

Vincent FournÃ©e

List of Publications by Year in descending order

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68
papers

1,373
citations

331670

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377865

34
g-index

68
all docs

68
docs citations

68
times ranked

618
citing authors

#	ARTICLE	IF	CITATIONS
1	New phenomena in epitaxial growth: solid films on quasicrystalline substrates. Journal Physics D: Applied Physics, 2005, 38, R83-R106.	2.8	76
2	Pseudomorphic starfish: nucleation of extrinsic metal atoms on a quasicrystalline substrate. Surface Science, 2003, 526, 115-120.	1.9	75
3	Quantum Size Effects in Metal Thin Films Grown on Quasicrystalline Substrates. Physical Review Letters, 2005, 95, 155504.	7.8	70
4	Quasicrystal-polymer composites for selective laser sintering technology. Materials & Design, 2012, 35, 691-695.	5.1	70
5	Self-assembly, structure, and electronic properties of a quasiperiodic lead monolayer. Physical Review B, 2008, 77, .	3.2	60
6	Nucleation and growth of Ag films on a quasicrystalline AlPdMn surface. Physical Review B, 2003, 67, .	3.2	56
7	Structure of the Fivefold Surface of the Icosahedral Al-Cu-Fe Quasicrystal: Experimental Evidence of Bulk Truncations at Larger Interlayer Spacings. Physical Review Letters, 2004, 93, 165502.	7.8	53
8	A novel quasicrystal-resin composite for stereolithography. Materials & Design, 2014, 56, 280-285.	5.1	52
9	Maximum density rule for bulk terminations of quasicrystals. Physical Review B, 2004, 69, .	3.2	50
10	Structure investigation of the (100) surface of the orthorhombic $Al_{13}Co_4$ quasicrystal. Physical Review B, 2009, 80, .	3.2	43
11	Structure of the orthorhombic $Al_{13}Co_4(100)$ surface using LEED, STM, and ab initio studies. Physical Review B, 2011, 84, .	3.2	41
12	Nucleation of Pb starfish clusters on the five-fold Al-Pd-Mn quasicrystal surface. Physical Review B, 2009, 79, .	3.2	40
13	Electronic structure of quasicrystalline surfaces: Effects of surface preparation and bulk structure. Physical Review B, 2000, 62, 14049-14060.	3.2	39
14	Structural Investigation of the (010) Surface of the $Al_{13}Co_4$ Quasicrystal. Physical Review Letters, 2013, 110, 076102.	7.8	39
15	A LEED comparison of structural stabilities of the three high-symmetry surfaces of Al-Pd-Mn bulk quasicrystals. Surface Science, 2000, 450, 1-11.	1.9	38
16	Electronic structure of Al-Pd-Mn crystalline and quasicrystalline alloys. Journal of Physics Condensed Matter, 2002, 14, 87-102.	1.8	29
17	Self-Organized Molecular Films with Long-Range Quasiperiodic Order. ACS Nano, 2014, 8, 3646-3653.	14.6	28
18	Surfaces of Al-based complex metallic alloys: atomic structure, thin film growth and reactivity. Science and Technology of Advanced Materials, 2014, 15, 034802.	6.1	27

#	ARTICLE	IF	CITATIONS
19	Structural investigation of the (110) surface of $\sqrt{3}$ -Al ₃ Cu ₉ . Physical Review B, 2010, 82, .	3.2	25
20	Catalytic properties of Al ₁₃ TM ₄ complex intermetallics: influence of the transition metal and the surface orientation on butadiene hydrogenation. Science and Technology of Advanced Materials, 2019, 20, 557-567.	6.1	25
21	Step structure on the fivefold Al-Pd-Mn quasicrystal surface, and on related surfaces. Surface Science, 2005, 583, 4-15.	1.9	22
22	Building 2D quasicrystals from 5-fold symmetric corannulene molecules. Nano Research, 2018, 11, 2129-2138.	10.4	21
23	Structural Investigation of the (001) Surface of the Al ₉ Co ₂ Complex Metallic Alloy. Journal of Physical Chemistry C, 2011, 115, 14922-14932.	3.1	20
24	Complex metallic alloys as new materials for additive manufacturing. Science and Technology of Advanced Materials, 2014, 15, 024802.	6.1	20
25	Bonding network and stability of clusters: the case study of Al ₁₃ TM ₄ pseudo-tenfold surfaces. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 314-324.	0.1	18
26	Aperiodic and modulated Pb thin films on fivefold icosahedral Al-Cu-Fe and Al(111): Tailoring the structure of Pb. Physical Review B, 2009, 79, .	3.2	17
27	Lead adsorption on the Al ₁₃ Co ₄ (100) surface: heterogeneous nucleation and pseudomorphic growth. New Journal of Physics, 2011, 13, 103011.	2.9	17
28	Complex metallic surface phases in the Al/Cu(111) system: An experimental and computational study. Physical Review B, 2009, 80, .	3.2	16
29	Quasiperiodic Pb monolayer on the fivefold $\sqrt{3}$ -Al-Pd-Mn surface: Structure and electronic properties. Physical Review B, 2010, 82, .	3.2	16
30	Semihydrogenation of Acetylene on Al ₅ Co ₂ Surfaces. Journal of Physical Chemistry C, 2017, 121, 4958-4969.	3.1	16
31	Twofold surface of the decagonal Al-Cu-Co quasicrystal. Physical Review B, 2009, 80, .	3.2	14
32	Structure and Growth of Height-Selected Ag Islands on Fivefold $\sqrt{3}$ -Al-Pd-Mn Quasicrystalline Surfaces: STM Analysis and Step Dynamics Modeling. Physical Review Letters, 2009, 102, 196103.	7.8	14
33	Thin Film Growth on Quasicrystalline Surfaces. Israel Journal of Chemistry, 2011, 51, 1314-1325.	2.3	14
34	Structure of the Al ₁₃ Co ₄ (100) surface: Combination of surface x-ray diffraction and ab initio calculations. Physical Review B, 2016, 94, .	3.2	14
35	Chemical surface ageing in ambient conditions of an Al-Fe-Cr approximant phase. Journal of Physics Condensed Matter, 2007, 19, 376207.	1.8	13
36	Adsorption Properties of the $\sqrt{3}$ -Al ₁₃ Co ₄ (100) Surface toward Molecules Involved in the Semihydrogenation of Acetylene. Journal of Physical Chemistry C, 2014, 118, 23032-23041.	3.1	12

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37	Interplay between bulk atomic clusters and surface structure in complex intermetallic compounds: The case study of the Al ₅ Co ₂ (001) surface. <i>Physical Review B</i> , 2015, 91, .	3.2	12
38	Catalytic Semihydrogenation of Acetylene on the (100) Surface of the o-Al ₁₃ Co ₄ Quasicrystalline Approximant: Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18738-18745.	3.1	12
39	Influence of leaching on surface composition, microstructure, and valence band of single grain icosahedral Al-Cu-Fe quasicrystal. <i>Journal of Chemical Physics</i> , 2015, 142, 094703.	3.0	11
40	Nonwetting Behavior of Al-Co Quasicrystalline Approximants Owing to Their Unique Electronic Structures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15793-15801.	8.0	11
41	From the Surface Structure to Catalytic Properties of Al ₅ Co ₂ (21̄...0): A Study Combining Experimental and Theoretical Approaches. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4552-4562.	3.1	11
42	Surfaces of quasicrystals. <i>Comptes Rendus Physique</i> , 2014, 15, 48-57.	0.9	10
43	Structure of the twofold surface of the icosahedral Ag-In-Yb quasicrystal. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 015001.	1.8	9
44	The (100) surface of the Al ₁₃ Co ₄ quasicrystalline approximant. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1517, 1.	0.1	8
45	Structural investigations of Al ₅ Co ₂ (100) surfaces: Influence of bonding strength and annealing temperature on surface terminations. <i>Physical Review B</i> , 2016, 93, .	3.2	8
46	Fullerene adsorption on intermetallic compounds of increasing structural complexity. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017, 232, 629-645.	0.8	8
47	Oxygen adsorption on the Al ₉ Co ₂ (001) surface: first-principles and STM study. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 355003.	1.8	7
48	C ₆₀ superstructure and carbide formation on the Al-terminated Al ₉ Co ₂ surface. <i>Physical Review B</i> , 2015, 91, .	3.2	7
49	Intermetallic Compounds as Potential Alternatives to Noble Metals in Heterogeneous Catalysis: The Partial Hydrogenation of Butadiene on Al ₄ Cu ₉ (1̄0̄). <i>ChemCatChem</i> , 2017, 9, 2292-2296.	3.9	7
50	Al ₃ AuIr: A New Compound in the Al-Au-Ir System. <i>Inorganic Chemistry</i> , 2015, 54, 7898-7905.	4.0	6
51	Charge Balance Controls the (100) Surface Structure of the Ba ₈ Au _{5.25} Ge _{40.75} Clathrate. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2215-2220.	3.1	6
52	Ba ₈ Au _{5.25} Ge _{40.75} (110): A Nano-Caged Surface Electronically Controlled by Barium and Gold Adatoms. <i>Journal of Physical Chemistry C</i> , 2018, 122, 29298-29306.	3.1	5
53	Pseudo-2-Fold Surface of the Al ₁₃ Co ₄ Catalyst: Structure, Stability, and Hydrogen Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 39787-39797.	8.0	5
54	Metastable Al-Fe intermetallic stabilised by epitaxial relationship. <i>Applied Surface Science</i> , 2020, 533, 147492.	6.1	5

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55	Investigation of the (1 $\bar{1}$ 0 $\bar{0}$) and (0 $\bar{1}$ 0 $\bar{1}$) surfaces of the Al ₅ Fe ₂ intermetallic compound. Applied Surface Science, 2021, 542, 148540.	6.1	4
56	Two-dimensional square and hexagonal oxide quasicrystal approximants in SrTiO ₃ films grown on Pt(111)/Al ₂ O ₃ (001). Physical Chemistry Chemical Physics, 2022, 24, 7253-7263.	2.8	4
57	Impurity phases in icosahedral Ag-In-Yb quasicrystal: Influence in surface structure. Journal of Physics: Conference Series, 2010, 226, 012004.	0.4	3
58	Quasi-ordered C ₆₀ molecular films grown on the pseudo-ten-fold (1 0 0) surface of the Al ₁₃ Co ₄ quasicrystalline approximant. Journal of Physics Condensed Matter, 2016, 28, 355001.	1.8	3
59	Reconstruction of the Al ₁₃ Ru ₄ (010) Approximant Surface Leading to Anisotropic Molecular Adsorption. Journal of Physical Chemistry C, 2017, 121, 22067-22072.	3.1	3
60	Investigation of the (100) Surface of the Ce ₃ Pd ₂₀ Si ₆ Intermetallic Cage Compound. Journal of Physical Chemistry C, 2019, 123, 12355-12366.	3.1	3
61	Pseudomorphic growth mode of Pb on the Al ₁₃ Fe ₄ (0 1 0) approximant surface. Applied Surface Science, 2015, 356, 862-867.	6.1	2
62	The role of three-dimensional bulk clusters in determining surface morphologies of intermetallic compounds: Quasicrystals to clathrates. Journal of Chemical Physics, 2021, 154, 124706.	3.0	2
63	Structure of the Al ₂ Cu(001) and Al ₉ Co ₂ (001) surfaces: role of the covalent-like bonding network and off-stoichiometric effects. Materials Research Society Symposia Proceedings, 2012, 1517, 1.	0.1	1
64	Crystalline and Electronic Structures of the Al _{1+x} V ₂ Sn ₂ (x = 0.19) Intermetallic Compound. Inorganic Chemistry, 2020, 59, 360-366.	4.0	0
65	Ultra-Thin Films on Complex Metallic Alloy Surfaces: A Perspective. Materials Horizons, 2020, , 13-34.	0.6	0
66	Quantum size effects in Ag thin films grown on the fivefold surface of the icosahedral Al-Cu-Fe quasicrystal: Influence of the growth temperature. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2022, 40, 013212.	2.1	0
67	From high temperature phase formation to transition metal substitution in the Fe/Al ₉ Co ₂ (001) system. Applied Surface Science, 2022, 591, 153100.	6.1	0
68	Al ₄ Ir: An Al-Ir Binary-Phase Superstructure of the Ni ₂ Al ₃ Type. Inorganic Chemistry, 2022, 61, 8823-8833.	4.0	0