

# Nicola Coppede

## List of Publications by Year in descending order

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74  
papers

1,509  
citations

361296

20  
h-index

330025

37  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2107  
citing authors

#	ARTICLE	IF	CITATIONS
1	New opportunities for organic electronics and bioelectronics: ions in action. <i>Chemical Science</i> , 2013, 4, 1395.	3.7	140
2	Human stress monitoring through an organic cotton-fiber biosensor. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5620-5626.	2.9	107
3	A single cotton fiber organic electrochemical transistor for liquid electrolyte saline sensing. <i>Journal of Materials Chemistry</i> , 2012, 22, 23830.	6.7	99
4	Superhydrophobic Surfaces as Smart Platforms for the Analysis of Diluted Biological Solutions. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 3213-3224.	4.0	95
5	An in vivo biosensing, biomimetic electrochemical transistor with applications in plant science and precision farming. <i>Scientific Reports</i> , 2017, 7, 16195.	1.6	67
6	<i>In Vivo</i> Phenotyping for the Early Detection of Drought Stress in Tomato. <i>Plant Phenomics</i> , 2019, 2019, 6168209.	2.5	60
7	Ion selective textile organic electrochemical transistor for wearable sweat monitoring. <i>Organic Electronics</i> , 2020, 78, 105579.	1.4	57
8	Liposome sensing and monitoring by organic electrochemical transistors integrated in microfluidics. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4374-4380.	1.1	53
9	Enzymatic sensing with laccase-functionalized textile organic biosensors. <i>Organic Electronics</i> , 2017, 40, 51-57.	1.4	49
10	Diffusion Driven Selectivity in Organic Electrochemical Transistors. <i>Scientific Reports</i> , 2014, 4, 4297.	1.6	48
11	Organic electrochemical transistors monitoring micelle formation. <i>Chemical Science</i> , 2012, 3, 3432.	3.7	45
12	Irreversible evolution of eumelanin redox states detected by an organic electrochemical transistor: en route to bioelectronics and biosensing. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3843.	2.9	45
13	Ambipolar copper phthalocyanine transistors with carbon nanotube array electrodes. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	44
14	Controlling field-effect mobility in pentacene-based transistors by supersonic molecular-beam deposition. <i>Applied Physics Letters</i> , 2006, 88, 132106.	1.5	39
15	Development of an In Vivo Sensor to Monitor the Effects of Vapour Pressure Deficit (VPD) Changes to Improve Water Productivity in Agriculture. <i>Sensors</i> , 2019, 19, 4667.	2.1	33
16	Polymorphism and Phase Control in Titanyl Phthalocyanine Thin Films Grown by Supersonic Molecular Beam Deposition. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12550-12558.	1.1	32
17	A theoretical model for the time varying current in organic electrochemical transistors in a dynamic regime. <i>Organic Electronics</i> , 2016, 35, 59-64.	1.4	23
18	Silica diatom shells tailored with Au nanoparticles enable sensitive analysis of molecules for biological, safety and environment applications. <i>Nanoscale Research Letters</i> , 2018, 13, 94.	3.1	23

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19	All-Polymeric Pressure Sensors Based on PEDOT:PSS-Modified Polyurethane Foam. ACS Applied Polymer Materials, 2021, 3, 1563-1572.	2.0	23
20	Controlled Polymorphism in Titanyl Phthalocyanine on Mica by Hyperthermal Beams: A Micro-Raman Analysis. Journal of Physical Chemistry C, 2010, 114, 7038-7044.	1.5	21
21	The correlation between gate dielectric, film growth, and charge transport in organic thin film transistors: the case of vacuum-sublimed tetracene thin films. Journal of Materials Chemistry C, 2013, 1, 967-976.	2.7	20
22	Low Temperature Sensing Properties of a Nano Hybrid Material Based on ZnO Nanotetrapods and Titanyl Phthalocyanine. Sensors, 2013, 13, 3445-3453.	2.1	20
23	Superhydrophobic lab-on-chip measures secretome protonation state and provides a personalized risk assessment of sporadic tumour. Npj Precision Oncology, 2018, 2, 26.	2.3	20
24	Microtexturing of the Conductive PEDOT:PSS Polymer for Superhydrophobic Organic Electrochemical Transistors. BioMed Research International, 2014, 2014, 1-10.	0.9	19
25	Selective response inversion to NO <sub>2</sub> and acetic acid in ZnO and CdS nanocomposite gas sensor. Nanotechnology, 2014, 25, 365502.	1.3	19
26	Cortical-like mini-columns of neuronal cells on zinc oxide nanowire surfaces. Scientific Reports, 2019, 9, 4021.	1.6	18
27	Hybrid n-TiO <sub>2</sub> -CuPc gas sensors sensitive to reducing species, synthesized by cluster and supersonic beam deposition. Sensors and Actuators B: Chemical, 2007, 126, 214-220.	4.0	17
28	Hybrid titania-zincphthalocyanine nanostructured multilayers with novel gas sensing properties. Sensors and Actuators B: Chemical, 2008, 130, 405-410.	4.0	17
29	Geometrical Patterning of Super-Hydrophobic Biosensing Transistors Enables Space and Time Resolved Analysis of Biological Mixtures. Scientific Reports, 2016, 6, 18992.	1.6	17
30	Smart composites materials: A new idea to add gas-sensing properties to commercial carbon-fibers by functionalization with ZnO nanowires. Sensors and Actuators B: Chemical, 2017, 245, 166-170.	4.0	17
31	Emerging Designs of Electronic Devices in Biomedicine. Micromachines, 2020, 11, 123.	1.4	14
32	A Biomimetic, Biocompatible OECT Sensor for the Real-Time Measurement of Concentration and Saturation of Ions in Plant Sap. Advanced Electronic Materials, 2022, 8, .	2.6	14
33	SuMBE based organic thin film transistors. Synthetic Metals, 2004, 146, 291-295.	2.1	12
34	Growth and characterization of In <sub>2</sub> -Ga <sub>2</sub> O <sub>3</sub> nanowires obtained on not-catalyzed and Au/Pt catalyzed substrates. Journal of Crystal Growth, 2017, 457, 255-261.	0.7	12
35	Sub-Micron Scale Optical Read/Write/Erase on Azo-Polymethacrylate Thin Films by Scanning Near-Field Optical Microscopy. Molecular Crystals and Liquid Crystals, 2003, 398, 33-43.	0.4	11
36	Supersonic molecular beams deposition of 1,4-quaterthiophene: Enhanced growth control and devices performances. Organic Electronics, 2009, 10, 521-526.	1.4	11

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37	Ambipolar organic thin film transistors based on a soluble pentacene derivative. Applied Physics Letters, 2011, 99, 023304.	1.5	11
38	Facile synthesis of hierarchical CuO nanostructures with enhanced photocatalytic activity. Crystal Research and Technology, 2014, 49, 594-598.	0.6	11
39	Liquid electrolyte positioning along the device channel influences the operation of Organic Electro-Chemical Transistors. Organic Electronics, 2014, 15, 3016-3023.	1.4	10
40	A mathematical model of OECTs with variable internal geometry. Sensors and Actuators A: Physical, 2020, 304, 111894.	2.0	10
41	OFET for gas sensing based on SuMBE grown pentacene films. Solid-State Electronics, 2008, 52, 417-421.	0.8	8
42	Turning carbon fiber into a stress-sensitive composite material. Journal of Materials Chemistry A, 2016, 4, 10486-10492.	5.2	8
43	Towards In Vivo Monitoring of Ions Accumulation in Trees: Response of an in Planta Organic Electrochemical Transistor Based Sensor to Water Flux Density, Light and Vapor Pressure Deficit Variation. Applied Sciences (Switzerland), 2021, 11, 4729.	1.3	8
44	Titanyl phthalocyanine ambipolar thin film transistors making use of carbon nanotube electrodes. Nanotechnology, 2014, 25, 485703.	1.3	7
45	A biocompatible pressure sensor based on a 3D-printed scaffold functionalized with PEDOT:PSS for biomedical applications. Organic Electronics, 2021, 96, 106204.	1.4	7
46	Directionally Selective Sensitization of ZnO Nanorods by TiOPc: A Novel Approach to Functionalized Nanosystems. Journal of Physical Chemistry C, 2012, 116, 8223-8229.	1.5	6
47	Tailoring Chemometric Models on Blood-Derived Cultures Secretome to Assess Personalized Cancer Risk Score. Cancers, 2020, 12, 1362.	1.7	6
48	An integrated platform for in vitro single-site cell electroporation: Controlled delivery and electrodes functionalization. Sensors and Actuators B: Chemical, 2012, 170, 182-188.	4.0	5
49	Transforming diatomaceous earth into sensing devices by surface modification with gold nanoparticles. Micro and Nano Engineering, 2019, 2, 29-34.	1.4	5
50	Near-field microscopy investigation of laser-deposited coated conductors. Applied Surface Science, 2003, 208-209, 599-603.	3.1	4
51	Laser ablation of ceramic oxides in the presence of a RF pulsed oxygen plasma. Surface and Coatings Technology, 2004, 180-181, 591-595.	2.2	4
52	Organic bioelectronics. , 2013, , 597-617.		4
53	Tailoring super-hydrophobic properties of electrochemical biosensor for early cancer detection. MRS Advances, 2016, 1, 3545-3552.	0.5	4
54	Charge-separation enhancement in inverted polymer solar cells by molecular-level triple heterojunction: NiO-np:P3HT:PCBM. Nanotechnology, 2017, 28, 035403.	1.3	4

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55	Introducing State Variables in Organic Electrochemical Transistors With Application to Biophysical Systems. <i>IEEE Sensors Journal</i> , 2019, 19, 11753-11758.	2.4	4
56	Solid state dye sensitized solar cells based on supersonic beam deposition of organic, inorganic cluster assembled, and nanohybrid materials. <i>Journal of Renewable and Sustainable Energy</i> , 2010, 2, 053106.	0.8	3
57	Multiscale modification of the conductive PEDOT:PSS polymer for the analysis of biological mixtures in a super-hydrophobic drop. <i>Microelectronic Engineering</i> , 2016, 158, 80-84.	1.1	3
58	Structural and morphological phase control by supersonic beams on titanyl phthalocyanine: An investigation on the growth. <i>Organic Electronics</i> , 2016, 32, 15-20.	1.4	3
59	Methylglyoxal Adducts Levels in Blood Measured on Dried Spot by Portable Near-Infrared Spectroscopy. <i>Nanomaterials</i> , 2021, 11, 2432.	1.9	3
60	Novel nano-hybrid gas sensor based on n-TiO <sub>2</sub> functionalized by phthalocyanines via supersonic beam co-deposition: Performance and application to automotive air quality. , 2008, , .		2
61	The issue of pseudoreplication when applying a statistical exploratory approach to extract relevant features from ToF- $\delta$ IMS spectra. <i>Surface and Interface Analysis</i> , 2013, 45, 1197-1205.	0.8	2
62	LASER DEPOSITION OF YBCO FILMS ONTO Ni $\delta$ -BASED SUBSTRATES. <i>International Journal of Modern Physics B</i> , 2003, 17, 745-750.	1.0	1
63	Deposition from Supersonic Beams (SuMBE): a Kinetic Approach for Controlling Thin Film Properties. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
64	An enhanced platform for cell electroporation: controlled delivery and electrodes functionalization. <i>Procedia Engineering</i> , 2010, 5, 45-48.	1.2	1
65	Experimental and Numerical Study of Pentacene Molecular Beam Seeded in the Free Jet of Helium. , 2011, , .		1
66	Comparative Bioaffinity Studies for In-Vitro Cell Assays on MEMS-Based Devices. <i>Lecture Notes in Electrical Engineering</i> , 2010, , 83-87.	0.3	1
67	Optimizing Nozzle Geometry for Controlling Properties of Molecular Beam with Heavy Organic Molecules. , 2011, , .		0
68	Organic electrochemical transistors operating with electrolytes of increasing complexity for (Bio)sensing. , 2012, , .		0
69	Multi-Technique Characterization through Multivariate Statistical Analysis of Copper Phthalocyanine Kinetic Activated Growth by Supersonic Molecular Beam Deposition. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10883-10892.	1.5	0
70	Detection of nano-structured particles with organic electrochemical transistors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015, 12, 164-167.	0.8	0
71	FIRB "SQUARE" PROJECT: NANO-STRUCTURED SENSORS FOR THE DETECTION OF THE POLLUTING IC ENGINE EXHAUST GASES AND FOR INDOOR AIR QUALITY MONITORING. , 2008, , .		0
72	Functionalized ZnO nanostructures for gas sensing and photovoltaic applications. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, C536-C537.	0.3	0

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73	Textile electrochemical biosensor for plant science and precision farming. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1013-C1013.	0.0	0
74	Crystal growth of nanostructured zinc oxide nanorods from the seed layer. Materials Science-Poland, 2018, 36, 477-482.	0.4	0