Claudia Cancellieri

List of Publications by Year
in descending order

62	2,954	257450	161849
papers	citations	24 h-index	54 g-index

64	64	64	3692
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mixed anodic oxides for forming-free memristors revealed by combinatorial screening of hafnium-tantalum system. Applied Materials Today, 2022, 26, 101270.	4.3	9
2	Impact of Electrolyte Incorporation in Anodized Niobium on Its Resistive Switching. Nanomaterials, 2022, 12, 813.	4.1	8
3	Reduction of thermally grown single-phase CuO and Cu2O thin films by in-situ time-resolved XRD. Applied Surface Science, 2022, 588, 152896.	6.1	26
4	Fluorinated ether electrolyte with controlled solvation structure for high voltage lithium metal batteries. Nature Communications, 2022, 13, 2575.	12.8	147
5	Stress tuning in sputter-grown Cu and W films for Cu/W nanomultilayer design. Journal of Applied Physics, 2022, 131, .	2.5	6
6	Strain depth profiles in thin films extracted from in-plane X-ray diffraction. Journal of Applied Crystallography, 2021, 54, 87-98.	4.5	2
7	Hard x-ray photoelectron spectroscopy: a snapshot of the state-of-the-art in 2020. Journal of Physics Condensed Matter, 2021, 33, 233001.	1.8	55
8	Building a Better Liâ€Garnet Solid Electrolyte/Metallic Li Interface with Antimony. Advanced Energy Materials, 2021, 11, 2102086.	19.5	70
9	A combinatorial guide to phase formation and surface passivation of tungsten titanium oxide prepared by thermal oxidation. Acta Materialia, 2020, 186, 95-104.	7.9	12
10	Effect of internal stress on short-circuit diffusion in thin films and nanolaminates: Application to Cu/W nano-multilayers. Applied Surface Science, 2020, 508, 145254.	6.1	24
11	Enhancing the insulating and dielectric properties of barrier anodic Al2O3 on high purity aluminum. Applied Surface Science, 2020, 505, 144522.	6.1	6
12	Anomalous texture development induced by grain yielding anisotropy in Ni and Ni-Mo alloys. Acta Materialia, 2020, 200, 857-868.	7.9	25
13	Interface and layer periodicity effects on the thermal conductivity of copper-based nanomultilayers with tungsten, tantalum, and tantalum nitride diffusion barriers. Journal of Applied Physics, 2020, 128, .	2.5	11
14	A Robust Metal Oxide Thin Film with Cryogenic Saturation Magnetization Exceeding 2 Tesla. Matter, 2020, 3, 1263-1274.	10.0	3
15	In situ oxidation studies of Cu thin films: Growth kinetics and oxide phase evolution. Journal of Applied Physics, 2020, 127, .	2.5	35
16	Concepts for chemical state analysis at constant probing depth by labâ€based XPS/HAXPES combining soft and hard Xâ€ray sources. Surface and Interface Analysis, 2020, 52, 802-810.	1.8	28
17	High-resolution neutron imaging: a new approach to characterize water in anodic aluminum oxides. Materials Today Advances, 2020, 8, 100121.	5.2	0
18	Effect of the individual layer thickness on the transformation of Cu/W nano-multilayers into nanocomposites. Materialia, 2019, 7, 100400.	2.7	23

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19	k-resolved electronic structure of buried heterostructure and impurity systems by soft-X-ray ARPES. Journal of Electron Spectroscopy and Related Phenomena, 2019, 236, 1-8.	1.7	24
20	Cost-effective sol-gel synthesis of porous CuO nanoparticle aggregates with tunable specific surface area. Scientific Reports, 2019, 9, 11758.	3.3	76
21	Tailoring Fast Directional Mass Transport of Nano-Confined Agâ€“Cu Alloys upon Heating: Effect of the AlN Barrier Thickness. ACS Applied Materials & Interfaces, 2019, 11, 6605-6614.	8.0	9
22	Direct-epitaxial growth of SrAl2O4:Eu,Dy thin films on Al2O3 substrate by pulsed laser deposition. Applied Surface Science, 2019, 491, 53-59.	6.1	3
23	Structural properties of ultrathin SrO film deposited on SrTiO3. Science and Technology of Advanced Materials, 2019, 20, 456-463.	6.1	10
24	Anodizing of Self-Passivating W_xTi_{1â€“x} Precursors for W_xTi_{1â€“x}O_n Oxide Alloys with Tailored Stability. ACS Applied Materials & Interfaces, 2019, 11, 9510-9518.	8.0	8
25	Electrons and Polarons at Oxide Interfaces Explored by Soft-X-Ray ARPES. Springer Series in Materials Science, 2018, , 107-151.	0.6	8
26	The $$ext {LaAlO}_3$$LaAlO3/$$ext {SrTiO}_3$$SrTiO3 Interface: The Origin of the 2D Electron Liquid and the Fabrication. Springer Series in Materials Science, 2018, , 17-35.	0.6	2
27	The Effect of Interfacial Ge and RF-Bias on the Microstructure and Stress Evolution upon Annealing of Ag/AlN Multilayers. Applied Sciences (Switzerland), 2018, 8, 2403.	2.5	10
28	Modeling of Interface and Internal Disorder Applied to XRD Analysis of Ag-Based Nano-Multilayers. ACS Applied Materials & Interfaces, 2018, 10, 20938-20949.	8.0	13
29	Substrate Purity Effect on the Defect Formation and Properties of Amorphous Anodic Barrier Al₂O₃. Journal of the Electrochemical Society, 2018, 165, C422-C431.	2.9	7
30	Orbital Ordering of the Mobile and Localized Electrons at Oxygen-Deficient LaAlO₃/SrTiO₃ Interfaces. ACS Nano, 2018, 12, 7927-7935.	14.6	34
31	Introduction: Interfaces as an Object of Photoemission Spectroscopy. Springer Series in Materials Science, 2018, , 1-16.	0.6	1
32	Electronic and structural characterization of barrier-type amorphous aluminium oxide. Electrochimica Acta, 2017, 224, 503-516.	5.2	24
33	The role of Si incorporation on the anodic growth of barrier-type Al oxide. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 226, 120-131.	3.5	9
34	The effect of thermal treatment on the stress state and evolving microstructure of Cu/W nano-multilayers. Journal of Applied Physics, 2016, 120, .	2.5	29
35	Massive Ag migration through metal/ceramic nano-multilayers: an interplay between temperature, stress-relaxation and oxygen-enhanced mass transport. Journal of Materials Chemistry C, 2016, 4, 4927-4938.	5.5	28
36	Polaronic metal state at the LaAlO3/SrTiO3 interface. Nature Communications, 2016, 7, 10386.	12.8	130

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37	Thermal stability of Cu/W nano-multilayers. Acta Materialia, 2016, 107, 345-353.	7.9	70
38	Mechanical Properties of Ag Nanoparticle Thin Films Synthesized by Supersonic Cluster Beam Deposition. Journal of Physical Chemistry C, 2016, 120, 4673-4681.	3.1	34
39	Nano-Structured Cu/W Brazing Fillers for Advanced Joining Applications. Journal of Materials Science and Engineering B, 2016, 6, .	0.3	6
40	Investigation of thermal stability of Cu/W multilayers by in situ X-ray diffraction. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s418-s418.	0.1	1
41	Growth-induced electron mobility enhancement at the LaAlO3/SrTiO3 interface. Applied Physics Letters, 2015, 106, 051604.	3.3	40
42	Structural evolution of Agâ€“Cu nano-alloys confined between AlN nano-layers upon fast heating. Physical Chemistry Chemical Physics, 2015, 17, 28228-28238.	2.8	25
43	Soft-X-ray ARPES at the Swiss Light Source: From 3D Materials to Buried Interfaces and Impurities. Synchrotron Radiation News, 2014, 27, 31-40.	0.8	39
44	Fabricating superconducting interfaces between artificially grown LaAlO3 and SrTiO3 thin films. APL Materials, 2014, 2, .	5.1	28
45	Doping-dependent band structure of LaAlO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>/SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>interfaces by soft x-ray polarization-controlled resonant angle-resolved photoemission. Physical Review B, 2014, 89, .	3.2	70
46	Chemistry and structure of homoepitaxial SrTiO3 films and their influence on oxide-heterostructure interfaces. Nanoscale, 2014, 6, 2598.	5.6	22
47	The Materials Science beamline upgrade at the Swiss Light Source. Journal of Synchrotron Radiation, 2013, 20, 667-682.	2.4	255
48	Influence of atomic termination on the LaAlO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>/SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>interfacial polar rearrangement. Physical Review B, 2013, 88, .	3.2	20
49	Interface Fermi States of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi Related Heterostructures. Physical Review Letters, 2013, 110, 137601.	7.8	45
50	Tunable conductivity threshold at polar oxide interfaces. Nature Communications, 2012, 3, 932.	12.8	121
51	Electrostriction at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi Physical Review Letters, 2011, 107, 056102.	7.8	151
52	Influence of the growth conditions on the LaAlO ₃ /SrTiO ₃ interface electronic properties. Europhysics Letters, 2010, 91, 17004.	2.0	103
53	Two-Dimensional Quantum Oscillations of the Conductance at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:msub><mml:mi Physical Review Letters, 2010, 105, 236802.	7.8	227
54	Tunable Rashba Spin-Orbit Interaction at Oxide Interfaces. Physical Review Letters, 2010, 104, 126803.	7.8	785

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55	Direct angle resolved photoemission spectroscopy and superconductivity of strained high-T c films. Pramana - Journal of Physics, 2008, 70, 237-243.	1.8	1
56	Fermi surface determination from wavevector quantization in LaSrCuO films. Applied Physics Letters, 2008, 92, .	3.3	1
57	Direct angle resolved photoelectron spectroscopy (DARPES) on high-T_cfilms: doping, strains, Fermi surface topology and superconductivity. Journal of Physics: Conference Series, 2008, 108, 012040.	0.4	1
58	Self-ordering of random intercalates in thin films of cuprate superconductors: Growth model and x-ray diffraction diagnosis. Physical Review B, 2007, 75, .	3.2	5
59	Embedded polytypoids in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Bi</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Sr</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">La</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>	3.2	5
60	Three-dimensional dispersion induced by extreme tensile strain inLa2â^'xSrxCuO4films. Physical Review B, 2006, 74, .	3.2	14
61	Systematic studies of La 2-x Sr x CuO 4 in direct synchrotron light: on the role of compressive against tensile strain. , 2005, , .		0
62	Deposition and Characterization of<tex>$hboxY_1-xhboxCa_xhboxBa_2hboxCu_3hboxO_7-delta$</tex>Epitaxial Thin Films. IEEE Transactions on Applied Superconductivity, 2005, 15, 3038-3041.	1.7	5