

# Clara Santato

## List of Publications by Year in descending order

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84  
papers

4,651  
citations

147801

31  
h-index

98798

67  
g-index

91  
all docs

91  
docs citations

91  
times ranked

6530  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining Aqueous Solution Processing and Printing for Fabrication of Flexible and Sustainable Tin Dioxide Ion-Gated Transistors. <i>Advanced Materials Technologies</i> , 2022, 7, 2100843.	5.8	5
2	Advances in high-resolution printed transistors: The case of bio-sourced organic materials. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022, 34, 100594.	5.9	4
3	Special Issue of <i>Advanced Materials Technologies on Green Electronics</i> . <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	0
4	Solution-Processed Titanium Dioxide Ion-Gated Transistors and Their Application for pH Sensing. <i>Frontiers in Electronics</i> , 2022, 3, .	3.2	2
5	The Global Challenge of Electronics: Managing the Present and Preparing the Future. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	7
6	Locating the bandgap edges of eumelanin thin films for applications in organic electronics. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 837-843.	3.2	3
7	Green Electronics. <i>Advanced Sustainable Systems</i> , 2022, 6, .	5.3	1
8	Locating the bandgap edges of eumelanin thinfilms for applications in organic electronics. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 1910-1910.	3.2	0
9	Electronic and protonic transport in bio-sourced materials: a new perspective on semiconductivity. <i>Materials Advances</i> , 2021, 2, 15-31.	5.4	22
10	Best practices in photoelectrochemistry. <i>Journal of Power Sources</i> , 2021, 482, 228958.	7.8	5
11	Eumelanin: From Molecular State to Film. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3567-3576.	3.1	9
12	Toward Biosourced Materials for Electrochemical Energy Storage: The Case of Tannins. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6079-6086.	6.7	7
13	Biodegradation of bio-sourced and synthetic organic electronic materials towards green organic electronics. <i>Nature Communications</i> , 2021, 12, 3167.	12.8	38
14	3D Network of Sepia Melanin and N-doped and S-doped Graphitic Carbon Quantum Dots for Sustainable Electrochemical Capacitors. <i>Advanced Sustainable Systems</i> , 2021, 5, 2100152.	5.3	2
15	On the antioxidant activity of eumelanin biopigments: a quantitative comparison between free radical scavenging and redox properties. <i>Natural Product Research</i> , 2020, 34, 2465-2473.	1.8	16
16	Light-assisted melanin-based electrochemical energy storage: physicochemical aspects. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 043003.	2.8	12
17	Light-enhanced Electrochemical Energy Storage of Synthetic Melanin on Conductive Glass Substrates. <i>MRS Advances</i> , 2020, 5, 1441-1448.	0.9	1
18	Good practice guide for papers on supercapacitors and related hybrid capacitors for the <i>Journal of Power Sources</i> . <i>Journal of Power Sources</i> , 2020, 450, 227636.	7.8	41

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19	Ion-gated transistors based on porous and compact TiO <sub>2</sub> films: Effect of Li ions in the gating medium. <i>AIP Advances</i> , 2020, 10, .	1.3	10
20	En route toward sustainable organic electronics. <i>MRS Energy &amp; Sustainability</i> , 2020, 7, 1.	3.0	20
21	Electronic Transport in the Biopigment Sepia Melanin. <i>ACS Applied Bio Materials</i> , 2020, 3, 5244-5252.	4.6	36
22	Flexible Ion-Gated Transistors Making Use of Poly-3-hexylthiophene (P3HT): Effect of the Molecular Weight on the Effectiveness of Gating and Device Performance. <i>Journal of Electronic Materials</i> , 2020, 49, 5302-5307.	2.2	2
23	Eumelanin electrodes in buffered aqueous media at different pH values. <i>Electrochimica Acta</i> , 2020, 347, 136250.	5.2	10
24	Structure of the Electrical Double Layer at the Interface between an Ionic Liquid and Tungsten Oxide in Ion-Gated Transistors. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3257-3262.	4.6	16
25	Melanin: A Greener Route To Enhance Energy Storage under Solar Light. <i>ACS Omega</i> , 2019, 4, 12244-12251.	3.5	40
26	Ambient-stable, ion-gated poly[N-9 <sup>h</sup> -heptadecanyl-2,7-carbazole-alt-5,5-(4,7-di-2-thienyl-2,1,3-benzothiadiazole)] (PCDTBT) transistors and phototransistors. <i>Organic Electronics</i> , 2019, 74, 265-268.	2.0	6
27	Tungsten oxide ion-gated phototransistors using ionic liquid and aqueous gating media. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 305102.	2.8	13
28	On the interfaces between organic bio-sourced materials and metals for sustainable electronics: the eumelanin case. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 051014.	1.5	6
29	Eumelanin for nature-inspired UV-absorption enhancement of plastics. <i>Polymer International</i> , 2019, 68, 984-991.	3.1	12
30	Smart Packaging in the Sustainability Challenge: Eumelanin as a UV-Absorption Enhancer of Polymers. <i>IEEE Nanotechnology Magazine</i> , 2019, 18, 1160-1165.	2.0	3
31	An Electrochemical Study on the Effect of Metal Chelation and Reactive Oxygen Species on a Synthetic Neuromelanin Model. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 227.	4.1	4
32	Tungsten oxide ion gel-gated transistors: how structural and electrochemical properties affect the doping mechanism. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1980-1987.	5.5	16
33	Electrolyte-gated transistors based on phenyl-C <sub>61</sub> -butyric acid methyl ester (PCBM) films: bridging redox properties, charge carrier transport and device performance. <i>Chemical Communications</i> , 2018, 54, 5490-5493.	4.1	11
34	Films of Transition Metal Complexes Including Ionic Liquids: Dramatic Effects of Processing Parameters and Substrate on the Film Morphology. <i>Journal of Electronic Materials</i> , 2018, 47, 402-408.	2.2	0
35	Natural melanin pigments and their interfaces with metal ions and oxides: emerging concepts and technologies. <i>MRS Communications</i> , 2017, 7, 141-151.	1.8	70
36	Tin Dioxide Electrolyte-Gated Transistors Working in Depletion and Enhancement Modes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37013-37021.	8.0	17

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37	An electrochemical study of natural and chemically controlled eumelanin. <i>APL Materials</i> , 2017, 5, 126108.	5.1	31
38	Novel insights on the physicochemical properties of eumelanins and their DMSO derivatives. <i>Polymer International</i> , 2016, 65, 1315-1322.	3.1	25
39	Thermal properties of methyltrimethoxysilane aerogel thin films. <i>AIP Advances</i> , 2016, 6, .	1.3	12
40	Photolithographically Patterned TiO <sub>2</sub> Films for Electrolyte-Gated Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 14855-14862.	8.0	15
41	Melanin-based flexible supercapacitors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9516-9525.	5.5	125
42	Resistive switching controlled by the hydration level in thin films of the biopigment eumelanin. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9544-9553.	5.5	23
43	Melanins and melanogenesis: from pigment cells to human health and technological applications. <i>Pigment Cell and Melanoma Research</i> , 2015, 28, 520-544.	3.3	347
44	Self-assembly of indole-2-carboxylic acid at graphite and gold surfaces. <i>Journal of Chemical Physics</i> , 2015, 142, 101923.	3.0	21
45	Ionic liquid-water mixtures and ion gels as electrolytes for organic electrochemical transistors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6549-6553.	5.5	29
46	Conducting Polymer Transistors Making Use of Activated Carbon Gate Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 969-973.	8.0	39
47	Protonic and Electronic Transport in Hydrated Thin Films of the Pigment Eumelanin. <i>Chemistry of Materials</i> , 2015, 27, 436-442.	6.7	158
48	Electrolyte-gated polymer thin film transistors making use of ionic liquids and ionic liquid-solvent mixtures. <i>Journal of Applied Physics</i> , 2015, 117, 112809.	2.5	14
49	Electrolyte-Gated WO <sub>3</sub> Transistors: Electrochemistry, Structure, and Device Performance. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21732-21738.	3.1	42
50	Towards near-infrared photosensitization of tungsten trioxide nanostructured films by upconverting nanoparticles. <i>RSC Advances</i> , 2015, 5, 81875-81880.	3.6	1
51	Titanyl phthalocyanine ambipolar thin film transistors making use of carbon nanotube electrodes. <i>Nanotechnology</i> , 2014, 25, 485703.	2.6	7
52	TransCap: a monolithically integrated supercapacitor and electrolyte-gated transistor. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10273-10276.	5.5	12
53	Low voltage electrolyte-gated organic transistors making use of high surface area activated carbon gate electrodes. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5690-5694.	5.5	50
54	Lateral Organic Semiconductor Photodetector. Part I: Use of an Insulating Layer for Low Dark Current. <i>IEEE Transactions on Electron Devices</i> , 2014, 61, 3465-3471.	3.0	7

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55	Eumelanin thin films: solution-processing, growth, and charge transport properties. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3836.	5.8	69
56	New opportunities for organic electronics and bioelectronics: ions in action. <i>Chemical Science</i> , 2013, 4, 1395.	7.4	140
57	The correlation between gate dielectric, film growth, and charge transport in organic thin film transistors: the case of vacuum-sublimed tetracene thin films. <i>Journal of Materials Chemistry C</i> , 2013, 1, 967-976.	5.5	20
58	Effect of multi-walled carbon nanotubes on the stability of dye sensitized solar cells. <i>Journal of Power Sources</i> , 2013, 233, 93-97.	7.8	66
59	Carbon nanotube electrodes in organic transistors. <i>Nanoscale</i> , 2013, 5, 4638.	5.6	38
60	In Situ Formation of Dendrites in Eumelanin Thin Films between Gold Electrodes. <i>Advanced Functional Materials</i> , 2013, 23, 5591-5598.	14.9	34
61	Flexible, Solid Electrolyte-Based Lithium Battery Composed of $\text{LiFePO}_4$ Cathode and $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Anode for Applications in Smart Textiles. <i>Journal of the Electrochemical Society</i> , 2012, 159, A349-A356.	2.9	119
62	Blending organic building blocks. <i>Nature Photonics</i> , 2012, 6, 639-640.	31.4	4
63	Organic electrochemical transistors monitoring micelle formation. <i>Chemical Science</i> , 2012, 3, 3432.	7.4	45
64	Charge-Carrier Transport in Thin Films of $\pi$ -Conjugated Thiopheno-Azomethines. <i>Organic Electronics</i> , 2012, 13, 3022-3031.	2.6	40
65	Spotlight on organic transistors. <i>Nature Photonics</i> , 2011, 5, 392-393.	31.4	30
66	Ambipolar organic thin film transistors based on a soluble pentacene derivative. <i>Applied Physics Letters</i> , 2011, 99, 023304.	3.3	11
67	Seeing both sides. <i>Nature Chemistry</i> , 2010, 2, 344-345.	13.6	16
68	Influence of the oxidation level on the electronic, morphological and charge transport properties of novel dithienothiophene S-oxide and S,S-dioxide inner core oligomers. <i>Journal of Materials Chemistry</i> , 2010, 20, 669-676.	6.7	13
69	Self-assembly of rubrene on Cu(111). <i>Nanotechnology</i> , 2008, 19, 424021.	2.6	24
70	Environmentally stable light emitting field effect transistors based on 2-(4-pentylstyryl)tetracene. <i>Journal of Materials Chemistry</i> , 2008, 18, 158-161.	6.7	49
71	Organic Light Emitting Field Effect Transistors: Advances and Perspectives. <i>Advanced Functional Materials</i> , 2007, 17, 3421-3434.	14.9	316
72	Synthesis and characterization of polycrystalline Sn and SnO <sub>2</sub> films with wire morphologies. <i>Electrochemistry Communications</i> , 2007, 9, 1519-1524.	4.7	23

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73	Organic light-emitting transistors using concentric source/drain electrodes on a molecular adhesion layer. <i>Applied Physics Letters</i> , 2006, 88, 163511.	3.3	33
74	Structural investigation of thin tetracene films on flexible substrate by synchrotron X-ray diffraction. <i>Applied Surface Science</i> , 2006, 252, 8022-8027.	6.1	20
75	Organic Light-Emitting Transistors Based on Solution-Cast and Vacuum-Sublimed Films of a Rigid Core Thiophene Oligomer. <i>Advanced Materials</i> , 2006, 18, 169-174.	21.0	97
76	Morphology and Field-Effect-Transistor Mobility in Tetracene Thin Films. <i>Advanced Functional Materials</i> , 2005, 15, 375-380.	14.9	111
77	Photoelectrolytic oxidation of organic species at mesoporous tungsten trioxide film electrodes under visible light illumination. <i>Journal of Applied Electrochemistry</i> , 2005, 35, 715-721.	2.9	64
78	Tetracene light-emitting transistors on flexible plastic substrates. <i>Applied Physics Letters</i> , 2005, 86, 141106.	3.3	85
79	In situ micro Raman investigation of the laser crystallization in Si thin films plasma enhanced chemical vapor deposition-grown from He-diluted SiH <sub>4</sub> . <i>Journal of Applied Physics</i> , 2004, 95, 5366-5372.	2.5	3
80	Tetracene-based organic light-emitting transistors: optoelectronic properties and electron injection mechanism. <i>Synthetic Metals</i> , 2004, 146, 329-334.	3.9	104
81	Photoelectrochemical Properties of Nanostructured Tungsten Trioxide Films. <i>Journal of Physical Chemistry B</i> , 2001, 105, 936-940.	2.6	464
82	Crystallographically Oriented Mesoporous WO <sub>3</sub> Films: Synthesis, Characterization, and Applications. <i>Journal of the American Chemical Society</i> , 2001, 123, 10639-10649.	13.7	975
83	Enhanced Visible Light Conversion Efficiency Using Nanocrystalline WO <sub>3</sub> Films. <i>Advanced Materials</i> , 2001, 13, 511-514.	21.0	162
84	Photoredox pathways for the polymerization of a pyrrole-substituted ruthenium tris(bipyridyl) complex. <i>New Journal of Chemistry</i> , 1998, 22, 33-37.	2.8	18