

Frédéric Wiame

List of Publications by Year in descending order

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56
papers

1,236
citations

471509

17
h-index

395702

33
g-index

56
all docs

56
docs citations

56
times ranked

1571
citing authors

#	ARTICLE	IF	CITATIONS
1	XPS study of oxide nucleation and growth mechanisms on a model FeCrNiMo stainless steel surface. Applied Surface Science, 2022, 575, 151681.	6.1	19
2	Effect of Nb on the surface composition of FeCrAl alloys after anodic polarization. Materials and Design, 2022, 219, 110728.	7.0	1
3	Surface Modifications Induced by Pretreatments and Effects on The Chemical Structure of TCP Conversion Coating on Al-Cu-Li Alloy (AA2050). Journal of the Electrochemical Society, 2021, 168, 041504.	2.9	3
4	Molecular scale insights into interaction mechanisms between organic inhibitor film and copper. Npj Materials Degradation, 2021, 5, .	5.8	11
5	Localized corrosion induced surface modifications of Al-Cu-Li alloy studied by ToF-SIMS 3D imaging. Npj Materials Degradation, 2021, 5, .	5.8	10
6	An XPS and ToF-SIMS study of the passive film formed on a model FeCrNiMo stainless steel surface in aqueous media after thermal pre-oxidation at ultra-low oxygen pressure. Applied Surface Science, 2021, 554, 149435.	6.1	20
7	Effects of water vapour on 2-mercaptobenzothiazole corrosion inhibitor films deposited on copper. Corrosion Science, 2021, 189, 109565.	6.6	12
8	Nanoscale early oxidation mechanisms of model FeCrNi austenitic stainless steel surfaces at room temperature. Corrosion Science, 2021, 190, 109653.	6.6	13
9	Insights on the Al-Cu-Fe-Mn intermetallic particles induced pitting corrosion of Al-Cu-Li alloy. Corrosion Science, 2020, 176, 109040.	6.6	29
10	Effect of thermal oxidation on surface chemistry and elemental segregation of Al-Cu-Li alloy. Applied Surface Science, 2020, 534, 147633.	6.1	7
11	2-Mercaptobenzimidazole films formed at ultra-low pressure on copper: adsorption, thermal stability and corrosion inhibition performance. Applied Surface Science, 2020, 527, 146814.	6.1	28
12	2-Mercaptobenzothiazole corrosion inhibitor deposited at ultra-low pressure on model copper surfaces. Corrosion Science, 2020, 166, 108464.	6.6	44
13	Moiré Structure of the 2-Mercaptobenzothiazole Corrosion Inhibitor Adsorbed on a (111)-Oriented Copper Surface. Journal of Physical Chemistry C, 2020, 124, 15995-16001.	3.1	14
14	Passivation mechanisms and pre-oxidation effects on model surfaces of FeCrNi austenitic stainless steel. Corrosion Science, 2020, 167, 108483.	6.6	43
15	Adsorption and thermal stability of 2-mercaptobenzothiazole corrosion inhibitor on metallic and pre-oxidized Cu(1 1 1) model surfaces. Applied Surface Science, 2020, 508, 145132.	6.1	33
16	Water desorption effects on the surface electrical resistance of air-exposed hydrogenated diamond. Applied Surface Science, 2020, 512, 145491.	6.1	5
17	Passivation-Induced Cr and Mo Enrichments of 316L Stainless Steel Surfaces and Effects of Controlled Pre-Oxidation. Journal of the Electrochemical Society, 2020, 167, 141509.	2.9	31
18	Origin of nanoscale heterogeneity in the surface oxide film protecting stainless steel against corrosion. Npj Materials Degradation, 2019, 3, .	5.8	41

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19	Stainless steel surface structure and initial oxidation at nanometric and atomic scales. Applied Surface Science, 2019, 494, 8-12.	6.1	20
20	Laser-Induced Periodic Surface Structures (LIPSS) on Heavily Boron-Doped Diamond for Electrode Applications. ACS Applied Materials & Interfaces, 2018, 10, 43236-43251.	8.0	49
21	New insight on early oxidation stages of austenitic stainless steel from in situ XPS analysis on single-crystalline Fe ⁵⁶ Cr ⁵³ Ni. Corrosion Science, 2018, 140, 205-216.	6.6	60
22	Strategies for the growth of large-scale self-organized structures. Thin Solid Films, 2017, 642, 258-275.	1.8	5
23	Size-dependent reactivity of self-organized nanostructured O/Cu(110) surfaces towards H ₂ S. Surface Science, 2017, 655, 49-54.	1.9	3
24	Dynamics of 2D islands formed by sulfur adsorption on an O/Cu(110) nanotemplate: an STM study. Surface Science, 2017, 655, 55-60.	1.9	1
25	Zn effect on STM imaging of brass surfaces. Surface Science, 2016, 644, 148-152.	1.9	7
26	Oxidation of the 8 Å ² -reconstructed $\sqrt{2}\times\sqrt{2}$ -Si ₃ N ₄ (0 0 0 1) surface: A photoemission study. Applied Surface Science, 2015, 355, 93-97.	6.1	8
27	Tuning self-organized O/Cu(110) nanostructures by co-adsorption of sulfur. Surface Science, 2015, 636, L1-L4.	1.9	3
28	Oxidation of $\sqrt{2}\times\sqrt{2}$ -brass: A photoelectron spectroscopy study. Surface Science, 2015, 641, 51-59.	1.9	15
29	Nearly-free electronlike surface resonance of a $\sqrt{2}\times\sqrt{2}$ -Si ₃ N ₄ (0 0 0 1) surface: A photoemission study. Physical Review B, 2015, 91, .	3.2	11
30	Intergranular effects on the local electronic properties of the passive film on nickel. Corrosion Science, 2013, 69, 245-251.	6.6	23
31	Local Electronic Properties of the Passive Film on Nickel Studied by Scanning Tunneling Spectroscopy. Journal of the Electrochemical Society, 2012, 159, C351-C356.	2.9	20
32	Novel nanostructuring of the O/Cu(110) surface by reaction to oxygen. Surface Science, 2012, 606, L26-L30.	1.9	9
33	Thermal stability of the Co/ $\sqrt{2}\times\sqrt{2}$ -Si ₃ N ₄ /Si(111) interface: A photoemission study. Surface Science, 2012, 606, 1215-1220.	1.9	7
34	Reconstruction of TiAl Intermetallic Surfaces: A Combined STM and DFT Study. Journal of Physical Chemistry C, 2011, 115, 3372-3377.	3.1	11
35	Cs-induced charge transfer on $\sqrt{2}\times\sqrt{2}$ -Si ₃ N ₄ (0 0 0 1) surface: A photoemission study. Physical Review B, 2010, 81, .		
36	Brass Surface Nanochemistry: The Role of Alloying Cu with Zn. Journal of Physical Chemistry C, 2008, 112, 7540-7543.	3.1	21

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37	Thermal behavior of the Au/c-Si ₃ N ₄ /Si(111) interface. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	10
38	Comparison of the electronic structure of anatase and rutile TiO ₂ single-crystal surfaces using resonant photoemission and x-ray absorption spectroscopy. <i>Physical Review B</i> , 2007, 75, .	3.2	249
39	Initial stages of oxidation of Cu(111). <i>Surface Science</i> , 2007, 601, 1193-1204.	1.9	119
40	Initial stages of oxidation of Cu _{0.7} Zn _{0.3} (111). <i>Surface Science</i> , 2007, 601, 4402-4406.	1.9	16
41	Insulator-metal phase transitions of alkali atoms on GaAs(001). <i>Surface Science</i> , 2006, 600, 287-297.	1.9	10
42	Reactivity to sulphur of clean and pre-oxidised Cu(111) surfaces. <i>Surface Science</i> , 2006, 600, 3540-3543.	1.9	8
43	Chemically prepared well-ordered InP(001) surfaces. <i>Surface Science</i> , 2006, 600, 3160-3166.	1.9	22
44	Crystalline silicon nitride passivating the Si(111) surface: A study of the Au growth mode. <i>Surface Science</i> , 2005, 579, 188-196.	1.9	17
45	Atomic structure of the Te-Si(100) surface. <i>Physical Review B</i> , 2005, 72, .	3.2	1
46	Structural and electronic properties of Ag-Pd superlattices. <i>Physical Review B</i> , 2004, 70, .	3.2	8
47	Effects of annealing on the structure of the Au/Si(111)-H interface. <i>Surface Science</i> , 2004, 564, 121-130.	1.9	13
48	Growth of atomically flat Ag on mica. <i>Surface Science</i> , 2004, 572, 459-466.	1.9	11
49	Co/Si(111) and Co/Si(111)-H interfaces: a comparative core-level photoemission study. <i>Applied Surface Science</i> , 2004, 233, 411-418.	6.1	9
50	Electronic structure of Ag-Pd heterostructures. <i>Computational Materials Science</i> , 2004, 30, 34-43.	3.0	3
51	Preparation of clean reconstructed InAs(001) surfaces using HCl/isopropanol wet treatments. <i>Applied Physics Letters</i> , 2003, 82, 4280-4282.	3.3	47
52	Selective epitaxy of cadmium telluride on silicon by MBE. <i>Journal of Electronic Materials</i> , 2000, 29, 760-764.	2.2	15
53	Study of the CdTe/As/Si(111) interface by scanning tunneling microscopy and X-ray photoelectron spectroscopy. <i>Surface Science</i> , 2000, 454-456, 818-822.	1.9	5
54	STM study of the Te/Si(100) interface. <i>Applied Surface Science</i> , 1999, 142, 475-480.	6.1	15

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55	HREELS, IR and SFG investigation of undoped and doped adsorbed fullerenes. Surface Science, 1999, 427-428, 79-84.	1.9	12
56	RbF/Ge(111) interface formation studied by LEED, XPS, and UPS. Physical Review B, 1996, 54, 4480-4483.	3.2	1