Katariina Pussi

List of Publications by Year
in descending order

69	1,066	394421 19	454955 30
papers	citations	h-index	g-index

70	70	70	1278
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Atomic arrangements in an amorphous CoFeB ribbon extracted via an analysis of radial distribution functions. Journal of Physics Condensed Matter, 2021, 33, 395801.	1.8	8
3	Electronic structure beyond the generalized gradient approximation for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ni</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2020, 102, .	3.2	13
4	Structure of Manganese Oxide Nanoparticles Extracted via Pair Distribution Functions. Condensed Matter, 2020, 5, 19.	1.8	12
5	Topological Dirac Semimetal Phase in Bismuth Based Anode Materials for Sodium-Ion Batteries. Condensed Matter, 2020, 5, 39.	1.8	4
6	Ab initio description of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>8</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> electronic structure. Physical Review B, 2020, 101, .	3.2	11
7	Coulomb correlation in noncollinear antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -Mn. Physical Review B, 2020, 101, .	3.2	27
8	Structural properties of PbTe quantum dots revealed by high-energy x-ray diffraction. Journal of Physics Condensed Matter, 2020, 32, 485401.	1.8	7
9	Correlation effects in the ground state of Ni-(Co)-Mn-Sn Heusler compounds. MRS Advances, 2019, 4, 441-446.	0.9	3
10	Gate-tunable magnetism of C adatoms on graphene. Physical Review B, 2019, 99, .	3.2	10
11	Identification of Lone-Pair Surface States on Indium Oxide. Journal of Physical Chemistry C, 2019, 123, 1700-1709.	3.1	20
12	Epitaxial growth of Al9Ir2 intermetallic compound on Al(100): Mechanism and interface structure. Physical Review Materials, 2018, 2, .	2.4	1
13	Reconstruction of the Al₁₃Ru₄(010) Approximant Surface Leading to Anisotropic Molecular Adsorption. Journal of Physical Chemistry C, 2017, 121, 22067-22072.	3.1	3
14	Atomic oxygen adsorption on Pb(1 0 0). European Physical Journal B, 2017, 90, 1.	1.5	0
15	Structure of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>SnO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mn>110</mml:mn><mml:mo stretchy="false">)</mml:mo></mml:mrow></mml:mrow></mml:math> Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td (stretchy="false">(</mml:mo><mml:mn>4</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>1</mml:mn><mml:mo stretchy="false">)</mml:mo></mml:mrow></mml:math> Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 0961	7.8	26
16	Dibromobianthryl ordering and polymerization on Ag(100). Journal of Chemical Physics, 2017, 146, .	3.0	2
17	LEED â€“ IV and DFT study of the co-adsorption of chlorine and water on Cu(100). Surface Science, 2017, 657, 51-57.	1.9	4
18	Structure of the SnO₂ (110)-(4Ã—1) with LEED I(E). Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C813-C813.	0.1	0

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19	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
20	Interplay between bulk atomic clusters and surface structure in complex intermetallic compounds: The case study of theAl5Co2(001)surface. Physical Review B, 2015, 91, .	3.2	12
21	Structure of the monoclinicAl13Fe4(010)complex metallic alloy surface determined by low-energy electron diffraction. Physical Review B, 2015, 92, .	3.2	17
22	Surface relaxation of Cu(5â€‰1â€‰1). Journal of Physics Condensed Matter, 2015, 27, 085002.	1.8	2
23	Low-energy electron diffraction and density functional theory study of potassium adsorbed on Pb(1â€‰0â€‰0). Journal of Physics Condensed Matter, 2015, 27, 345001.	1.8	1
24	The atomic structure of low-index surfaces of the intermetallic compound InPd. Journal of Chemical Physics, 2015, 143, 074705.	3.0	4
25	Structure and dynamics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>C</mml:mtext><mml:mn>60</mml:mn></mml:msub> The structural analysis of Cu(111)-Te <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si18.gif" overflow="scroll"><mml:mfenced open="(") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 477 Td (close=")"><mml:mrow><mn	3.2	39
26	and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si19.gif" overflow="scroll"><mml:mfenced open="(") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 447 Td (close=")"><mml:mrow><mml:mn>2</mml:mn	1.9	8
27	Surfac Molecular dynamics simulation of radiation damage in CaCd6 quasicrystal cubic approximant up to 10 keV. Journal of Chemical Physics, 2013, 138, 234505.	3.0	7
28	The Influence of Water and Hydroxyl on a Bimetallic (âˆš3 Ã— âˆš3)R30Â° Sn/Pt Surface Alloy. Journal of Physical Chemistry C, 2013, 117, 4032-4039.	3.1	11
29	Structure and local variations of the graphene moirÃ© on Ir(111). Physical Review B, 2013, 88, .	3.2	57
30	Acene adsorption on a Fibonacci-modulated Cu film. Physical Review B, 2013, 87, .	3.2	6
31	The evolution of the electronic structure at the Bi/Ag(111) interface studied using photoemission spectroscopy. Journal of Physics Condensed Matter, 2012, 24, 435502.	1.8	9
32	Elucidating the dynamical equilibrium of C<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>60</mml:mn></mml:msub></mml:math>molecules on Ag(111). Physical Review B, 2012, 86, .	3.2	29
33	Surface structure of In2O3(111) (1Ã—1) determined by density functional theory calculations and low energy electron diffraction. Surface Science, 2012, 606, 1-6.	1.9	21
34	Correlation of electron self-energy with geometric structure in low-energy electron diffraction. Journal of Physics Condensed Matter, 2012, 24, 015003.	1.8	4
35	A novel method for the extraction of intensityâ€“energy spectra from low-energy electron diffraction patterns. Computer Physics Communications, 2012, 183, 1443-1447.	7.5	11
36	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

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37	Structure of the orthorhombic Al13Co4(100) surface using LEED, STM, andab initiostudies. Physical Review B, 2011, 84, .	3.2	41
38	The structure of Cu{100}-p(2Ã—6)-2mg-Sn studied by DFT and LEED. Surface Science, 2011, 605, 1000-1004.	1.9	1
39	LEEDIâ€“Vand DFT structure determination of the (surd 3imes surd 3)mathrm {R}30^{circ } Pbâ€“Ag(111) surface alloy. Journal of Physics Condensed Matter, 2011, 23, 265006.	1.8	2
40	Observation of a surface alloying-to-dealloying transition during growth of Bi on Ag(111). Physical Review B, 2011, 83, .	3.2	33
41	Sulphur adsorption on Au{110}: DFT and LEED study. Surface Science, 2010, 604, 797-803.	1.9	8
42	Structure determination of the p3Ã—3R30â˜ Biâ€“Ag(111) surface alloy using LEED Iâ€“V and DFT analyses. Surface Science, 2010, 604, 1395-1399.	1.9	14
43	Low-energy electron diffraction structure analysis of the Al13Co4(100) surface. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, s296-s296.	0.3	0
44	LEED analysis of the surface structure of decagonal Alâ€“Coâ€“Ni using its W-approximant as a model structure. Zeitschrift Fur Kristallographie - Crystalline Materials, 2009, 224, 1-4.	0.8	10
45	Surface Geometry of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">C</mml:mi><mml:mn>60</mml:mn></mml:msub></mml:math>on Ag(111). Physical Review Letters, 2009, 103, 056101.	7.8	121
46	The uniaxially aperiodic structure of a thin Cu film on fivefoldi-Alâ€“Pdâ€“Mn. Journal of Physics Condensed Matter, 2009, 21, 474213.	1.8	22
47	Temperature dependent LEED study of Pb{111}. Surface Science, 2009, 603, 2759-2763.	1.9	4
48	Debye temperature of the 10-fold d-Alâ€“Niâ€“Co quasicrystal surface. Surface Science, 2008, 602, 1223-1226.	1.9	1
49	Low-energy electron diffraction (LEED) study of an aperiodic thin film of Cu on 5-fold i-Al-Pd-Mn. Philosophical Magazine, 2008, 88, 2103-2110.	1.6	6
50	The ordering of a Xe monolayer on quasicrystalline Alâ€“Niâ€“Co. Philosophical Magazine, 2006, 86, 863-868.	1.6	18
51	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
52	A tensor LEED study of the c(2Ã—2)-Sb adsorption structure on Cu{110}. Surface Science, 2005, 583, 151-156.	1.9	8
53	LEED and DFT investigation on the (2Ã—2)-S overlayer on Co(0001). Surface Science, 2005, 599, 113-121.	1.9	22
54	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

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55	Low-energy electron diffraction study of Xe adsorption on the ten-fold decagonal Al-Ni-Co quasicrystal surface. Physical Review B, 2004, 69, .	3.2	18
56	Structure of the tenfoldd-Al-Ni-Co quasicrystal surface. Physical Review B, 2004, 69, .	3.2	52
57	The structure of oxygen-induced reconstruction on Cu{100}-c(2Ã—2)â€“Pt surface alloy: the Pt/Cu{100}-(2Ã—2)â€“O. Surface Science, 2004, 548, 231-238.	1.9	3
58	Dynamical low-energy electron diffraction study of graphite (0001)-(âˆš3Ã—âˆš3)R30Â°-Xe. Surface Science, 2004, 548, 157-162.	1.9	30
59	Determination of the structure of Cu{100}-p()R45Â°â€“Sn by dynamical LEED. Surface Science, 2004, 549, 24-30.	1.9	25
60	Multilayer relaxation of Pd{320} surface by quantitative LEED revisited. Surface Science, 2004, 566-568, 24-28.	1.9	3
61	Structural study of the Cu{1 0 0}â€“p(2 Ã— 2)-Sb surface alloy using low energy electron diffraction. Surface Science, 2004, 566-568, 52-57.	1.9	14
62	The adsorption structure on Co{0001}: a combined Tensor LEED and DFT study. Surface Science, 2004, 572, 1-10.	1.9	13
63	The adsorption sites of rare gases on metallic surfaces: a review. Journal of Physics Condensed Matter, 2004, 16, S2839-S2862.	1.8	67
64	An alternative method of using combined-space method: high index surfaces. Surface Science, 2003, 544, 35-44.	1.9	1
65	Determination of the structure of Cu{}â€“c(4Ã—4)-In by TLEED. Surface Science, 2003, 526, 141-148.	1.9	8
66	A tensor LEED determination of the structure and compositional profile of a Cu{}-c(2Ã—2)-Pt surface alloy. Surface Science, 2002, 515, 94-102.	1.9	13
67	A SATLEED study of the geometric structure of Cu-Pd monolayer surface alloys. Surface Science, 2002, 513, 555-568.	1.9	11
68	A tensor LEED study of an unusual cyclic hydrocarbon intermediate formed by benzene adsorption on Co(101Ì„0). Chemical Physics Letters, 2001, 341, 7-15.	2.6	14
69	Structural Properties of Nanometerâ€sized Gold Nanoparticles on a Silicon Substrate. Physica Status Solidi (B): Basic Research, 0, , 2100572.	1.5	2