

Noah Shamir

List of Publications by Year in descending order

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40
papers

522
citations

623734

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21
g-index

41
all docs

41
docs citations

41
times ranked

274
citing authors

#	ARTICLE	IF	CITATIONS
1	Site related nucleation and growth of hydrides on uranium surfaces. Journal of Alloys and Compounds, 1996, 244, 197-205.	5.5	68
2	Physical discontinuities in the surface microstructure of uranium alloys as preferred sites for hydrogen attack. Journal of Nuclear Materials, 1996, 230, 181-186.	2.7	39
3	Interaction of oxygen and copper on a W(110) surface. Surface Science, 1988, 206, 61-85.	1.9	34
4	The adsorption of H ₂ O vs O ₂ on beryllium. Surface Science, 1997, 385, 318-327.	1.9	30
5	Oxidation of ion-bombarded vs. annealed beryllium. Surface Science, 2002, 513, 501-510.	1.9	28
6	The effect of N ₂ ⁺ and C ⁺ implantation on uranium hydride nucleation and growth kinetics. Journal of Alloys and Compounds, 2002, 330-332, 472-475.	5.5	23
7	Initial adsorption kinetics of oxygen on polycrystalline copper. Surface Science, 1987, 185, 413-430.	1.9	21
8	Interaction of oxygen and palladium on a tungsten (110) surface. Surface Science, 1989, 216, 49-62.	1.9	21
9	Interactions of water vapor with polycrystalline uranium surfaces. Surface Science, 2006, 600, 657-664.	1.9	17
10	Heat pretreatment-induced activation of gadolinium surfaces towards the initial precipitation of hydrides. Journal of Alloys and Compounds, 2010, 498, 26-29.	5.5	17
11	Heat-induced redistribution of surface oxide in uranium. Journal of Nuclear Materials, 1990, 173, 87-97.	2.7	16
12	Surface Oxidation of TiNiSn (Half-Heusler) Alloy by Oxygen and Water Vapor. Materials, 2018, 11, 2296.	2.9	16
13	The interaction of nitrogen and copper on a W(110) surface. Surface Science, 1989, 214, 74-84.	1.9	14
14	Water vapor interactions with polycrystalline titanium surfaces. Surface Science, 1999, 422, 141-153.	1.9	14
15	The initial interactions of beryllium with O ₂ and H ₂ O vapor at elevated temperatures. Surface Science, 2007, 601, 1326-1332.	1.9	13
16	Initial oxidation of TiFe _{1-x} Mnx (x=0-0.3) by low dose exposures to H ₂ O and O ₂ . Journal of Alloys and Compounds, 2014, 610, 6-10.	5.5	13
17	The use of direct recoil spectrometry (DRS) for the study of water vapor interactions on polycrystalline metallic surfaces—the H ₂ O/U and H ₂ O/Ti systems. Applied Surface Science, 2005, 252, 633-640.	6.1	12
18	Interrelations between planes affecting adsorption kinetics on polycrystalline surfaces: Oxygen adsorption on copper. Physical Review Letters, 1987, 59, 90-93.	7.8	11

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19	Hydrogen-oxygen accumulation on polycrystalline uranium surfaces. Surface Science, 1989, 223, 607-620.	1.9	11
20	Catalysis, by amorphous carbon, of H ₂ attack on oxidized U-0.1wt% Cr surfaces. Applied Surface Science, 2007, 253, 5957-5960.	6.1	10
21	Temperature dependent interactions of water vapor with a beryllium surface. Surface Science, 2003, 529, 189-196.	1.9	9
22	Water chemisorption on a sputter deposited uranium dioxide film – Effect of defects. Solid State Ionics, 2014, 263, 39-45.	2.7	9
23	Effects of preadsorbed hydrogen on the adsorption of O ₂ , CO and H ₂ O on beryllium. Surface Science, 2003, 539, 81-90.	1.9	8
24	The interaction of Zr ₂ Fe surface with O ₂ and H ₂ O at the temperature range 300-770K. Journal of Alloys and Compounds, 2010, 501, 221-226.	5.5	8
25	Effect of U Content on the Activation of H ₂ O on Ce _{1-x} U _x O _{2+δ} Surfaces. Chemistry of Materials, 2018, 30, 8650-8660.	6.7	8
26	Heat treatment effects on the surface chemisorption behavior of strained uranium: The H ₂ O/U reaction. Journal of Alloys and Compounds, 2007, 444-445, 177-183.	5.5	7
27	The interaction of O ₂ with the surface of polycrystalline gadolinium at the temperature range 300-670 K. Surface Science, 2011, 605, 1589-1594.	1.9	7
28	The interaction of H ₂ O with the surface of polycrystalline gadolinium at the temperature range of 300-570K. Surface Science, 2013, 617, 29-35.	1.9	7
29	Inhibition of hydrogen chemisorption on uranium surfaces by traces of water vapor. Surface Science, 2007, 601, 4925-4930.	1.9	6
30	The dynamic nature of hydrogen in the $\hat{1}$ and $\hat{2}$ phases in the Gd(0001)/W(110) system: STM observations. Journal of Alloys and Compounds, 2009, 473, 521-529.	5.5	6
31	Interactions of water vapor with polycrystalline uranium surfaces – The low temperature regime. Surface Science, 2007, 601, 936-940.	1.9	5
32	Carbon enhanced hydrogen attack on an oxidized U-0.1wt%Cr surface. IOP Conference Series: Materials Science and Engineering, 2010, 9, 012037.	0.6	4
33	The influence of ion irradiation on hydrogen chemisorption and diffusion on gadolinium surfaces. Journal of Alloys and Compounds, 2016, 688, 553-560.	5.5	4
34	Dissociative adsorption of molecular deuterium and thermal stability onto hydrogenated, bare and ion beam damaged poly- and single crystalline diamond surfaces. Surface Science, 2015, 642, 16-21.	1.9	3
35	Surface characterization of U(Al _x Si _{1-x}) ₃ alloy and its interaction with O ₂ and H ₂ O, at room temperature. Journal of Nuclear Materials, 2018, 499, 29-37.	2.7	2
36	STM imaging of electrically floating islands. Surface Science, 2006, 600, 2795-2799.	1.9	1

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37	Morphology changes due to AC induced electromigration in Gd islands on W(110). Surface Science, 2007, 601, 1177-1183.	1.9	0
38	Amorphous carbon enhancement of hydrogen penetration into UO ₂ . Applied Surface Science, 2014, 305, 539-543.	6.1	0
39	Effects of ion irradiation damage on the initial interactions of oxygen with polycrystalline gadolinium. Solid State Ionics, 2017, 309, 130-136.	2.7	0
40	Oxidation and passivation of U(Al _x Si _{1-x}) ₃ alloy at elevated temperatures. Journal of Nuclear Materials, 2020, 531, 152028.	2.7	0