

Jacobus Sturm

List of Publications by Year in descending order

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33
papers

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840776

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citing authors

#	ARTICLE	IF	CITATIONS
1	Well-Ordered $V_{2}O_{5}$ (001) Thin Films on Au(111): Growth and Thermal Stability. Journal of Physical Chemistry C, 2008, 112, 11835-11846.	3.1	55
2	High-reflectance La/B-based multilayer mirror for 6xâ€‰%â€‰nm wavelength. Optics Letters, 2015, 40, 3778.	3.3	45
3	Well-Ordered Molybdenum Oxide Layers on Au(111): Preparation and Properties. Journal of Physical Chemistry C, 2013, 117, 8746-8757.	3.1	39
4	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
5	Adsorption and Dissociation of CO_{2} on Ru(0001). Journal of Physical Chemistry C, 2017, 121, 6729-6735.	3.1	28
6	Nanoscale Transition Metal Thin Films: Growth Characteristics and Scaling Law for Interlayer Formation. ACS Applied Materials & Interfaces, 2019, 11, 46311-46326.	8.0	16
7	<i>in vacuo</i> growth studies of Ru thin films on Si, SiN, and SiO ₂ by high-sensitivity low energy ion scattering. Journal of Applied Physics, 2016, 120, .	2.5	14
8	Characterization of Self-Assembled Monolayers on a Ruthenium Surface. Langmuir, 2017, 33, 6419-6426.	3.5	14
9	Electronegativity-dependent tin etching from thin films. AIP Advances, 2016, 6, .	1.3	13
10	Sputtering and nitridation of transition metal surfaces under low energy, steady state nitrogen ion bombardment. Applied Surface Science, 2020, 505, 144529.	6.1	12
11	W/B short period multilayer structures for soft x-rays. AIP Advances, 2020, 10, 045305.	1.3	12
12	Oxidation of metal thin films by atomic oxygen: A low energy ion scattering study. Journal of Applied Physics, 2019, 126, .	2.5	11
13	Structure of high-reflectance La/B-based multilayer mirrors with partial La nitridation. AIP Advances, 2016, 6, 115117.	1.3	10
14	Intermixing and thermal oxidation of ZrO ₂ thin films grown on a-Si, SiN, and SiO ₂ by metallic and oxidic mode magnetron sputtering. Journal of Applied Physics, 2017, 121, 115303.	2.5	9
15	Control of YH ₃ formation and stability via hydrogen surface adsorption and desorption. Applied Surface Science, 2018, 455, 70-74.	6.1	8
16	Metal diffusion properties of ultra-thin high-k $Sc_{2}O_{3}$ films. AIP Advances, 2017, 7, 105324.	1.3	7
17	Hydrogen diffusion through Ru thin films. International Journal of Hydrogen Energy, 2020, 45, 15003-15010.	7.1	7
18	Oxidation kinetics of transition metals exposed to molecular and atomic oxygen. Materialia, 2021, 20, 101203.	2.7	7

#	ARTICLE	IF	CITATIONS
19	Grazing-Incidence La/B-Based Multilayer Mirrors for 6.x nm Wavelength. Journal of Nanoscience and Nanotechnology, 2019, 19, 585-592.	0.9	6
20	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
21	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
22	Hydrogenation dynamics of Ru capped Y thin films. Journal of Applied Physics, 2019, 126, 145301.	2.5	3
23	Post deposition nitridation of Si in W/Si soft X-ray multilayer systems. Thin Solid Films, 2021, 725, 138601.	1.8	3
24	Room temperature oxygen exchange and diffusion in nanometer-thick ZrO ₂ and MoO ₃ films. Applied Surface Science, 2021, 550, 149384.	6.1	3
25	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
26	Thermal stability of high-reflectance La/B-based multilayers for 6.x nm wavelength. Journal of Applied Physics, 2017, 122, 125302.	2.5	2
27	Tin etching from metallic and oxidized scandium thin films. AIP Advances, 2017, 7, 085107.	1.3	2
28	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
29	Nb Texture Evolution and Interdiffusion in Nb/Si-Layered Systems. ACS Applied Materials & Interfaces, 2021, 13, 31260-31270.	8.0	2
30	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
31	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
32	Influence of the surface oxide content of a boron capping layer on UV photodetector performance. , 2015, , .		1
33	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