

Vladimir Chab

List of Publications by Year in descending order

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66
papers

1,129
citations

430874

18
h-index

414414

32
g-index

67
all docs

67
docs citations

67
times ranked

1508
citing authors

#	ARTICLE	IF	CITATIONS
1	An X-ray absorption and photoelectron diffraction study of the Cu{100} c(2 Å ⁻¹ × 2) CO structure. <i>Surface Science</i> , 1986, 166, 221-233.	1.9	93
2	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
3	Core-level photoemission from graphite. <i>Physical Review B</i> , 2000, 62, 6866-6868.	3.2	69
4	Simultaneous current, force and dissipation measurements on the Si(111) 7 Å ⁻¹ × 7 surface with an optimized qPlus AFM/STM technique. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 249-259.	2.8	66
5	Adsorption-induced surface core-level shifts of Pt(110). <i>Physical Review B</i> , 1987, 36, 6292-6301.	3.2	57
6	Adsorption of Histidine and Histidine-Containing Peptides on Au(111). <i>Langmuir</i> , 2010, 26, 8606-8613.	3.5	54
7	Tip-Induced Reduction of the Resonant Tunneling Current on Semiconductor Surfaces. <i>Physical Review Letters</i> , 2008, 101, 176101.	7.8	47
8	Surface diffusion of Au on Si(111): A microscopic study. <i>Physical Review B</i> , 2000, 61, 16121-16128.	3.2	45
9	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
10	The Electronic Structure and Adsorption Geometry of $\langle \text{sc} \rangle \langle \text{l} \rangle \langle \text{sc} \rangle$ -Histidine on Cu(110). <i>Journal of Physical Chemistry B</i> , 2008, 112, 13655-13660.	2.6	38
11	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
12	Chemical Identification of Single Atoms in Heterogeneous III-V Chains on Si(100) Surface by Means of nc-AFM and DFT Calculations. <i>ACS Nano</i> , 2012, 6, 6969-6976.	14.6	35
13	Surface core level shifts of A II-VI compound: CdTe. <i>Surface Science</i> , 1988, 206, L871-L879.	1.9	32
14	Adsorption Structure of Glycyl-Glycine on Cu(110). <i>Journal of Physical Chemistry C</i> , 2010, 114, 10922-10931.	3.1	30
15	The adsorption of adenine on mineral surfaces: Iron pyrite and silicon dioxide. <i>Surface Science</i> , 2007, 601, 1973-1980.	1.9	27
16	Phase-sensitive lock-in imaging of surface densities of states. <i>Nanotechnology</i> , 2006, 17, 213-216.	2.6	24
17	SRPES investigation of tungsten oxide in different oxidation states. <i>Surface Science</i> , 2006, 600, 1624-1627.	1.9	22
18	Electronic properties of Sn/Pd intermetallic compounds on Pd(110). <i>Surface Science</i> , 2005, 595, 138-150.	1.9	21

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19	Photoemission Study of Thymidine Adsorbed on Au(111) and Cu(110). Journal of Physical Chemistry C, 2010, 114, 15036-15041.	3.1	18
20	Nanocrystalline diamond protects Zr cladding surface against oxygen and hydrogen uptake: Nuclear fuel durability enhancement. Scientific Reports, 2017, 7, 6469.	3.3	16
21	Activation of binary Zr–V non-evaporable getters: synchrotron radiation photoemission study. Applied Surface Science, 2005, 243, 106-112.	6.1	15
22	Local atomic and electronic structure of the Pb–Si(111) mosaic phase: STM and ab initio study. Physical Review B, 2008, 77, .	3.2	15
23	Guanine adsorption on the Cu(110) surface. Surface Science, 2011, 605, 361-365.	1.9	15
24	Adsorption of 5-halouracils on Au(111). Surface Science, 2012, 606, 435-443.	1.9	14
25	Interfacial reconstruction in the system Pb/Ag(110). Surface Science, 2003, 542, 112-119.	1.9	12
26	Evidence for valence-charge fluctuations in the 3Å–3Å Pb–Si(111) system. Physical Review B, 2004, 70, .	3.2	12
27	A resonant photoemission study of the Ce and Ce-oxide/Pd(111) interfaces. Surface Science, 2007, 601, 4958-4965.	1.9	12
28	Surface segregation in FeSi alloys. Surface Science, 2006, 600, 4108-4112.	1.9	11
29	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
30	Synchrotron radiation photoelectron spectroscopy studies of self-organization in As ₄₀ Se ₆₀ nanolayers stored under ambient conditions and after laser irradiation. Journal of Non-Crystalline Solids, 2012, 358, 2910-2916.	3.1	11
31	Laser induced changes of As ₅₀ Se ₅₀ nanolayers studied by synchrotron radiation photoelectron spectroscopy. Thin Solid Films, 2012, 520, 7224-7229.	1.8	10
32	Orientation of molecular oxygen on Pt(110). Surface Science, 1988, 200, L451-L459.	1.9	9
33	The effect of potassium on the adsorption of gold on the TiO ₂ (110)-1 Å–1 surface. Nanotechnology, 2006, 17, 4112-4116.	2.6	9
34	Vacancy island nucleation and inverse growth of InSb(110). Physical Review B, 1995, 51, 17957-17964.	3.2	8
35	Inverse growth kinetics on InSb(110). Surface Science, 1995, 323, L305-L310.	1.9	8
36	Resolving the coverage puzzle of the Pb/Si(111)–7Å–3 phase. Journal of Applied Physics, 2009, 106, 053501.	2.5	8

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37	Electronic structure of Pd/Ag surface alloys. Journal of Electron Spectroscopy and Related Phenomena, 1990, 52, 61-66.	1.7	7
38	Scanning tunneling spectroscopy investigation of the $(\sqrt{3}\sqrt{3})R30^\circ$ Sn/Si(111) $\sqrt{3}\sqrt{3}$ and $\sqrt{3}\sqrt{3}$ surfaces. Surface Science, 2004, 562, 128-136.	1.9	7
39	Nitridation of InP(100) surface studied by synchrotron radiation. Surface Science, 2005, 583, 205-212.	1.9	7
40	Structure and electronic properties of gold adsorbed on Ti(0001). Applied Surface Science, 2006, 252, 5428-5431.	6.1	7
41	Phase transformations induced in CdTe single crystal by ruby laser pulsed irradiation. , 2004, , .		6
42	The interfacial properties of MgCl ₂ thin films grown on Si(111) $\sqrt{7}\sqrt{7}$. Journal of Chemical Physics, 2008, 128, 104705.	3.0	6
43	Photoelectron Spectroscopy Characterization of Diamond-like Carbon Films. Applied Spectroscopy, 2006, 60, 936-940.	2.2	5
44	An Investigation of Ethylene Attachment to Si(111) $\sqrt{7}\sqrt{7}$ in the Restatom "Adatom Bridging Geometry: Electronic and Vibrational Properties. Journal of Physical Chemistry C, 2011, 115, 21791-21799.	3.1	5
45	Electronic structure of a two-dimensional alloy: Sn-Pb-Si on Si(111). Journal of Physics Condensed Matter, 2004, 16, 3507-3516.	1.8	4
46	Electronic structure in the twinned 10M martensite phase of the $N_{i-x}M_{x-0.7}Mn_{0.7}$	3.2	4
47	Terrace distribution during sputtering and recovery of InSb(110) studied by He-atom scattering. Physical Review B, 1995, 52, 14941-14946.	3.2	3
48	Interaction of CO with Palladium Supported on Oxidized Tungsten. Journal of Physical Chemistry B, 2006, 110, 23837-23844.	2.6	3
49	Photoemission study of the $(\sqrt{2}\sqrt{2})$ structure formed by H ₂ O adsorption on the Zr(0001) surface. Surface Science, 2006, 600, 3581-3585.	1.9	3
50	Interaction of ethylene with palladium clusters supported on oxidised tungsten foil. Surface Science, 2007, 601, 3114-3124.	1.9	3
51	Core level photoemission and STM characterization of Ta/Si(111)- $\sqrt{7}\sqrt{7}$ interfaces. Surface Science, 2009, 603, 469-476.	1.9	3
52	Surface analysis of the Heusler Ni _{49.7} Mn _{29.1} Ga _{21.2} Alloy: The composition, phase transition, and twinned microstructure of martensite. Journal of Applied Physics, 2016, 120, 113905.	2.5	3
53	Surface and Grain Boundary Segregation in Fe-3%Si Alloy. Steel Research International, 2005, 76, 435-439.	1.8	2
54	Phase composition at surface of Fe-3%Si alloy. European Physical Journal D, 2005, 55, 875-882.	0.4	2

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55	A valence band photoemission study of Pb adsorption on Rh(1 0 0) and Rh(1 1 0). Surface Science, 2007, 601, 5673-5677.	1.9	2
56	Tantalum induced butterfly-like clusters on Si (111)-7 \times 7 surface: STM/STS study at low coverage. Surface Science, 2012, 606, 356-361.	1.9	2
57	Corrosion protection of zirconium surface based on Heusler alloy. Pure and Applied Chemistry, 2017, 89, 553-563.	1.9	2
58	Intra-atomic charge re-organization at the Pb α -Si interface: Bonding mechanism at low coverage. Surface Science, 2009, 603, 2861-2869.	1.9	1
59	Investigation of the Ti/MgCl ₂ interface on a Si(111) 7 \times 7 substrate. Journal of Chemical Physics, 2012, 136, 224703.	3.0	1
60	Initial stages of Zr α -Fe α -Si alloy formation on Zr(0001) surface. Surface Science, 2017, 657, 28-34.	1.9	1
61	Local geometry around B atoms in B/Si(1 \times 1 \times 1) from polarized x-ray absorption spectroscopy. Journal of Physics Condensed Matter, 2020, 32, 045901.	1.8	1
62	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
63	Surface alloying in the Sn/Ni(111) system studied by synchrotron radiation photoelectron valence band spectroscopy and ab-initio density of states calculations. Thin Solid Films, 2008, 516, 2962-2965.	1.8	0
64	Preface: Phys. Status Solidi C 6/2012. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1350-1351.	0.8	0
65	Cu induced morphology changes at Pb/Si (111) interface: Separation of α -5 \times 5-Cu structure into individual domains. Applied Surface Science, 2013, 270, 157-162.	6.1	0
66	Effect of Twinning on Angle-Resolved Photoemission Spectroscopy Analysis of Ni _{49.7} Mn _{29.1} Ga _{21.2} (100) Heusler Alloy. Materials, 2022, 15, 717.	2.9	0