# Gabriel SÃ¡nchez Santolino

List of Publications by Year
in descending order



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|---|---|---|---|
| 46 papers | 1,234 citations | 361413 20 h-index | 361022 35 g-index |
| 48 all docs | 48 docs citations | 48 times ranked | 2245 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Strongly Anisotropic Strainâ€Tunability of Excitons in Exfoliated ZrSe<sub>3</sub>. Advanced Materials, 2022, 34, e2103571. | 21.0 | 16 |
| 2 | Photovoltaic sensing of a memristor based in LSMO/BTO/ITO ferroionic tunnel junctions. Applied Physics Letters, 2022, 120, . | 3.3 | 7 |
| 3 | Strongly Anisotropic Strainâ€Tunability of Excitons in Exfoliated ZrSe<sub>3</sub> (Adv. Mater. 1/2022). Advanced Materials, 2022, 34, . | 21.0 | 1 |
| 4 | Linear imaging theory for differential phase contrast and other phase imaging modes in scanning transmission electron microscopy. Ultramicroscopy, 2022, , 113580. | 1.9 | 3 |
| 5 | X-ray absorption and x-ray magnetic circular dichroism in bulk and thin films of ferrimagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>GdTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2021, 5, . | 2.4 | 4 |
| 6 | Ferroionic inversion of spin polarization in a spin-memristor. APL Materials, 2021, 9, . | 5.1 | 7 |
| 7 | In-plane anisotropic optical and mechanical properties of two-dimensional MoO3. Npj 2D Materials and Applications, 2021, 5, . | 7.9 | 33 |
| 8 | Large intrinsic anomalous Hall effect in SrIrO3 induced by magnetic proximity effect. Nature Communications, 2021, 12, 3283. | 12.8 | 34 |
| 9 | Atomistic Origin of Li-Ion Conductivity Reduction at (Li<sub>3x</sub>La<sub>2/3â€“x</sub>)TiO<sub>3</sub> Grain Boundary. Nano Letters, 2021, 21, 6282-6288. | 9.1 | 20 |
| 10 | Franckeite as an Exfoliable Naturally Occurring Topological Insulator. Nano Letters, 2021, 21, 7781-7788. | 9.1 | 6 |
| 11 | Metastable oxysulfide surface formation on LiNi<sub>0.5</sub>Mn<sub>1.5</sub>O<sub>4</sub> single crystal particles by carbothermal reaction with sulfur-doped heterocarbon nanoparticles: new insight into their structural and electrochemical characteristics, and their potential applications. Journal of Materials Chemistry A, 2020, 8, 22302-22314. | 10.3 | 17 |
| 12 | Phase-Contrast-Based Structure Retrieval Methods in Atomic Resolution Scanning Transmission Electron Microscopy â€“ When They Hold and When They Don't. Microscopy and Microanalysis, 2020, 26, 442-443. | 0.4 | 1 |
| 13 | Direct Transformation of Crystalline MoO3 into Few-Layers MoS2. Materials, 2020, 13, 2293. | 2.9 | 2 |
| 14 | Symmetry Breakdown in Franckeite: Spontaneous Strain, Rippling, and Interlayer MoirÃ©. Nano Letters, 2020, 20, 1141-1147. | 9.1 | 25 |
| 15 | Controlled Sign Reversal of Electroresistance in Oxide Tunnel Junctions by Electrochemical-Ferroelectric Coupling. Physical Review Letters, 2020, 125, 266802. | 7.8 | 15 |
| 16 | Magnetic phase diagram, magnetotransport and inverse magnetocaloric effect in the noncollinear antiferromagnet Mn5Si3. Journal of Magnetism and Magnetic Materials, 2019, 489, 165451. | 2.3 | 8 |
| 17 | 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 |
| 18 | Large angle illumination enabling accurate structure reconstruction from thick samples in scanning transmission electron microscopy. Ultramicroscopy, 2019, 197, 112-121. | 1.9 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Electric Field Imaging at Atomic Resolution by DPC STEM. Materia Japan, 2019, 58, 104-104. | 0.1 | 0 |
| 20 | Direct Determination of Atomic Structure and Magnetic Coupling of Magnetite Twin Boundaries. ACS Nano, 2018, 12, 2662-2668. | 14.6 | 30 |
| 21 | Direct electric field imaging of graphene defects. Nature Communications, 2018, 9, 3878. | 12.8 | 74 |
| 22 | Localization of Yttrium Segregation within YSZ Grain Boundary Dislocation Cores. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800349. | 1.8 | 10 |
| 23 | Probing the Internal Atomic Charge Density Distributions in Real Space. ACS Nano, 2018, 12, 8875-8881. | 14.6 | 43 |
| 24 | Applications of STEM-EELS to complex oxides. Materials Science in Semiconductor Processing, 2017, 65, 49-63. | 4.0 | 35 |
| 25 | Resonant electron tunnelling assisted by charged domain walls in multiferroic tunnel junctions. Nature Nanotechnology, 2017, 12, 655-662. | 31.5 | 92 |
| 26 | Full picture discovery for mixed-fluorine anion effects on high-voltage spinel lithium nickel manganese oxide cathodes. NPG Asia Materials, 2017, 9, e398-e398. | 7.9 | 22 |
| 27 | 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 |
| 28 | Atomic Resolution STEM-EELS Studies of Defects and Local Structural Distortions in Oxide Interfaces. Microscopy and Microanalysis, 2017, 23, 372-373. | 0.4 | 0 |
| 29 | Direct Visualization of Local Electromagnetic Field Structures by Scanning Transmission Electron Microscopy. Accounts of Chemical Research, 2017, 50, 1502-1512. | 15.6 | 72 |
| 30 | A new method to detect and correct sample tilt in scanning transmission electron microscopy bright-field imaging. Ultramicroscopy, 2017, 173, 76-83. | 1.9 | 21 |
| 31 | Quantitative Relation Between Differential Phase Contrast Images Obtained by Segmented and Pixelated Detectors. Microscopy and Microanalysis, 2017, 23, 440-441. | 0.4 | 0 |
| 32 | High Resolution Studies of Oxide Multiferroic Interfaces in the Aberration-Corrected STEM. Microscopy and Microanalysis, 2017, 23, 1592-1593. | 0.4 | 0 |
| 33 | Electric field imaging of single atoms. Nature Communications, 2017, 8, 15631. | 12.8 | 144 |
| 34 | Direct Electromagnetic Structure Observation by Aberration-corrected Differential Phase Contrast Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 906-907. | 0.4 | 1 |
| 35 | Quantitative Atomic Resolution Differential Phase Contrast Imaging Using a Segmented Area All Field Detector. Microscopy and Microanalysis, 2016, 22, 504-505. | 0.4 | 1 |
| 36 | An artificial photosynthesis anode electrode composed of a nanoparticulate photocatalyst film in a visible light responsive GaN-ZnO solid solution system. Scientific Reports, 2016, 6, 35593. | 3.3 | 19 |

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|---|---|---|---|
| 37 | Hybridization-controlled charge transfer and induced magnetism at correlated oxide interfaces. Nature Physics, 2016, 12, 484-492. | 16.7 | 122 |
| 38 | Paving the way to nanoionics: atomic origin of barriers for ionic transport through interfaces. Scientific Reports, 2015, 5, 17229. | 3.3 | 35 |
| 39 | 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 |
| 40 | Oxygen Octahedral Distortions in LaMO<sub>3</sub>/SrTiO<sub>3</sub> Superlattices. Microscopy and Microanalysis, 2014, 20, 825-831. | 0.4 | 13 |
| 41 | Reversible electric-field control of magnetization at oxide interfaces. Nature Communications, 2014, 5, 4215. | 12.8 | 59 |
| 42 | Study of Oxygen Distortions in Titanate - Manganite Interfaces by Aberration Corrected STEM-EELS. Microscopy and Microanalysis, 2014, 20, 54-55. | 0.4 | 0 |
| 43 | Characterization of surface metallic states in SrTiO3 by means of aberration corrected electron microscopy. Ultramicroscopy, 2013, 127, 109-113. | 1.9 | 17 |
| 44 | Thermally assisted tunneling transport in La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub></mml:math>Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.3</mml:mn></mml:mrow></mml:msub></mml:math>MnO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml: | 3.2 | 19 |
| 45 | Tailoring Interface Structure in Highly Strained YSZ/STO Heterostructures. Advanced Materials, 2011, 23, 5268-5274. | 21.0 | 36 |
| 46 | Anisotropic magnetotransport in SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>surface electron gases generated by Ar<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mo>+</mml:mo></mml:mro | 3.2 | 40 |