

# Katariina Pussi

## List of Publications by Year in descending order

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69

papers

1,066

citations

394421

19

h-index

454955

30

g-index

70

all docs

70

docs citations

70

times ranked

1278

citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Geometry of $\text{C}_{60}$ on Ag(111). Physical Review Letters, 2009, 103, 056101.	7.8	121
2	The adsorption sites of rare gases on metallic surfaces: a review. Journal of Physics Condensed Matter, 2004, 16, S2839-S2862.	1.8	67
3	Structure and local variations of the graphene moiré on Ir(111). Physical Review B, 2013, 88, .	3.2	57
4	Structure of the tenfold-Al-Ni-Co quasicrystal surface. Physical Review B, 2004, 69, .	3.2	52
5	Structure of the orthorhombic Al <sub>13</sub> Co <sub>4</sub> (100) surface using LEED, STM, and ab initio studies. Physical Review B, 2011, 84, .	3.2	41
6	Structure and dynamics of $\text{C}_{60}$ molecules on Au(111). Physical Review B, 2014, 89, .	3.2	39
7	Tailoring the Structure of Water at a Metal Surface: A Structural Analysis of the Water Bilayer Formed on an Alloy Template. Physical Review Letters, 2011, 106, 226101.	7.8	37
8	Observation of a surface alloying-to-dealloying transition during growth of Bi on Ag(111). Physical Review B, 2011, 83, .	3.2	33
9	Low-energy electron diffraction study of potassium adsorbed on single-crystal graphite and highly oriented pyrolytic graphite. Physical Review B, 2004, 70, .	3.2	30
10	Dynamical low-energy electron diffraction study of graphite (0001)-(3×3)R30°-Xe. Surface Science, 2004, 548, 157-162.	1.9	30
11	Elucidating the dynamical equilibrium of $\text{C}_{60}$ molecules on Ag(111). Physical Review B, 2012, 86, .	3.2	29
12	Coulomb correlation in noncollinear antiferromagnetic $\text{Mn}_{1-x}\text{Fe}_x$ . Physical Review B, 2020, 101, 115101.	3.2	27
13	Dynamical LEED investigation of the $\text{SnO}_{110}$ overlayer on $\text{Ag}(111)$ . Surface Science, 2004, 549, 24-30.	7.8	26
14	Determination of the structure of Cu{100}-p(4×4)-Sn by dynamical LEED. Surface Science, 2004, 549, 24-30.	1.9	25
15	LEED and DFT investigation on the (2×2)-S overlayer on Co(0001). Surface Science, 2005, 599, 113-121.	1.9	22
16	Use of periodic approximants in a dynamical LEED study of the quasicrystalline tenfold surface of decagonal Al-Ni-Co. Physical Review B, 2006, 73, .	3.2	22
17	The uniaxially aperiodic structure of a thin Cu film on fivefold-Al-Pd-Mn. Journal of Physics Condensed Matter, 2009, 21, 474213.	1.8	22
18	Surface structure of $\text{In}_2\text{O}_3(111)$ (1×1) determined by density functional theory calculations and low energy electron diffraction. Surface Science, 2012, 606, 1-6.	1.9	21

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19	Identification of Lone-Pair Surface States on Indium Oxide. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1700-1709.	3.1	20
20	Low-energy electron diffraction study of Xe adsorption on the ten-fold decagonal Al-Ni-Co quasicrystal surface. <i>Physical Review B</i> , 2004, 69, .	3.2	18
21	The ordering of a Xe monolayer on quasicrystalline Al-Ni-Co. <i>Philosophical Magazine</i> , 2006, 86, 863-868.	1.6	18
22	Structure of the monoclinic Al <sub>13</sub> Fe <sub>4</sub> (010) complex metallic alloy surface determined by low-energy electron diffraction. <i>Physical Review B</i> , 2015, 92, .	3.2	17
23	A tensor LEED study of an unusual cyclic hydrocarbon intermediate formed by benzene adsorption on Co(101̄,0). <i>Chemical Physics Letters</i> , 2001, 341, 7-15.	2.6	14
24	Structural study of the Cu{1 0 0}–p(2 Å–2)-Sb surface alloy using low energy electron diffraction. <i>Surface Science</i> , 2004, 566-568, 52-57.	1.9	14
25	Structure determination of the p3Å–3R30° Bi–Ag(111) surface alloy using LEED and DFT analyses. <i>Surface Science</i> , 2010, 604, 1395-1399.	1.9	14
26	A tensor LEED determination of the structure and compositional profile of a Cu{-}-c(2Å–2)-Pt surface alloy. <i>Surface Science</i> , 2002, 515, 94-102.	1.9	13
27	The adsorption structure on Co{0001}: a combined Tensor LEED and DFT study. <i>Surface Science</i> , 2004, 572, 1-10.	1.9	13
28	Electronic structure beyond the generalized gradient approximation for $\text{Bi}_{\text{Ni}}$ . <i>Physical Review B</i> , 2020, 102, .		
29	Interplay between bulk atomic clusters and surface structure in complex intermetallic compounds: The case study of the Al <sub>5</sub> Co <sub>2</sub> (001) surface. <i>Physical Review B</i> , 2015, 91, .	3.2	12
30	Structure of Manganese Oxide Nanoparticles Extracted via Pair Distribution Functions. <i>Condensed Matter</i> , 2020, 5, 19.	1.8	12
31	A SATLEED study of the geometric structure of Cu-Pd monolayer surface alloys. <i>Surface Science</i> , 2002, 513, 555-568.	1.9	11
32	A novel method for the extraction of intensity-energy spectra from low-energy electron diffraction patterns. <i>Computer Physics Communications</i> , 2012, 183, 1443-1447.	7.5	11
33	The Influence of Water and Hydroxyl on a Bimetallic (3 Å–3)R30° Sn/Pt Surface Alloy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4032-4039.	3.1	11
34	<i>i&gt;Ab initio</i> description of the $\text{Bi}_{\text{Ni}}$ . <i>Physical Review B</i> , 2020, 101, .		
35	LEED analysis of the surface structure of decagonal Al-Ni using its W-approximant as a model structure. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2009, 224, 1-4.	0.8	10
36	Gate-tunable magnetism of C adatoms on graphene. <i>Physical Review B</i> , 2019, 99, .	3.2	10

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37	The evolution of the electronic structure at the Bi/Ag(111) interface studied using photoemission spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 435502.	1.8	9
38	Determination of the structure of Cu{4-4}-In by TLEED. <i>Surface Science</i> , 2003, 526, 141-148.	1.9	8
39	A tensor LEED study of the c(2-2)-Sb adsorption structure on Cu{110}. <i>Surface Science</i> , 2005, 583, 151-156.	1.9	8
40	Sulphur adsorption on Au{110}: DFT and LEED study. <i>Surface Science</i> , 2010, 604, 797-803. The structural analysis of Cu(111)-Te $\text{cmml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si18.gif" overflow="scroll"><math>\text{cmml:mfenced open="("} \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 597 Td (close=")"><math>\text{cmml:mn}$	1.9	8
41	and $\text{cmml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si19.gif" overflow="scroll"><math>\text{cmml:mfenced open="("} \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 567 Td (close=")"><math>\text{cmml:mrow}<math>\text{cmml:mn}$	1.9	8
42	Surface Atomic arrangements in an amorphous CoFeB ribbon extracted via an analysis of radial distribution functions. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 395801.	1.8	8
43	Molecular dynamics simulation of radiation damage in CaCd6 quasicrystal cubic approximant up to 10 keV. <i>Journal of Chemical Physics</i> , 2013, 138, 234505.	3.0	7
44	Structural properties of PbTe quantum dots revealed by high-energy x-ray diffraction. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 485401.	1.8	7
45	Low-energy electron diffraction (LEED) study of an aperiodic thin film of Cu on 5-fold i-Al-Pd-Mn. <i>Philosophical Magazine</i> , 2008, 88, 2103-2110.	1.6	6
46	Acene adsorption on a Fibonacci-modulated Cu film. <i>Physical Review B</i> , 2013, 87, .	3.2	6
47	Temperature dependent LEED study of Pb{111}. <i>Surface Science</i> , 2009, 603, 2759-2763.	1.9	4
48	Correlation of electron self-energy with geometric structure in low-energy electron diffraction. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 015003.	1.8	4
49	The atomic structure of low-index surfaces of the intermetallic compound InPd. <i>Journal of Chemical Physics</i> , 2015, 143, 074705.	3.0	4
50	LEED IV and DFT study of the co-adsorption of chlorine and water on Cu(100). <i>Surface Science</i> , 2017, 657, 51-57.	1.9	4
51	Topological Dirac Semimetal Phase in Bismuth Based Anode Materials for Sodium-Ion Batteries. <i>Condensed Matter</i> , 2020, 5, 39.	1.8	4
52	The structure of oxygen-induced reconstruction on Cu{100}-c(2-2)-Pt surface alloy: the Pt/Cu{100}-(2-2)-O. <i>Surface Science</i> , 2004, 548, 231-238.	1.9	3
53	Multilayer relaxation of Pd{320} surface by quantitative LEED revisited. <i>Surface Science</i> , 2004, 566-568, 24-28.	1.9	3
54	Reconstruction of the Al <sub>13</sub> Ru <sub>4</sub> (010) Approximant Surface Leading to Anisotropic Molecular Adsorption. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22067-22072.	3.1	3

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55	Correlation effects in the ground state of Ni-(Co)-Mn-Sn Heusler compounds. MRS Advances, 2019, 4, 441-446.	0.9	3
56	LEED <i>&lt;math&gt;\langle i \rangle&lt;/i&gt; and DFT structure determination of the <math>(\sqrt{3} \times \sqrt{3})\text{rm}</math> <math>\{\text{R}\}30^\circ\text{Ag}(111)</math> surface alloy. Journal of Physics Condensed Matter, 2011, 23, 265006.</i>	1.8	2
57	Surface relaxation of $\text{Cu}(5\%1\%)$ . Journal of Physics Condensed Matter, 2015, 27, 085002.	1.8	2
58	Dibromobianthryl ordering and polymerization on $\text{Ag}(100)$ . Journal of Chemical Physics, 2017, 146, .	3.0	2
59	Structural Properties of Nanometer-sized Gold Nanoparticles on a Silicon Substrate. Physica Status Solidi (B): Basic Research, 0, , 2100572.	1.5	2
60	Atomic structure of an FeCrMoCBY metallic glass revealed by high energy x-ray diffraction. Journal of Physics Condensed Matter, 2022, 34, 285301.	1.8	2
61	An alternative method of using combined-space method: high index surfaces. Surface Science, 2003, 544, 35-44.	1.9	1
62	Debye temperature of the 10-fold d-Al-Ni-Co quasicrystal surface. Surface Science, 2008, 602, 1223-1226.	1.9	1
63	The structure of $\text{Cu}\{100\}\text{-p}(2\bar{A}-6)\text{-2mg-Sn}$ studied by DFT and LEED. Surface Science, 2011, 605, 1000-1004.	1.9	1
64	Low-energy electron diffraction and density functional theory study of potassium adsorbed on $\text{Pb}(1\%0\%)$ . Journal of Physics Condensed Matter, 2015, 27, 345001.	1.8	1
65	Coverage-dependent structural phase transformations in the adsorption of pentacene on an aperiodically modulated Cu film. Journal of Chemical Physics, 2016, 145, 154707.	3.0	1
66	Epitaxial growth of Al9Ir2 intermetallic compound on Al(100): Mechanism and interface structure. Physical Review Materials, 2018, 2, .	2.4	1
67	Low-energy electron diffraction structure analysis of the $\text{Al}_{13}\text{Co}_4(100)$ surface. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s296-s296.	0.3	0
68	Atomic oxygen adsorption on $\text{Pb}(1\ 0\ 0)$ . European Physical Journal B, 2017, 90, 1.	1.5	0
69	Structure of the $\text{SnO}_{2}(110)-(4\bar{A}-1)$ with LEED I(E). Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C813-C813.	0.1	0