# Ã‚ngelo L Gobbi

List of Publications by Year
in descending order



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|---|---|---|---|
| 104 papers | 1,950 citations | 279798 23 h-index | 289244 40 g-index |
| 105 all docs | 105 docs citations | 105 times ranked | 2391 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Electrochemical Detection in a Paper-Based Separation Device. Analytical Chemistry, 2010, 82, 1162-1165. | 6.5 | 197 |
| 2 | Separation and electrochemical detection of paracetamol and 4-aminophenol in a paper-based microfluidic device. Analytica Chimica Acta, 2012, 725, 44-50. | 5.4 | 191 |
| 3 | Simplified fabrication of integrated microfluidic devices using fused deposition modeling 3D printing. Sensors and Actuators B: Chemical, 2017, 242, 35-40. | 7.8 | 112 |
| 4 | Optical paper-based sensor for ascorbic acid quantification using silver nanoparticles. Talanta, 2015, 141, 188-194. | 5.5 | 66 |
| 5 | Microfluidic electronic tongue. Sensors and Actuators B: Chemical, 2015, 207, 1129-1135. | 7.8 | 62 |
| 6 | A Nanostructured Bifunctional platform for Sensing of Glucose Biomarker in Artificial Saliva: Synergy in hybrid Pt/Au surfaces. Biosensors and Bioelectronics, 2016, 86, 369-376. | 10.1 | 62 |
| 7 | Simple, Expendable, 3D-Printed Microfluidic Systems for Sample Preparation of Petroleum. Analytical Chemistry, 2017, 89, 3460-3467. | 6.5 | 52 |
| 8 | Information Visualization and Feature Selection Methods Applied to Detect Gliadin in Gluten-Containing Foodstuff with a Microfluidic Electronic Tongue. ACS Applied Materials & Interfaces, 2017, 9, 19646-19652. | 8.0 | 47 |
| 9 | Self-regenerating and hybrid irreversible/reversible PDMS microfluidic devices. Scientific Reports, 2016, 6, 26032. | 3.3 | 44 |
| 10 | Cross-Shaped Terahertz Metal Mesh Filters: Historical Review and Results. Advances in Optical Technologies, 2012, 2012, 1-12. | 0.8 | 43 |
| 11 | Point-of-use electroanalytical platform based on homemade potentiostat and smartphone for multivariate data processing. Electrochimica Acta, 2016, 219, 170-177. | 5.2 | 41 |
| 12 | Fabrication of a multichannel PDMS/glass analytical microsystem with integrated electrodes for amperometric detection. Lab on A Chip, 2009, 9, 115-121. | 6.0 | 38 |
| 13 | Reflecting polarizing beam splitter. Optics Letters, 1997, 22, 203. | 3.3 | 35 |
| 14 | A rapid and reliable bonding process for microchip electrophoresis fabricated in glass substrates. Electrophoresis, 2010, 31, 2526-2533. | 2.4 | 35 |
| 15 | Functionalization-Free Microfluidic Electronic Tongue Based on a Single Response. ACS Sensors, 2017, 2, 1027-1034. | 7.8 | 34 |
| 16 | Growth and surface characterization of TiNbZr thin films deposited by magnetron sputtering for biomedical applications. Materials Science and Engineering C, 2014, 43, 45-49. | 7.3 | 32 |
| 17 | Fabrication of glass microchannels by xurography for electrophoresis applications. Analyst, The, 2013, 138, 1660. | 3.5 | 31 |
| 18 | Sacrificial adhesive bonding: a powerful method for fabrication of glass microchips. Scientific Reports, 2015, 5, 13276. | 3.3 | 29 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | A simple architecture with self-assembled monolayers to build immunosensors for detecting the pancreatic cancer biomarker CA19-9. Analyst, The, 2018, 143, 3302-3308. | 3.5 | 28 |
| 20 | Monitoring the Surface Chemistry of Functionalized Nanomaterials with a Microfluidic Electronic Tongue. ACS Sensors, 2018, 3, 716-726. | 7.8 | 28 |
| 21 | Low-Cost and Rapid-Production Microfluidic Electrochemical Double-Layer Capacitors for Fast and Sensitive Breast Cancer Diagnosis. Analytical Chemistry, 2018, 90, 12377-12384. | 6.5 | 28 |
| 22 | Microfluidic Electronic Tongue Applied to Soil Analysis. Chemosensors, 2017, 5, 14. | 3.6 | 26 |
| 23 | Biocompatible Wearable Electrodes on Leaves toward the On-Site Monitoring of Water Loss from Plants. ACS Applied Materials & Interfaces, 2022, 14, 22989-23001. | 8.0 | 25 |
| 24 | Contactless conductivity biosensor in microchip containing folic acid as bioreceptor. Lab on A Chip, 2012, 12, 1963. | 6.0 | 24 |
| 25 | Turbulence in microfluidics: Cleanroom-free, fast, solventless, and bondless fabrication and application in high throughput liquid-liquid extraction. Analytica Chimica Acta, 2016, 940, 73-83. | 5.4 | 24 |
| 26 | Alcohol-Triggered Capillarity through Porous Pyrolyzed Paper-Based Electrodes Enables Ultrasensitive Electrochemical Detection of Phosphate. ACS Sensors, 2021, 6, 3125-3132. | 7.8 | 24 |
| 27 | Influence of the Molecular Orientation and Ionization of Self-Assembled Monolayers in Biosensors: Application to Genosensors of Prostate Cancer Antigen 3. Journal of Physical Chemistry C, 2021, 125, 498-506. | 3.1 | 21 |
| 28 | Doping of a dielectric layer as a new alternative for increasing sensitivity of the contactless conductivity detection in microchips. Lab on A Chip, 2011, 11, 4148. | 6.0 | 20 |
| 29 | Microemulsification: An Approach for Analytical Determinations. Analytical Chemistry, 2014, 86, 9082-9090. | 6.5 | 19 |
| 30 | Using machine learning and an electronic tongue for discriminating saliva samples from oral cavity cancer patients and healthy individuals. Talanta, 2022, 243, 123327. | 5.5 | 19 |
| 31 | Thermal desorption modulation for comprehensive two-dimensional gas chromatography using a simple and inexpensive segmented-loop fluidic interface. Talanta, 2017, 164, 470-476. | 5.5 | 18 |
| 32 | Renewable Solid Electrodes in Microfluidics: Recovering the Electrochemical Activity without Treating the Surface. Analytical Chemistry, 2016, 88, 11199-11206. | 6.5 | 17 |
| 33 | 3D micromixer for nanoliposome synthesis: a promising advance in high mass productivity. Lab on A Chip, 2021, 21, 2971-2985. | 6.0 | 17 |
| 34 | Characterization of microchip electrophoresis devices fabricated by directâ€printing process with colored toner. Electrophoresis, 2013, 34, 2169-2176. | 2.4 | 16 |
| 35 | Ordinary microfluidic electrodes combined with bulk nanoprobe produce multidimensional electric double-layer capacitances towards metal ion recognition. Sensors and Actuators B: Chemical, 2020, 305, 127482. | 7.8 | 16 |
| 36 | High adhesion strength and hybrid irreversible/reversible full-PDMS microfluidic chips. Analytica Chimica Acta, 2017, 951, 116-123. | 5.4 | 15 |

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|---|---|---|---|
| 37 | An ultrasoft X-ray multi-microbeam irradiation system for studies of DNA damage responses by fixed- and live-cell fluorescence microscopy. European Biophysics Journal, 2009, 38, 721-728. | 2.2 | 14 |
| 38 | Highly sensitive contactless conductivity microchips based on concentric electrodes for flow analysis. Chemical Communications, 2013, 49, 11382. | 4.1 | 14 |
| 39 | Charge carrier transport in defective reduced graphene oxide as quantum dots and nanoplatelets in multilayer films. Nanotechnology, 2017, 28, 495711. | 2.6 | 14 |
| 40 | Design, Fabrication and Characterization of SAW Pressure Sensors for Extreme Operation Conditions. Procedia Engineering, 2014, 87, 540-543. | 1.2 | 13 |
| 41 | Bifunctional Metal Meshes Acting as a Semipermeable Membrane and Electrode for Sensitive Electrochemical Determination of Volatile Compounds. ACS Applied Materials & Interfaces, 2021, 13, 35914-35923. | 8.0 | 13 |
| 42 | Electrical characteristics of silicon nitride on silicon and InGaAs as a function of the insulator stoichiometry. Applied Surface Science, 1991, 52, 45-52. | 6.1 | 12 |
| 43 | SiC Nitridation by NH3 Annealing and Its Effects in MOS Capacitors with Deposited SiO2 Films. Journal of Electronic Materials, 2015, 44, 2823-2828. | 2.2 | 12 |
| 44 | High fidelity prototyping of PDMS electrophoresis microchips using laser-printed masters. Microsystem Technologies, 2015, 21, 1345-1352. | 2.0 | 12 |
| 45 | Pooleâ€“Frenkel emission on functionalized, multilayered-packed reduced graphene oxide nanoplatelets. Nanotechnology, 2018, 29, 505703. | 2.6 | 12 |
| 46 | Portable platform for rapid and indirect photometric determination of water in ethanol fuel samples. Analytical Methods, 2014, 6, 9497-9502. | 2.7 | 11 |
| 47 | An integrated platform for gas-diffusion separation and electrochemical determination of ethanol on fermentation broths. Analytica Chimica Acta, 2015, 875, 33-40. | 5.4 | 11 |
| 48 | Simple Solid-Phase Extraction Method for High Efficiency and Low-Cost Crude Oil Demulsification. Energy & Fuels, 2016, 30, 4667-4675. | 5.1 | 11 |
| 49 | Pencil graphite core for pattern recognition applications. Chemical Communications, 2019, 55, 4623-4626. | 4.1 | 11 |
| 50 | Enhanced mobility and controlled transparency in multilayered reduced graphene oxide quantum dots: a charge transport study. Nanotechnology, 2019, 30, 275701. | 2.6 | 11 |
| 51 | Real-Time and In Situ Monitoring of the Synthesis of Silica Nanoparticles. ACS Sensors, 2022, 7, 1045-1057. | 7.8 | 11 |
| 52 | XPS and atomic force microscopy analyses of thin Au and Cu films on Pd. Surface and Interface Analysis, 2004, 36, 931-934. | 1.8 | 10 |
| 53 | Photocatalytic decomposition of methylene blue via Fenton mechanisms by silicon wafer doped with Au and Cu: a theoretical and experimental study. Journal of Materials Science, 2009, 44, 1029-1034. | 3.7 | 10 |
| 54 | Development of a disposable amperometric biosensor for salicylate based on a plastic electrochemical microcell. Biosensors and Bioelectronics, 2010, 25, 2200-2204. | 10.1 | 10 |

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|---|---|---|---|
| 55 | Surface characterization of Zr/Ti/Nb tri-layered films deposited by magnetron sputtering on Si(111) and stainless steel substrates. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, . | 2.1 | 10 |
| 56 | Simple, rapid and, costâ€effective fabrication of PDMS electrophoresis microchips using poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 2.4 | 10 |
| 57 | Experimental magnetic study and evidence of the exchange bias effect in unidimensional Co arrays produced by interference lithography. Solid State Communications, 2007, 142, 228-231. | 1.9 | 9 |
| 58 | Turbulence-Assisted High-Throughput Liquidâ€“Liquid Extraction in Microfluidics and Ni(OH)<sub>2</sub> Nanoparticles for Electrochemical Determination of Monoethylene Glycol Traces in Natural Gas Condensate. Energy & Fuels, 2018, 32, 6577-6583. | 5.1 | 9 |
| 59 | Identification of silicon nitride/InGaAs interface states. Applied Physics Letters, 1990, 56, 1661-1663. | 3.3 | 8 |
| 60 | Enhancement in interface robustness regarding thermal oxidation in nanostructured Al2O3 deposited on 4H-SiC. Applied Physics Letters, 2009, 95, 051916. | 3.3 | 8 |
| 61 | Glass/<scp>SU</scp>â€8 microchip for electrokinetic applications. Electrophoresis, 2013, 34, 2996-3002. | 2.4 | 8 |
| 62 | Gravity-assisted distillation on a chip: Fabrication, characterization, and applications. Analytica Chimica Acta, 2018, 1033, 128-136. | 5.4 | 8 |
| 63 | Distilling small volumes of crude oil. Fuel, 2021, 285, 119072. | 6.4 | 8 |
| 64 | Development of a sticker sealed microfluidic device for in situ analytical measurements using synchrotron radiation. Scientific Reports, 2021, 11, 23671. | 3.3 | 8 |
| 65 | Single-lateral-mode operation of 980-nm InGaAs-(Al)GaAs pump lasers with uncoated and coated facets. IEEE Photonics Technology Letters, 1996, 8, 605-607. | 2.5 | 7 |
| 66 | Biaxial stress ring applications to magneto-optical studies of semiconductor films. Review of Scientific Instruments, 2004, 75, 1947-1951. | 1.3 | 7 |
| 67 | Micro-reactors for characterization of nanostructure-based sensors. Review of Scientific Instruments, 2012, 83, 055104. | 1.3 | 7 |
| 68 | Auxiliary electrode oxidation for naked-eye electrochemical determinations in microfluidics: Towards on-the-spot applications. Electrochimica Acta, 2018, 292, 125-135. | 5.2 | 7 |
| 69 | The interaction between atoms of Au and Cu with clean Si(111) surface: A study combining synchrotron radiation grazing incidence X-ray fluorescence analysis and theoretical calculations. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 74, 292-296. | 3.9 | 6 |
| 70 | Effects of Mg addition on the phase formation, morphology, and mechanical and tribological properties of Ti-Nb-Mg immiscible alloy coatings produced by magnetron co-sputtering. Surface and Coatings Technology, 2020, 400, 126070. | 4.8 | 6 |
| 71 | Production of nanostructured magnetic materials using holographic lithography. Journal of Magnetism and Magnetic Materials, 2005, 294, e63-e67. | 2.3 | 5 |
| 72 | Structure, morphology and composition of thin Pd and Ni films deposited by dc magnetron sputtering on polycrystalline Ni and Pd foils. Journal Physics D: Applied Physics, 2005, 38, 4241-4244. | 2.8 | 5 |

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|---|---|---|---|
| 73 | Synthesis of carbon nanotubes directly over TEM grids aiming the study of nucleation and growth mechanisms. Applied Surface Science, 2008, 254, 3890-3895. | 6.1 | 5 |
| 74 | Gas Sensors Based on Locally Heated Multiwall Carbon Nanotubes Decorated with Metal Nanoparticles. Journal of Sensors, 2015, 2015, 1-8. | 1.1 | 5 |
| 75 | Microemulsification-based method: analysis of ethanol in fermentation broth of sugar cane. Analytical Methods, 2015, 7, 10061-10066. | 2.7 | 5 |
| 76 | Microemulsification-Based Method: Analysis of Monoethylene Glycol in Samples Related to Natural Gas Processing. Energy & Fuels, 2015, 29, 5649-5654. | 5.1 | 5 |
| 77 | Fabrication process of integrated inductors on flexible substrate for radio frequency and microwave applications. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, . | 1.2 | 5 |
| 78 | Photoluminescence investigation of III-V semiconductor surface damage induced by PECVD silicon nitride films. Applied Surface Science, 1991, 52, 295-302. | 6.1 | 4 |
| 79 | Silicon nitride/semiconductor interface state density as a function of the insulator stoichiometry. Applied Surface Science, 1992, 56-58, 881-887. | 6.1 | 4 |
| 80 | Structure, morphology, and composition of nanometric Pd films deposited by dc magnetron sputtering on Cu, Ag, and Au foils. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 432, 303-307. | 5.6 | 4 |
| 81 | Investigation of indirect structural and chemical parameters of GeSi nanoparticles in a silica matrix by combined synchrotron radiation techniques. Journal of Applied Crystallography, 2012, 45, 71-84. | 4.5 | 4 |
| 82 | Fabrication and Characterization of an Impedance Micro-Bridge for Lab-on-a-Chip. ECS Transactions, 2010, 31, 155-163. | 0.5 | 3 |
| 83 | MEMS-Based Ultrasound Transducer: CMUT Modeling and Fabrication Process. ECS Transactions, 2012, 49, 431-438. | 0.5 | 3 |
| 84 | Microemulsification-based method enables field-deployable quantification of oil in produced water. Fuel, 2022, 308, 121960. | 6.4 | 3 |
| 85 | Impact of growth rate on the quality of ZNS-MQW InGaAsP/InP laser structures grown by LP-MOVPE. Journal of Electronic Materials, 2000, 29, 62-68. | 2.2 | 2 |
| 86 | Assessing electronic states of InAsP/GaAs self-assembled quantum dots by photoluminescence and modulation spectroscopy. Journal of Luminescence, 2019, 206, 639-644. | 3.1 | 2 |
| 87 | Fast and efficient electrochemical thinning of ultra-large supported and free-standing MoS<sub>2</sub> layers on gold surfaces. Nanoscale, 2022, 14, 6811-6821. | 5.6 | 2 |
| 88 | On the influence of an external D.C. substrate bias on boron and phosphorus doping efficiencies in a-Si:H. Journal of Non-Crystalline Solids, 1985, 77-78, 527-530. | 3.1 | 1 |
| 89 | Spatially resolved photoluminescence investigation of optical damage induced by SiNx deposition in InGaAs. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1994, 23, 142-146. | 3.5 | 1 |
| 90 | Photoluminescence microscopy imaging of tensile strained In1â^'xGaxAsyP1â^'y/InP quantum wells grown by low-pressure metalorganic vapor phase epitaxy. Journal of Applied Physics, 1999, 86, 402-407. | 2.5 | 1 |

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|---|---|---|---|
| 91 | Surface size effect on the growth mode and morphology of InP epitaxial films. Physical Review B, 2000, 62, 15409-15412. | 3.2 | 1 |
| 92 | Effects of barrier alloy composition and number of stacks in the optical and structural characteristics of strain compensated InxGa1â^'xAsyP1â^'y/InzGa1â^'zAstP1â^'t/InP multiquantum wells. Journal of Applied Physics, 2002, 91, 5915-5922. | 2.5 | 1 |
| 93 | Evidence of Room Temperature Charge-Density Wave Behavior and Glass-like States in Pressed Pellets of Lightly Doped Poly (3-methyl thiophene). Molecular Crystals and Liquid Crystals, 2002, 374, 119-124. | 0.9 | 1 |
| 94 | Design, Development, Construction and Installation of a Ceramic Chamber for a Pulsed Kicker at LNLS Storage Ring. , 0, , . | | 1 |
| 95 | Barrier-induced carrier localization effects in ordered/disordered/ordered quaternary quantum wells grown onGaAssubstrates. Physical Review B, 2006, 73, . | 3.2 | 1 |
| 96 | Oxygen Transport and Incorporation in Pt/HfO2 Stacks Deposited on Germanium and Silicon. Journal of Physical Chemistry C, 2015, 119, 4079-4084. | 3.1 | 1 |
| 97 | Intervening factors in the performance of a naked-eye microemulsification-based method and improvements in analytical frequency. Analytical Methods, 2017, 9, 3347-3355. | 2.7 | 1 |
| 98 | Strained In1-xGaxAsyP1-y/InP quantum well heterostructures grown by low-pressure metalorganic vapor phase epitaxy. Materials Research, 1999, 2, 49-57. | 1.3 | 0 |
| 99 | Micro-Reactors for Testing Sensor Devices Based on Suspended Carbon Nanotubes. ECS Transactions, 2012, 49, 191-197. | 0.5 | 0 |
| 100 | Chemical state of phosphorous at the SiC/SiO2 interface. Thin Solid Films, 2019, 675, 172-176. | 1.8 | 0 |
| 101 | Functionalized microchannels as xylem-mimicking environment: Quantifying X.Âfastidiosa cell adhesion. Biophysical Journal, 2021, 120, 1443-1453. | 0.5 | 0 |
| 102 | Many particle theory for the luminescence, characterization and simulation of quantum well laser structures. Brazilian Journal of Physics, 2002, 32, 386-388. | 1.4 | 0 |
| 103 | Morphological, optical and structural properties of zero-net-strained InGaAsP/InP structures grown by LP-MOVPE for 1.55mum laser applications. Brazilian Journal of Physics, 1999, 29, 839-842. | 1.4 | 0 |
| 104 | Size effects on the growth mode and roughness of sub-micron structures grown by selective area epitaxy. Brazilian Journal of Physics, 1999, 29, 764-767. | 1.4 | 0 |