

# Andrea Barucci

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4196021/publications.pdf>

Version: 2024-02-01

62  
papers

740  
citations

623734

14  
h-index

552781

26  
g-index

67  
all docs

67  
docs citations

67  
times ranked

746  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Ficoll as testing material for diffusion weighted imaging-quality assurance phantoms. <i>Magnetic Resonance Imaging</i> , 2021, 76, 1-7.  | 1.8 | 1         |
| 2  | Label-free SERS detection of proteins based on machine learning classification of chemo-structural determinants. <i>Analyst</i> , The, 2021, 146, 674-682.                                  | 3.5 | 38        |
| 3  | Artificial intelligence applications in medical imaging: A review of the medical physics research in Italy. <i>Physica Medica</i> , 2021, 83, 221-241.                                      | 0.7 | 44        |
| 4  | Electrospinnable composites for laser-activated tissue bonding and wound monitoring. , 2021, , .  |     | 0         |
| 5  | A deep look into radiomics. <i>Radiologia Medica</i> , 2021, 126, 1296-1311.  | 7.7 | 176       |
| 6  | A Deep Learning Approach to Ancient Egyptian Hieroglyphs Classification. <i>IEEE Access</i> , 2021, 9, 123438-123447.   | 4.2 | 22        |
| 7  | Machine and Deep Learning Prediction Of Prostate Cancer Aggressiveness Using Multiparametric MRI. <i>Frontiers in Oncology</i> , 2021, 11, 802964.  | 2.8 | 27        |
| 8  | Water-in-elastomer micro-emulsions as phantom materials in photoacoustic imaging and multimodal theranostics. , 2021, , .   |     | 0         |
| 9  | Optical Fibre Micro/Nano Tips as Fluorescence-Based Sensors and Interrogation Probes. <i>Optics</i> , 2020, 1, 213-242.   | 1.2 | 7         |
| 10 | Adversarial radiomics: the rising of potential risks in medical imaging from adversarial learning. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 2941-2943. | 6.4 | 15        |
| 11 | Optically activated and interrogated plasmonic hydrogels for applications in wound healing. <i>Journal of Biophotonics</i> , 2020, 13, e202000135.  | 2.3 | 15        |
| 12 | Comprehensive Analysis of Radiomic Datasets by RadAR. <i>Cancer Research</i> , 2020, 80, 3170-3174.   | 0.9 | 7         |
| 13 | Hybrid organosilicon/polyol phantoms for applications in biophotonics and beyond. , 2020, , .   |     | 0         |
| 14 | A SERS affinity bioassay based on ion-exchanged glass microrods (Conference Presentation). , 2020, , .  |     | 0         |
| 15 | PO-1536: RadiomiK: a phantom to test repeatability and reproducibility of CT-derived Radiomic Features. <i>Radiotherapy and Oncology</i> , 2020, 152, S830-S831.                            | 0.6 | 1         |
| 16 | EP-2178 Evaluation of a user-guided deformable registration workflow for multi-modal prostate imaging. <i>Radiotherapy and Oncology</i> , 2019, 133, S1203.                                 | 0.6 | 0         |
| 17 | Parametrical Optomechanical Oscillations in PhoXonic Whispering Gallery Mode Resonators. <i>Scientific Reports</i> , 2019, 9, 7163.   | 3.3 | 12        |
| 18 | Radiomics to Predict Prostate Cancer Aggressiveness: A Preliminary Study. , 2019, , .   |     | 3         |

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|----|---|-----|-----------|
| 19 | May Radiomic Data Predict Prostate Cancer Aggressiveness?. Communications in Computer and Information Science, 2019, , 65-75.   | 0.5 | 1         |
| 20 | Parametrical optomechanical oscillations in microbubble resonators: Suppression and enhancement of nonlinear phenomena (Conference Presentation). , 2019, , .                               |     | 0         |
| 21 | Waveguide-based coupling of coated micro-spherical resonators. , 2019, , .  |     | 0         |
| 22 | Cavity-ringdown-spectroscopy-based study of high Q resonators in add-drop configuration. , 2019, , .  |     | 0         |
| 23 | Biomedical Sensing Applications of Microspherical Resonators. , 2019, , 165-202.  |     | 0         |
| 24 | 159. Evaluation of a user-guided deformable registration workflow for multi-modal (CT-MRI) prostate imaging. Physica Medica, 2018, 56, 162-163.   | 0.7 | 1         |
| 25 | 301. Prostate cancer Radiomics using multiparametric MR imaging: An exploratory study. Physica Medica, 2018, 56, 246.   | 0.7 | 7         |
| 26 | Exposing Cancer's Complexity Using Radiomics in Clinical Imaging An Investigation on the Role of Histogram Analysis as Imaging Biomarker to Unravel Intra-Tumour Heterogeneity. , 2018, , . |     | 1         |
| 27 | A Review on the Role of Water Diffusion Modeling in Magnetic Resonance Imaging of Prostate Cancer. , 2018, , .  |     | 0         |
| 28 | Fractal-Radiomics as Complexity Analysis of CT and MRI Cancer Images. , 2018, , .   |     | 5         |
| 29 | Towards the development of a glass optical fibre probe for SERS applications. , 2018, , .   |     | 1         |
| 30 | A phantom for temperature monitoring in hyperthermia therapy with gold nanoparticles using Magnetic Resonance Imaging. , 2018, , .  |     | 4         |
| 31 | Coupling analysis of high Q resonators in add-drop configuration through cavity ringdown spectroscopy. Journal of Optics (United Kingdom), 2018, 20, 065706.                                | 2.2 | 4         |
| 32 | Selective coupling of Whispering Gallery Modes in film coated micro-resonators. Optics Express, 2018, 26, 11737.  | 3.4 | 5         |
| 33 | On the CFD Analysis of a Stratified Taylor-Couette System Dedicated to the Fabrication of Nanosensors. Fluids, 2017, 2, 8.  | 1.7 | 9         |
| 34 | Resonance Frequency of Optical Microbubble Resonators: Direct Measurements and Mitigation of Fluctuations. Sensors, 2016, 16, 1405.   | 3.8 | 6         |
| 35 | Optical Microbubble Resonators with High Refractive Index Inner Coating for Bio-Sensing Applications: An Analytical Approach. Sensors, 2016, 16, 1992.                                      | 3.8 | 13        |
| 36 | Determination of coupling regime of high-Q coupled resonators using cavity ring down spectroscopy. , 2016, , .  |     | 0         |

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|----|--|-----|-----------|
| 37 | Localized biomolecules immobilization in optical microbubble resonators. Proceedings of SPIE, 2016, , .                                  | 0.8 | 3         |
| 38 | Third order nonlinear phenomena in silica solid and hollow whispering gallery mode resonators. Proceedings of SPIE, 2016, , .            | 0.8 | 0         |
| 39 | Nonlinear Microcavities: from rainbow lasers to frequency combs. , 2016, , .   |     | 0         |
| 40 | Nonlinear effects in ultrahigh Q optical resonators. , 2016, , .   |     | 0         |
| 41 | Dynamical chemical etching for fabrication of optical fibre nanotips. , 2015, , .  |     | 0         |
| 42 | Generation of hyper-parametric oscillations in silica microbubbles. Optics Letters, 2015, 40, 4508.                                      | 3.3 | 47        |
| 43 | Optical fibre nanotips fabricated by a dynamic chemical etching for sensing applications. Journal of Applied Physics, 2015, 117, 053104. | 2.5 | 14        |
| 44 | Optical micro-bubble resonators as promising biosensors. Proceedings of SPIE, 2015, , .  | 0.8 | 4         |
| 45 | Optical Fiber Nanotips Coated with Molecular Beacons for DNA Detection. Sensors, 2015, 15, 9666-9680.                                    | 3.8 | 19        |
| 46 | Confocal reflectance microscopy for determination of microbubble resonator thickness. Optics Express, 2015, 23, 16693.                   | 3.4 | 32        |
| 47 | Optical Frequency Conversion in Silica-Whispering-Gallery-Mode Microspherical Resonators. Physical Review Letters, 2014, 112, 093901.    | 7.8 | 85        |
| 48 | Coupling light to whispering gallery mode resonators. Proceedings of SPIE, 2014, , .   | 0.8 | 7         |
| 49 | Multicolour emission in silica whispering gallery mode microspherical resonators. , 2014, , .  |     | 0         |
| 50 | Whispering gallery mode aptasensors for detection of blood proteins. Journal of Biophotonics, 2013, 6, 178-187.                          | 2.3 | 32        |
| 51 | Biosensing with microresonators and fibre nanotips. , 2013, , .  |     | 0         |
| 52 | Whispering gallery mode aptasensors for detection of blood proteins. Proceedings of SPIE, 2013, , .                                      | 0.8 | 23        |
| 53 | Optical fiber nanotips as carriers for molecular beacon-based biosensors. , 2013, , .  |     | 0         |
| 54 | High Q silica microbubble resonators. Proceedings of SPIE, 2012, , .   | 0.8 | 2         |

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|----|--|-----|-----------|
| 55 | Kerr versus thermal non-linear effects studied by hybrid whispering gallery mode resonators [Invited]. Optical Materials Express, 2012, 2, 1088. | 3.0 | 10        |
| 56 | Fiber ring laser for intracavity sensing using a whispering-gallery-mode resonator. Optics Letters, 2012, 37, 2697.                              | 3.3 | 20        |
| 57 | Hybrid microspheres for nonlinear Kerr switching applications. , 2012, , .   |     | 1         |
| 58 | Coupling approaches and new geometries in whispering-gallery-mode resonators. , 2012, , .  |     | 3         |
| 59 | Fiber optic nanoprobe for biological sensing. Proceedings of SPIE, 2011, , .   | 0.8 | 1         |
| 60 | Universal fluctuations in tropospheric radar measurements. Europhysics Letters, 2010, 89, 20006.   | 2.0 | 9         |
| 61 | Attenuation of large bandwidth microwave signals in water and wet sand. , 2010, , .  |     | 1         |
| 62 | Microspherical resonators for multicolor laser light emission. SPIE Newsroom, 0, , .   | 0.1 | 0         |