700, 121680.	1.9	5
8	Hydrogen diffusion through Ru thin films. International Journal of Hydrogen Energy, 2020, 45, 15003-15010.	7.1	7
9	Near-threshold, steady state interaction of oxygen ions with transition metals: Sputtering and radiation enhanced diffusion. Applied Surface Science, 2020, 518, 146143.	6.1	4
10	W/B short period multilayer structures for soft x-rays. AIP Advances, 2020, 10, 045305.	1.3	12
11	Comparative H diffusion measurement through metal and non-metal nano-layers using optical sensing. Journal Physics D: Applied Physics, 2020, 53, 385302.	2.8	2
12	Hydrogenation dynamics of Ru capped Y thin films. Journal of Applied Physics, 2019, 126, 145301.	2.5	3
13	Oxidation of metal thin films by atomic oxygen: A low energy ion scattering study. Journal of Applied Physics, 2019, 126, .	2.5	11
14	Atomic H diffusion and C etching in multilayer graphene monitored using a Y based optical sensor. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 051801.	1.2	2
15	Grazing-Incidence La/B-Based Multilayer Mirrors for 6.x nm Wavelength. Journal of Nanoscience and Nanotechnology, 2019, 19, 585-592.	0.9	6
16	Nanoscale Transition Metal Thin Films: Growth Characteristics and Scaling Law for Interlayer Formation. ACS Applied Materials & Interfaces, 2019, 11, 46311-46326.	8.0	16
17	Extreme UV secondary electron yield measurements of Ru, Sn, and Hf oxide thin films. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2019, 18, 1.	0.9	2
18	Control of YH3 formation and stability via hydrogen surface adsorption and desorption. Applied Surface Science, 2018, 455, 70-74.	6.1	8

#	Article	IF	Citations
19	Characterization of Self-Assembled Monolayers on a Ruthenium Surface. Langmuir, 2017, 33, 6419-6426.	3.5	14
20	Coexistence of ice clusters and liquid-like water clusters on the Ru(0001) surface. Physical Chemistry Chemical Physics, 2017, 19, 8288-8299.	2.8	2
21	Intermixing and thermal oxidation of ZrO2 thin films grown on a-Si, SiN, and SiO2 by metallic and oxidic mode magnetron sputtering. Journal of Applied Physics, 2017, 121, 115303.	2.5	9
22	Adsorption and Dissociation of CO₂ on Ru(0001). Journal of Physical Chemistry C, 2017, 121, 6729-6735.	3.1	28
23	Metal diffusion properties of ultra-thin high-k Sc₂O₃ films. AIP Advances, 2017, 7, 105324.	1.3	7
24	Thermal stability of high-reflectance La/B-based multilayers for 6.x nm wavelength. Journal of Applied Physics, 2017, 122, 125302.	2.5	2
25	Tin etching from metallic and oxidized scandium thin films. AIP Advances, 2017, 7, 085107.	1.3	2
26	Electronegativity-dependent tin etching from thin films. AIP Advances, 2016, 6, .	1.3	13
27	Structure of high-reflectance La/B-based multilayer mirrors with partial La nitridation. AIP Advances, 2016, 6, 115117.	1.3	10
28	Versailles Project on Advanced Materials and Standards Interlaboratory Study on Measuring the Thickness and Chemistry of Nanoparticle Coatings Using XPS and LEIS. Journal of Physical Chemistry C, 2016, 120, 24070-24079.	3.1	33
29	In vacuo growth studies of Ru thin films on Si, SiN, and SiO2 by high-sensitivity low energy ion scattering. Journal of Applied Physics, 2016, 120, .	2.5	14
30	Influence of the surface oxide content of a boron capping layer on UV photodetector performance. , 2015, , .		1
31	High-reflectance La/B-based multilayer mirror for 6xâ€‰â€‰nm wavelength. Optics Letters, 2015, 40, 3778.	3.3	45
32	Well-Ordered Molybdenum Oxide Layers on Au(111): Preparation and Properties. Journal of Physical Chemistry C, 2013, 117, 8746-8757.	3.1	39
33	Well-Ordered V₂O₅(001) Thin Films on Au(111): Growth and Thermal Stability. Journal of Physical Chemistry C, 2008, 112, 11835-11846.	3.1	55