

# Gonzalo Santoro

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9455889/publications.pdf>

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	Hydrodynamic alignment and assembly of nanofibrils resulting in strong cellulose filaments. <i>Nature Communications</i> , 2014, 5, 4018.	12.8	402
2	A Direct Evidence of Morphological Degradation on a Nanometer Scale in Polymer Solar Cells. <i>Advanced Materials</i> , 2013, 25, 6760-6764.	21.0	176
3	Molecular Reorientation and Structural Changes in Cosolvent-Treated Highly Conductive PEDOT:PSS Electrodes for Flexible Indium Tin Oxide-Free Organic Electronics. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13598-13606.	3.1	128
4	Real-Time Monitoring of Morphology and Optical Properties during Sputter Deposition for Tailoring Metal-Polymer Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 13547-13556.	8.0	113
5	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
6	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
7	Patterned Diblock Co-Polymer Thin Films as Templates for Advanced Anisotropic Metal Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12470-12477.	8.0	63
8	Spray Deposition of Titania Films with Incorporated Crystalline Nanoparticles for All-Solid-State Dye-Sensitized Solar Cells Using P3HT. <i>Advanced Functional Materials</i> , 2016, 26, 1498-1506.	14.9	53
9	Prevalence of non-aromatic carbonaceous molecules in the inner regions of circumstellar envelopes. <i>Nature Astronomy</i> , 2020, 4, 97-105.	10.1	48
10	Morphological Degradation in Low Bandgap Polymer Solar Cells – An In Operando Study. <i>Advanced Energy Materials</i> , 2016, 6, 1600712.	19.5	47
11	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
12	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
13	Formation of Al Nanostructures on Alq3: An in Situ Grazing Incidence Small Angle X-ray Scattering Study during Radio Frequency Sputter Deposition. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3170-3175.	4.6	36
14	The crystallization of polypropylene in multiwall carbon nanotube-based composites. <i>Polymer Composites</i> , 2011, 32, 324-333.	4.6	34
15	Manipulating the Assembly of Spray-Deposited Nanocolloids: <i>In Situ</i> Study and Monolayer Film Preparation. <i>Langmuir</i> , 2016, 32, 4251-4258.	3.5	30
16	The Chemistry of Cosmic Dust Analogs from C, C <sub>2</sub> , and C <sub>2</sub> H <sub>2</sub> in C-rich Circumstellar Envelopes. <i>Astrophysical Journal</i> , 2020, 895, 97.	4.5	30
17	Tracking Structural Changes in Lipid-based Multicomponent Food Materials due to Oil Migration by Microfocus Small-Angle X-ray Scattering. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9929-9936.	8.0	29
18	High-quality PVD graphene growth by fullerene decomposition on Cu foils. <i>Carbon</i> , 2017, 119, 535-543.	10.3	29

#	ARTICLE	IF	CITATIONS
19	Precisely controlled fabrication, manipulation and in-situ analysis of Cu based nanoparticles. Scientific Reports, 2018, 8, 7250.	3.3	27
20	Arrangement of Maghemite Nanoparticles via Wet Chemical Self-Assembly in PS- <i>b</i> -PNIPAM Diblock Copolymer Films. ACS Applied Materials & Interfaces, 2015, 7, 13080-13091.	8.0	26
21	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
22	Colloidal Nanoparticle Interaction Transition during Solvent Evaporation Investigated by in-Situ Small-Angle X-ray Scattering. Langmuir, 2015, 31, 4612-4618.	3.5	24
23	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
24	Laser-ablated titania nanoparticles for aqueous processed hybrid solar cells. Nanoscale, 2015, 7, 2900-2904.	5.6	21
25	Macroscale and Nanoscale Morphology Evolution during in Situ Spray Coating of Titania Films for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 43724-43732.	8.0	20
26	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
27	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
28	Analysis of island shape evolution from diffuse x-ray scattering of organic thin films and implications for growth. Physical Review B, 2014, 90, .	3.2	18
29	A Solvent-Free Dispersion Method for the Preparation of PET/MWCNT Composites. Macromolecular Materials and Engineering, 2010, 295, 652-659.	3.6	16
30	Following the Island Growth in Real Time: Ag Nanocluster Layer on Alq3 Thin Film. Journal of Physical Chemistry C, 2015, 119, 4406-4413.	3.1	16
31	Time resolved growth of membrane stabilized silver NPs and their catalytic activity. RSC Advances, 2014, 4, 59379-59386.	3.6	15
32	Broad-band high-resolution rotational spectroscopy for laboratory astrophysics. Astronomy and Astrophysics, 2019, 626, A34.	5.1	15
33	Fabrication and characterization of combined metallic nanogratings and ITO electrodes for organic photovoltaic cells. Microelectronic Engineering, 2014, 119, 122-126.	2.4	14
34	Distortion of Ultrathin Photocleavable Block Copolymer Films during Photocleavage and Nanopore Formation. Langmuir, 2015, 31, 8947-8952.	3.5	14
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Silicon and Hydrogen Chemistry under Laboratory Conditions Mimicking the Atmosphere of Evolved Stars. <i>Astrophysical Journal</i> , 2021, 906, 44.	4.5	10
40	Operando monitoring the nanometric morphological evolution of TiO <sub>2</sub> nanoparticles in a Na-ion battery. <i>Materials Today Energy</i> , 2018, 10, 23-27.	4.7	9
41	Steering Hydrocarbon Selectivity in CO <sub>2</sub> Electroreduction over Soft-Landed CuO <sub>x</sub> Nanoparticle-Functionalized Gas Diffusion Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 2691-2702.	8.0	9
42	Synchrotron IR microspectroscopy: Opportunities in polymer science. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 14, 012019.	0.6	7
43	Metal-catalyst-free gas-phase synthesis of long-chain hydrocarbons. <i>Nature Communications</i> , 2021, 12, 5937.	12.8	7
44	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
45	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
46	Structure, stability and optical absorption spectra of small TinCx clusters: a first-principles approach. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	6
47	Advanced Vibrational Microspectroscopic Study of Conformational Changes within a Craze in Poly(ethylene terephthalate). <i>Macromolecules</i> , 2015, 48, 1162-1168.	4.8	5
48	Polarization-modulated synchrotron infrared microspectroscopy for the study of crystalline morphology in some semicrystalline polyolefins. <i>Journal of Physics: Conference Series</i> , 2012, 359, 012005.	0.4	4
49	Variation of poly(vinylidene fluoride) morphology due to radial cold flow in a flexible pipe. <i>Polymer Engineering and Science</i> , 2015, 55, 2869-2877.	3.1	3
50	INFRA-ICE: An ultra-high vacuum experimental station for laboratory astrochemistry. <i>Review of Scientific Instruments</i> , 2020, 91, 124101.	1.3	2
51	Grazing Incidence Small Angle X-Ray Scattering as a Tool for In-Situ Time-Resolved Studies. , 0, , .		1