

Gabriel SÃ¡nchez Santolino

List of Publications by Year in descending order

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46
papers

1,234
citations

361413

20
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361022

35
g-index

48
all docs

48
docs citations

48
times ranked

2245
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric field imaging of single atoms. Nature Communications, 2017, 8, 15631.	12.8	144
2	Hybridization-controlled charge transfer and induced magnetism at correlated oxide interfaces. Nature Physics, 2016, 12, 484-492.	16.7	122
3	Resonant electron tunnelling assisted by charged domain walls in multiferroic tunnel junctions. Nature Nanotechnology, 2017, 12, 655-662.	31.5	92
4	Direct electric field imaging of graphene defects. Nature Communications, 2018, 9, 3878.	12.8	74
5	Direct Visualization of Local Electromagnetic Field Structures by Scanning Transmission Electron Microscopy. Accounts of Chemical Research, 2017, 50, 1502-1512.	15.6	72
6	Reversible electric-field control of magnetization at oxide interfaces. Nature Communications, 2014, 5, 4215.	12.8	59
7	Formation of titanium monoxide (001) single-crystalline thin film induced by ion bombardment of titanium dioxide (110). Nature Communications, 2015, 6, 6147.	12.8	44
8	Probing the Internal Atomic Charge Density Distributions in Real Space. ACS Nano, 2018, 12, 8875-8881.	14.6	43
9	Anisotropic magnetotransport in SrTiO ₃ surface electron gases generated by Ar ⁺ sputtering. ACS Nano, 2018, 12, 8875-8881.	3.2	40
10	Mechanical and liquid phase exfoliation of cylindrite: a natural van der Waals superlattice with intrinsic magnetic interactions. 2D Materials, 2019, 6, 035023.	4.4	38
11	Tailoring Interface Structure in Highly Strained YSZ/STO Heterostructures. Advanced Materials, 2011, 23, 5268-5274.	21.0	36
12	Quantitative electric field mapping in thin specimens using a segmented detector: Revisiting the transfer function for differential phase contrast. Ultramicroscopy, 2017, 182, 258-263.	1.9	36
13	Paving the way to nanoionics: atomic origin of barriers for ionic transport through interfaces. Scientific Reports, 2015, 5, 17229.	3.3	35
14	Applications of STEM-EELS to complex oxides. Materials Science in Semiconductor Processing, 2017, 65, 49-63.	4.0	35
15	Large intrinsic anomalous Hall effect in SrIrO ₃ induced by magnetic proximity effect. Nature Communications, 2021, 12, 3283.	12.8	34
16	In-plane anisotropic optical and mechanical properties of two-dimensional MoO ₃ . Npj 2D Materials and Applications, 2021, 5, .	7.9	33
17	Direct Determination of Atomic Structure and Magnetic Coupling of Magnetite Twin Boundaries. ACS Nano, 2018, 12, 2662-2668.	14.6	30
18	Symmetry Breakdown in Franckeite: Spontaneous Strain, Rippling, and Interlayer Moiré. Nano Letters, 2020, 20, 1141-1147.	9.1	25

#	ARTICLE	IF	CITATIONS
19	Full picture discovery for mixed-fluorine anion effects on high-voltage spinel lithium nickel manganese oxide cathodes. <i>NPG Asia Materials</i> , 2017, 9, e398-e398.	7.9	22
20	A new method to detect and correct sample tilt in scanning transmission electron microscopy bright-field imaging. <i>Ultramicroscopy</i> , 2017, 173, 76-83.	1.9	21
21	Atomistic Origin of Li-Ion Conductivity Reduction at $(\text{Li}_{0.3}\text{Ca}_{0.7})\text{TiO}_3$ Grain Boundary. <i>Nano Letters</i> , 2021, 21, 7781-7788.	9.1	20
22	Thermally assisted tunneling transport in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}$. <i>Physical Review Letters</i> , 2019, 123, 077401.	3.2	19
23	An artificial photosynthesis anode electrode composed of a nanoparticulate photocatalyst film in a visible light responsive GaN-ZnO solid solution system. <i>Scientific Reports</i> , 2016, 6, 35593.	3.3	19
24	Characterization of surface metallic states in SrTiO_3 by means of aberration corrected electron microscopy. <i>Ultramicroscopy</i> , 2013, 127, 109-113.	1.9	17
25	Metastable oxysulfide surface formation on $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ single crystal particles by carbothermal reaction with sulfur-doped heterocarbon nanoparticles: new insight into their structural and electrochemical characteristics, and their potential applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22302-22314.	10.3	17
26	Strongly Anisotropic Strain-Tunability of Excitons in Exfoliated ZrSe_3 . <i>Advanced Materials</i> , 2022, 34, e2103571.	21.0	16
27	Controlled Sign Reversal of Electroresistance in Oxide Tunnel Junctions by Electrochemical-Ferroelectric Coupling. <i>Physical Review Letters</i> , 2020, 125, 266802.	7.8	15
28	Oxygen Octahedral Distortions in $\text{LaMO}_3/\text{SrTiO}_3$ Superlattices. <i>Microscopy and Microanalysis</i> , 2014, 20, 825-831.	0.4	13
29	Large angle illumination enabling accurate structure reconstruction from thick samples in scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2019, 197, 112-121.	1.9	12
30	Localization of Yttrium Segregation within YSZ Grain Boundary Dislocation Cores. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800349.	1.8	10
31	Magnetic phase diagram, magnetotransport and inverse magnetocaloric effect in the noncollinear antiferromagnet Mn_5Si_3 . <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 489, 165451.	2.3	8
32	Ferroionic inversion of spin polarization in a spin-memristor. <i>APL Materials</i> , 2021, 9, .	5.1	7
33	Photovoltaic sensing of a memristor based in LSMO/BTO/ITO ferroionic tunnel junctions. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	7
34	Franckeite as an Exfoliable Naturally Occurring Topological Insulator. <i>Nano Letters</i> , 2021, 21, 7781-7788.	9.1	6
35	X-ray absorption and x-ray magnetic circular dichroism in bulk and thin films of ferrimagnetic $\text{GdTi}_4\text{O}_{13}$. <i>Physical Review Materials</i> , 2021, 5, .	2.4	4
36	Linear imaging theory for differential phase contrast and other phase imaging modes in scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2022, , 113580.	1.9	3

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37	Direct Transformation of Crystalline MoO ₃ into Few-Layers MoS ₂ . <i>Materials</i> , 2020, 13, 2293.	2.9	2
38	Direct Electromagnetic Structure Observation by Aberration-corrected Differential Phase Contrast Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 906-907.	0.4	1
39	Quantitative Atomic Resolution Differential Phase Contrast Imaging Using a Segmented Area All Field Detector. <i>Microscopy and Microanalysis</i> , 2016, 22, 504-505.	0.4	1
40	Phase-Contrast-Based Structure Retrieval Methods in Atomic Resolution Scanning Transmission Electron Microscopy – When They Hold and When They Don't. <i>Microscopy and Microanalysis</i> , 2020, 26, 442-443.	0.4	1
41	Strongly Anisotropic Strain-Tunability of Excitons in Exfoliated ZrSe ₃ (<i>Adv. Mater.</i> 1/2022). <i>Advanced Materials</i> , 2022, 34, .	21.0	1
42	Study of Oxygen Distortions in Titanate - Manganite Interfaces by Aberration Corrected STEM-EELS. <i>Microscopy and Microanalysis</i> , 2014, 20, 54-55.	0.4	0
43	Atomic Resolution STEM-EELS Studies of Defects and Local Structural Distortions in Oxide Interfaces. <i>Microscopy and Microanalysis</i> , 2017, 23, 372-373.	0.4	0
44	Quantitative Relation Between Differential Phase Contrast Images Obtained by Segmented and Pixelated Detectors. <i>Microscopy and Microanalysis</i> , 2017, 23, 440-441.	0.4	0
45	High Resolution Studies of Oxide Multiferroic Interfaces in the Aberration-Corrected STEM. <i>Microscopy and Microanalysis</i> , 2017, 23, 1592-1593.	0.4	0
46	Electric Field Imaging at Atomic Resolution by DPC STEM. <i>Materia Japan</i> , 2019, 58, 104-104.	0.1	0