

# Federico Boschi

## List of Publications by Year in descending order

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93  
papers

2,321  
citations

201385

27  
h-index

243296

44  
g-index

93  
all docs

93  
docs citations

93  
times ranked

3284  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cerenkov radiation allows in vivo optical imaging of positron emitting radiotracers. <i>Physics in Medicine and Biology</i> , 2010, 55, 483-495.	1.6	167
2	First human Cerenkography. <i>Journal of Biomedical Optics</i> , 2013, 18, 020502.	1.4	139
3	Exosome derived from murine adipose-derived stromal cells: Neuroprotective effect on in vitro model of amyotrophic lateral sclerosis. <i>Experimental Cell Research</i> , 2016, 340, 150-158.	1.2	134
4	Multispectral Cerenkov luminescence tomography for small animal optical imaging. <i>Optics Express</i> , 2011, 19, 12605.	1.7	99
5	In vivo 18F-FDG tumour uptake measurements in small animals using Cerenkov radiation. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2011, 38, 120-127.	3.3	85
6	A Novel Near-Infrared Indocyanine Dye <sup>~</sup> Polyethylenimine Conjugate Allows DNA Delivery Imaging <i>in Vivo</i> . <i>Bioconjugate Chemistry</i> , 2008, 19, 983-987.	1.8	84
7	An FGFR3 Autocrine Loop Sustains Acquired Resistance to Trastuzumab in Gastric Cancer Patients. <i>Clinical Cancer Research</i> , 2016, 22, 6164-6175.	3.2	65
8	Novel biomedical applications of Cerenkov radiation and radioluminescence imaging. <i>Physica Medica</i> , 2015, 31, 120-129.	0.4	63
9	Multicolor core/shell silica nanoparticles for in vivo and ex vivo imaging. <i>Nanoscale</i> , 2012, 4, 824-830.	2.8	55
10	Luminescence of Eu <sup>3+</sup> Activated CaF <sub>2</sub> and SrF <sub>2</sub> Nanoparticles: Effect of the Particle Size and Codoping with Alkaline Ions. <i>Crystal Growth and Design</i> , 2018, 18, 686-694.	1.4	52
11	Cathepsin K Null Mice Show Reduced Adiposity during the Rapid Accumulation of Fat Stores. <i>PLoS ONE</i> , 2007, 2, e683.	1.1	48
12	Taste performance in Parkinson <sup>~</sup> TM's disease. <i>Journal of Neural Transmission</i> , 2014, 121, 119-122.	1.4	46
13	Pancreatic ductal adenocarcinoma cell lines display a plastic ability to bi-directionally convert into cancer stem cells. <i>International Journal of Oncology</i> , 2015, 46, 1099-1108.	1.4	44
14	Disabled Homolog 2 Controls Prometastatic Activity of Tumor-Associated Macrophages. <i>Cancer Discovery</i> , 2020, 10, 1758-1773.	7.7	44
15	Mild ozonisation activates antioxidant cell response by the Keap1/Nrf2 dependent pathway. <i>Free Radical Biology and Medicine</i> , 2018, 124, 114-121.	1.3	43
16	Taste in Parkinson <sup>~</sup> TM's disease. <i>Journal of Neurology</i> , 2015, 262, 806-813.	1.8	41
17	Modulating TAK1 Expression Inhibits YAP and TAZ Oncogenic Functions in Pancreatic Cancer. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 247-257.	1.9	37
18	Hyaluronated mesoporous silica nanoparticles for active targeting: influence of conjugation method and hyaluronic acid molecular weight on the nanovector properties. <i>Journal of Colloid and Interface Science</i> , 2018, 516, 484-497.	5.0	33

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19	The 1966-1967 Outburst of V1647 Orionis and the Appearance of McNeil's Nebula. <i>Astronomical Journal</i> , 2006, 132, 1298-1306.	1.9	32
20	Combined optical and single photon emission imaging: preliminary results. <i>Physics in Medicine and Biology</i> , 2009, 54, L57-L62.	1.6	32
21	Optical imaging of Tc-99m <sup>99m</sup> -based tracers: <i>in vitro</i> and <i>in vivo</i> results. <i>Journal of Biomedical Optics</i> , 2011, 16, 116023.	1.4	31
22	Overview of the optical properties of fluorescent nanoparticles for optical imaging. <i>European Journal of Histochemistry</i> , 2017, 61, 2830.	0.6	31
23	A cross-cultural survey of umami familiarity in European countries. <i>Food Quality and Preference</i> , 2019, 74, 172-178.	2.3	31
24	Optimizing <i>in vivo</i> small animal Cerenkov luminescence imaging. <i>Journal of Biomedical Optics</i> , 2012, 17, 040506.	1.4	30
25	Cerenkov and radioluminescence imaging of brain tumor specimens during neurosurgery. <i>Journal of Biomedical Optics</i> , 2016, 21, 050502.	1.4	30
26	Combined inhibition of IL1, CXCR1/2, and TGF $\beta$ <sup>2</sup> signaling pathways modulates <i>in vivo</i> resistance to anti-VEGF treatment. <i>Anti-Cancer Drugs</i> , 2016, 27, 29-40.	0.7	29
27	Nanoformulations for dimethyl fumarate: Physicochemical characterization and <i>in vitro</i> / <i>in vivo</i> behavior. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 115, 285-296.	2.0	29
28	Inhibition of <i>Pseudomonas aeruginosa</i> secreted virulence factors reduces lung inflammation in CF mice. <i>Virulence</i> , 2018, 9, 1008-1018.	1.8	28
29	Multifunctional nanoprobe based on upconverting lanthanide doped CaF <sub>2</sub> : towards biocompatible materials for biomedical imaging. <i>Biomaterials Science</i> , 2014, 2, 1158-1171.	2.6	27
30	Feasibility of Telomerase-Specific Adoptive T-cell Therapy for B-cell Chronic Lymphocytic Leukemia and Solid Malignancies. <i>Cancer Research</i> , 2016, 76, 2540-2551.	0.4	25
31	Epithelial and Mesenchymal Tumor Compartments Exhibit <i>In Vivo</i> Complementary Patterns of Vascular Perfusion and Glucose Metabolism. <i>Neoplasia</i> , 2007, 9, 900-908.	2.3	24
32	Cerenkov radiation imaging of beta emitters: <i>in vitro</i> and <i>in vivo</i> results. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 648, S310-S312.	0.7	24
33	Optical imaging of alpha emitters: simulations, phantom, and <i>in vivo</i> results. <i>Journal of Biomedical Optics</i> , 2011, 16, 126011.	1.4	24
34	Models of lipid droplets growth and fission in adipocyte cells. <i>Experimental Cell Research</i> , 2015, 336, 253-262.	1.2	23
35	Glucose transporter expression in the human colon. <i>World Journal of Gastroenterology</i> , 2018, 24, 775-793.	1.4	23
36	Quantum dots excitation using pure beta minus radioisotopes emitting Cerenkov radiation. <i>RSC Advances</i> , 2012, 2, 11049.	1.7	22

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37	Metabolic effect of bodyweight whole-body vibration in a 20-min exercise session: A crossover study using verified vibration stimulus. PLoS ONE, 2018, 13, e0192046.	1.1	22
38	Interrupting the nitrosative stress fuels tumor-specific cytotoxic T lymphocytes in pancreatic cancer. , 2022, 10, e003549.		22
39	Small-animal radionuclide luminescence imaging of thyroid and salivary glands with Tc99m-pertechnetate. Journal of Biomedical Optics, 2013, 18, 076005.	1.4	21
40	Preclinical In vivo Imaging for Fat Tissue Identification, Quantification, and Functional Characterization. Frontiers in Pharmacology, 2016, 7, 336.	1.6	20
41	Low ozone concentrations promote adipogenesis in human adipose-derived adult stem cells. European Journal of Histochemistry, 2018, 62, .	0.6	19
42	Dynamic of lipid droplets and gene expression in response to $\hat{1}^2$ -aminoisobutyric acid treatment on 3T3-L1 cells. European Journal of Histochemistry, 2018, 62, .	0.6	18
43	Photodynamic Therapy Using Cerenkov and Radioluminescence Light. Frontiers in Physics, 2021, 9, .	1.0	18
44	Age-Related Changes in the Matrisome of the Mouse Skeletal Muscle. International Journal of Molecular Sciences, 2021, 22, 10564.	1.8	18
45	Effective control of acute myeloid leukaemia and acute lymphoblastic leukaemia progression by telomerase specific adoptive T-cell therapy. Oncotarget, 2017, 8, 86987-87001.	0.8	18
46	Innovative approach to safely induce controlled lipolysis by superparamagnetic iron oxide nanoparticles-mediated hyperthermic treatment. International Journal of Biochemistry and Cell Biology, 2017, 93, 62-73.	1.2	17
47	Uptake and intracellular fate of biocompatible nanocarriers in cycling and noncycling cells. Nanomedicine, 2019, 14, 301-316.	1.7	17
48	Tumor microvasculature observed using different contrast agents: a comparison between Gd-DTPA-Albumin and B-22956/1 in an experimental model of mammary carcinoma. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2008, 21, 169-176.	1.1	15
49	Unified approach for bioluminescence, Cerenkov, $\hat{1}^2$ , X and $\hat{1}^3$ rays imaging. Biomedical Optics Express, 2015, 6, 2168.	1.5	15
50	Comparison of the Effects of Browning-Inducing Capsaicin on Two Murine Adipocyte Models. Frontiers in Physiology, 2019, 10, 1380.	1.3	15
51	Cerenkov Luminescence Imaging at a Glance. Current Molecular Imaging, 2015, 3, 106-117.	0.7	15
52	Lipid droplets fusion in adipocyte differentiated 3T3-L1 cells: A Monte Carlo simulation. Experimental Cell Research, 2014, 321, 201-208.	1.2	14
53	In vivo monitoring of lung inflammation in CFTR-deficient mice. Journal of Translational Medicine, 2016, 14, 226.	1.8	14
54	<p>A Correlative Imaging Study of in vivo and ex vivo Biodistribution of Solid Lipid Nanoparticles</p>. International Journal of Nanomedicine, 2020, Volume 15, 1745-1758.	3.3	14

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55	Effect of physical exercise and anabolic steroid treatment on spinal motoneurons and surrounding glia of wild-type and ALS mice. <i>Brain Research</i> , 2017, 1657, 269-278.	1.1	13
56	Cell tracking using Cerenkov and radioluminescence imaging. <i>Journal of Biophotonics</i> , 2018, 11, e201800093.	1.1	13
57	Relationship between lipid droplets size and integrated optical density. <i>European Journal of Histochemistry</i> , 2019, 63, .	0.6	13
58	Tandem Dye-Doped Nanoparticles for NIR Imaging via Cerenkov Resonance Energy Transfer. <i>Frontiers in Chemistry</i> , 2020, 8, 71.	1.8	13
59	High activity and low toxicity of a novel CD71-targeting nanotherapeutic named The-0504 on preclinical models of several human aggressive tumors. <i>Journal of Experimental and Clinical Cancer Research</i> , 2021, 40, 63.	3.5	13
60	Unsupervised analysis of small animal dynamic Cerenkov luminescence imaging. <i>Journal of Biomedical Optics</i> , 2011, 16, 120507.	1.4	12
61	Nanoparticles for Cerenkov and Radioluminescent Light Enhancement for Imaging and Radiotherapy. <i>Nanomaterials</i> , 2020, 10, 1771.	1.9	12
62	An IL-8 Transiently Transgenized Mouse Model for the <i>In Vivo</i> Long-term Monitoring of Inflammatory Responses. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	10
63	Imaging of luminescence induced by beta and gamma emitters in conventional non-scintillating materials. <i>RSC Advances</i> , 2014, 4, 13687-13692.	1.7	9
64	Theranostic Role of <sup>32</sup> P-ATP as Radiopharmaceutical for the Induction of Massive Cell Death within Avascular Tumor Core. <i>Theranostics</i> , 2017, 7, 4399-4409.	4.6	9
65	Ozone Treatment of Grapes During Withering for Amarone Wine: A Multimodal Imaging and Spectroscopic Analysis. <i>Microscopy and Microanalysis</i> , 2018, 24, 564-573.	0.2	8
66	Quantum dots labelling allows detection of the homing of mesenchymal stem cells administered as immunomodulatory therapy in an experimental model of pancreatic islets transplantation. <i>Journal of Anatomy</i> , 2017, 230, 381-388.	0.9	7
67	Weak biophoton emission after laser surgery application in soft tissues: Analysis of the optical features. <i>Journal of Biophotonics</i> , 2019, 12, e201800260.	1.1	7
68	The transcriptional profile of adipose-derived stromal cells (ASC) mirrors the whitening of adipose tissue with age. <i>European Journal of Cell Biology</i> , 2022, 101, 151206.	1.6	7
69	Drug targeting of airway surface liquid: A pharmacological MRI approach. <i>Biomedicine and Pharmacotherapy</i> , 2008, 62, 410-419.	2.5	6
70	Secretory response induced by essential oils on airway surface fluid: A pharmacological MRI study. <i>Journal of Ethnopharmacology</i> , 2009, 124, 630-634.	2.0	6
71	Human Cerenkov Imaging Using 18F-FDG. <i>Journal of Nuclear Medicine</i> , 2014, 55, 523.1-523.	2.8	6
72	Design of a multimodal fibers optic system for small animal optical imaging. <i>Physica Medica</i> , 2015, 31, 108-111.	0.4	6

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73	Immunolocalization of leptin and leptin receptor in colorectal mucosa of ulcerative colitis, Crohn's disease and control subjects with no inflammatory bowel disease. <i>Cell and Tissue Research</i> , 2021, 383, 1103-1122.	1.5	6
74	A spectrofluorometric analysis to evaluate transcutaneous biodistribution of fluorescent nanoparticulate gel formulations. <i>European Journal of Histochemistry</i> , 2022, 66, .	0.6	6
75	Biocompatible, photo-responsive layer-by-layer polymer nanocapsules with an oil core: <i>in vitro</i> and <i>in vivo</i> study. <i>Journal of the Royal Society Interface</i> , 2022, 19, 20210800.	1.5	6
76	A computational approach to quantitatively define sarcomere dimensions and arrangement in skeletal muscle. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 211, 106437.	2.6	5
77	Proton Magnetic Resonance Spectroscopy: Ex vivo study to investigate its prognostic role in colorectal cancer. <i>Biomedicine and Pharmacotherapy</i> , 2013, 67, 593-597.	2.5	4
78	Development of a simulation environment for Cerenkov luminescence imaging. , 2013, , .		4
79	Pancreatic cancer growth using magnetic resonance and bioluminescence imaging. <i>Magnetic Resonance Imaging</i> , 2015, 33, 592-599.	1.0	4
80	Bremsstrahlung radiation detection for small animal imaging using a CCD detector. <i>Physica Medica</i> , 2016, 32, 706-708.	0.4	4
81	Photon emission and changes in fluorescent properties of bone after laser irradiation. <i>Journal of Biophotonics</i> , 2021, 14, e202000445.	1.1	4
82	Unpleasant olfactory and gustatory stimuli increase pain unpleasantness in patients with chronic oral burning pain: An exploratory study. <i>European Journal of Pain</i> , 2022, , .	1.4	4
83	Optical emission of <sup>223</sup> Radium: in vitro and in vivo preclinical applications. <i>Journal of Biophotonics</i> , 2018, 11, e201700209.	1.1	3
84	Monte Carlo simulations support non-Cerenkov radioluminescence production in tissue. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	1.4	3
85	Weak light emission of soft tissues induced by heating. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	3
86	Innovation in Contrast Agents for Magnetic Resonance Imaging. <i>Current Medical Imaging</i> , 2006, 2, 291-298.	0.4	2
87	Radioluminescence from Tc-99m in glass predicts local dose. <i>Physica Medica</i> , 2017, 42, 112-115.	0.4	2
88	Simulating the dynamics of lipid droplets in adipocyte differentiation. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 138, 65-71.	2.6	2
89	Small animal irradiator dose distribution verification using radioluminescence imaging. <i>Journal of Biophotonics</i> , 2020, 13, e201960217.	1.1	2
90	Hedonicity in functional motor disorders: a chemosensory study assessing taste. <i>Journal of Neural Transmission</i> , 2020, 127, 1399-1407.	1.4	1

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91	Small animal optical multispectral Cerenkov tomography. , 2011, , .		0
92	In vivo and in vitro imaging using a multimodal optical system. , 2015, , .		0
93	Evidence of glucose absorption in a neofomed intestine. Updates in Surgery, 2022, , 1.	0.9	0