Alexandra Tupchaya

List of Publications by Year
in descending order

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Version: 2024-02-01

25 papers	440 citations	840776 11 h-index	713466 21 g-index
25 all docs	25 docs citations	25 times ranked	327 citing authors

#	Article	IF	Citations
1	Single and double In atomic layers grown on top of a single atomic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>NiSi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> layer on Si(111). Physical Review B, 2022, 106, .	3.2	4
2	Fabrication and characterization of a single monolayer NiSi₂ sandwiched between a Tl capping layer and a Si(1â€‰1â€‰1) substrate. 2D Materials, 2020, 7, 025009.	4.4	11
3	Atomic, electronic and transport properties of Inâ€“Au 2D compound on Si(1â€‰0â€‰0). Journal of Physics Condensed Matter, 2020, 32, 135003.	1.8	2
4	Kondo effect at ultimate atomic-scale two-dimensional limit: Au/Si(111) 3Ã—3 reconstruction with embedded Cr atoms. Physical Review B, 2020, 102, .	3.2	3
5	Superconducting proximity effect in a Rashba-type surface state of Pb/Ge(111). Superconductor Science and Technology, 2020, 33, 075007.	3.5	3
6	Double-atomic-layer Tl-Mg compound on a Si(111) surface with advanced electronic properties. Physical Review B, 2020, 101, .	3.2	5
7	Au-induced reconstructions of the Si(111) surface with ordered and disordered domain walls. Physical Review B, 2020, 101, .	3.2	9
8	Thallene: graphene-like honeycomb lattice of Tl atoms frozen on single-layer NiSi₂. 2D Materials, 2020, 7, 045026.	4.4	17
9	(Tl, Au)/Si(1â€‰1â€‰1)${sqrt7 imes sqrt7}$ 2D compound: an ordered array of identical Au clusters embedded in Tl matrix. Journal of Physics Condensed Matter, 2018, 30, 025002.	1.8	4
10	Two-dimensional metallic (Tl,Au)/Si(100)c(2Ã—2) : A Rashba-type system with C2v symmetry. Physical Review B, 2018, 98, .	3.2	5
11	Electronic properties of the two-dimensional (Tl, Rb)/Si(1â€‰1â€‰1)$oldsymbol{sqrt3 imes sqrt3}$ compound having a honeycomb-like structure. Journal of Physics Condensed Matter, 2018, 30, 415502.	1.8	3
12	From C60 â€œtrilliumonsâ€•to â€œtrilliumenes:â€•Self-assembly of 2D fullerene nanostructures on metal-covered silicon and germanium. Journal of Chemical Physics, 2018, 149, 034702.	3.0	7
13	Superconductivity in thallium double atomic layer and transition into an insulating phase intermediated by a quantum metal state. 2D Materials, 2017, 4, 025020.	4.4	30
14	2D Tlâ€“Pb compounds on Ge(1â€‰1â€‰1) surface: atomic arrangement and electronic band structure. Journal of Physics Condensed Matter, 2017, 29, 035001.	1.8	3
15	Theory versus experiment for a family of single-layer compounds with a similar atomic arrangement: <mml:math		

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19	Two-Dimensional Superconductor with a Giant Rashba Effect: One-Atom-Layer Tl-Pb Compound on Si(111). Physical Review Letters, 2015, 115, 147003.	7.8	108
20	Incommensurate superstructure in heavily doped fullerene layer on Bi/Si(111) surface. Journal of Chemical Physics, 2015, 143, 074707.	3.0	1
21	Electronic band structure of a Tl/Sn atomic sandwich on Si(111). Physical Review B, 2015, 91, .	3.2	25
22	Atomic structure and electronic properties of the In/Si(111)2<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo>Ã—</mml:mo></mml:math>2 surface. Physical Review B, 2014, 89, .	3.2	18
23	Effect of Na adsorption on the structural and electronic properties of Si(111)$ sqrt {ext {sffamily 3}}imes sqrt {ext {sffamily 3}}$ -Au surface. Journal of Physics Condensed Matter, 2014, 26, 055009.	1.8	9
24	A Strategy to Create Spin-Split Metallic Bands on Silicon Using a Dense Alloy Layer. Scientific Reports, 2014, 4, 4742.	3.3	65
25	Large spin splitting of metallic surface-state bands at adsorbate-modified gold/silicon surfaces. Scientific Reports, 2013, 3, 1826.	3.3	51