

Nicolas Gauquelin

List of Publications by Year in descending order

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papers

2,893
citations

430874

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times ranked

5835
citing authors

#	ARTICLE	IF	CITATIONS
1	Signatures of enhanced out-of-plane polarization in asymmetric BaTiO ₃ superlattices integrated on silicon. <i>Nature Communications</i> , 2022, 13, 265.	12.8	13
2	Induced giant piezoelectricity in centrosymmetric oxides. <i>Science</i> , 2022, 375, 653-657.	12.6	59
3	Deeper insights into the photoluminescence properties and (photo)chemical reactivity of cadmium red (CdS _{1-x} Se _x) paints in renowned twentieth century paintings by state-of-the-art investigations at multiple length scales. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	5
4	The Role of SnF ₂ Additive on Interface Formation in All Lead-Free FASn ₃ Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	22
5	Electronic and Chemical Properties of Nickel Oxide Thin Films and the Intrinsic Defects Compensation Mechanism. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2718-2728.	4.3	9
6	Resistance minimum in $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructure. <i>Physical Review Materials</i> , 2022, 6, .	2.7	3
7	Spatially Controlled Octahedral Rotations and Metal-Insulator Transitions in Nickelate Superlattices. <i>Nano Letters</i> , 2021, 21, 1295-1302.	9.1	24
8	Interface degradation and field screening mechanism behind bipolar-cycling fatigue in ferroelectric capacitors. <i>APL Materials</i> , 2021, 9, .	5.1	6
9	Facile Dry Coating Method of High-Nickel Cathode Material by Nanostructured Fumed Alumina (Al ₂ O ₃) Improving the Performance of Lithium-Ion Batteries. <i>Energy Technology</i> , 2021, 9, 2100028.	3.8	27
10	Gate-tuned anomalous Hall effect driven by Rashba splitting in intermixed LaAlO ₃ /GdTiO ₃ /SrTiO ₃ . <i>Scientific Reports</i> , 2021, 11, 10726.	3.3	6
11	Novel class of nanostructured metallic glass films with superior and tunable mechanical properties. <i>Acta Materialia</i> , 2021, 213, 116955.	7.9	32
12	Increased Performance Improvement of Lithium-Ion Batteries by Dry Powder Coating of High-Nickel NMC with Nanostructured Fumed Ternary Lithium Metal Oxides. <i>ACS Applied Energy Materials</i> , 2021, 4, 8832-8848.	5.1	16
13	Coupling Charge and Topological Reconstructions at Polar Oxide Interfaces. <i>Physical Review Letters</i> , 2021, 127, 127202.	7.8	20
14	Tailoring Vanadium Dioxide Film Orientation Using Nanosheets: a Combined Microscopy, Diffraction, Transport, and Soft X-Ray in Transmission Study. <i>Advanced Functional Materials</i> , 2020, 30, 1900028.	14.9	16
15	On the Importance of the Work Function and Electron Carrier Density of Oxide Electrodes for the Functional Properties of Ferroelectric Capacitors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900520.	2.4	6
16	Strain-Engineered Metal-Insulator Transition and Orbital Polarization in Nickelate Superlattices Integrated on Silicon. <i>Advanced Materials</i> , 2020, 32, e2004995.	21.0	24
17	Metal-insulator transition of SrVO ₃ ultrathin films embedded in SrVO ₃ /SrTiO ₃ superlattices. <i>Applied Physics Letters</i> , 2020, 117, 133105.	3.3	7
18	Simultaneous heteroepitaxial growth of SrO (001) and SrO (111) during strontium-assisted deoxidation of the Si (001) surface. <i>RSC Advances</i> , 2020, 10, 31261-31270.	3.6	1

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19	Atom column detection from simultaneously acquired ABF and ADF STEM images. Ultramicroscopy, 2020, 219, 113046.	1.9	15
20	Interfacial dielectric layer as an origin of polarization fatigue in ferroelectric capacitors. Scientific Reports, 2020, 10, 7310.	3.3	19
21	Thermal-strain-engineered ferromagnetism of LaMnO_3 thin films. <i>Materials</i> , 2020, 4, .	2.4	21
22	Co valence transformation in isopolar LaCoO_3 perovskite heterostructures via interfacial engineering. <i>Physical Review Materials</i> , 2020, 4, .	2.4	21
23	Berry phase engineering at oxide interfaces. <i>Physical Review Research</i> , 2020, 2, .	3.6	64
24	Enhancement of toughness of Al-to-steel Friction Melt Bonded welds via metallic interlayers. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 740-741, 274-284.	5.6	17
25	Epitaxial Stress-Free Growth of High Crystallinity Ferroelectric $\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3$ on GaN/AlGaN/Si(111) Substrate. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700921.	3.7	16
26	Metal-insulator-transition engineering by modulation tilt-control in perovskite nickelates for room temperature optical switching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9515-9520.	7.1	56
27	Nanoscale investigation by TEM and STEM-EELS of the laser induced yellowing. <i>Micron</i> , 2018, 115, 25-31.	2.2	10
28	Reclaiming the image of daguerreotypes: Characterization of the corroded surface before and after atmospheric plasma treatment. <i>Journal of Cultural Heritage</i> , 2017, 28, 56-64.	3.3	20
29	Thickness Dependent Properties in Oxide Heterostructures Driven by Structurally Induced Metal-Oxygen Hybridization Variations. <i>Advanced Functional Materials</i> , 2017, 27, 1606717.	14.9	61
30	Spin-Orbit Semimetal SrIrO_3 in the Two-Dimensional Limit. <i>Physical Review Letters</i> , 2017, 119, 256403.	7.8	83
31	Determining oxygen relaxations at an interface: A comparative study between transmission electron microscopy techniques. <i>Ultramicroscopy</i> , 2017, 181, 178-190.	1.9	36
32	Long-Range Domain Structure and Symmetry Engineering by Interfacial Oxygen Octahedral Coupling at Heterostructure Interface. <i>Advanced Functional Materials</i> , 2016, 26, 6627-6634.	14.9	25
33	Controlled lateral anisotropy in correlated manganite heterostructures by interface-engineered oxygen octahedral coupling. <i>Nature Materials</i> , 2016, 15, 425-431.	27.5	292
34	Co-Rich ZnCoO Nanoparticles Embedded in Wurtzite ZnO Thin Films: Possible Origin of Superconductivity. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22166-22171.	8.0	15
35	Intrinsic Thermal Instability of Methylammonium Lead Trihalide Perovskite. <i>Advanced Energy Materials</i> , 2015, 5, 1500477.	19.5	1,788
36	Advances in Electron Energy-Loss Spectroscopy with High Spatial and Energy Resolution. <i>Microscopy and Microanalysis</i> , 2014, 20, 2176-2177.	0.4	0

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37	Crystal Structure and Luminescent Properties of $R_2\text{Eu}(\text{MoO}_4)_3$ ($R = \text{Gd, Sm}$) Red Phosphors. <i>Chemistry of Materials</i> , 2014, 26, 7124-7136.	6.7	28
38	Atomic resolution mapping of phonon excitations in STEM-EELS experiments. <i>Ultramicroscopy</i> , 2014, 147, 1-7.	1.9	25
39	Studying Tomorrow's Materials Today: Insights with Quantitative STEM, EELS. <i>Microscopy and Microanalysis</i> , 2014, 20, 78-79.	0.4	11