

Karel Masek

List of Publications by Year in descending order

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1053
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of CO on Small Supported Rhodium Particles: SSIMS and TPD Study. Journal of Catalysis, 1993, 143, 492-498.	6.2	36
2	Mechanism of non-evaporable getter activation XPS and static SIMS study of Zr ₄₄ V ₅₆ alloy. Vacuum, 2003, 71, 317-322.	3.5	35
3	Miniature electron bombardment evaporation source: evaporation rate measurement. European Physical Journal D, 1997, 47, 261-268.	0.4	34
4	Sn-CeO ₂ thin films prepared by rf magnetron sputtering: XPS and SIMS study. Applied Surface Science, 2009, 255, 6656-6660.	6.1	33
5	CO dissociation and oxidation on small supported rhodium particles: SSIMS and TPR study. Catalysis Letters, 1993, 21, 175-182.	2.6	29
6	Structure of tungsten oxide nanoclusters. Surface Science, 2004, 566-568, 383-389.	1.9	27
7	X-ray photoelectron spectroscopy and static secondary ion mass spectroscopy study of activation mechanism of Zr-V low activation temperature non-evaporable getter films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 797-805.	2.1	26
8	Valence band and band gap photoemission study of (111) In ₂ O ₃ epitaxial films under interactions with oxygen, water and carbon monoxide. Surface Science, 2007, 601, 5585-5594.	1.9	26
9	Chemical Etching of CdTe in Aqueous Solutions of H ₂ O ₂ -HI-Citric Acid. Journal of Electronic Materials, 2007, 36, 1021-1024.	2.2	26
10	XPS and SIMS study of the ageing mechanism of Zr-V non-evaporable getter films. Applied Surface Science, 2004, 235, 202-206.	6.1	24
11	Residual surface oxide on ZrV getter-XPS, LEIS and SIMS study. Vacuum, 2004, 74, 305-309.	3.5	23
12	RHEED study of the growth of cerium oxide on Cu(1 1 1). Applied Surface Science, 2012, 259, 34-38.	6.1	23
13	SRPES investigation of tungsten oxide in different oxidation states. Surface Science, 2006, 600, 1624-1627.	1.9	22
14	Interface termination and band alignment of epitaxially grown alumina films on Cu-Al alloy. Journal of Applied Physics, 2008, 103, 033707.	2.5	22
15	Influence of surface structure on the growth of Au on $\hat{1}\hat{1}\hat{0}$ Al ₂ O ₃ (1 $\bar{1}$,012). Thin Solid Films, 2000, 374, 134-141.	1.8	21
16	Altering properties of cerium oxide thin films by Rh doping. Materials Research Bulletin, 2015, 67, 5-13.	5.2	20
17	Study of the growth of rhodium particles on different substrates. Thin Solid Films, 1995, 260, 252-258.	1.8	19
18	Photoemission study of the tin doped cerium oxide thin films prepared by RF magnetron sputtering. Thin Solid Films, 2010, 518, 2206-2209.	1.8	19

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19	Contactless resistivity and photoconductivity correlation to surface preparation of CdZnTe. Applied Surface Science, 2014, 315, 144-148.	6.1	19
20	Chemical Polishing of CdTe and CdZnTe in Iodine-Methanol Etching Solutions. Journal of Electronic Materials, 2011, 40, 1802-1808.	2.2	18
21	Polarity driven morphology of CeO ₂ (100) islands on Cu(111). Applied Surface Science, 2013, 285, 766-771.	6.1	18
22	An epitaxial hexagonal tungsten bronze as precursor for WO ₃ nanorods on mica. Journal of Crystal Growth, 2008, 310, 3318-3324.	1.5	16
23	The interface structure and band alignment at alumina/Cu(Al) alloy interfaces-Influence of the crystallinity of alumina films. Applied Surface Science, 2010, 256, 3051-3057.	6.1	16
24	Activation of binary Zr-V non-evaporable getters: synchrotron radiation photoemission study. Applied Surface Science, 2005, 243, 106-112.	6.1	15
25	Rh particle growth on insulator substrates: RHEED study. Thin Solid Films, 1996, 286, 330-335.	1.8	14
26	Influence of Pd-Co bimetallic interaction on CO adsorption properties of Pd _x Co _{1-x} alloys: XPS, TPD and static SIMS studies. Vacuum, 2003, 71, 41-45.	3.5	14
27	RHEED study of Pd thin film growth on γ -Al ₂ O ₃ substrate. Vacuum, 1998, 50, 151-155.	3.5	13
28	Oxidation of tungsten nanoclusters. Thin Solid Films, 2003, 444, 9-16.	1.8	13
29	Activation of binary Zr-V non-evaporable getters: a soft X-ray photoemission study of carbide formation. Surface Science, 2004, 566-568, 1246-1249.	1.9	13
30	Ultra-thin oxide layer formation on Cu-9%Al(111) surface and Pd growth studied using reflection high energy electron diffraction and Auger electron spectroscopy. Surface Science, 2006, 600, 4357-4360.	1.9	13
31	RHEED and XPS study of cerium interaction with SnO ₂ (110) surface. Ceramics International, 2014, 40, 323-329.	4.8	13
32	Influence of the alumina surface orientation to the Rh particle growth and reconstruction. Surface Science, 2002, 507-510, 655-661.	1.9	12
33	Chemical Interaction of CdTe and CdZnTe with Aqueous Solutions of H ₂ O ₂ -HI-Tartaric Acid. Journal of Electronic Materials, 2009, 38, 1645-1651.	2.2	12
34	Structural and electronic studies of supported Pt and Au epitaxial clusters on tungsten oxide surface. Vacuum, 2012, 86, 586-589.	3.5	12
35	Optical and electrical study of CdZnTe surfaces passivated by KOH and NH ₄ F solutions. Applied Surface Science, 2016, 389, 1214-1219.	6.1	12
36	RHEED investigation of lattice deformations of γ -Al ₂ O ₃ supported Pd particles. European Physical Journal D, 1999, 9, 557-560.	1.3	11

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37	RHEED and XPS study of Pd–Sn bimetallic system growth. <i>Surface Science</i> , 2007, 601, 4475-4478.	1.9	11
38	Surface characterization of activated Ti–Zr–V NEG coatings. <i>Vacuum</i> , 2009, 83, 824-827.	3.5	11
39	Pt-doped tungsten oxide surface: photoemission and RHEED study. <i>Surface and Interface Analysis</i> , 2010, 42, 540-544.	1.8	11
40	Effects of oxygen addition in reactive cluster beam deposition of tungsten by magnetron sputtering with gas aggregation. <i>Thin Solid Films</i> , 2015, 591, 194-199.	1.8	11
41	The comparative study of electrical, optical and catalytic properties of Co ₃ O ₄ thin nanocrystalline films prepared by reactive high-power impulse and radio frequency magnetron sputtering. <i>Thin Solid Films</i> , 2019, 686, 137427.	1.8	11
42	RHEED and XPS study of palladium interaction with cerium oxide surface. <i>Vacuum</i> , 2019, 167, 438-444.	3.5	11
43	RHEED study of Nb thin film growth on $\hat{1}\hat{1}\hat{1}$ -Al ₂ O ₃ (0001) substrate. <i>Thin Solid Films</i> , 1998, 317, 183-188.	1.8	10
44	RHEED study of Nb thin film growth on Cu(111) and (100) single-crystals. <i>Vacuum</i> , 2001, 61, 217-221.	3.5	9
45	Cyclodextrin-Polypyrrole Coatings of Scaffolds for Tissue Engineering. <i>Polymers</i> , 2019, 11, 459.	4.5	9
46	Methanol oxidation on pure and platinum-doped tungsten oxide supported by activated carbon. <i>Materials Chemistry and Physics</i> , 2019, 228, 147-159.	4.0	8
47	RHEED Study of Pd Particle Growth on $\hat{1}\hat{1}\hat{1}$ -Alumina and NaCl Substrates. <i>Surface Review and Letters</i> , 1998, 05, 403-408.	1.1	7
48	Sims study of Ti–Zr–V NEG thermal activation process. <i>Vacuum</i> , 2005, 80, 47-52.	3.5	7
49	Faceting Transition at the Oxide–Metal Interface: (13 13 1) Facets on Cu(110) Induced by Carpet-Like Ceria Overlayer. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1851-1858.	3.1	7
50	Methanol to hydrogen conversion on cobalt–ceria catalysts prepared by magnetron sputtering. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 17197-17208.	7.1	7
51	Influence of Alumina Surface Structure on Growth and Adsorption Properties of Pd Particles. <i>Surface Review and Letters</i> , 1998, 05, 397-401.	1.1	6
52	Structure of Pd/tungsten oxide epitaxial system. <i>Vacuum</i> , 2007, 82, 274-277.	3.5	6
53	Photoemission and RHEED study of the supported Pt and Au epitaxial alloy clusters. <i>Applied Surface Science</i> , 2013, 282, 746-756.	6.1	6
54	RHEED structural study of the novel tin-cerium oxide catalyst. <i>Ceramics International</i> , 2015, 41, 4946-4952.	4.8	6

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55	Thermal stability of bulk p-CdTe. Journal of Alloys and Compounds, 2016, 680, 8-13.	5.5	6
56	Reflection high-energy electron loss spectroscopy (RHEELS): a new approach in the investigation of epitaxial thin film growth by reflection high-energy electron diffraction (RHEED). Vacuum, 2003, 71, 59-64.	3.5	5
57	Photoelectron Spectroscopy Characterization of Diamond-like Carbon Films. Applied Spectroscopy, 2006, 60, 936-940.	2.2	5
58	Photoelectron spectroscopy and secondary ion mass spectrometry characterization of diamond-like carbon films. Thin Solid Films, 2007, 515, 5386-5390.	1.8	5
59	Photoemission spectroscopy and electron diffraction study of Pd/tungsten oxide/W(110) epitaxial system. Journal of Physics: Conference Series, 2008, 100, 012008.	0.4	5
60	Non-Destructive Depth Profiling of the Activated Ti-Zr-V Getter by Means of Excitation Energy Resolved Photoelectron Spectroscopy. Analytical Sciences, 2010, 26, 209-215.	1.6	5
61	Slow-Polishing Iodine-Based Etchant for CdTe and CdZnTe Single Crystals. Journal of Electronic Materials, 2012, 41, 2838-2845.	2.2	5
62	Photoemission Study of Methanol Adsorption and Decomposition on Pd/CeO ₂ (111)/Cu(111) Thin Film Model Catalyst. Catalysis Letters, 2015, 145, 1474-1482.	2.6	5
63	RHEED INVESTIGATION OF Pd/Al BIMETALLIC SYSTEM ON KCl(001) SUBSTRATE. Surface Review and Letters, 1999, 06, 825-828.	1.1	4
64	RHEED study of the growth of Pd-Al/MgO bimetallic system. Vacuum, 2005, 80, 102-107.	3.5	4
65	Catalytic activity of small supported Pd/Al ₂ O ₃ particles: CO oxidation. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1988, 10, 499-501.	1.0	3
66	Preparation of single-crystalline Nb-Al ₂ O ₃ -Nb structures by molecular-beam deposition. Surface Science, 1998, 417, 139-144.	1.9	3
67	RHEED and EELS study of Pd/Al bimetallic thin film growth on different $\hat{\pm}$ -Al ₂ O ₃ substrates. Surface Science, 2002, 507-510, 300-304.	1.9	3
68	Photoelectron-spectroscopic and reactivity investigation of thin Pd-Sn films prepared by magnetron sputtering. Applied Surface Science, 2007, 253, 5400-5403.	6.1	3
69	The growth of Au/Pd/alumina/Cu-Al system studied by SRPES. Applied Surface Science, 2008, 254, 4340-4345.	6.1	3
70	A Slightly Oxidizing Etchant for Polishing of CdTe and CdZnTe Surfaces. Journal of Electronic Materials, 2013, 42, 3059-3065.	2.2	3
71	Two-dimensional, high valence-doped ceria: Ce ₆ WO ₁₂ (100)/W(110). Applied Surface Science, 2016, 372, 152-157.	6.1	3
72	Structural and photoelectron studies of SnO ₂ and SnO _{2-x} nanoparticles on TiO ₂ (110) surface. Surface and Interface Analysis, 2018, 50, 1116-1121.	1.8	3

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73	Thermal stability of cobalt oxide thin films and its enhancement by cerium oxide. Applied Surface Science, 2022, 593, 153430.	6.1	3
74	Study of the growth of supported Pd-Sn bimetallic nanoclusters. Thin Solid Films, 2006, 515, 563-566.	1.8	2
75	XPS and LEED study of Pd and Au growth on alumina/Cu-Al surface. Applied Surface Science, 2007, 254, 490-493.	6.1	2
76	Photoemission and LEED study of the Sn/Rh(111) surface early oxidation steps and thermal stability. Journal of Physics Condensed Matter, 2012, 24, 015002.	1.8	2
77	RHEED study of Pd/Al bimetallic thin film growth on NaCl (001) substrate. Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 113-117.	1.7	1
78	Structural study of epitaxial tungsten oxide nanoclusters. Vacuum, 2005, 80, 58-63.	3.5	1
79	Evolution of the oxidation states at the WO ₃ thin film surface during annealing in gases. Vacuum, 2007, 82, 261-265.	3.5	1
80	The growth of Au/Pd on alumina/Cu-Al system. Journal of Physics: Conference Series, 2008, 100, 012040.	0.4	1
81	Bridging the Component-Based and Service-Oriented Worlds. , 2009, , .		1
82	Evidence for two growth modes during tungsten oxide vapor deposition on mica substrates. Journal of Crystal Growth, 2014, 394, 67-73.	1.5	1
83	Tungsten oxide nanowire on copper surfaces: a DFT model. RSC Advances, 2016, 6, 88463-88468.	3.6	1
84	1D tungsten oxide nanostructures on a Cu(110) surface. Journal of Physics Condensed Matter, 2018, 30, 465001.	1.8	1
85	RHEED investigation of lattice deformations of γ -Al ₂ O ₃ supported Pd particles. , 1999, , 557-560.		1
86	Catalytic activity of small supported Pd/Al ₂ O ₃ particles: CO oxidation. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1989, 13, 77-77.	1.0	0
87	Oxidation and erosion of single crystal CdTe surface in distilled water and NaCl solution. Thin Solid Films, 2019, 686, 137426.	1.8	0