

# 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	Comparison of the electronic structure of anatase and rutile TiO <sub>2</sub> single-crystal surfaces using resonant photoemission and x-ray absorption spectroscopy. <i>Physical Review B</i> , 2007, 75, .	3.2	249
2	Initial stages of oxidation of Cu(111). <i>Surface Science</i> , 2007, 601, 1193-1204.	1.9	119
3	New insight on early oxidation stages of austenitic stainless steel from in situ XPS analysis on single-crystalline Fe <sup>18</sup> Cr <sup>13</sup> Ni. <i>Corrosion Science</i> , 2018, 140, 205-216.	6.6	60
4	Laser-Induced Periodic Surface Structures (LIPSS) on Heavily Boron-Doped Diamond for Electrode Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 43236-43251.	8.0	49
5	Preparation of clean reconstructed InAs(001) surfaces using HCl/isopropanol wet treatments. <i>Applied Physics Letters</i> , 2003, 82, 4280-4282.	3.3	47
6	2-Mercaptobenzothiazole corrosion inhibitor deposited at ultra-low pressure on model copper surfaces. <i>Corrosion Science</i> , 2020, 166, 108464.	6.6	44
7	Passivation mechanisms and pre-oxidation effects on model surfaces of FeCrNi austenitic stainless steel. <i>Corrosion Science</i> , 2020, 167, 108483.	6.6	43
8	Origin of nanoscale heterogeneity in the surface oxide film protecting stainless steel against corrosion. <i>Npj Materials Degradation</i> , 2019, 3, .	5.8	41
9	Adsorption and thermal stability of 2-mercaptobenzothiazole corrosion inhibitor on metallic and pre-oxidized Cu(1 1 1) model surfaces. <i>Applied Surface Science</i> , 2020, 508, 145132.	6.1	33
10	Passivation-Induced Cr and Mo Enrichments of 316L Stainless Steel Surfaces and Effects of Controlled Pre-Oxidation. <i>Journal of the Electrochemical Society</i> , 2020, 167, 141509.	2.9	31
11	Insights on the Al-Cu-Fe-Mn intermetallic particles induced pitting corrosion of Al-Cu-Li alloy. <i>Corrosion Science</i> , 2020, 176, 109040.	6.6	29
12	2-Mercaptobenzimidazole films formed at ultra-low pressure on copper: adsorption, thermal stability and corrosion inhibition performance. <i>Applied Surface Science</i> , 2020, 527, 146814.	6.1	28
13	Intergranular effects on the local electronic properties of the passive film on nickel. <i>Corrosion Science</i> , 2013, 69, 245-251.	6.6	23
14	Chemically prepared well-ordered InP(001) surfaces. <i>Surface Science</i> , 2006, 600, 3160-3166.	1.9	22
15	Brass Surface Nanochemistry: The Role of Alloying Cu with Zn. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7540-7543.	3.1	21
16	Local Electronic Properties of the Passive Film on Nickel Studied by Scanning Tunneling Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2012, 159, C351-C356.	2.9	20
17	Stainless steel surface structure and initial oxidation at nanometric and atomic scales. <i>Applied Surface Science</i> , 2019, 494, 8-12.	6.1	20
18	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. <i>Applied Surface Science</i> , 2021, 554, 149435.	6.1	20

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19	XPS study of oxide nucleation and growth mechanisms on a model FeCrNiMo stainless steel surface. Applied Surface Science, 2022, 575, 151681.	6.1	19
20	Crystalline silicon nitride passivating the Si(111) surface: A study of the Au growth mode. Surface Science, 2005, 579, 188-196.	1.9	17
21	Initial stages of oxidation of Cu <sub>0.7</sub> Zn <sub>0.3</sub> (111). Surface Science, 2007, 601, 4402-4406.	1.9	16
22	STM study of the Te/Si(100) interface. Applied Surface Science, 1999, 142, 475-480.	6.1	15
23	Selective epitaxy of cadmium telluride on silicon by MBE. Journal of Electronic Materials, 2000, 29, 760-764.	2.2	15
24	Oxidation of $\beta$ -brass: A photoelectron spectroscopy study. Surface Science, 2015, 641, 51-59.	1.9	15
25	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
26	Effects of annealing on the structure of the Au/Si(111)-H interface. Surface Science, 2004, 564, 121-130.	1.9	13
27	Nanoscale early oxidation mechanisms of model FeCrNi austenitic stainless steel surfaces at room temperature. Corrosion Science, 2021, 190, 109653.	6.6	13
28	HREELS, IR and SFG investigation of undoped and doped adsorbed fullerenes. Surface Science, 1999, 427-428, 79-84.	1.9	12
29	Effects of water vapour on 2-mercaptobenzothiazole corrosion inhibitor films deposited on copper. Corrosion Science, 2021, 189, 109565.	6.6	12
30	Growth of atomically flat Ag on mica. Surface Science, 2004, 572, 459-466.	1.9	11
31	Reconstruction of TiAl Intermetallic Surfaces: A Combined STM and DFT Study. Journal of Physical Chemistry C, 2011, 115, 3372-3377.	3.1	11
32	Nearly-free electronlike surface resonance of a $\text{Si}^2\hat{\alpha}^3\text{N}^4$ Physical Review B, 2015, 91, .	3.2	11
33	Molecular scale insights into interaction mechanisms between organic inhibitor film and copper. Npj Materials Degradation, 2021, 5, .	5.8	11
34	Insulator-metal phase transitions of alkali atoms on GaAs(001). Surface Science, 2006, 600, 287-297.	1.9	10
35	Thermal behavior of the Au/c-Si <sub>3</sub> N <sub>4</sub> /Si(111) interface. Journal of Applied Physics, 2008, 103, .	2.5	10
36	Localized corrosion induced surface modifications of Al-Cu-Li alloy studied by ToF-SIMS 3D imaging. Npj Materials Degradation, 2021, 5, .	5.8	10

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37	Co/Si(111) and Co/Si(111)-H interfaces: a comparative core-level photoemission study. Applied Surface Science, 2004, 233, 411-418.	6.1	9
38	Novel nanostructuring of the O/Cu(110) surface by reaction to oxygen. Surface Science, 2012, 606, L26-L30.	1.9	9
39	Structural and electronic properties of Ag-Pdsuperlattices. Physical Review B, 2004, 70, .	3.2	8
40	Reactivity to sulphur of clean and pre-oxidised Cu(111) surfaces. Surface Science, 2006, 600, 3540-3543.	1.9	8
41	Cs-induced charge transfer on $\sqrt{2} \times \sqrt{2}$ Cs-adsorbed Si(111) surface studied by photoemission. Physical Review B, 2010, 81, .	6.1	8
42	Oxidation of the $\sqrt{2} \times \sqrt{2}$ -reconstructed $\beta$ -Si <sub>3</sub> N <sub>4</sub> (0 0 0 1) surface: A photoemission study. Applied Surface Science, 2015, 355, 93-97.	6.1	8
43	Thermal stability of the $\sqrt{2} \times \sqrt{2}$ -Si <sub>3</sub> N <sub>4</sub> /Si(111) interface: A photoemission study. Surface Science, 2012, 606, 1215-1220.	1.9	7
44	Zn effect on STM imaging of brass surfaces. Surface Science, 2016, 644, 148-152.	1.9	7
45	Effect of thermal oxidation on surface chemistry and elemental segregation of Al-Cu-Li alloy. Applied Surface Science, 2020, 534, 147633.	6.1	7
46	Study of the CdTe/As/Si(111) interface by scanning tunneling microscopy and X-ray photoelectron spectroscopy. Surface Science, 2000, 454-456, 818-822.	1.9	5
47	Strategies for the growth of large-scale self-organized structures. Thin Solid Films, 2017, 642, 258-275.	1.8	5
48	Water desorption effects on the surface electrical resistance of air-exposed hydrogenated diamond. Applied Surface Science, 2020, 512, 145491.	6.1	5
49	Electronic structure of Ag-Pd heterostructures. Computational Materials Science, 2004, 30, 34-43.	3.0	3
50	Tuning self-organized O/Cu(110) nanostructures by co-adsorption of sulfur. Surface Science, 2015, 636, L1-L4.	1.9	3
51	Size-dependent reactivity of self-organized nanostructured O/Cu(110) surfaces towards H <sub>2</sub> S. Surface Science, 2017, 655, 49-54.	1.9	3
52	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
53	RbF/Ge(111) interface formation studied by LEED, XPS, and UPS. Physical Review B, 1996, 54, 4480-4483.	3.2	1
54	Atomic structure of the Te-Si(100)-(2 $\times$ 1) surface. Physical Review B, 2005, 72, .	3.2	1

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55	Dynamics of 2D adislands formed by sulfur adsorption on an O/Cu(110) nanotemplate: an STM study. Surface Science, 2017, 655, 55-60.	1.9	1
56	Effect of Nb on the surface composition of FeCrAl alloys after anodic polarization. Materials and Design, 2022, 219, 110728.	7.0	1