

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	Microemulsification-based method enables field-deployable quantification of oil in produced water. Fuel, 2022, 308, 121960.	6.4	3
2	Fast and efficient electrochemical thinning of ultra-large supported and free-standing MoS ₂ layers on gold surfaces. Nanoscale, 2022, 14, 6811-6821.	5.6	2
3	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
4	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
5	Real-Time and <i>In Situ</i> Monitoring of the Synthesis of Silica Nanoparticles. ACS Sensors, 2022, 7, 1045-1057.	7.8	11
6	Distilling small volumes of crude oil. Fuel, 2021, 285, 119072.	6.4	8
7	3D micromixer for nanoliposome synthesis: a promising advance in high mass productivity. Lab on A Chip, 2021, 21, 2971-2985.	6.0	17
8	Functionalized microchannels as xylem-mimicking environment: Quantifying X.Âfastidiosa cell adhesion. Biophysical Journal, 2021, 120, 1443-1453.	0.5	0
9	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
10	Alcohol-Triggered Capillarity through Porous Pyrolyzed Paper-Based Electrodes Enables Ultrasensitive Electrochemical Detection of Phosphate. ACS Sensors, 2021, 6, 3125-3132.	7.8	24
11	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
12	Development of a sticker sealed microfluidic device for in situ analytical measurements using synchrotron radiation. Scientific Reports, 2021, 11, 23671.	3.3	8
13	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
14	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
15	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
16	Pencil graphite core for pattern recognition applications. Chemical Communications, 2019, 55, 4623-4626.	4.1	11
17	Enhanced mobility and controlled transparency in multilayered reduced graphene oxide quantum dots: a charge transport study. Nanotechnology, 2019, 30, 275701.	2.6	11
18	Chemical state of phosphorous at the SiC/SiO ₂ interface. Thin Solid Films, 2019, 675, 172-176.	1.8	0

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19	Assessing electronic states of InAsP/GaAs self-assembled quantum dots by photoluminescence and modulation spectroscopy. <i>Journal of Luminescence</i> , 2019, 206, 639-644.	3.1	2
20	A simple architecture with self-assembled monolayers to build immunosensors for detecting the pancreatic cancer biomarker CA19-9. <i>Analyst</i> , 2018, 143, 3302-3308.	3.5	28
21	Monitoring the Surface Chemistry of Functionalized Nanomaterials with a Microfluidic Electronic Tongue. <i>ACS Sensors</i> , 2018, 3, 716-726.	7.8	28
22	Auxiliary electrode oxidation for naked-eye electrochemical determinations in microfluidics: Towards on-the-spot applications. <i>Electrochimica Acta</i> , 2018, 292, 125-135.	5.2	7
23	Poole-Frenkel emission on functionalized, multilayered-packed reduced graphene oxide nanoplatelets. <i>Nanotechnology</i> , 2018, 29, 505703.	2.6	12
24	Low-Cost and Rapid-Production Microfluidic Electrochemical Double-Layer Capacitors for Fast and Sensitive Breast Cancer Diagnosis. <i>Analytical Chemistry</i> , 2018, 90, 12377-12384.	6.5	28
25	Gravity-assisted distillation on a chip: Fabrication, characterization, and applications. <i>Analytica Chimica Acta</i> , 2018, 1033, 128-136.	5.4	8
26	Turbulence-Assisted High-Throughput Liquid-Liquid Extraction in Microfluidics and Ni(OH) ₂ Nanoparticles for Electrochemical Determination of Monoethylene Glycol Traces in Natural Gas Condensate. <i>Energy & Fuels</i> , 2018, 32, 6577-6583.	5.1	9
27	Simple, Expendable, 3D-Printed Microfluidic Systems for Sample Preparation of Petroleum. <i>Analytical Chemistry</i> , 2017, 89, 3460-3467.	6.5	52
28	Information Visualization and Feature Selection Methods Applied to Detect Gliadin in Gluten-Containing Foodstuff with a Microfluidic Electronic Tongue. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19646-19652.	8.0	47
29	Intervening factors in the performance of a naked-eye microemulsification-based method and improvements in analytical frequency. <i>Analytical Methods</i> , 2017, 9, 3347-3355.	2.7	1
30	Thermal desorption modulation for comprehensive two-dimensional gas chromatography using a simple and inexpensive segmented-loop fluidic interface. <i>Talanta</i> , 2017, 164, 470-476.	5.5	18
31	Charge carrier transport in defective reduced graphene oxide as quantum dots and nanoplatelets in multilayer films. <i>Nanotechnology</i> , 2017, 28, 495711.	2.6	14
32	Functionalization-Free Microfluidic Electronic Tongue Based on a Single Response. <i>ACS Sensors</i> , 2017, 2, 1027-1034.	7.8	34
33	Simplified fabrication of integrated microfluidic devices using fused deposition modeling 3D printing. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 35-40.	7.8	112
34	Simple, rapid and cost-effective fabrication of PDMS electrophoresis microchips using poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.4	10
35	High adhesion strength and hybrid irreversible/reversible full-PDMS microfluidic chips. <i>Analytica Chimica Acta</i> , 2017, 951, 116-123.	5.4	15
36	Microfluidic Electronic Tongue Applied to Soil Analysis. <i>Chemosensors</i> , 2017, 5, 14.	3.6	26

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37	A Nanostructured Bifunctional platform for Sensing of Glucose Biomarker in Artificial Saliva: Synergy in hybrid Pt/Au surfaces. <i>Biosensors and Bioelectronics</i> , 2016, 86, 369-376.	10.1	62
38	Simple Solid-Phase Extraction Method for High Efficiency and Low-Cost Crude Oil Demulsification. <i>Energy & Fuels</i> , 2016, 30, 4667-4675.	5.1	11
39	Point-of-use electroanalytical platform based on homemade potentiostat and smartphone for multivariate data processing. <i>Electrochimica Acta</i> , 2016, 219, 170-177.	5.2	41
40	Turbulence in microfluidics: Cleanroom-free, fast, solventless, and bondless fabrication and application in high throughput liquid-liquid extraction. <i>Analytica Chimica Acta</i> , 2016, 940, 73-83.	5.4	24
41	Self-regenerating and hybrid irreversible/reversible PDMS microfluidic devices. <i>Scientific Reports</i> , 2016, 6, 26032.	3.3	44
42	Renewable Solid Electrodes in Microfluidics: Recovering the Electrochemical Activity without Treating the Surface. <i>Analytical Chemistry</i> , 2016, 88, 11199-11206.	6.5	17
43	Sacrificial adhesive bonding: a powerful method for fabrication of glass microchips. <i>Scientific Reports</i> , 2015, 5, 13276.	3.3	29
44	Gas Sensors Based on Locally Heated Multiwall Carbon Nanotubes Decorated with Metal Nanoparticles. <i>Journal of Sensors</i> , 2015, 2015, 1-8.	1.1	5
45	Oxygen Transport and Incorporation in Pt/HfO ₂ Stacks Deposited on Germanium and Silicon. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4079-4084.	3.1	1
46	An integrated platform for gas-diffusion separation and electrochemical determination of ethanol on fermentation broths. <i>Analytica Chimica Acta</i> , 2015, 875, 33-40.	5.4	11
47	Optical paper-based sensor for ascorbic acid quantification using silver nanoparticles. <i>Talanta</i> , 2015, 141, 188-194.	5.5	66
48	SiC Nitridation by NH ₃ Annealing and Its Effects in MOS Capacitors with Deposited SiO ₂ Films. <i>Journal of Electronic Materials</i> , 2015, 44, 2823-2828.	2.2	12
49	Microemulsification-based method: analysis of ethanol in fermentation broth of sugar cane. <i>Analytical Methods</i> , 2015, 7, 10061-10066.	2.7	5
50	Microemulsification-Based Method: Analysis of Monoethylene Glycol in Samples Related to Natural Gas Processing. <i>Energy & Fuels</i> , 2015, 29, 5649-5654.	5.1	5
51	Microfluidic electronic tongue. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 1129-1135.	7.8	62
52	High fidelity prototyping of PDMS electrophoresis microchips using laser-printed masters. <i>Microsystem Technologies</i> , 2015, 21, 1345-1352.	2.0	12
53	Design, Fabrication and Characterization of SAW Pressure Sensors for Extreme Operation Conditions. <i>Procedia Engineering</i> , 2014, 87, 540-543.	1.2	13
54	Portable platform for rapid and indirect photometric determination of water in ethanol fuel samples. <i>Analytical Methods</i> , 2014, 6, 9497-9502.	2.7	11

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55	Growth and surface characterization of TiNbZr thin films deposited by magnetron sputtering for biomedical applications. <i>Materials Science and Engineering C</i> , 2014, 43, 45-49.	7.3	32
56	Microemulsification: An Approach for Analytical Determinations. <i>Analytical Chemistry</i> , 2014, 86, 9082-9090.	6.5	19
57	Highly sensitive contactless conductivity microchips based on concentric electrodes for flow analysis. <i>Chemical Communications</i> , 2013, 49, 11382.	4.1	14
58	Fabrication of glass microchannels by xurography for electrophoresis applications. <i>Analyst, The</i> , 2013, 138, 1660.	3.5	31
59	Characterization of microchip electrophoresis devices fabricated by direct printing process with colored toner. <i>Electrophoresis</i> , 2013, 34, 2169-2176.	2.4	16
60	Glass/SU-8 microchip for electrokinetic applications. <i>Electrophoresis</i> , 2013, 34, 2996-3002.	2.4	8
61	Surface characterization of Zr/Ti/Nb tri-layered films deposited by magnetron sputtering on Si(111) and stainless steel substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, .	2.1	10
62	Micro-reactors for characterization of nanostructure-based sensors. <i>Review of Scientific Instruments</i> , 2012, 83, 055104.	1.3	7
63	Micro-Reactors for Testing Sensor Devices Based on Suspended Carbon Nanotubes. <i>ECS Transactions</i> , 2012, 49, 191-197.	0.5	0
64	MEMS-Based Ultrasound Transducer: CMUT Modeling and Fabrication Process. <i>ECS Transactions</i> , 2012, 49, 431-438.	0.5	3
65	Separation and electrochemical detection of paracetamol and 4-aminophenol in a paper-based microfluidic device. <i>Analytica Chimica Acta</i> , 2012, 725, 44-50.	5.4	191
66	Contactless conductivity biosensor in microchip containing folic acid as bioreceptor. <i>Lab on A Chip</i> , 2012, 12, 1963.	6.0	24
67	Cross-Shaped Terahertz Metal Mesh Filters: Historical Review and Results. <i>Advances in Optical Technologies</i> , 2012, 2012, 1-12.	0.8	43
68	Investigation of indirect structural and chemical parameters of GeSi nanoparticles in a silica matrix by combined synchrotron radiation techniques. <i>Journal of Applied Crystallography</i> , 2012, 45, 71-84.	4.5	4
69	Doping of a dielectric layer as a new alternative for increasing sensitivity of the contactless conductivity detection in microchips. <i>Lab on A Chip</i> , 2011, 11, 4148.	6.0	20
70	A rapid and reliable bonding process for microchip electrophoresis fabricated in glass substrates. <i>Electrophoresis</i> , 2010, 31, 2526-2533.	2.4	35
71	Development of a disposable amperometric biosensor for salicylate based on a plastic electrochemical microcell. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2200-2204.	10.1	10
72	Fabrication and Characterization of an Impedance Micro-Bridge for Lab-on-a-Chip. <i>ECS Transactions</i> , 2010, 31, 155-163.	0.5	3

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73	Electrochemical Detection in a Paper-Based Separation Device. <i>Analytical Chemistry</i> , 2010, 82, 1162-1165.	6.5	197
74	Enhancement in interface robustness regarding thermal oxidation in nanostructured Al ₂ O ₃ deposited on 4H-SiC. <i>Applied Physics Letters</i> , 2009, 95, 051916.	3.3	8
75	Photocatalytic decomposition of methylene blue via Fenton mechanisms by silicon wafer doped with Au and Cu: a theoretical and experimental study. <i>Journal of Materials Science</i> , 2009, 44, 1029-1034.	3.7	10
76	An ultrasoft X-ray multi-microbeam irradiation system for studies of DNA damage responses by fixed- and live-cell fluorescence microscopy. <i>European Biophysics Journal</i> , 2009, 38, 721-728.	2.2	14
77	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. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 74, 292-296.	3.9	6
78	Fabrication of a multichannel PDMS/glass analytical microsystem with integrated electrodes for amperometric detection. <i>Lab on A Chip</i> , 2009, 9, 115-121.	6.0	38
79	Synthesis of carbon nanotubes directly over TEM grids aiming the study of nucleation and growth mechanisms. <i>Applied Surface Science</i> , 2008, 254, 3890-3895.	6.1	5
80	Experimental magnetic study and evidence of the exchange bias effect in unidimensional Co arrays produced by interference lithography. <i>Solid State Communications</i> , 2007, 142, 228-231.	1.9	9
81	Structure, morphology, and composition of nanometric Pd films deposited by dc magnetron sputtering on Cu, Ag, and Au foils. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 432, 303-307.	5.6	4
82	Barrier-induced carrier localization effects in ordered/disordered/ordered quaternary quantum wells grown on GaAs substrates. <i>Physical Review B</i> , 2006, 73, .	3.2	1
83	Production of nanostructured magnetic materials using holographic lithography. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 294, e63-e67.	2.3	5
84	Structure, morphology and composition of thin Pd and Ni films deposited by dc magnetron sputtering on polycrystalline Ni and Pd foils. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 4241-4244.	2.8	5
85	XPS and atomic force microscopy analyses of thin Au and Cu films on Pd. <i>Surface and Interface Analysis</i> , 2004, 36, 931-934.	1.8	10
86	Biaxial stress ring applications to magneto-optical studies of semiconductor films. <i>Review of Scientific Instruments</i> , 2004, 75, 1947-1951.	1.3	7
87	Effects of barrier alloy composition and number of stacks in the optical and structural characteristics of strain compensated In _x Ga _{1-x} As _y P _{1-y} /In _z Ga _{1-z} As _t P _{1-t} /InP multiquantum wells. <i>Journal of Applied Physics</i> , 2002, 91, 5915-5922.	2.5	1
88	Evidence of Room Temperature Charge-Density Wave Behavior and Glass-like States in Pressed Pellets of Lightly Doped Poly (3-methyl thiophene). <i>Molecular Crystals and Liquid Crystals</i> , 2002, 374, 119-124.	0.9	1
89	Many particle theory for the luminescence, characterization and simulation of quantum well laser structures. <i>Brazilian Journal of Physics</i> , 2002, 32, 386-388.	1.4	0
90	Impact of growth rate on the quality of ZNS-MQW InGaAsP/InP laser structures grown by LP-MOVPE. <i>Journal of Electronic Materials</i> , 2000, 29, 62-68.	2.2	2

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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	Strained In _{1-x} Ga _x As _y P _{1-y} /InP quantum well heterostructures grown by low-pressure metalorganic vapor phase epitaxy. Materials Research, 1999, 2, 49-57.	1.3	0
93	Photoluminescence microscopy imaging of tensile strained In _{1-x} Ga _x As _y P _{1-y} /InP quantum wells grown by low-pressure metalorganic vapor phase epitaxy. Journal of Applied Physics, 1999, 86, 402-407.	2.5	1
94	Morphological, optical and structural properties of zero-net-strained InGaAsP/InP structures grown by LP-MOVPE for 1.55μm laser applications. Brazilian Journal of Physics, 1999, 29, 839-842.	1.4	0
95	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
96	Reflecting polarizing beam splitter. Optics Letters, 1997, 22, 203.	3.3	35
97	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
98	Spatially resolved photoluminescence investigation of optical damage induced by SiN _x deposition in InGaAs. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1994, 23, 142-146.	3.5	1
99	Silicon nitride/semiconductor interface state density as a function of the insulator stoichiometry. Applied Surface Science, 1992, 56-58, 881-887.	6.1	4
100	Photoluminescence investigation of III-V semiconductor surface damage induced by PECVD silicon nitride films. Applied Surface Science, 1991, 52, 295-302.	6.1	4
101	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
102	Identification of silicon nitride/InGaAs interface states. Applied Physics Letters, 1990, 56, 1661-1663.	3.3	8
103	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
104	Design, Development, Construction and Installation of a Ceramic Chamber for a Pulsed Kicker at LNL Storage Ring. , 0, , .		1