

# Wawrzyniec L Dobrucki

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

3,842

citations

32

h-index

60

g-index

102

ext. papers

4,359

ext. citations

8.1

avg, IF

4.93

L-index

#	Paper	IF	Citations
88	Investigating the optimal size of anticancer nanomedicine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 15344-9	11.5	406
87	Third-generation beta-blockers stimulate nitric oxide release from endothelial cells through ATP efflux: a novel mechanism for antihypertensive action. <i>Circulation</i> , <b>2003</b> , 107, 2747-52	16.7	196
86	Selective in vivo metabolic cell-labeling-mediated cancer targeting. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 415-424	11.7	188
85	Matrix metalloproteinase-9 gene deletion facilitates angiogenesis after myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2006</b> , 290, H232-9	5.2	162
84	Noninvasive targeted imaging of matrix metalloproteinase activation in a murine model of postinfarction remodeling. <i>Circulation</i> , <b>2005</b> , 112, 3157-67	16.7	160
83	AVE 0991, a nonpeptide mimic of the effects of angiotensin-(1-7) on the endothelium. <i>Hypertension</i> , <b>2002</b> , 40, 847-52	8.5	152
82	Selective Delivery of an Anticancer Drug with Aptamer-Functionalized Liposomes to Breast Cancer Cells and. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 5288-5297	7.3	139
81	A bioreducible N-oxide-based probe for photoacoustic imaging of hypoxia. <i>Nature Communications</i> , <b>2017</b> , 8, 1794	17.4	131
80	Noninvasive imaging of angiogenesis with a 99mTc-labeled peptide targeted at alphavbeta3 integrin after murine hindlimb ischemia. <i>Circulation</i> , <b>2005</b> , 111, 3255-60	16.7	131
79	PET and SPECT in cardiovascular molecular imaging. <i>Nature Reviews Cardiology</i> , <b>2010</b> , 7, 38-47	14.8	125
78	Tissue-engineered vascular grafts form neovessels that arise from regeneration of the adjacent blood vessel. <i>FASEB Journal</i> , <b>2011</b> , 25, 2731-9	0.9	120
77	Increased nitric oxide bioavailability in endothelial cells contributes to the pleiotropic effect of cerivastatin. <i>Circulation</i> , <b>2002</b> , 105, 933-8	16.7	117
76	Differential functions of tumor necrosis factor receptor 1 and 2 signaling in ischemia-mediated arteriogenesis and angiogenesis. <i>American Journal of Pathology</i> , <b>2006</b> , 169, 1886-98	5.8	108
75	Molecular imaging of activated matrix metalloproteinases in vascular remodeling. <i>Circulation</i> , <b>2008</b> , 118, 1953-60	16.7	85
74	Aptamer-functionalized, ultra-small, monodisperse silica nanoconjugates for targeted dual-modal imaging of lymph nodes with metastatic tumors. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 12721-6	16.4	81
73	Poly(iohexol) nanoparticles as contrast agents for in vivo X-ray computed tomography imaging. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 13620-3	16.4	77
72	Targeted imaging of the spatial and temporal variation of matrix metalloproteinase activity in a porcine model of postinfarct remodeling: relationship to myocardial dysfunction. <i>Circulation: Cardiovascular Imaging</i> , <b>2011</b> , 4, 381-91	3.9	70

71	Drug-initiated ring-opening polymerization of O-carboxyanhydrides for the preparation of anticancer drug-poly(O-carboxyanhydride) nanoconjugates. <i>Biomacromolecules</i> , <b>2013</b> , 14, 920-9	6.9	60
70	Efficient Targeting of Adipose Tissue Macrophages in Obesity with Polysaccharide Nanocarriers. <i>ACS Nano</i> , <b>2016</b> , 10, 6952-62	16.7	56
69	Pamidronate functionalized nanoconjugates for targeted therapy of focal skeletal malignant osteolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E4601-9	11.5	53
68	Analysis of angiogenesis induced by local IGF-1 expression after myocardial infarction using microSPECT-CT imaging. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2010</b> , 48, 1071-9	5.8	53
67	Atherosclerosis plaque heterogeneity and response to therapy detected by in vivo molecular imaging of matrix metalloproteinase activation. <i>Journal of Nuclear Medicine</i> , <b>2011</b> , 52, 1795-802	8.9	53
66	A non-parametric vessel detection method for complex vascular structures. <i>Medical Image Analysis</i> , <b>2009</b> , 13, 49-61	15.4	49
65	Cardiac restricted overexpression of membrane type-1 matrix metalloproteinase causes adverse myocardial remodeling following myocardial infarction. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 30316-27	5.4	48
64	Development and application of a multimodal contrast agent for SPECT/CT hybrid imaging. <i>Bioconjugate Chemistry</i> , <b>2011</b> , 22, 1784-92	6.3	47
63	Nitric oxide as a second messenger in parathyroid hormone-related protein signaling. <i>Journal of Endocrinology</i> , <b>2001</b> , 170, 433-40	4.7	46
62	Endothelial-derived neuregulin is an important mediator of ischaemia-induced angiogenesis and arteriogenesis. <i>Cardiovascular Research</i> , <b>2012</b> , 93, 516-24	9.9	44
61	Approaches to Multimodality Imaging of Angiogenesis. <i>Journal of Nuclear Medicine</i> , <b>2010</b> ,	8.9	38
60	Molecular imaging of matrix metalloproteinase activation to predict murine aneurysm expansion in vivo. <i>Journal of Nuclear Medicine</i> , <b>2010</b> , 51, 1107-15	8.9	37
59	Imaging angiogenesis. <i>Current Opinion in Biotechnology</i> , <b>2007</b> , 18, 90-6	11.4	37
58	Targeted imaging of hypoxia-induced integrin activation in myocardium early after infarction. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 1504-12	3.7	35
57	Ceramide-activated phosphatase mediates fatty acid-induced endothelial VEGF resistance and impaired angiogenesis. <i>American Journal of Pathology</i> , <b>2014</b> , 184, 1562-76	5.8	33
56	eNOS expression and NO release during hypoxia is inhibited by miR-200b in human endothelial cells. <i>Angiogenesis</i> , <b>2018</b> , 21, 711-724	10.6	32
55	Serial noninvasive targeted imaging of peripheral angiogenesis: validation and application of a semiautomated quantitative approach. <i>Journal of Nuclear Medicine</i> , <b>2009</b> , 50, 1356-63	8.9	32
54	Cardiovascular molecular imaging. <i>Seminars in Nuclear Medicine</i> , <b>2005</b> , 35, 73-81	5.4	31

53	In Vivo Targeting of Metabolically Labeled Cancers with Ultra-Small Silica Nanoconjugates. <i>Theranostics</i> , <b>2016</b> , 6, 1467-76	12.1	30
52	Nitric oxide production and endothelium-dependent vasorelaxation ameliorated by N1-methylnicotinamide in human blood vessels. <i>Hypertension</i> , <b>2012</b> , 59, 825-32	8.5	29
51	Intratumoral generation of photothermal gold nanoparticles through a vectorized biomineralization of ionic gold. <i>Nature Communications</i> , <b>2020</b> , 11, 4530	17.4	29
50	Bioorthogonal Oxime Ligation Mediated Cancer Targeting. <i>Chemical Science</i> , <b>2015</b> , 6, 2182-2186	9.4	27
49	Combined L-arginine and antioxidative vitamin treatment mollifies ischemia-reperfusion injury of skeletal muscle. <i>Journal of Vascular Surgery</i> , <b>2004</b> , 39, 868-77	3.5	25
48	Matrix metalloproteinase activation predicts amelioration of remodeling after dietary modification in injured arteries. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2011</b> , 31, 102-9	9.4	23
47	Surveillance of Cancer Stem Cell Plasticity Using an Isoform-Selective Fluorescent Probe for Aldehyde Dehydrogenase 1A1. <i>ACS Central Science</i> , <b>2018</b> , 4, 1045-1055	16.8	21
46	Multimodal imaging of the receptor for advanced glycation end-products with molecularly targeted nanoparticles. <i>Theranostics</i> , <b>2018</b> , 8, 5012-5024	12.1	21
45	Expanding Acquisition and Clutter Filter Dimensions for Improved Perfusion Sensitivity. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2017</b> , 64, 1429-1438	3.2	20
44	Development of a model system for preliminary evaluation of tissue-engineered vascular conduits. <i>Journal of Pediatric Surgery</i> , <b>2006</b> , 41, 787-91	2.6	19
43	Melanoma topology reveals a stem-like phenotype that promotes angiogenesis. <i>Science Advances</i> , <b>2017</b> , 3, e1701350	14.3	18
42	Pixelated spatial gene expression analysis from tissue. <i>Nature Communications</i> , <b>2018</b> , 9, 202	17.4	17
41	Articulated rigid registration for serial lower-limb mouse imaging. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 8, 919-26	0.9	17
40	Nitric oxide deficiency contributes to large cerebral infarct size. <i>Hypertension</i> , <b>2000</b> , 35, 1111-8	8.5	16
39	Multidimensional Clutter Filter Optimization for Ultrasonic Perfusion Imaging. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 2020-2029	3.2	16
38	Enhancement and wavelength-shifted emission of Cerenkov luminescence using multifunctional microspheres. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 727-39	3.8	15
37	Albumin as a "Trojan Horse" for polymeric nanoconjugate transendothelial transport across tumor vasculatures for improved cancer targeting. <i>Biomaterials Science</i> , <b>2018</b> , 6, 1189-1200	7.4	14
36	A non-rigid registration method for serial lower extremity hybrid SPECT/CT imaging. <i>Medical Image Analysis</i> , <b>2011</b> , 15, 96-111	15.4	14

35	Multiscale Imaging of Nanoparticle Drug Delivery. <i>Current Drug Targets</i> , <b>2015</b> , 16, 560-70	3	14
34	Approaches to multimodality imaging of angiogenesis. <i>Journal of Nuclear Medicine</i> , <b>2010</b> , 51 Suppl 1, 66S-79S	8.9	14
33	Aberrant Expression of a Non-muscle RBFOX2 Isoform Triggers Cardiac Conduction Defects in Myotonic Dystrophy. <i>Developmental Cell</i> , <b>2020</b> , 52, 748-763.e6	10.2	13
32	Molecular cardiovascular imaging. <i>Current Cardiology Reports</i> , <b>2005</b> , 7, 130-5	4.2	13
31	Central hypotensive action of clonidine requires nitric oxide. <i>Circulation</i> , <b>2001</b> , 104, 1884-6	16.7	13
30	Multimodal Assessment of Mesenchymal Stem Cell Therapy for Diabetic Vascular Complications. <i>Theranostics</i> , <b>2017</b> , 7, 3876-3888	12.1	12
29	Pathogenesis of psoriasis in the "omic" era. Part II. Genetic, genomic and epigenetic changes in psoriasis. <i>Postepy Dermatologii I Alergologii</i> , <b>2020</b> , 37, 283-298	1.5	12
28	Pathogenesis of psoriasis in the "omic" era. Part III. Metabolic disorders, metabolomics, nutrigenomics in psoriasis. <i>Postepy Dermatologii I Alergologii</i> , <b>2020</b> , 37, 452-467	1.5	12
27	Pathogenesis of psoriasis in the "omic" era. Part I. Epidemiology, clinical manifestation, immunological and neuroendocrine disturbances. <i>Postepy Dermatologii I Alergologii</i> , <b>2020</b> , 37, 135-153	1.5	11
26	Synthesis, Chemical Characterization and Multiscale Biological Evaluation of a Dimeric-cRGD Peptide for Targeted Imaging of $\alpha_5\beta_1$ Integrin Activity. <i>Scientific Reports</i> , <b>2017</b> , 7, 3185	4.9	10
25	Multimodal Nanocarrier Probes Reveal Superior Biodistribution Quantification by Isotopic Analysis over Fluorescence. <i>ACS Nano</i> , <b>2020</b> , 14, 509-523	16.7	10
24	Nitric Oxide Measurements during Endotoxemia. <i>Clinical Chemistry</i> , <b>2001</b> , 47, 1068-1074	5.5	9
23	Quantitative imaging of the receptor for advanced glycation end-products in prostate cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2020</b> , 47, 2562-2576	8.8	8
22	New approach to quantification of molecularly targeted radiotracer uptake from hybrid cardiac SPECT/CT: methodology and validation. <i>Journal of Nuclear Medicine</i> , <b>2013</b> , 54, 2175-81	8.9	8
21	Accuracy and reproducibility of absolute quantification of myocardial focal tracer uptake from molecularly targeted SPECT/CT: a canine validation. <i>Journal of Nuclear Medicine</i> , <b>2011</b> , 52, 453-60	8.9	8
20	Evaluation of a dimeric-cRGD peptide for targeted PET-CT imaging of peripheral angiogenesis in diabetic mice. <i>Scientific Reports</i> , <b>2018</b> , 8, 5401	4.9	7
19	Ramipril improves nitric oxide availability in hypertensive rats with failing hearts after myocardial infarction. <i>JRAAS - Journal of the Renin-Angiotensin-Aldosterone System</i> , <b>2003</b> , 4, 180-5	3	7
18	Pathogenesis of psoriasis in the "omic" era. Part IV. Epidemiology, genetics, immunopathogenesis, clinical manifestation and treatment of psoriatic arthritis. <i>Postepy Dermatologii I Alergologii</i> , <b>2020</b> , 37, 625-634	1.5	6

