

Vincent FournÃ©e

List of Publications by Year in descending order

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68
papers

1,373
citations

331670

21
h-index

377865

34
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68
all docs

68
docs citations

68
times ranked

618
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum size effects in Ag thin films grown on the fivefold surface of the icosahedral Al-Cu-Fe quasicrystal: Influence of the growth temperature. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2022, 40, 013212.	2.1	0
2	Two-dimensional square and hexagonal oxide quasicrystal approximants in SrTiO ₃ films grown on Pt(111)/Al ₂ O ₃ (0001). <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7253-7263.	2.8	4
3	From high temperature phase formation to transition metal substitution in the Fe/Al ₉ Co ₂ (001) system. <i>Applied Surface Science</i> , 2022, 591, 153100.	6.1	0
4	Al ₄ Ir: An Al-Ir Binary-Phase Superstructure of the Ni ₂ Al ₃ Type. <i>Inorganic Chemistry</i> , 2022, 61, 8823-8833.	4.0	0
5	The role of three-dimensional bulk clusters in determining surface morphologies of intermetallic compounds: Quasicrystals to clathrates. <i>Journal of Chemical Physics</i> , 2021, 154, 124706.	3.0	2
6	Investigation of the (100) and (001) surfaces of the Al ₅ Fe ₂ intermetallic compound. <i>Applied Surface Science</i> , 2021, 542, 148540.	6.1	4
7	Crystalline and Electronic Structures of the Al _{1+x} V ₂ Sn ₂ (x = 0.19) Intermetallic Compound. <i>Inorganic Chemistry</i> , 2020, 59, 360-366.	4.0	0
8	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
9	Metastable Al-Fe intermetallic stabilised by epitaxial relationship. <i>Applied Surface Science</i> , 2020, 533, 147492.	6.1	5
10	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
11	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
12	Ultra-Thin Films on Complex Metallic Alloy Surfaces: A Perspective. <i>Materials Horizons</i> , 2020, , 13-34.	0.6	0
13	Catalytic properties of Al ₁₃ TM ₄ complex intermetallics: influence of the transition metal and the surface orientation on butadiene hydrogenation. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 557-567.	6.1	25
14	Investigation of the (100) Surface of the Ce ₃ Pd ₂₀ Si ₆ Intermetallic Cage Compound. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12355-12366.	3.1	3
15	Bonding network and stability of clusters: the case study of Al ₁₃ TM ₄ pseudo-tenfold surfaces. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, 314-324.	0.1	18
16	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
17	Building 2D quasicrystals from 5-fold symmetric corannulene molecules. <i>Nano Research</i> , 2018, 11, 2129-2138.	10.4	21
18	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

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19	Intermetallic Compounds as Potential Alternatives to Noble Metals in Heterogeneous Catalysis: The Partial Hydrogenation of Butadiene on $\text{Al}_{13}\text{Cu}_9$ (100). ChemCatChem, 2017, 8, 2292-2296.		7
20	Fullerene adsorption on intermetallic compounds of increasing structural complexity. Zeitschrift Fur Kristallographie - Crystalline Materials, 2017, 232, 629-645.	0.8	8
21	Semihydrogenation of Acetylene on Al_5Co_2 Surfaces. Journal of Physical Chemistry C, 2017, 121, 4958-4969.	3.1	16
22	Reconstruction of the $\text{Al}_{13}\text{Ru}_4$ (010) Approximant Surface Leading to Anisotropic Molecular Adsorption. Journal of Physical Chemistry C, 2017, 121, 22067-22072.	3.1	3
23	Catalytic Semihydrogenation of Acetylene on the (100) Surface of the $\text{Al}_{13}\text{Co}_4$ Quasicrystalline Approximant: Density Functional Theory Study. Journal of Physical Chemistry C, 2017, 121, 18738-18745.	3.1	12
24	Structure of the $\text{Al}_{13}\text{Co}_4$ (100) surface: Combination of surface x-ray diffraction and ab initio calculations. Physical Review B, 2016, 94, .	3.2	14
25	Quasi-ordered C_{60} molecular films grown on the pseudo-ten-fold (1 0 0) surface of the $\text{Al}_{13}\text{Co}_4$ quasicrystalline approximant. Journal of Physics Condensed Matter, 2016, 28, 355001.	1.8	3
26	Structural investigations of Al_5C_6 (100) surfaces: Influence of bonding strength and annealing temperature on surface terminations. Physical Review B, 2016, 93, .	3.2	8
27	Interplay between bulk atomic clusters and surface structure in complex intermetallic compounds: The case study of the Al_5Co_2 surface. Physical Review B, 2015, 91, .	3.2	12
28	Structural investigations of C_{60} molecular films grown on the pseudo-ten-fold (1 0 0) surface of the $\text{Al}_{13}\text{Co}_4$ quasicrystalline approximant. Journal of Physics Condensed Matter, 2016, 28, 355001.	3.2	7
29	Influence of leaching on surface composition, microstructure, and valence band of single grain icosahedral Al-Cu-Fe quasicrystal. Journal of Chemical Physics, 2015, 142, 094703.	3.0	11
30	Pseudomorphic growth mode of Pb on the $\text{Al}_{13}\text{Fe}_4$ (0 1 0) approximant surface. Applied Surface Science, 2015, 356, 862-867.	6.1	2
31	Al_3AuIr : A New Compound in the AlAuIr System. Inorganic Chemistry, 2015, 54, 7898-7905.	4.0	6
32	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
33	Surfaces of quasicrystals. Comptes Rendus Physique, 2014, 15, 48-57.	0.9	10
34	A novel quasicrystal-resin composite for stereolithography. Materials & Design, 2014, 56, 280-285.	5.1	52
35	Structure of the twofold surface of the icosahedral AgInYb quasicrystal. Journal of Physics Condensed Matter, 2014, 26, 015001.	1.8	9
36	Complex metallic alloys as new materials for additive manufacturing. Science and Technology of Advanced Materials, 2014, 15, 024802.	6.1	20

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37	Self-Organized Molecular Films with Long-Range Quasiperiodic Order. ACS Nano, 2014, 8, 3646-3653.	14.6	28
38	Adsorption Properties of the $\text{Al}_{13}\text{Co}_4(100)$ Surface toward Molecules Involved in the Semihydrogenation of Acetylene. Journal of Physical Chemistry C, 2014, 118, 23032-23041.	3.1	12
39	Structural Investigation of the (010) Surface of the $\text{Al}_{13}\text{Co}_4$ Quasicrystal. Physical Review Letters, 2013, 110, 076102.	7.8	39
40	Oxygen adsorption on the $\text{Al}_9\text{Co}_2(001)$ surface: first-principles and STM study. Journal of Physics Condensed Matter, 2013, 25, 355003.	1.8	7
41	The (100) surface of the $\text{Al}_{13}\text{Co}_4$ quasicrystalline approximant. Materials Research Society Symposia Proceedings, 2013, 1517, 1.	0.1	8
42	Structure of the $\text{Al}_2\text{Cu}(001)$ and $\text{Al}_9\text{Co}_2(001)$ surfaces: role of the covalent-like bonding network and off-stoichiometric effects. Materials Research Society Symposia Proceedings, 2012, 1517, 1.	0.1	1
43	Quasicrystal-polymer composites for selective laser sintering technology. Materials & Design, 2012, 35, 691-695.	5.1	70
44	Structural Investigation of the (001) Surface of the Al_9Co_2 Complex Metallic Alloy. Journal of Physical Chemistry C, 2011, 115, 14922-14932.	3.1	20
45	Structure of the orthorhombic $\text{Al}_{13}\text{Co}_4(100)$ surface using LEED, STM, and ab initio studies. Physical Review B, 2011, 84, .	3.2	41
46	Thin Film Growth on Quasicrystalline Surfaces. Israel Journal of Chemistry, 2011, 51, 1314-1325.	2.3	14
47	Lead adsorption on the $\text{Al}_{13}\text{Co}_4(100)$ surface: heterogeneous nucleation and pseudomorphic growth. New Journal of Physics, 2011, 13, 103011.	2.9	17
48	Impurity phases in icosahedral Ag-In-Yb quasicrystal: Influence in surface structure. Journal of Physics: Conference Series, 2010, 226, 012004.	0.4	3
49	Structural investigation of the (110) surface of $\text{Al}_3\text{-Al}_4\text{Cu}_9$. Physical Review B, 2010, 82, .	3.2	25
50	Quasiperiodic Pb monolayer on the fivefold Al-Pd-Mn surface: Structure and electronic properties. Physical Review B, 2010, 82, .	3.2	16
51	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
52	Twofold surface of the decagonal Al-Cu-Co quasicrystal. Physical Review B, 2009, 80, .	3.2	14
53	Nucleation of Pb starfish clusters on the five-fold Al-Pd-Mn quasicrystal surface. Physical Review B, 2009, 79, .	3.2	40
54	Structure and Growth of Height-Selected Ag Islands on Fivefold Al-Pd-Mn Quasicrystalline Surfaces: STM Analysis and Step Dynamics Modeling. Physical Review Letters, 2009, 102, 196103.	7.8	14

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55	Complex metallic surface phases in the Al/Cu(111) system: An experimental and computational study. Physical Review B, 2009, 80, .	3.2	16
56	Structure investigation of the (100) surface of the orthorhombic $Al_{13}Mn$. Physical Review B, 2009, 80, .	3.2	13
57	Self-assembly, structure, and electronic properties of a quasiperiodic lead monolayer. Physical Review B, 2008, 77, .	3.2	60
58	Chemical surface ageing in ambient conditions of an $Al-Fe-Cr$ approximant phase. Journal of Physics Condensed Matter, 2007, 19, 376207.	1.8	13
59	Step structure on the fivefold $Al-Pd-Mn$ quasicrystal surface, and on related surfaces. Surface Science, 2005, 583, 4-15.	1.9	22
60	Quantum Size Effects in Metal Thin Films Grown on Quasicrystalline Substrates. Physical Review Letters, 2005, 95, 155504.	7.8	70
61	New phenomena in epitaxial growth: solid films on quasicrystalline substrates. Journal Physics D: Applied Physics, 2005, 38, R83-R106.	2.8	76
62	Maximum density rule for bulk terminations of quasicrystals. Physical Review B, 2004, 69, .	3.2	50
63	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
64	Pseudomorphic starfish: nucleation of extrinsic metal atoms on a quasicrystalline substrate. Surface Science, 2003, 526, 115-120.	1.9	75
65	Nucleation and growth of Ag films on a quasicrystalline AlPdMn surface. Physical Review B, 2003, 67, .	3.2	56
66	Electronic structure of Al-Pd-Mn crystalline and quasicrystalline alloys. Journal of Physics Condensed Matter, 2002, 14, 87-102.	1.8	29
67	Electronic structure of quasicrystalline surfaces: Effects of surface preparation and bulk structure. Physical Review B, 2000, 62, 14049-14060.	3.2	39
68	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