Cinzia Di Franco

List of Publications by Year in Descending Order

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	Large-Area Interfaces for Single-Molecule Label-free Bioelectronic Detection.. *Chemical Reviews*, **2022**,	68.1	8
58	A large-area organic transistor with 3D-printed sensing gate for noninvasive single-molecule detection of pancreatic mucinous cyst markers.. *Analytical and Bioanalytical Chemistry*, **2022**, 1	4.4	3
57	Why a Diffusing Single-Molecule can be Detected in Few Minutes by a Large Capturing Bioelectronic Interface.. *Advanced Science*, **2022**, e2104381	13.6	4
56	Organic Field-Effect Transistor Platform for Label-Free, Single-Molecule Detection of Genomic Biomarkers. *ACS Sensors*, **2020**, 5, 1822-1830	9.2	33
55	About the amplification factors in organic bioelectronic sensors. *Materials Horizons*, **2020**, 7, 999-1013	14.4	56
54	Ultra-low HIV-1 p24 detection limits with a bioelectronic sensor. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 811-818	4.4	29
53	Silicon nanowire luminescent sensor for cardiovascular risk in saliva. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 10-17	2.1	10
52	Ultimately Sensitive Organic Bioelectronic Transistor Sensors by Materials and Device Structure Design. *Advanced Functional Materials*, **2020**, 30, 1904513	15.6	66
51	A Study on the Stability of Water-Gated Organic Field-Effect-Transistors Based on a Commercial p-Type Polymer. *Frontiers in Chemistry*, **2019**, 7, 667	5	20
50	Selective single-molecule analytical detection of C-reactive protein in saliva with an organic transistor. *Analytical and Bioanalytical Chemistry*, **2019**, 411, 4899-4908	4.4	48
49	A new nanocomposite based on LASiS-generated CuNPs as a preservation system for fruit salads. *Food Packaging and Shelf Life*, **2019**, 22, 100422	8.2	10
48	Label-Free and Selective Single-Molecule Bioelectronic Sensing with a Millimeter-Wide Self-Assembled Monolayer of Anti-Immunoglobulins. *Chemistry of Materials*, **2019**, 31, 6476-6483	9.6	40
47	Large area laser-induced periodic surface structures on steel by bursts of femtosecond pulses with picosecond delays. *Optics and Lasers in Engineering*, **2019**, 114, 15-21	4.6	23
46	Ion beam sputtering deposition of silver nanoparticles and TiOx/ZnO nanocomposites for use in surface enhanced vibrational spectroscopy (SERS and SEIRAS). *Mikrochimica Acta*, **2018**, 185, 153	5.8	17
45	Low-picomolar, label-free procalcitonin analytical detection with an electrolyte-gated organic field-effect transistor based electronic immunosensor. *Biosensors and Bioelectronics*, **2018**, 104, 113-119	11.8	71
44	Improved Performance p-type Polymer (P3HT) / n-type Nanotubes (WS2) Electrolyte Gated Thin-Film Transistor. *MRS Advances*, **2018**, 3, 1525-1533	0.7	1
43	New Generation of Ultrasensitive Label-Free Optical Si Nanowire-Based Biosensors. *ACS Photonics*, **2018**, 5, 471-479	6.3	25

42	A Micellar-Hydrogel Nanogrid from a UV Crosslinked Inulin Derivative for the Simultaneous Delivery of Hydrophobic and Hydrophilic Drugs. *Pharmaceutics*, **2018**, 10,	6.4	9
41	Single-molecule detection with a millimetre-sized transistor. *Nature Communications*, **2018**, 9, 3223	17.4	107
40	Hydrogels for biomedical applications from glycol chitosan and PEG diglycidyl ether exhibit pro-angiogenic and antibacterial activity. *Carbohydrate Polymers*, **2018**, 198, 124-130	10.3	37
39	High degradation and no bioavailability of artichoke miRNAs assessed using an in vitro digestion/Caco-2 cell model. *Nutrition Research*, **2018**, 60, 68-76	4	5
38	Design, synthesis and evaluation of biotin decorated inulin-based polymeric micelles as long-circulating nanocarriers for targeted drug delivery. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2017**, 13, 1245-1254	6	36
37	Surface analytical characterization of Streptavidin/poly(3Hexylthiophene) bilayers for bio-electronic applications. *Applied Surface Science*, **2017**, 420, 313-322	6.7	9
36	Characterization of Covalently Bound Anti-Human Immunoglobulins on Self-Assembled Monolayer Modified Gold Electrodes. *Advanced Biology*, **2017**, 1, e1700055	3.5	35
35	The double layer capacitance of ionic liquids for electrolyte gating of ZnO thin film transistors and effect of gate electrodes. *Journal of Materials Chemistry C*, **2017**, 5, 3509-3518	7.1	43
34	Combined Approach for the Development of Efficient and Safe Nanoantimicrobials: The Case of Nanosilver-Modified Polyurethane Foams. *ACS Biomaterials Science and Engineering*, **2017**, 3, 1417-1425	5.5	12
33	Sensitive detection of hydrocarbon gases using electrochemically Pd-modified ZnO chemiresistors. *Beilstein Journal of Nanotechnology*, **2017**, 8, 82-90	3	12
32	Solvent-gated thin-film-transistors. *Physical Chemistry Chemical Physics*, **2017**, 19, 20573-20581	3.6	4
31	Spectroscopic Characterization and Nanosafety of Ag-Modified Antibacterial Leather and Leatherette. *Nanomaterials*, **2017**, 7,	5.4	13
30	Electrolyte gated TFT biosensors based on the Donnan's capacitance of anchored biomolecules **2017**,		2
29	Effect of the gate metal work function on water-gated ZnO thin-film transistor performance. *Journal Physics D: Applied Physics*, **2016**, 49, 275101	3	12
28	Electrophoretic deposition of Au NPs on MWCNT-based gas sensor for tailored gas detection with enhanced sensing properties. *Sensors and Actuators B: Chemical*, **2016**, 223, 417-428	8.5	43
27	Evaluation of gas-sensing properties of ZnO nanostructures electrochemically doped with Au nanophases. *Beilstein Journal of Nanotechnology*, **2016**, 7, 22-31	3	37
26	In Vitro Assessment of the Antibacterial Potential of Silver Nano-Coatings on Cotton Gauzes for Prevention of Wound Infections. *Materials*, **2016**, 9,	3.5	21
25	Templateless synthesis of polypyrrole nanowires by non-static solution-surface electropolymerization. *Journal of Solid State Electrochemistry*, **2016**, 20, 2143-2151	2.6	12

24	Electrochemical deposition of gold on indium zirconate (InZrOx with In/Zr atomic ratio 1.0) for high temperature automobile exhaust gas sensors. *Journal of Solid State Electrochemistry*, **2015**, 19, 2859-2868	2.6	4
23	UV crosslinked poly(acrylic acid): a simple method to bio-functionalize electrolyte-gated OFET biosensors. *Journal of Materials Chemistry B*, **2015**, 3, 5049-5057	7.3	30
22	Surface Analytical Characterization of P3HT-Streptavidin Bilayers for Biosensing Applications. *Materials Research Society Symposia Proceedings*, **2015**, 1795, 35-40		
21	Au/In2O3 and Au/ZrO2 composite nanoparticles via in situ sacrificial gold electrolysis. *Materials Express*, **2015**, 5, 171-179	1.3	4
20	In vitro characterization of 6-Coumarin loaded solid lipid nanoparticles and their uptake by immunocompetent fish cells. *Colloids and Surfaces B: Biointerfaces*, **2015**, 127, 79-88	6	21
19	Bio-sorbable, liquid electrolyte gated thin-film transistor based on a solution-processed zinc oxide layer. *Faraday Discussions*, **2014**, 174, 383-98	3.6	25
18	Design of novel indium oxide supported gold nanocatalysts and their application in homocoupling of arylboronic acids. *Journal of Molecular Catalysis A*, **2014**, 386, 101-107		13
17	Structural and Morphological Study of a Poly(3-hexylthiophene)/Streptavidin Multilayer Structure Serving as Active Layer in Ultra-Sensitive OFET Biosensors. *Journal of Physical Chemistry C*, **2014**, 118, 15853-15862	3.8	11
16	A comparative study of the gas sensing behavior in P3HT- and PBTTT-based OTFTs: the influence of film morphology and contact electrode position. *Sensors*, **2014**, 14, 16869-80	3.8	26
15	Electrophoretic deposition of Au NPs on CNT networks for sensitive NO₂ detection. *Journal of Sensors and Sensor Systems*, **2014**, 3, 245-252	1.6	4
14	Radiation detectors based on Multiwall Carbon Nanotubes deposited by a spray technique. *Thin Solid Films*, **2013**, 543, 19-22	2.2	14
13	Quantum cascade laser technology for the ultrasensitive detection of low-level nitric oxide. *Methods in Molecular Biology*, **2011**, 704, 115-33	1.4	1
12	Trace gas sensing using quantum cascade lasers and a fiber-coupled optoacoustic sensor: Application to formaldehyde. *Journal of Physics: Conference Series*, **2010**, 214, 012037	0.3	3
11	Optical and Electronic NO(x) Sensors for Applications in Mechatronics. *Sensors*, **2009**, 9, 3337-56	3.8	21
10	Photoacoustic techniques for trace gas sensing based on semiconductor laser sources. *Sensors*, **2009**, 9, 9616-28	3.8	147
9	Improved thermal management of mid-IR quantum cascade lasers. *Journal of Applied Physics*, **2008**, 103, 043103	2.5	24
8	Plasma treatment effects on Si and Si/dielectric film heterostructures. *Journal of Materials Processing Technology*, **2008**, 206, 462-466	5.3	1
7	Influence of substrate pre-treatments on the growth of SixNyHz thin films by plasma enhanced chemical vapor deposition. *Surface and Coatings Technology*, **2008**, 202, 3081-3087	4.4	

6	Functionalized interfaces by plasma treatments on silicon and silicon dioxide substrates. *Thin Solid Films*, **2007**, 515, 7195-7202	2.2	4
5	Quantum cascade laser-based photoacoustic spectroscopy of volatile chemicals: application to hexamethyldisilazane. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2006**, 64, 426-9	4.4	5
4	Silicon planar technology for single-photon optical detectors. *IEEE Transactions on Electron Devices*, **2003**, 50, 918-925	2.9	67
3	Correction to "Silicon planar technology for single-photon optical detectors". *IEEE Transactions on Electron Devices*, **2003**, 50, 1819-1819	2.9	
2	Organic thin film transistors: from active materials to novel applications. *Solid-State Electronics*, **2001**, 45, 1479-1485	1.7	58
1	Electrosynthesis and analytical characterisationof polypyrrole thin films modified with copper nanoparticles. *Journal of Materials Chemistry*, **2001**, 11, 1434-1440		56