

# Antoine Barbier

## List of Publications by Year in descending order

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29  
papers

886  
citations

758635

12  
h-index

580395

25  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1665  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Monitoring of Growing Nanoparticles. <i>Science</i> , 2003, 300, 1416-1419.	6.0	347
2	Oxygen Vacancies Engineering of Iron Oxides Films for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2016, 120, 7482-7490.	1.5	100
3	Single Crystalline Hematite Films for Solar Water Splitting: Ti-Doping and Thickness Effects. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3007-3014.	1.5	95
4	Stability of Rocksalt (111) Polar Surfaces: Beyond the Octopole. <i>Physical Review Letters</i> , 2004, 92, 136101.	2.9	88
5	Fast pole figure acquisition using area detectors at the DiffAbs beamline at Synchrotron SOLEIL. <i>Journal of Applied Crystallography</i> , 2013, 46, 1842-1853.	1.9	47
6	Surface and Bulk Spin Ordering of Antiferromagnetic Materials: NiO(111). <i>Physical Review Letters</i> , 2004, 93, 257208.	2.9	31
7	Cross-Correlation between Strain, Ferroelectricity, and Ferromagnetism in Epitaxial Multiferroic CoFe <sub>2</sub> O <sub>4</sub> /BaTiO <sub>3</sub> Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28003-28014.	4.0	22
8	Generalized model for interface description. <i>Surface Science</i> , 1998, 406, 69-89.	0.8	20
9	Dislocation network driven structural relaxation in hematite thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 144, 19-22.	1.7	20
10	Local electronic structure and photoelectrochemical activity of partial chemically etched Ti-doped hematite. <i>Surface Science</i> , 2015, 641, 310-313.	0.8	16
11	Atomic and electronic structure of trilayer graphene/SiC(0001): Evidence of Strong Dependence on Stacking Sequence and charge transfer. <i>Scientific Reports</i> , 2016, 6, 33487.	1.6	16
12	Origin and Tailoring of the Antiferromagnetic Domain Structure in $\text{FeO}/\text{TiO}_2/\text{FeO}$ Thin Films Unraveled by Statistical Analysis of Dichroic Spectromicroscopy (X-Ray Photoemission Electron) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 28	2.9	12
13	Manipulating the ferroelectric polarization state of BaTiO <sub>3</sub> thin films. <i>Thin Solid Films</i> , 2016, 607, 7-13.	0.8	12
14	Resistive Switching and Redox Process at the BaTiO <sub>3</sub> /(La,Sr)MnO <sub>3</sub> Multiferroic-Type Interface. <i>Advanced Electronic Materials</i> , 2021, 7, .	2.6	11
15	Fast X-ray reflectivity measurements using an X-ray pixel area detector at the DiffAbs beamline, Synchrotron SOLEIL. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 204-213.	1.0	8
16	Tunnel-mediated coupling between antiferromagnetic thin films. <i>Physical Review B</i> , 2014, 90, .	1.1	7
17	Fast pole figure acquisition using area detectors at the DiffAbs beamline at Synchrotron SOLEIL. Erratum. <i>Journal of Applied Crystallography</i> , 2014, 47, 482-482.	1.9	7
18	Unraveling the Surface Reactivity of Pristine and Ti-Doped Hematite with Water. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11520-11527.	2.1	5

#	ARTICLE	IF	CITATIONS
19	X-ray diffraction imaging of metal-oxide epitaxial tunnel junctions made by optical lithography: use of focused and unfocused X-ray beams. Journal of Synchrotron Radiation, 2013, 20, 355-365.	1.0	4
20	Electrostriction, Electroresistance, and Electromigration in Epitaxial BaTiO <sub>3</sub> -Based Heterostructures: Role of Interfaces and Electric Poling. ACS Applied Nano Materials, 2019, 2, 3556-3569.	2.4	4
21	Finite size effect on the structural and magnetic properties of MnAs/GaAs(001) patterned microstructures thin films. Scientific Reports, 2017, 7, 16970.	1.6	3
22	Mn <sub>0.7</sub> Fe <sub>2.3</sub> O <sub>4</sub> Nanoplatelets Embedded in BaTiO <sub>3</sub> Perovskite Thin Films for Multifunctional Composite Barriers. ACS Applied Nano Materials, 2020, 3, 327-341.	2.4	3
23	Resonant PhotoEmission Spectroscopy Investigation of Fe <sub>2</sub> O <sub>3</sub> - TiO <sub>2</sub> Heterojunctions for Solar Water Splitting. Physics Procedia, 2016, 85, 4-11.	1.2	2
24	Two-dimensional resonant magnetic soft X-ray scattering set-up for extreme sample environment. Journal of Synchrotron Radiation, 2013, 20, 181-189.	1.0	1
25	Selected Synchrotron Radiation Techniques. , 2012, , 2322-2344.		1
26	Single and heterostructure multiferroic thin films. , 2018, , 487-514.		0
27	Selected Synchrotron Radiation Techniques. , 2015, , 1-24.		0
28	Selected Synchrotron Radiation Techniques. , 2016, , 3553-3576.		0
29	Properties of self-oxidized single crystalline perovskite N:BaTiO <sub>3</sub> oxynitrides epitaxial thin films. Materials Advances, 0, , .	2.6	0