

Gonzalo Santoro

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,906
citations

304743

22
h-index

254184

43
g-index

51
all docs

51
docs citations

51
times ranked

3736
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Steering Hydrocarbon Selectivity in CO ₂ Electroreduction over Soft-Landed CuO Nanoparticle-Functionalized Gas Diffusion Electrodes. ACS Applied Materials & Interfaces, 2022, 14, 2691-2702. | 8.0 | 9 |
| 2 | Silicon and Hydrogen Chemistry under Laboratory Conditions Mimicking the Atmosphere of Evolved Stars. Astrophysical Journal, 2021, 906, 44. | 4.5 | 10 |
| 3 | Metal-catalyst-free gas-phase synthesis of long-chain hydrocarbons. Nature Communications, 2021, 12, 5937. | 12.8 | 7 |
| 4 | Prevalence of non-aromatic carbonaceous molecules in the inner regions of circumstellar envelopes. Nature Astronomy, 2020, 4, 97-105. | 10.1 | 48 |
| 5 | The Chemistry of Cosmic Dust Analogs from C, C ₂ , and C ₂ H ₂ in C-rich Circumstellar Envelopes. Astrophysical Journal, 2020, 895, 97. | 4.5 | 30 |
| 6 | INFRA-ICE: An ultra-high vacuum experimental station for laboratory astrochemistry. Review of Scientific Instruments, 2020, 91, 124101. | 1.3 | 2 |
| 7 | Broad-band high-resolution rotational spectroscopy for laboratory astrophysics. Astronomy and Astrophysics, 2019, 626, A34. | 5.1 | 15 |
| 8 | Using radio astronomical receivers for molecular spectroscopic characterization in astrochemical laboratory simulations: A proof of concept. Astronomy and Astrophysics, 2018, 609, A15. | 5.1 | 12 |
| 9 | Precisely controlled fabrication, manipulation and in-situ analysis of Cu based nanoparticles. Scientific Reports, 2018, 8, 7250. | 3.3 | 27 |
| 10 | Operando monitoring the nanometric morphological evolution of TiO ₂ nanoparticles in a Na-ion battery. Materials Today Energy, 2018, 10, 23-27. | 4.7 | 9 |
| 11 | High-quality PVD graphene growth by fullerene decomposition on Cu foils. Carbon, 2017, 119, 535-543. | 10.3 | 29 |
| 12 | Diffusion and nucleation in multilayer growth of PTCDI-C8 studied with <i>in situ</i> X-ray growth oscillations and real-time small angle X-ray scattering. Journal of Chemical Physics, 2017, 146, 052803. | 3.0 | 19 |
| 13 | Macroscale and Nanoscale Morphology Evolution during <i>In Situ</i> Spray Coating of Titania Films for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 43724-43732. | 8.0 | 20 |
| 14 | Manipulating the Assembly of Spray-Deposited Nanocolloids: <i>In Situ</i> Study and Monolayer Film Preparation. Langmuir, 2016, 32, 4251-4258. | 3.5 | 30 |
| 15 | Spray Deposition of Titania Films with Incorporated Crystalline Nanoparticles for All-Solid-State Dye-Sensitized Solar Cells Using P3HT. Advanced Functional Materials, 2016, 26, 1498-1506. | 14.9 | 53 |
| 16 | Morphological Degradation in Low Bandgap Polymer Solar Cells – An <i>In Operando</i> Study. Advanced Energy Materials, 2016, 6, 1600712. | 19.5 | 47 |
| 17 | Variation of poly(vinylidene fluoride) morphology due to radial cold flow in a flexible pipe. Polymer Engineering and Science, 2015, 55, 2869-2877. | 3.1 | 3 |
| 18 | Real-Time Monitoring of Morphology and Optical Properties during Sputter Deposition for Tailoring Metal-Polymer Interfaces. ACS Applied Materials & Interfaces, 2015, 7, 13547-13556. | 8.0 | 113 |

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|----|--|------|-----------|
| 19 | Distortion of Ultrathin Photocleavable Block Copolymer Films during Photocleavage and Nanopore Formation. <i>Langmuir</i> , 2015, 31, 8947-8952. | 3.5 | 14 |
| 20 | Improved Power Conversion Efficiency of P3HT:PCBM Organic Solar Cells by Strong Spin-Orbit Coupling-Induced Delayed Fluorescence. <i>Advanced Energy Materials</i> , 2015, 5, 1401770. | 19.5 | 78 |
| 21 | Advanced Vibrational Microspectroscopic Study of Conformational Changes within a Craze in Poly(ethylene terephthalate). <i>Macromolecules</i> , 2015, 48, 1162-1168. | 4.8 | 5 |
| 22 | Following the Island Growth in Real Time: Ag Nanocluster Layer on Alq3 Thin Film. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4406-4413. | 3.1 | 16 |
| 23 | Patterned Diblock Co-Polymer Thin Films as Templates for Advanced Anisotropic Metal Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12470-12477. | 8.0 | 63 |
| 24 | Laser-ablated titania nanoparticles for aqueous processed hybrid solar cells. <i>Nanoscale</i> , 2015, 7, 2900-2904. | 5.6 | 21 |
| 25 | Arrangement of Maghemite Nanoparticles via Wet Chemical Self-Assembly in PS- <i>b</i> -PNIPAM Diblock Copolymer Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13080-13091. | 8.0 | 26 |
| 26 | Colloidal Nanoparticle Interaction Transition during Solvent Evaporation Investigated by in-Situ Small-Angle X-ray Scattering. <i>Langmuir</i> , 2015, 31, 4612-4618. | 3.5 | 24 |
| 27 | Tracking Structural Changes in Lipid-based Multicomponent Food Materials due to Oil Migration by Microfocus Small-Angle X-ray Scattering. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9929-9936. | 8.0 | 29 |
| 28 | Sorption of Water and Initial Stages of Swelling of Thin PNIPAM Films Using in Situ GISAXS Microfluidics. <i>Langmuir</i> , 2015, 31, 9619-9627. | 3.5 | 11 |
| 29 | Analysis of island shape evolution from diffuse x-ray scattering of organic thin films and implications for growth. <i>Physical Review B</i> , 2014, 90, . | 3.2 | 18 |
| 30 | Studying nanostructure gradients in injection-molded polypropylene/montmorillonite composites by microbeam small-angle x-ray scattering. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 015004. | 6.1 | 6 |
| 31 | Use of intermediate focus for grazing incidence small and wide angle x-ray scattering experiments at the beamline P03 of PETRA III, DESY. <i>Review of Scientific Instruments</i> , 2014, 85, 043901. | 1.3 | 40 |
| 32 | Time resolved growth of membrane stabilized silver NPs and their catalytic activity. <i>RSC Advances</i> , 2014, 4, 59379-59386. | 3.6 | 15 |
| 33 | Microfocus X-ray scattering and micro-Raman spectroscopy: Transcrystallinity in isotactic polypropylene. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 724-727. | 2.4 | 6 |
| 34 | Following initial changes in nanoparticle films under laminar flow conditions with in situ GISAXS microfluidics. <i>RSC Advances</i> , 2014, 4, 1476-1479. | 3.6 | 10 |
| 35 | Silver substrates for surface enhanced Raman scattering: Correlation between nanostructure and Raman scattering enhancement. <i>Applied Physics Letters</i> , 2014, 104, 243107. | 3.3 | 103 |
| 36 | Probing evaporation induced assembly across a drying colloidal droplet using in situ small-angle X-ray scattering at the synchrotron source. <i>Soft Matter</i> , 2014, 10, 1621. | 2.7 | 37 |

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|----|---|------|-----------|
| 37 | Hydrodynamic alignment and assembly of nanofibrils resulting in strong cellulose filaments. Nature Communications, 2014, 5, 4018. | 12.8 | 402 |
| 38 | Fabrication and characterization of combined metallic nanogratings and ITO electrodes for organic photovoltaic cells. Microelectronic Engineering, 2014, 119, 122-126. | 2.4 | 14 |
| 39 | Molecular Reorientation and Structural Changes in Cosolvent-Treated Highly Conductive PEDOT:PSS Electrodes for Flexible Indium Tin Oxide-Free Organic Electronics. Journal of Physical Chemistry C, 2014, 118, 13598-13606. | 3.1 | 128 |
| 40 | In Situ Grazing Incidence Small-Angle X-ray Scattering Investigation of Polystyrene Nanoparticle Spray Deposition onto Silicon. Langmuir, 2013, 29, 11260-11266. | 3.5 | 19 |
| 41 | A Direct Evidence of Morphological Degradation on a Nanometer Scale in Polymer Solar Cells. Advanced Materials, 2013, 25, 6760-6764. | 21.0 | 176 |
| 42 | A new highly automated sputter equipment for <i>in situ</i> investigation of deposition processes with synchrotron radiation. Review of Scientific Instruments, 2013, 84, 043901. | 1.3 | 24 |
| 43 | Formation of Al Nanostructures on Alq3: An in Situ Grazing Incidence Small Angle X-ray Scattering Study during Radio Frequency Sputter Deposition. Journal of Physical Chemistry Letters, 2013, 4, 3170-3175. | 4.6 | 36 |
| 44 | Polarization-modulated synchrotron infrared microspectroscopy for the study of crystalline morphology in some semicrystalline polyolefins. Journal of Physics: Conference Series, 2012, 359, 012005. | 0.4 | 4 |
| 45 | The crystallization of polypropylene in multiwall carbon nanotube-based composites. Polymer Composites, 2011, 32, 324-333. | 4.6 | 34 |
| 46 | Infrared synchrotron radiation from bending magnet and edge radiation sources for the study of orientation and conformation in anisotropic materials. Review of Scientific Instruments, 2011, 82, 033710. | 1.3 | 13 |
| 47 | Synchrotron IR microspectroscopy: Opportunities in polymer science. IOP Conference Series: Materials Science and Engineering, 2010, 14, 012019. | 0.6 | 7 |
| 48 | Study of the crosslink density, dynamo-mechanical behaviour and microstructure of hot and cold SBR vulcanizates. Journal of Polymer Research, 2010, 17, 99-107. | 2.4 | 21 |
| 49 | A Solvent-Free Dispersion Method for the Preparation of PET/MWCNT Composites. Macromolecular Materials and Engineering, 2010, 295, 652-659. | 3.6 | 16 |
| 50 | Grazing Incidence Small Angle X-Ray Scattering as a Tool for In- Situ Time-Resolved Studies. , 0, , . | | 1 |
| 51 | Structure, stability and optical absorption spectra of small Ti_nC_x clusters: a first-principles approach. Monthly Notices of the Royal Astronomical Society, 0, , . | 4.4 | 6 |