

# Andrea Barucci

## List of Publications by Year in descending order

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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	A deep look into radiomics. <i>Radiologia Medica</i> , 2021, 126, 1296-1311.	7.7	176
2	Optical Frequency Conversion in Silica-Whispering-Gallery-Mode Microspherical Resonators. <i>Physical Review Letters</i> , 2014, 112, 093901.	7.8	85
3	Generation of hyper-parametric oscillations in silica microbubbles. <i>Optics Letters</i> , 2015, 40, 4508.	3.3	47
4	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
5	Label-free SERS detection of proteins based on machine learning classification of chemo-structural determinants. <i>Analyst, The</i> , 2021, 146, 674-682.	3.5	38
6	Whispering gallery mode aptasensors for detection of blood proteins. <i>Journal of Biophotonics</i> , 2013, 6, 178-187.	2.3	32
7	Confocal reflectance microscopy for determination of microbubble resonator thickness. <i>Optics Express</i> , 2015, 23, 16693.	3.4	32
8	Machine and Deep Learning Prediction Of Prostate Cancer Aggressiveness Using Multiparametric MRI. <i>Frontiers in Oncology</i> , 2021, 11, 802964.	2.8	27
9	Whispering gallery mode aptasensors for detection of blood proteins. <i>Proceedings of SPIE</i> , 2013, , .	0.8	23
10	A Deep Learning Approach to Ancient Egyptian Hieroglyphs Classification. <i>IEEE Access</i> , 2021, 9, 123438-123447.	4.2	22
11	Fiber ring laser for intracavity sensing using a whispering-gallery-mode resonator. <i>Optics Letters</i> , 2012, 37, 2697.	3.3	20
12	Optical Fiber Nanotips Coated with Molecular Beacons for DNA Detection. <i>Sensors</i> , 2015, 15, 9666-9680.	3.8	19
13	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
14	Optically activated and interrogated plasmonic hydrogels for applications in wound healing. <i>Journal of Biophotonics</i> , 2020, 13, e202000135.	2.3	15
15	Optical fibre nanotips fabricated by a dynamic chemical etching for sensing applications. <i>Journal of Applied Physics</i> , 2015, 117, 053104.	2.5	14
16	Optical Microbubble Resonators with High Refractive Index Inner Coating for Bio-Sensing Applications: An Analytical Approach. <i>Sensors</i> , 2016, 16, 1992.	3.8	13
17	Parametrical Optomechanical Oscillations in PhoXonic Whispering Gallery Mode Resonators. <i>Scientific Reports</i> , 2019, 9, 7163.	3.3	12
18	Kerr versus thermal non-linear effects studied by hybrid whispering gallery mode resonators [Invited]. <i>Optical Materials Express</i> , 2012, 2, 1088.	3.0	10

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19	Universal fluctuations in tropospheric radar measurements. <i>Europhysics Letters</i> , 2010, 89, 20006.	2.0	9
20	On the CFD Analysis of a Stratified Taylor-Couette System Dedicated to the Fabrication of Nanosensors. <i>Fluids</i> , 2017, 2, 8.	1.7	9
21	Coupling light to whispering gallery mode resonators. <i>Proceedings of SPIE</i> , 2014, , .	0.8	7
22	301. Prostate cancer Radiomics using multiparametric MR imaging: An exploratory study. <i>Physica Medica</i> , 2018, 56, 246.	0.7	7
23	Optical Fibre Micro/Nano Tips as Fluorescence-Based Sensors and Interrogation Probes. <i>Optics</i> , 2020, 1, 213-242.	1.2	7
24	Comprehensive Analysis of Radiomic Datasets by RadAR. <i>Cancer Research</i> , 2020, 80, 3170-3174.	0.9	7
25	Resonance Frequency of Optical Microbubble Resonators: Direct Measurements and Mitigation of Fluctuations. <i>Sensors</i> , 2016, 16, 1405.	3.8	6
26	Fractal-Radiomics as Complexity Analysis of CT and MRI Cancer Images. , 2018, , .		5
27	Selective coupling of Whispering Gallery Modes in film coated micro-resonators. <i>Optics Express</i> , 2018, 26, 11737.	3.4	5
28	Optical micro-bubble resonators as promising biosensors. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4
29	A phantom for temperature monitoring in hyperthermia therapy with gold nanoparticles using Magnetic Resonance Imaging. , 2018, , .		4
30	Coupling analysis of high Q resonators in add-drop configuration through cavity ringdown spectroscopy. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 065706.	2.2	4
31	Coupling approaches and new geometries in whispering-gallery-mode resonators. , 2012, , .		3
32	Localized biomolecules immobilization in optical microbubble resonators. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
33	Radiomics to Predict Prostate Cancer Aggressiveness: A Preliminary Study. , 2019, , .		3
34	High Q silica microbubble resonators. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
35	Attenuation of large bandwidth microwave signals in water and wet sand. , 2010, , .		1
36	Fiber optic nanoprobes for biological sensing. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1

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37	Hybrid microspheres for nonlinear Kerr switching applications. , 2012, , .		1
38	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
39	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
40	Towards the development of a glass optical fibre probe for SERS applications. , 2018, , .		1
41	Ficoll as testing material for diffusion weighted imaging-quality assurance phantoms. Magnetic Resonance Imaging, 2021, 76, 1-7.	1.8	1
42	May Radiomic Data Predict Prostate Cancer Aggressiveness?. Communications in Computer and Information Science, 2019, , 65-75.	0.5	1
43	PO-1536: RadiomiK: a phantom to test repeatability and reproducibility of CT-derived Radiomic Features. Radiotherapy and Oncology, 2020, 152, S830-S831.	0.6	1
44	Biosensing with microresonators and fibre nanotips. , 2013, , .		0
45	Optical fiber nanotips as carriers for molecular beacon-based biosensors. , 2013, , .		0
46	Multicolour emission in silica whispering gallery mode microspherical resonators. , 2014, , .		0
47	Dynamical chemical etching for fabrication of optical fibre nanotips. , 2015, , .		0
48	Determination of coupling regime of high-Q coupled resonators using cavity ring down spectroscopy. , 2016, , .		0
49	Third order nonlinear phenomena in silica solid and hollow whispering gallery mode resonators. Proceedings of SPIE, 2016, , .	0.8	0
50	A Review on the Role of Water Diffusion Modeling in Magnetic Resonance Imaging of Prostate Cancer. , 2018, , .		0
51	EP-2178 Evaluation of a user-guided deformable registration workflow for multi-modal prostate imaging. Radiotherapy and Oncology, 2019, 133, S1203.	0.6	0
52	Electrospinnable composites for laser-activated tissue bonding and wound monitoring. , 2021, , .		0
53	Nonlinear Microcavities: from rainbow lasers to frequency combs. , 2016, , .		0
54	Microspherical resonators for multicolor laser light emission. SPIE Newsroom, 0, , .	0.1	0

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55	Nonlinear effects in ultrahigh Q optical resonators. , 2016, , .		0
56	Parametrical optomechanical oscillations in microbubble resonators: Suppression and enhancement of nonlinear phenomena (Conference Presentation). , 2019, , .		0
57	Waveguide-based coupling of coated micro-spherical resonators. , 2019, , .		0
58	Cavity-ringdown-spectroscopy-based study of high Q resonators in add-drop configuration. , 2019, , .		0
59	Biomedical Sensing Applications of Microspherical Resonators. , 2019, , 165-202.		0
60	Hybrid organosilicon/polyol phantoms for applications in biophotonics and beyond. , 2020, , .		0
61	A SERS affinity bioassay based on ion-exchanged glass microrods (Conference Presentation). , 2020, , .		0
62	Water-in-elastomer micro-emulsions as phantom materials in photoacoustic imaging and multimodal theranostics. , 2021, , .		0