

Vladimir Chab

List of Publications by Year in descending order

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papers

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430874

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#	ARTICLE	IF	CITATIONS
1	Effect of Twinning on Angle-Resolved Photoemission Spectroscopy Analysis of Ni _{49.7} Mn _{29.1} Ga _{21.2} (100) Heusler Alloy. <i>Materials</i> , 2022, 15, 717.	2.9	0
2	Local geometry around B atoms in B/Si(111) from polarized x-ray absorption spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 045901. Electronic structure in the twinned L1 ₀ martensite phase of the	1.8	1
3	Electronic structure in the twinned L1 ₀ martensite phase of the	3.2	4
4	Initial stages of Zr-Fe-Si alloy formation on Zr(0001) surface. <i>Surface Science</i> , 2017, 657, 28-34.	1.9	1
5	Corrosion protection of zirconium surface based on Heusler alloy. <i>Pure and Applied Chemistry</i> , 2017, 89, 553-563.	1.9	2
6	Nanocrystalline diamond protects Zr cladding surface against oxygen and hydrogen uptake: Nuclear fuel durability enhancement. <i>Scientific Reports</i> , 2017, 7, 6469.	3.3	16
7	Surface analysis of the Heusler Ni _{49.7} Mn _{29.1} Ga _{21.2} Alloy: The composition, phase transition, and twinned microstructure of martensite. <i>Journal of Applied Physics</i> , 2016, 120, 113905.	2.5	3
8	A complex study of the fast blue luminescence of oxidized silicon nanocrystals: the role of the core. <i>Nanoscale</i> , 2014, 6, 3837.	5.6	38
9	Cu induced morphology changes at Pb/Si(111) interface: Separation of 5-5-Cu structure into individual domains. <i>Applied Surface Science</i> , 2013, 270, 157-162.	6.1	0
10	Tantalum induced butterfly-like clusters on Si(111)-7 \times 7 surface: STM/STS study at low coverage. <i>Surface Science</i> , 2012, 606, 356-361.	1.9	2
11	Adsorption of 5-halouracils on Au(111). <i>Surface Science</i> , 2012, 606, 435-443.	1.9	14
12	Laser induced changes of As ₅₀ Se ₅₀ nanolayers studied by synchrotron radiation photoelectron spectroscopy. <i>Thin Solid Films</i> , 2012, 520, 7224-7229.	1.8	10
13	Synchrotron radiation photoelectron spectroscopy studies of self-organization in As ₄₀ Se ₆₀ nanolayers stored under ambient conditions and after laser irradiation. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2910-2916.	3.1	11
14	Investigation of the Ti/MgCl ₂ interface on a Si(111) 7 \times 7 substrate. <i>Journal of Chemical Physics</i> , 2012, 136, 224703.	3.0	1
15	Simultaneous current, force and dissipation measurements on the Si(111) 7 \times 7 surface with an optimized qPlus AFM/STM technique. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 249-259.	2.8	66
16	Preface: <i>Phys. Status Solidi C</i> 6/2012. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 1350-1351.	0.8	0
17	Chemical Identification of Single Atoms in Heterogeneous III-IV Chains on Si(100) Surface by Means of nc-AFM and DFT Calculations. <i>ACS Nano</i> , 2012, 6, 6969-6976.	14.6	35
18	An Investigation of Ethylene Attachment to Si(111) 7 \times 7 in the Restatom-Adatom Bridging Geometry: Electronic and Vibrational Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21791-21799.	3.1	5

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19	Guanine adsorption on the Cu(110) surface. <i>Surface Science</i> , 2011, 605, 361-365.	1.9	15
20	Photoemission Study of Thymidine Adsorbed on Au(111) and Cu(110). <i>Journal of Physical Chemistry C</i> , 2010, 114, 15036-15041.	3.1	18
21	Adsorption of Histidine and Histidine-Containing Peptides on Au(111). <i>Langmuir</i> , 2010, 26, 8606-8613.	3.5	54
22	Adsorption Structure of Glycyl-Glycine on Cu(110). <i>Journal of Physical Chemistry C</i> , 2010, 114, 10922-10931.	3.1	30
23	Resolving the coverage puzzle of the Pb/Si(111) $\sqrt{7}\times\sqrt{3}$ phase. <i>Journal of Applied Physics</i> , 2009, 106, 053501.	2.5	8
24	Core level photoemission and STM characterization of Ta/Si(111)- $\sqrt{7}\times\sqrt{7}$ interfaces. <i>Surface Science</i> , 2009, 603, 469-476.	1.9	3
25	Intra-atomic charge re-organization at the Pb $\sqrt{2}\times\sqrt{2}$ /Si interface: Bonding mechanism at low coverage. <i>Surface Science</i> , 2009, 603, 2861-2869.	1.9	1
26	Sn interaction with the CeO ₂ (111) system: Bimetallic bonding and ceria reduction. <i>Applied Surface Science</i> , 2008, 254, 4375-4379.	6.1	42
27	Surface alloying in the Sn/Ni(111) system studied by synchrotron radiation photoelectron valence band spectroscopy and ab-initio density of states calculations. <i>Thin Solid Films</i> , 2008, 516, 2962-2965.	1.8	0
28	Epitaxial growth of continuous CeO ₂ (111) ultra-thin films on Cu(111). <i>Thin Solid Films</i> , 2008, 516, 6120-6124.	1.8	85
29	The Electronic Structure and Adsorption Geometry of $\sqrt{2}\times\sqrt{2}$ -Histidine on Cu(110). <i>Journal of Physical Chemistry B</i> , 2008, 112, 13655-13660.	2.6	38
30	The interfacial properties of MgCl ₂ thin films grown on Si(111)- $\sqrt{7}\times\sqrt{7}$. <i>Journal of Chemical Physics</i> , 2008, 128, 104705.	3.0	6
31	Tip-Induced Reduction of the Resonant Tunneling Current on Semiconductor Surfaces. <i>Physical Review Letters</i> , 2008, 101, 176101.	7.8	47
32	Local atomic and electronic structure of the Pb $\sqrt{2}\times\sqrt{2}$ /Si(111) mosaic phase: STM and ab initio study. <i>Physical Review B</i> , 2008, 77, .	3.2	15
33	Interaction of ethylene with palladium clusters supported on oxidised tungsten foil. <i>Surface Science</i> , 2007, 601, 3114-3124.	1.9	3
34	A valence band photoemission study of Pb adsorption on Rh(1 0 0) and Rh(1 1 0). <i>Surface Science</i> , 2007, 601, 5673-5677.	1.9	2
35	A resonant photoemission study of the Ce and Ce-oxide/Pd(111) interfaces. <i>Surface Science</i> , 2007, 601, 4958-4965.	1.9	12
36	The adsorption of adenine on mineral surfaces: Iron pyrite and silicon dioxide. <i>Surface Science</i> , 2007, 601, 1973-1980.	1.9	27

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37	Interaction of CO with Palladium Supported on Oxidized Tungsten. Journal of Physical Chemistry B, 2006, 110, 23837-23844.	2.6	3
38	Photoelectron Spectroscopy Characterization of Diamond-like Carbon Films. Applied Spectroscopy, 2006, 60, 936-940.	2.2	5
39	Structure and electronic properties of gold adsorbed on Ti(0001). Applied Surface Science, 2006, 252, 5428-5431.	6.1	7
40	SRPES investigation of tungsten oxide in different oxidation states. Surface Science, 2006, 600, 1624-1627.	1.9	22
41	Surface segregation in FeSi alloys. Surface Science, 2006, 600, 4108-4112.	1.9	11
42	Density functional theory study of the formation of Si nanostructures on a Si(111) unreconstructed surface. Surface Science, 2006, 600, 4081-4085.	1.9	0
43	The transition from the adsorbed state to a surface alloy in the Sn/Ni(111) system. Surface Science, 2006, 600, 4067-4071.	1.9	11
44	Photoemission study of the (2 \times 2) structure formed by H ₂ O adsorption on the Zr(0001) surface. Surface Science, 2006, 600, 3581-3585.	1.9	3
45	Phase-sensitive lock-in imaging of surface densities of states. Nanotechnology, 2006, 17, 213-216.	2.6	24
46	The effect of potassium on the adsorption of gold on the TiO ₂ (110)-1 \times 1 surface. Nanotechnology, 2006, 17, 4112-4116.	2.6	9
47	Surface and Grain Boundary Segregation in Fe-3%Si Alloy. Steel Research International, 2005, 76, 435-439.	1.8	2
48	Activation of binary Zr ϵ -V non-evaporable getters: synchrotron radiation photoemission study. Applied Surface Science, 2005, 243, 106-112.	6.1	15
49	Nitridation of InP(100) surface studied by synchrotron radiation. Surface Science, 2005, 583, 205-212.	1.9	7
50	Electronic properties of Sn/Pd intermetallic compounds on Pd(110). Surface Science, 2005, 595, 138-150.	1.9	21
51	Phase composition at surface of Fe-3%Si alloy. European Physical Journal D, 2005, 55, 875-882.	0.4	2
52	Evidence for valence-charge fluctuations in the 3 \times 3 $\sqrt{3}$ -Pb \cdot Si(111) system. Physical Review B, 2004, 70, .	3.2	12
53	Scanning tunneling spectroscopy investigation of the ($\sqrt{3}\sqrt{3}$)R30 $^\circ$ Sn/Si(111) $\hat{1}\pm$ and $\hat{1}^3$ surfaces. Surface Science, 2004, 562, 128-136.	1.9	7
54	Electronic structure of a two-dimensional alloy: Sn ϵ -Pb ϵ -Si on Si(111). Journal of Physics Condensed Matter, 2004, 16, 3507-3516.	1.8	4

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55	Phase transformations induced in CdTe single crystal by ruby laser pulsed irradiation. , 2004, , .		6
56	Interfacial reconstruction in the system Pb/Ag(110). Surface Science, 2003, 542, 112-119.	1.9	12
57	Core-level photoemission from graphite. Physical Review B, 2000, 62, 6866-6868.	3.2	69
58	Surface diffusion of Au on Si(111): A microscopic study. Physical Review B, 2000, 61, 16121-16128.	3.2	45
59	Terrace distribution during sputtering and recovery of InSb(110) studied by He-atom scattering. Physical Review B, 1995, 52, 14941-14946.	3.2	3
60	Vacancy island nucleation and inverse growth of InSb(110). Physical Review B, 1995, 51, 17957-17964.	3.2	8
61	Inverse growth kinetics on InSb(110). Surface Science, 1995, 323, L305-L310.	1.9	8
62	Electronic structure of Pd/Ag surface alloys. Journal of Electron Spectroscopy and Related Phenomena, 1990, 52, 61-66.	1.7	7
63	Surface core level shifts of A II $\bar{6}$ VI compound: CdTe. Surface Science, 1988, 206, L871-L879.	1.9	32
64	Orientation of molecular oxygen on Pt(110). Surface Science, 1988, 200, L451-L459.	1.9	9
65	Adsorption-induced surface core-level shifts of Pt(110). Physical Review B, 1987, 36, 6292-6301.	3.2	57
66	An X-ray absorption and photoelectron diffraction study of the Cu{100} c(2 \bar{A} – 2) CO structure. Surface Science, 1986, 166, 221-233.	1.9	93