

Giovanni Ligorio

List of Publications by Year in descending order

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papers

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1809
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible training of waveguide-based AND/OR gates for optically driven artificial neural networks using photochromic molecules. Journal Physics D: Applied Physics, 2022, 55, 044002.	1.3	4
2	Using Combinatorial Inkjet Printing for Synthesis and Deposition of Metal Halide Perovskites in Wavelength-Selective Photodetectors. Advanced Engineering Materials, 2022, 24, 2101111.	1.6	13
3	Organic Synaptic Diodes Based on Polymeric Mixed Ionic-Electronic Conductors. Advanced Electronic Materials, 2022, 8, .	2.6	3
4	Transparent electrodes based on molybdenum-titanium oxide with increased water stability for use as hole-transport/hole-injection components. Journal of Materials Science, 2022, 57, 8752-8766.	1.7	2
5	Low Temperature Heating of Silver-Mediated Exfoliation of MoS ₂ . Advanced Materials Interfaces, 2022, 9, .	1.9	9
6	High performance organic light-emitting diodes employing ITO-free and flexible TiO _x /Ag/Al:ZnO electrodes. RSC Advances, 2021, 11, 17324-17331.	1.7	13
7	Fast sputter deposition of MoOx/metal/MoOx transparent electrodes on glass and PET substrates. Journal of Materials Science, 2021, 56, 9047-9064.	1.7	10
8	Benchmarking Electrolyte-Gated Monolayer MoS ₂ Field-Effect Transistors in Aqueous Environments. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100147.	1.2	2
9	2D-MoS2 goes 3D: transferring optoelectronic properties of 2D MoS2 to a large-area thin film. Npj 2D Materials and Applications, 2021, 5, .	3.9	31
10	Thermally Activated Gold-Mediated Transition Metal Dichalcogenide Exfoliation and a Unique Gold-Mediated Transfer. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000408.	1.2	25
11	Using Active Surface Plasmons in a Multibit Optical Storage Device to Emulate Long-Term Synaptic Plasticity. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000354.	0.8	5
12	Oligothiophene-Based Phosphonates for Surface Modification of Ultraflat Transparent Conductive Oxides. Advanced Materials Interfaces, 2020, 7, 1902114.	1.9	2
13	Large and continuous tuning of the work function of indium tin oxide using simple mixing of self-assembled monolayers. Applied Physics Letters, 2020, 116, .	1.5	8
14	Modulating the luminance of organic light-emitting diodes via optical stimulation of a photochromic molecular monolayer at transparent oxide electrode. Nanoscale, 2020, 12, 5444-5451.	2.8	14
15	Simultaneous Effect of Ultraviolet Radiation and Surface Modification on the Work Function and Hole Injection Properties of ZnO Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900876.	0.8	6
16	Utilizing Diels-Alder click-chemistry to functionalize the organic-organic interface of semiconducting polymers. Journal of Materials Chemistry C, 2020, 8, 3302-3307.	2.7	3
17	Conduction mechanisms in epitaxial NiO/Graphene gas sensors. Sensors and Actuators B: Chemical, 2020, 325, 128797.	4.0	14
18	Potential modulations in flatland: near-infrared sensitization of MoS2 phototransistors by a solvatochromic dye directly tethered to sulfur vacancies. Scientific Reports, 2019, 9, 16682.	1.6	11

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19	Nanocrystalline Ga ₂ O ₃ films deposited by spray pyrolysis from water-based solutions on glass and TCO substrates. <i>Journal of Materials Chemistry C</i> , 2019, 7, 69-77.	2.7	43
20	Dynamically Switching the Electronic and Electrostatic Properties of Indium-Tin Oxide Electrodes with Photochromic Monolayers: Toward Photoswitchable Optoelectronic Devices. <i>ACS Applied Nano Materials</i> , 2019, 2, 1102-1110.	2.4	20
21	Rapid Processing of In-Doped ZnO by Spray Pyrolysis from Environment-Friendly Precursor Solutions. <i>Coatings</i> , 2019, 9, 245.	1.2	7
22	Switching the Electronic Properties of ZnO Surfaces with Negative Type Photochromic Pyridyl-dihydropyrene Layers and Impact of Fermi Level Pinning. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900211.	1.9	13
23	Polymer interlayers on flexible PET substrates enabling ultra-high performance, ITO-free dielectric/metal/dielectric transparent electrode. <i>Materials and Design</i> , 2019, 168, 107663.	3.3	33
24	Truly Low Temperature Sintering of Printed Copper Ink Using Formic Acid. <i>Advanced Materials Technologies</i> , 2018, 3, 1800146.	3.0	27
25	Versatile and Scalable Strategy To Grow Sol-Gel Derived 2H-MoS ₂ Thin Films with Superior Electronic Properties: A Memristive Case. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34392-34400.	4.0	22
26	Dynamic Photoswitching of Electron Energy Levels at Hybrid ZnO/Organic Photochromic Molecule Junctions. <i>Advanced Functional Materials</i> , 2018, 28, 1800716.	7.8	26
27	Stability evaluation and gate-distance effects on electrolyte-gated organic field-effect transistor based on organic semiconductors. , 2018, , .		2
28	Lithography-Free Miniaturization of Resistive Nonvolatile Memory Devices to the 100 nm Scale by Glancing Angle Deposition. <i>Nano Letters</i> , 2017, 17, 1149-1153.	4.5	11
29	Effective Work Function Reduction of Practical Electrodes Using an Organometallic Dimer. <i>Advanced Functional Materials</i> , 2016, 26, 2493-2502.	7.8	28
30	Metal nanoparticle mediated space charge and its optical control in an organic hole-only device. <i>Applied Physics Letters</i> , 2016, 108, 153302.	1.5	4
31	All-solution-processed multilayer polymer/dendrimer light emitting diodes. <i>Organic Electronics</i> , 2016, 35, 164-170.	1.4	22
32	Electronic structures of CuTPP and CuTPP(F) complexes. A combined experimental and theoretical study I. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18727-18738.	1.3	16
33	Electronic structure of CuTPP and CuTPP(F) complexes: a combined experimental and theoretical study II. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24890-24904.	1.3	19
34	Ligand-Field Strength and Symmetry-Restricted Covalency in CuI Complexes - a Near-Edge X-ray Absorption Fine Structure Spectroscopy and Time-Dependent DFT Study. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2707-2713.	1.0	8
35	Energy-Level Engineering at ZnO/Oligophenylene Interfaces with Phosphonate-Based Self-Assembled Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11900-11907.	4.0	33
36	Organic Semiconductor/Gold Interface Interactions: From Physisorption on Planar Surfaces to Chemical Reactions with Metal Nanoparticles. <i>ChemPhysChem</i> , 2015, 16, 2602-2608.	1.0	8

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37	Tuning the Electronic Structure of Graphene by Molecular Dopants: Impact of the Substrate. ACS Applied Materials & Interfaces, 2015, 7, 19134-19144.	4.0	34
38	Tuning the Work Function of Graphene-on-Quartz with a High Weight Molecular Acceptor. Journal of Physical Chemistry C, 2014, 118, 4784-4790.	1.5	50
39	Surface Modification of ZnO(0001)â€Zn with Phosphonate-Based Self-Assembled Monolayers: Binding Modes, Orientation, and Work Function. Chemistry of Materials, 2014, 26, 5042-5050.	3.2	66
40	Harnessing the Liquidâ€Phase Exfoliation of Graphene Using Aliphatic Compounds: A Supramolecular Approach. Angewandte Chemie - International Edition, 2014, 53, 10355-10361.	7.2	92
41	Charging and exciton-mediated decharging of metal nanoparticles in organic semiconductor matrices. Applied Physics Letters, 2014, 104, 163302.	1.5	5
42	All solution processed blue multi-layer light emitting diodes realized by thermal layer stabilization and orthogonal solvent processing. Proceedings of SPIE, 2013, , .	0.8	0
43	Bright Blue Solution Processed Tripleâ€Layer Polymer Lightâ€Emitting Diodes Realized by Thermal Layer Stabilization and Orthogonal Solvents. Advanced Functional Materials, 2013, 23, 4897-4905.	7.8	50
44	Real-time X-ray scattering studies on temperature dependence of perfluoropentacene thin film growth. Journal of Applied Physics, 2013, 114, 043515.	1.1	12
45	Simultaneous in situ measurements of x-ray reflectivity and optical spectroscopy during organic semiconductor thin film growth. Applied Physics Letters, 2010, 97, 063301.	1.5	31
46	Inverted organic photovoltaics with a solution-processed Mg-doped ZnO electron transport layer annealed at 150 Å°C. Sustainable Energy and Fuels, 0, , .	2.5	1