

# Cinzia Di Franco

## List of Publications by Citations

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59  
papers

1,452  
citations

23  
h-index

36  
g-index

67  
ext. papers

1,763  
ext. citations

6.2  
avg, IF

4.5  
L-index

#	Paper	IF	Citations
59	Photoacoustic techniques for trace gas sensing based on semiconductor laser sources. <i>Sensors</i> , <b>2009</b> , 9, 9616-28	3.8	147
58	Single-molecule detection with a millimetre-sized transistor. <i>Nature Communications</i> , <b>2018</b> , 9, 3223	17.4	107
57	Low-picomolar, label-free procalcitonin analytical detection with an electrolyte-gated organic field-effect transistor based electronic immunosensor. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 104, 113-119	11.8	71
56	Silicon planar technology for single-photon optical detectors. <i>IEEE Transactions on Electron Devices</i> , <b>2003</b> , 50, 918-925	2.9	67
55	Ultimately Sensitive Organic Bioelectronic Transistor Sensors by Materials and Device Structure Design. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1904513	15.6	66
54	Organic thin film transistors: from active materials to novel applications. <i>Solid-State Electronics</i> , <b>2001</b> , 45, 1479-1485	1.7	58
53	About the amplification factors in organic bioelectronic sensors. <i>Materials Horizons</i> , <b>2020</b> , 7, 999-1013	14.4	56
52	Electrosynthesis and analytical characterisation of polypyrrole thin films modified with copper nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2001</b> , 11, 1434-1440		56
51	Selective single-molecule analytical detection of C-reactive protein in saliva with an organic transistor. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 4899-4908	4.4	48
50	The double layer capacitance of ionic liquids for electrolyte gating of ZnO thin film transistors and effect of gate electrodes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 3509-3518	7.1	43
49	Electrophoretic deposition of Au NPs on MWCNT-based gas sensor for tailored gas detection with enhanced sensing properties. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 223, 417-428	8.5	43
48	Label-Free and Selective Single-Molecule Bioelectronic Sensing with a Millimeter-Wide Self-Assembled Monolayer of Anti-Immunoglobulins. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6476-6483	9.6	40
47	Hydrogels for biomedical applications from glycol chitosan and PEG diglycidyl ether exhibit pro-angiogenic and antibacterial activity. <i>Carbohydrate Polymers</i> , <b>2018</b> , 198, 124-130	10.3	37
46	Evaluation of gas-sensing properties of ZnO nanostructures electrochemically doped with Au nanophases. <i>Beilstein Journal of Nanotechnology</i> , <b>2016</b> , 7, 22-31	3	37
45	Design, synthesis and evaluation of biotin decorated inulin-based polymeric micelles as long-circulating nanocarriers for targeted drug delivery. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2017</b> , 13, 1245-1254	6	36
44	Characterization of Covalently Bound Anti-Human Immunoglobulins on Self-Assembled Monolayer Modified Gold Electrodes. <i>Advanced Biology</i> , <b>2017</b> , 1, e1700055	3.5	35
43	Organic Field-Effect Transistor Platform for Label-Free, Single-Molecule Detection of Genomic Biomarkers. <i>ACS Sensors</i> , <b>2020</b> , 5, 1822-1830	9.2	33

42	UV crosslinked poly(acrylic acid): a simple method to bio-functionalize electrolyte-gated OFET biosensors. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 5049-5057	7.3	30
41	Ultra-low HIV-1 p24 detection limits with a bioelectronic sensor. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 811-818	4.4	29
40	A comparative study of the gas sensing behavior in P3HT- and PBTTT-based OTFTs: the influence of film morphology and contact electrode position. <i>Sensors</i> , <b>2014</b> , 14, 16869-80	3.8	26
39	New Generation of Ultrasensitive Label-Free Optical Si Nanowire-Based Biosensors. <i>ACS Photonics</i> , <b>2018</b> , 5, 471-479	6.3	25
38	Bio-sorbable, liquid electrolyte gated thin-film transistor based on a solution-processed zinc oxide layer. <i>Faraday Discussions</i> , <b>2014</b> , 174, 383-98	3.6	25
37	Improved thermal management of mid-IR quantum cascade lasers. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 043103	2.5	24
36	Large area laser-induced periodic surface structures on steel by bursts of femtosecond pulses with picosecond delays. <i>Optics and Lasers in Engineering</i> , <b>2019</b> , 114, 15-21	4.6	23
35	In vitro characterization of 6-Coumarin loaded solid lipid nanoparticles and their uptake by immunocompetent fish cells. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 127, 79-88	6	21
34	Optical and Electronic NO(x) Sensors for Applications in Mechatronics. <i>Sensors</i> , <b>2009</b> , 9, 3337-56	3.8	21
33	In Vitro Assessment of the Antibacterial Potential of Silver Nano-Coatings on Cotton Gauzes for Prevention of Wound Infections. <i>Materials</i> , <b>2016</b> , 9,	3.5	21
32	A Study on the Stability of Water-Gated Organic Field-Effect-Transistors Based on a Commercial p-Type Polymer. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 667	5	20
31	Ion beam sputtering deposition of silver nanoparticles and TiO <sub>x</sub> /ZnO nanocomposites for use in surface enhanced vibrational spectroscopy (SERS and SEIRAS). <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 153	5.8	17
30	Radiation detectors based on Multiwall Carbon Nanotubes deposited by a spray technique. <i>Thin Solid Films</i> , <b>2013</b> , 543, 19-22	2.2	14
29	Design of novel indium oxide supported gold nanocatalysts and their application in homocoupling of arylboronic acids. <i>Journal of Molecular Catalysis A</i> , <b>2014</b> , 386, 101-107		13
28	Spectroscopic Characterization and Nanosafety of Ag-Modified Antibacterial Leather and Leatherette. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	13
27	Combined Approach for the Development of Efficient and Safe Nanoantimicrobials: The Case of Nanosilver-Modified Polyurethane Foams. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 1417-1425	5.5	12
26	Sensitive detection of hydrocarbon gases using electrochemically Pd-modified ZnO chemiresistors. <i>Beilstein Journal of Nanotechnology</i> , <b>2017</b> , 8, 82-90	3	12
25	Effect of the gate metal work function on water-gated ZnO thin-film transistor performance. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 275101	3	12

24	Templateless synthesis of polypyrrole nanowires by non-static solution-surface electropolymerization. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 2143-2151	2.6	12
23	Structural and Morphological Study of a Poly(3-hexylthiophene)/Streptavidin Multilayer Structure Serving as Active Layer in Ultra-Sensitive OFET Biosensors. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 15853-15862	3.8	11
22	A new nanocomposite based on LASiS-generated CuNPs as a preservation system for fruit salads. <i>Food Packaging and Shelf Life</i> , <b>2019</b> , 22, 100422	8.2	10
21	Silicon nanowire luminescent sensor for cardiovascular risk in saliva. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 10-17	2.1	10
20	Surface analytical characterization of Streptavidin/poly(3-hexylthiophene) bilayers for bio-electronic applications. <i>Applied Surface Science</i> , <b>2017</b> , 420, 313-322	6.7	9
19	A Micellar-Hydrogel Nanogrid from a UV Crosslinked Inulin Derivative for the Simultaneous Delivery of Hydrophobic and Hydrophilic Drugs. <i>Pharmaceutics</i> , <b>2018</b> , 10,	6.4	9
18	Large-Area Interfaces for Single-Molecule Label-free Bioelectronic Detection.. <i>Chemical Reviews</i> , <b>2022</b> ,	68.1	8
17	Quantum cascade laser-based photoacoustic spectroscopy of volatile chemicals: application to hexamethyldisilazane. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2006</b> , 64, 426-9	4.4	5
16	High degradation and no bioavailability of artichoke miRNAs assessed using an in vitro digestion/Caco-2 cell model. <i>Nutrition Research</i> , <b>2018</b> , 60, 68-76	4	5
15	Electrochemical deposition of gold on indium zirconate (InZrOx with In/Zr atomic ratio 1.0) for high temperature automobile exhaust gas sensors. <i>Journal of Solid State Electrochemistry</i> , <b>2015</b> , 19, 2859-2868	2.6	4
14	Solvent-gated thin-film-transistors. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 20573-20581	3.6	4
13	Au/In <sub>2</sub> O <sub>3</sub> and Au/ZrO <sub>2</sub> composite nanoparticles via in situ sacrificial gold electrolysis. <i>Materials Express</i> , <b>2015</b> , 5, 171-179	1.3	4
12	Functionalized interfaces by plasma treatments on silicon and silicon dioxide substrates. <i>Thin Solid Films</i> , <b>2007</b> , 515, 7195-7202	2.2	4
11	Electrophoretic deposition of Au NPs on CNT networks for sensitive NO <sub>2</sub> detection. <i>Journal of Sensors and Sensor Systems</i> , <b>2014</b> , 3, 245-252	1.6	4
10	Why a Diffusing Single-Molecule can be Detected in Few Minutes by a Large Capturing Bioelectronic Interface.. <i>Advanced Science</i> , <b>2022</b> , e2104381	13.6	4
9	Trace gas sensing using quantum cascade lasers and a fiber-coupled optoacoustic sensor: Application to formaldehyde. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 214, 012037	0.3	3
8	A large-area organic transistor with 3D-printed sensing gate for noninvasive single-molecule detection of pancreatic mucinous cyst markers.. <i>Analytical and Bioanalytical Chemistry</i> , <b>2022</b> , 1	4.4	3
7	Electrolyte gated TFT biosensors based on the Donnan's capacitance of anchored biomolecules <b>2017</b> ,		2

6	Improved Performance p-type Polymer (P3HT) / n-type Nanotubes (WS2) Electrolyte Gated Thin-Film Transistor. <i>MRS Advances</i> , <b>2018</b> , 3, 1525-1533	0.7	1
5	Plasma treatment effects on Si and Si/dielectric film heterostructures. <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 206, 462-466	5.3	1
4	Quantum cascade laser technology for the ultrasensitive detection of low-level nitric oxide. <i>Methods in Molecular Biology</i> , <b>2011</b> , 704, 115-33	1.4	1
3	Surface Analytical Characterization of P3HT-Streptavidin Bilayers for Biosensing Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2015</b> , 1795, 35-40		
2	Influence of substrate pre-treatments on the growth of SixNyHz thin films by plasma enhanced chemical vapor deposition. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 3081-3087	4.4	
1	Correction to "Silicon planar technology for single-photon optical detectors". <i>IEEE Transactions on Electron Devices</i> , <b>2003</b> , 50, 1819-1819	2.9	