

Ignanio Roppolo

List of Publications by Year in descending order

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79
papers

2,768
citations

159358

30
h-index

205818

48
g-index

80
all docs

80
docs citations

80
times ranked

3327
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Thermochromic photoluminescent 3D printed polymeric devices based on copper-iodide clusters. Additive Manufacturing, 2022, 49, 102504. | 1.7 | 4 |
| 2 | Current and emerging trends in polymeric 3D printed microfluidic devices. Additive Manufacturing, 2022, 55, 102867. | 1.7 | 29 |
| 3 | 3D printing of fully cellulose-based hydrogels by digital light processing. Sustainable Materials and Technologies, 2022, 32, e00444. | 1.7 | 10 |
| 4 | Magneto-responsive Devices with Programmable Behavior Using a Customized Commercial Stereolithographic 3D Printer. Advanced Materials Technologies, 2022, 7, . | 3.0 | 12 |
| 5 | Functional Dyes in Polymeric 3D Printing: Applications and Perspectives. , 2021, 3, 1-17. | | 58 |
| 6 | Functional 3D printing: Approaches and bioapplications. Biosensors and Bioelectronics, 2021, 175, 112849. | 5.3 | 83 |
| 7 | 3D-printed self-healing hydrogels via Digital Light Processing. Nature Communications, 2021, 12, 2462. | 5.8 | 122 |
| 8 | Programming the microstructure of magnetic nanocomposites in DLP 3D printing. Additive Manufacturing, 2021, 47, 102343. | 1.7 | 11 |
| 9 | Hybrid silica micro-particles with light-responsive surface properties and Janus-like character. Polymer Chemistry, 2021, 12, 3925-3938. | 1.9 | 2 |
| 10 | Effects of the Manufacturing Methods on the Mechanical Properties of a Medical-Grade Copolymer Poly(L-lactide-co-D,L-lactide) and Poly(L-lactide-co- μ -caprolactone) Blend. Materials, 2021, 14, 6381. | 1.3 | 0 |
| 11 | CO2 permeability control in 3D printed light responsive structures. Applied Materials Today, 2020, 18, 100470. | 2.3 | 15 |
| 12 | Come to light: Detailed analysis of thermally treated Phenyl modified Carbon Nitride Polymorphs for bright phosphors in lighting applications. Applied Surface Science, 2020, 504, 144330. | 3.1 | 25 |
| 13 | A modular 3D printed lab-on-a-chip for early cancer detection. Lab on A Chip, 2020, 20, 665-674. | 3.1 | 44 |
| 14 | Investigation of the Mechanical Properties of a Carbon Fibre-Reinforced Nylon Filament for 3D Printing. Machines, 2020, 8, 52. | 1.2 | 52 |
| 15 | Multiacrylated Cyclodextrin: A Bio-derived Photocurable Macromer for VAT 3D Printing. Macromolecular Materials and Engineering, 2020, 305, 2000350. | 1.7 | 21 |
| 16 | Fabrication and Functionalization of 3D Printed Polydimethylsiloxane-based Microfluidic Devices Obtained through Digital Light Processing. Advanced Materials Technologies, 2020, 5, 2000374. | 3.0 | 39 |
| 17 | Highly efficient visible light phenyl modified carbon nitride/TiO2 photocatalyst for environmental applications. Applied Surface Science, 2020, 531, 147394. | 3.1 | 19 |
| 18 | Materials Testing for the Development of Biocompatible Devices through Vat-Polymerization 3D Printing. Nanomaterials, 2020, 10, 1788. | 1.9 | 41 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Recent Trends in Applying Ortho-Nitrobenzyl Esters for the Design of Photo-Responsive Polymer Networks. <i>Materials</i> , 2020, 13, 2777. | 1.3 | 44 |
| 20 | Laser-Triggered Writing and Biofunctionalization of Thiol-Ene Networks. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000084. | 2.0 | 7 |
| 21 | Electrokinetics In Nanocomposites: Nanoparticle Reshaping and Ion Migration in Nanocomposite Ultrafast Ionic Actuators: The Converse Piezo-Electro-Kinetic Effect (<i>Adv. Funct. Mater.</i> 31/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970215. | 7.8 | 0 |
| 22 | 3D Printing of Magnetoresponse Polymer Materials with Tunable Mechanical and Magnetic Properties by Digital Light Processing. <i>Advanced Materials Technologies</i> , 2019, 4, 1900505. | 3.0 | 87 |
| 23 | 3D-Printing of High- Thiol-Ene Resins with Spiro-Orthoesters as Anti-Shrinkage Additive. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900515. | 1.7 | 13 |
| 24 | Thiol-ene chemistry for 3D printing: exploiting an off-stoichiometric route for selective functionalization of 3D objects. <i>Polymer Chemistry</i> , 2019, 10, 5950-5958. | 1.9 | 37 |
| 25 | Dual-Cure Coatings: Spiroorthoesters as Volume-Controlling Additives in Thiol-Ene Reactions. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800627. | 1.7 | 6 |
| 26 | Nanoparticle Reshaping and Ion Migration in Nanocomposite Ultrafast Ionic Actuators: The Converse Piezo-Electro-Kinetic Effect. <i>Advanced Functional Materials</i> , 2019, 29, 1902941. | 7.8 | 2 |
| 27 | Directed motion of water droplets on multi-gradient photopolymer surfaces. <i>Polymer Chemistry</i> , 2019, 10, 1882-1893. | 1.9 | 24 |
| 28 | Multifunctional flexible membranes based on reduced graphene oxide/tin dioxide nanocomposite and cellulose fibers. <i>Electrochimica Acta</i> , 2019, 306, 420-426. | 2.6 | 19 |
| 29 | Study on the Printability through Digital Light Processing Technique of Ionic Liquids for CO ₂ Capture. <i>Polymers</i> , 2019, 11, 1932. | 2.0 | 7 |
| 30 | Graphene Oxide Finely Tunes the Bioactivity and Drug Delivery of Mesoporous ZnO Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 449-456. | 4.0 | 31 |
| 31 | 3D Printing/Interfacial Polymerization Coupling for the Fabrication of Conductive Hydrogel. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700356. | 1.7 | 47 |
| 32 | Performance comparison of hybrid resistive switching devices based on solution-processable nanocomposites. <i>Applied Surface Science</i> , 2018, 443, 475-483. | 3.1 | 13 |
| 33 | All-in-One Cellulose Nanocrystals for 3D Printing of Nanocomposite Hydrogels. <i>Angewandte Chemie</i> , 2018, 130, 2377-2380. | 1.6 | 7 |
| 34 | All-in-One Cellulose Nanocrystals for 3D Printing of Nanocomposite Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2353-2356. | 7.2 | 89 |
| 35 | Stimuli-responsive thiol-epoxy networks with photo-switchable bulk and surface properties. <i>RSC Advances</i> , 2018, 8, 41904-41914. | 1.7 | 19 |
| 36 | Three-Dimensional Printed Photoluminescent Polymeric Waveguides. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39319-39326. | 4.0 | 32 |

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|----|---|------|-----------|
| 37 | Development of New Hybrid Acrylic/Epoxy DLP-3D Printable Materials. <i>Inventions</i> , 2018, 3, 29. | 1.3 | 36 |
| 38 | New Horizons in Cationic Photopolymerization. <i>Polymers</i> , 2018, 10, 136. | 2.0 | 77 |
| 39 | In situ generation of silver nanoparticles in PVDF for the development of resistive switching devices. <i>Applied Surface Science</i> , 2018, 455, 418-424. | 3.1 | 17 |
| 40 | Resistive switching and impedance properties of soft nanocomposites based on Ag nanoparticles. <i>Applied Surface Science</i> , 2017, 424, 352-358. | 3.1 | 9 |
| 41 | Highly performing ionic liquid enriched hybrid RSDs. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6144-6155. | 2.7 | 14 |
| 42 | Polymeric 3D Printed Functional Microcantilevers for Biosensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19193-19201. | 4.0 | 55 |
| 43 | Study of graphene oxide-based 3D printable composites: Effect of the in situ reduction. <i>Composites Part B: Engineering</i> , 2017, 124, 9-15. | 5.9 | 98 |
| 44 | Resistive Switching in Polymer Nanocomposites by Matrix-Controlled in Situ Nanoparticles Generation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14285-14295. | 1.5 | 21 |
| 45 | A Robust Capacitive Digital Read-Out Circuit for a Scalable Tactile Skin. <i>IEEE Sensors Journal</i> , 2017, 17, 2682-2695. | 2.4 | 17 |
| 46 | 3D printable light-responsive polymers. <i>Materials Horizons</i> , 2017, 4, 396-401. | 6.4 | 88 |
| 47 | Development of 3D printable formulations containing CNT with enhanced electrical properties. <i>Polymer</i> , 2017, 109, 246-253. | 1.8 | 157 |
| 48 | Light triggered formation of photo-responsive epoxy based networks. <i>Polymer</i> , 2017, 109, 349-357. | 1.8 | 22 |
| 49 | Spin-coated silver nanocomposite resistive switching devices. <i>Microelectronic Engineering</i> , 2017, 168, 27-31. | 1.1 | 35 |
| 50 | The effect of graphene oxide on <sc>UV</sc> curing kinetics and properties of <sc>SU8</sc> nanocomposites. <i>Polymer International</i> , 2017, 66, 405-417. | 1.6 | 18 |
| 51 | In Situ Thermal Generation of Silver Nanoparticles in 3D Printed Polymeric Structures. <i>Materials</i> , 2016, 9, 589. | 1.3 | 69 |
| 52 | Silver nanoparticle ink technology: state of the art. <i>Nanotechnology, Science and Applications</i> , 2016, 9, 1. | 4.6 | 118 |
| 53 | 3D Printing of Conductive Complex Structures with In Situ Generation of Silver Nanoparticles. <i>Advanced Materials</i> , 2016, 28, 3712-3717. | 11.1 | 200 |
| 54 | 3D Printing: 3D Printing of Conductive Complex Structures with In Situ Generation of Silver Nanoparticles (Adv. Mater. 19/2016). <i>Advanced Materials</i> , 2016, 28, 3711-3711. | 11.1 | 7 |

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| 55 | Ionic liquid-enhanced soft resistive switching devices. RSC Advances, 2016, 6, 94128-94138. | 1.7 | 31 |
| 56 | Resistive hysteresis in flexible nanocomposites and colloidal suspensions: interfacial coupling mechanism unveiled. RSC Advances, 2016, 6, 56661-56667. | 1.7 | 48 |
| 57 | 3D Printed PEG-Based Hybrid Nanocomposites Obtained by Sol-gel Technique. ACS Applied Materials & Interfaces, 2016, 8, 5627-5633. | 4.0 | 81 |
| 58 | Dual step irradiation process for in situ generation and patterning of silver nanoparticles in a photocured film. RSC Advances, 2016, 6, 14832-14843. | 1.7 | 12 |
| 59 | Self-standing polymer-functionalized reduced graphene oxide papers obtained via a UV-process. RSC Advances, 2015, 5, 95805-95812. | 1.7 | 10 |
| 60 | Study of benzophenone grafting on reduced graphene oxide by unconventional techniques. New Journal of Chemistry, 2015, 39, 2966-2972. | 1.4 | 7 |
| 61 | Study of Inkjet Printable Vinyl Ether-Graphene UV-Curable Formulations. Macromolecular Materials and Engineering, 2015, 300, 340-345. | 1.7 | 16 |
| 62 | In Situ Synthesis of Polymer Embedded Silver Nanoparticles via Photopolymerization. Macromolecular Materials and Engineering, 2015, 300, 226-233. | 1.7 | 36 |
| 63 | Ultraviolet mem-sensors: flexible anisotropic composites featuring giant photocurrent enhancement. Nano Research, 2015, 8, 1956-1963. | 5.8 | 26 |
| 64 | Degradable photopolymerized thiol-based solid polymer electrolytes towards greener Li-ion batteries. Polymer, 2015, 75, 64-72. | 1.8 | 13 |
| 65 | Gold-functionalized graphene as conductive filler in UV-curable epoxy resin. Journal of Materials Science, 2015, 50, 605-610. | 1.7 | 21 |
| 66 | Interpenetrated hybrid thiol-ene/epoxy UV-cured network with enhanced impact resistance. Progress in Organic Coatings, 2015, 78, 244-248. | 1.9 | 22 |
| 67 | Multifunctional NIR-reflective and self-cleaning UV-cured coating for solar cell applications based on cycloaliphatic epoxy resin. Progress in Organic Coatings, 2014, 77, 458-462. | 1.9 | 30 |
| 68 | Comprehensive study of the templating effect on the ZnO nanostructure formation within porous hard membranes. New Journal of Chemistry, 2014, 38, 2058. | 1.4 | 28 |
| 69 | Epoxy resins reinforced with TiO ₂ generated by nonhydrolytic sol-gel process. Journal of Applied Polymer Science, 2014, 131, . | 1.3 | 15 |
| 70 | A powerful tool for graphene functionalization: Benzophenone mediated UV-grafting. Carbon, 2014, 77, 226-235. | 5.4 | 41 |
| 71 | Photoluminescent Epoxy/Gd ₂ O ₃ :Eu ³⁺ UV-Cured Nanocomposites. Macromolecular Materials and Engineering, 2013, 298, 181-189. | 1.7 | 8 |
| 72 | Luminescence variation by rigidity control of acrylic composite materials. Journal of Materials Chemistry C, 2013, 1, 5725. | 2.7 | 22 |

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| 73 | Radical diffusion engineering: tailored nanocomposite materials for piezoresistive inkjet printed strain measurement. RSC Advances, 2013, 3, 3446. | 1.7 | 43 |
| 74 | Multifunctional Luminescent Organic/Inorganic Hybrid Films. Macromolecular Materials and Engineering, 2012, 297, 680-688. | 1.7 | 10 |
| 75 | Luminescence thermochromism of acrylic materials incorporating copper iodide clusters. Journal of Materials Chemistry, 2011, 21, 19106. | 6.7 | 30 |
| 76 | Polysulfone/Metal Nanocomposites by Simultaneous Photoinduced Crosslinking and Redox Reaction. Macromolecular Materials and Engineering, 2011, 296, 820-825. | 1.7 | 27 |
| 77 | Nanocomposite epoxy coatings containing rare earth ion-doped LaF3 nanoparticles: Film preparation and characterization. Progress in Organic Coatings, 2009, 65, 431-434. | 1.9 | 17 |
| 78 | Siloxane additive as modifier in cationic UV curable coatings. Progress in Organic Coatings, 2006, 57, 44-49. | 1.9 | 33 |
| 79 | Single-Step 3D Printing of Silver-Patterned Polymeric Devices for Bacteria Proliferation Control. Macromolecular Materials and Engineering, 0, , 2100596. | 1.7 | 5 |