

Davide Calestani

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

2,156
citations

26
h-index

43
g-index

103
ext. papers

2,388
ext. citations

3.7
avg. IF

4.5
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 95 | Magnetocaloric properties at the austenitic Curie transition in Cu and Fe substituted Ni-Mn-In Heusler compounds. <i>Journal of Alloys and Compounds</i> , 2022 , 899, 163249 | 5.7 | 1 |
| 94 | Mechanosynthesis of multiferroic hybrid organic-inorganic [NH ₄][M(HCOO) ₃] M ²⁺ [Co ²⁺ , Mn ²⁺ , Zn ²⁺ , Ni ²⁺ , Cu ²⁺ formate-based frameworks. <i>Journal of Alloys and Compounds</i> , 2022 , 899, 163288 | 5.7 | 0 |
| 93 | Evaluating the plasmon-exciton interaction in ZnO tetrapods coupled with gold nanostructures by nanoscale cathodoluminescence. <i>Nano Express</i> , 2021 , 2, 014004 | 2 | |
| 92 | Fabrication of ZnO-nanowire-coated thin-foil targets for ultra-high intensity laser interaction experiments. <i>Matter and Radiation at Extremes</i> , 2021 , 6, 046903 | 4.7 | 3 |
| 91 | Growth and structural characterization of Sb ₂ Se ₃ solar cells with vertical Sb ₄ Se ₆ ribbon alignment by RF magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 385502 | 3 | 1 |
| 90 | Single-Source Thermal Ablation of halide perovskites, limitations and opportunities: The lesson of MAPbBr ₃ . <i>Journal of Alloys and Compounds</i> , 2021 , 875, 159954 | 5.7 | 1 |
| 89 | Numerical and experimental investigation of CdZnTe growth by the boron oxide encapsulated vertical Bridgman method. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 176, 121490 | 4.9 | 0 |
| 88 | All-Inorganic CsPbBr Perovskite Films Prepared by Single Source Thermal Ablation. <i>Frontiers in Chemistry</i> , 2020 , 8, 313 | 5 | 18 |
| 87 | A first principle method to simulate the spectral response of CdZnTe-based X- and gamma-ray detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020 , 960, 163663 | 1.2 | 8 |
| 86 | An affordable method to produce CuInS ₂ mechano-targets for film deposition. <i>Semiconductor Science and Technology</i> , 2020 , 35, 045026 | 1.8 | 7 |
| 85 | Martensite-enabled magnetic flexibility: The effects of post-growth treatments in magnetic-shape-memory Heusler thin films. <i>Acta Materialia</i> , 2020 , 187, 135-145 | 8.4 | 12 |
| 84 | Role of the substrates in the ribbon orientation of Sb ₂ Se ₃ films grown by Low-Temperature Pulsed Electron Deposition. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 218, 110724 | 6.4 | 18 |
| 83 | Transforming diatomaceous earth into sensing devices by surface modification with gold nanoparticles. <i>Micro and Nano Engineering</i> , 2019 , 2, 29-34 | 3.4 | 4 |
| 82 | Characterization of the physical and chemical properties of engineered nanomaterials 2019 , 31-57 | | |
| 81 | Haptic Teleoperation of UAV Equipped with Gamma-Ray Spectrometer for Detection and Identification of Radio-Active Materials in Industrial Plants 2019 , 197-214 | | 4 |
| 80 | Sub-Micropillar Spacing Modulates the Spatial Arrangement of Mouse MC3T3-E1 Osteoblastic Cells. <i>Nanomaterials</i> , 2019 , 9, | 5.4 | 4 |
| 79 | 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 | 5 | 15 |

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| 78 | Crystal growth of nanostructured zinc oxide nanorods from the seed layer. <i>Materials Science-Poland</i> , 2018 , 36, 477-482 | 0.6 | |
| 77 | Overcoming the planar contact geometry limitation for the measurement of transport properties and electric field distribution in X- and gamma ray detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018 , 808, 411-415 | 1.2 | 1 |
| 76 | Functionalization of carbon fiber tows with ZnO nanorods for stress sensor integration in smart composite materials. <i>Nanotechnology</i> , 2018 , 29, 335501 | 3.4 | 10 |
| 75 | Growth and characterization of β -Ga ₂ O ₃ nanowires obtained on not-catalyzed and Au/Pt catalyzed substrates. <i>Journal of Crystal Growth</i> , 2017 , 457, 255-261 | 1.6 | 10 |
| 74 | Smart composites materials: A new idea to add gas-sensing properties to commercial carbon-fibers by functionalization with ZnO nanowires. <i>Sensors and Actuators B: Chemical</i> , 2017 , 245, 166-170 | 8.5 | 15 |
| 73 | Strong mechanical adhesion of gold electroless contacts on CdZnTe deposited by alcoholic solutions. <i>Journal of Instrumentation</i> , 2017 , 12, P02018-P02018 | 1 | 14 |
| 72 | Single crystal mesoporous ZnO platelets as efficient photoanodes for sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 168, 227-233 | 6.4 | 14 |
| 71 | Charge-separation enhancement in inverted polymer solar cells by molecular-level triple heterojunction: NiO-np:P3HT:PCBM. <i>Nanotechnology</i> , 2017 , 28, 035403 | 3.4 | 2 |
| 70 | Enzymatic sensing with laccase-functionalized textile organic biosensors. <i>Organic Electronics</i> , 2017 , 40, 51-57 | 3.5 | 30 |
| 69 | Analytical approaches for the characterization and quantification of nanoparticles in food and beverages. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 63-80 | 4.4 | 47 |
| 68 | Nanoscale mapping of plasmon and exciton in ZnO tetrapods coupled with Au nanoparticles. <i>Scientific Reports</i> , 2016 , 6, 19168 | 4.9 | 24 |
| 67 | Turning carbon fiber into a stress-sensitive composite material. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10486-10492 | 13 | 8 |
| 66 | NO ₂ Gas Sensing Mechanism of ZnO Thin-Film Transducers: Physical Experiment and Theoretical Correlation Study. <i>ACS Sensors</i> , 2016 , 1, 406-412 | 9.2 | 47 |
| 65 | Modeling, Fabrication and Testing of a Customizable Micromachined Hotplate for Sensor Applications. <i>Sensors</i> , 2016 , 17, | 3.8 | 15 |
| 64 | Progress on Low-Temperature Pulsed Electron Deposition of CuInGaSe ₂ Solar Cells. <i>Energies</i> , 2016 , 9, 207 | 3.1 | 18 |
| 63 | A new method to integrate ZnO nano-tetrapods on MEMS micro-hotplates for large scale gas sensor production. <i>Nanotechnology</i> , 2016 , 27, 385503 | 3.4 | 16 |
| 62 | Low concentration CO gas sensing properties of hybrid ZnO architecture. <i>Microelectronic Engineering</i> , 2016 , 160, 12-17 | 2.5 | 13 |
| 61 | Electrical properties of Au/CdZnTe/Au detectors grown by the boron oxide encapsulated Vertical Bridgman technique. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 830, 243-250 | 1.2 | 8 |

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| 60 | Effect of grain-size on the ethanol vapor sensing properties of room-temperature sputtered ZnO thin films. <i>Mikrochimica Acta</i> , 2015 , 182, 1991-1999 | 5.8 | 28 |
| 59 | Branched gold nanoparticles on ZnO 3D architecture as biomedical SERS sensors. <i>RSC Advances</i> , 2015 , 5, 93644-93651 | 3.7 | 22 |
| 58 | Influence of the Synthetic Procedures on the Structural and Optical Properties of Mixed-Halide (Br, I) Perovskite Films. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21304-21313 | 3.8 | 65 |
| 57 | Mechanically stable metal layers for ohmic and blocking contacts on CdZnTe detectors by electroless deposition 2015 , | | 2 |
| 56 | Unmanned aerial vehicle equipped with spectroscopic CdZnTe detector for detection and identification of radiological and nuclear material 2015 , | | 9 |
| 55 | Two-step thermal process in tellurium vapor for tellurium inclusion annealing in high resistivity CdZnTe crystals. <i>Journal of Crystal Growth</i> , 2015 , 415, 15-19 | 1.6 | 8 |
| 54 | Zn vacancy induced green luminescence on non-polar surfaces in ZnO nanostructures. <i>Scientific Reports</i> , 2014 , 4, 5158 | 4.9 | 118 |
| 53 | Facile synthesis of hierarchical CuO nanostructures with enhanced photocatalytic activity. <i>Crystal Research and Technology</i> , 2014 , 49, 594-598 | 1.3 | 9 |
| 52 | InZnO nanorods obtained via zinc vapour phase deposition on liquid indium seeded substrates. <i>CrystEngComm</i> , 2014 , 16, 1696 | 3.3 | 2 |
| 51 | Selective response inversion to NO ₂ and acetic acid in ZnO and CdS nanocomposite gas sensor. <i>Nanotechnology</i> , 2014 , 25, 365502 | 3.4 | 16 |
| 50 | Live-monitoring of Te inclusions laser-induced thermo-diffusion and annealing in CdZnTe crystals. <i>Applied Physics Letters</i> , 2014 , 104, 252105 | 3.4 | 11 |
| 49 | High energy resolution pixel detectors based on boron oxide vertical Bridgman grown CdZnTe crystals 2014 , | | 3 |
| 48 | Microtexturing of the conductive PEDOT:PSS polymer for superhydrophobic organic electrochemical transistors. <i>BioMed Research International</i> , 2014 , 2014, 302694 | 3 | 15 |
| 47 | Electroless gold patterning of CdZnTe crystals for radiation detection by scanning pipette technique. <i>Crystal Research and Technology</i> , 2014 , 49, 535-539 | 1.3 | 2 |
| 46 | Human stress monitoring through an organic cotton-fiber biosensor. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5620-5626 | 7.3 | 85 |
| 45 | Controllable vapor phase growth of vertically aligned ZnO nanorods on TCO/Glass substrates. <i>Crystal Research and Technology</i> , 2014 , 49, 558-563 | 1.3 | 5 |
| 44 | Mesoporous single-crystal ZnO nanobelts: supported preparation and patterning. <i>Nanoscale</i> , 2013 , 5, 1060-6 | 7.7 | 28 |
| 43 | Study of the anomalous zinc distribution in vertical Bridgman grown CdZnTe crystals. <i>CrystEngComm</i> , 2013 , 15, 2227-2231 | 3.3 | 7 |

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|----|--|-----|----|
| 42 | Oriented orthorhombic Lead Oxide film grown by vapour phase deposition for X-ray detector applications. <i>Crystal Research and Technology</i> , 2013 , 48, 245-250 | 1.3 | 6 |
| 41 | Composite multifunctional nanostructures based on ZnO tetrapods and superparamagnetic Fe ₃ O ₄ nanoparticles. <i>Nanotechnology</i> , 2013 , 24, 135601 | 3.4 | 17 |
| 40 | Low temperature sensing properties of a nano hybrid material based on ZnO nanotetrapods and titanil phthalocyanine. <i>Sensors</i> , 2013 , 13, 3445-53 | 3.8 | 17 |
| 39 | Tuning morphology and magnetism in epitaxial L10-FePt films. <i>EPJ Web of Conferences</i> , 2013 , 40, 08001 | 0.3 | 2 |
| 38 | Electroless gold contact deposition on CdZnTe detectors by scanning pipette technique. <i>Journal of Instrumentation</i> , 2012 , 7, P08022-P08022 | 1 | 7 |
| 37 | Extended functionality of ZnO nanotetrapods by solution-based coupling with CdS nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5694 | | 38 |
| 36 | . <i>IEEE Transactions on Nuclear Science</i> , 2012 , 59, 1526-1530 | 1.7 | 6 |
| 35 | Control of the interface shape in vertical Bridgman grown CdZnTe crystals for X-ray detector applications. <i>CrystEngComm</i> , 2012 , 14, 5992 | 3.3 | 7 |
| 34 | 15% efficient Cu(In,Ga)Se ₂ solar cells obtained by low-temperature pulsed electron deposition. <i>Applied Physics Letters</i> , 2012 , 101, 132107 | 3.4 | 42 |
| 33 | A single cotton fiber organic electrochemical transistor for liquid electrolyte saline sensing. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23830 | | 70 |
| 32 | Directionally Selective Sensitization of ZnO Nanorods by TiOPc: A Novel Approach to Functionalized Nanosystems. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8223-8229 | 3.8 | 6 |
| 31 | ZnS and ZnO Nanosheets from ZnS(en) _{0.5} Precursor: Nanoscale Structure and Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6960-6965 | 3.8 | 59 |
| 30 | Solution-free and catalyst-free synthesis of ZnO-based nanostructured TCOs by PED and vapor phase growth techniques. <i>Nanotechnology</i> , 2012 , 23, 194008 | 3.4 | 17 |
| 29 | Low temperature thermal evaporation growth of aligned ZnO nanorods on ZnO film: a growth mechanism promoted by Zn nanoclusters on polar surfaces. <i>CrystEngComm</i> , 2011 , 13, 1707-1712 | 3.3 | 42 |
| 28 | Aldehyde detection by ZnO tetrapod-based gas sensors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15532 | | 73 |
| 27 | Effect of humidity on the a.c. impedance of CH ₃ NH ₃ SnCl ₃ hybrid films. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 1181-1187 | 2.6 | 13 |
| 26 | Development of a combined SEM and ICP-MS approach for the qualitative and quantitative analyses of metal nano and microparticles in food products [corrected]. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 1401-9 | 4.4 | 24 |
| 25 | Pd/PdO functionalization of SnO ₂ nanowires and ZnO nanotetrapods. <i>Crystal Research and Technology</i> , 2011 , 46, 847-851 | 1.3 | 7 |

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|----|--|------|-----|
| 24 | Solvothermal synthesis of ZnS[C ₂ H ₄ (NH ₂) ₂] _{0.5} nanosheets. <i>Crystal Research and Technology</i> , 2011 , 46, 818-822 | 1.3 | 13 |
| 23 | Growth and Characterization of CZT Crystals by the Vertical Bridgman Method for X-Ray Detector Applications. <i>IEEE Transactions on Nuclear Science</i> , 2011 , 58, 2352-2356 | 1.7 | 29 |
| 22 | Characterization of CZT crystals grown by the boron oxide encapsulated vertical Bridgman technique for the preparation of X-ray imaging detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 633, S92-S94 | 1.2 | 4 |
| 21 | Vapour-phase growth, purification and large-area deposition of ZnO tetrapod nanostructures. <i>Crystal Research and Technology</i> , 2010 , 45, 667-671 | 1.3 | 13 |
| 20 | Growth of ZnO tetrapods for nanostructure-based gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2010 , 144, 472-478 | 8.5 | 163 |
| 19 | Boron Oxide Encapsulated Vertical Bridgman Grown CdZnTe Crystals as X-Ray Detector Material. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 1743-1746 | 1.7 | 30 |
| 18 | Unpredicted nucleation of extended zinc blende phases in wurtzite ZnO nanotetrapod arms. <i>ACS Nano</i> , 2009 , 3, 3158-64 | 16.7 | 46 |
| 17 | The challenge for large-scale vapor-phase growths of not-catalyzed ZnO nanostructures: purity vs. yield. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1174, 43 | | |
| 16 | Deposition of CdTe films under microgravity: Foton M3 mission. <i>Crystal Research and Technology</i> , 2009 , 44, 1059-1066 | 1.3 | 1 |
| 15 | ZnO gas sensors: A comparison between nanoparticles and nanotetrapods-based thick films. <i>Sensors and Actuators B: Chemical</i> , 2009 , 137, 164-169 | 8.5 | 129 |
| 14 | Large-area self-catalysed and selective growth of ZnO nanowires. <i>Nanotechnology</i> , 2008 , 19, 325603 | 3.4 | 33 |
| 13 | Pulsed electron deposition (PED) of single buffer layer for low-cost YBCO coated conductors. <i>Journal of Physics: Conference Series</i> , 2008 , 97, 012197 | 0.3 | |
| 12 | Full encapsulated CdZnTe crystals by the vertical Bridgman method. <i>Journal of Crystal Growth</i> , 2008 , 310, 2072-2075 | 1.6 | 28 |
| 11 | TEM Characterization of ZnO Nanorods. <i>Springer Proceedings in Physics</i> , 2008 , 241-246 | 0.2 | |
| 10 | Low-temperature In ₂ O ₃ nanowire luminescence properties as a function of oxidizing thermal treatments. <i>Nanotechnology</i> , 2007 , 18, 355707 | 3.4 | 68 |
| 9 | In-catalyzed growth of high-purity indium oxide nanowires. <i>Chemical Physics Letters</i> , 2007 , 445, 251-254 | 2.5 | 25 |
| 8 | Visible-Range Luminescence Study in Indium Oxide Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1010, 1 | | |
| 7 | On the Role of Oxygen Vacancies in the Determination of the Gas-Sensing Properties of Tin-Oxide Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 915, 1 | | 2 |

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|---|---|-----|-----|
| 6 | Tin oxide nanobelts electrical and sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2005 , 111-112, 2-6 | 8.5 | 100 |
| 5 | Nucleation and growth of SnO ₂ nanowires. <i>Journal of Crystal Growth</i> , 2005 , 275, e2083-e2087 | 1.6 | 39 |
| 4 | Growth of tin oxide nanocrystals. <i>Crystal Research and Technology</i> , 2005 , 40, 932-936 | 1.3 | 21 |
| 3 | Morphological, structural and optical study of quasi-1D SnO ₂ nanowires and nanobelts. <i>Crystal Research and Technology</i> , 2005 , 40, 937-941 | 1.3 | 62 |
| 2 | Preparation and characterization of powders and crystals of V _n -xTi _x O _{2n-1} Magneli oxides. <i>Crystal Research and Technology</i> , 2005 , 40, 1067-1071 | 1.3 | 4 |
| 1 | Structural and optical study of SnO ₂ nanobelts and nanowires. <i>Materials Science and Engineering C</i> , 2005 , 25, 625-630 | 8.3 | 70 |