Daniel Balvay

List of Publications by Year
in descending order

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61 papers	1,891 citations	236925 25 h-index	254184 43 g-index
61 all docs	61 docs citations	61 times ranked	3040 citing authors

#	Article	IF	Citations
1	Perfusion and vascular permeability: Basic concepts and measurement in DCE-CT and DCE-MRI. Diagnostic and Interventional Imaging, 2013, 94, 1187-1204.	3.2	213
2	Tumor angiogenesis: pathophysiology and implications for contrast-enhanced MRI and CT assessment. Abdominal Imaging, 2006, 31, 188-193.	2.0	163
3	Gray-level discretization impacts reproducible MRI radiomics texture features. PLoS ONE, 2019, 14, e0213459.	2.5	129
4	Metastatic Renal Carcinoma: Evaluation of Antiangiogenic Therapy with Dynamic Contrast-enhanced CT. Radiology, 2010, 256, 511-518.	7.3	124
5	Optimizing the size variation threshold for the CT evaluation of response in metastatic renal cell carcinoma treated with sunitinib. Annals of Oncology, 2010, 21, 936-941.	1.2	83
6	Quantitative dynamic contrast-enhanced MR imaging analysis of complex adnexal masses: a preliminary study. European Radiology, 2012, 22, 738-745.	4.5	82
7	Shear wave elastography of tumour growth in a human breast cancer model with pathological correlation. European Radiology, 2013, 23, 2079-2086.	4.5	73
8	Placental Perfusion and Permeability: Simultaneous Assessment with Dual-Echo Contrast-enhanced MR Imaging in Mice. Radiology, 2006, 241, 737-745.	7.3	63
9	Placental Perfusion MR Imaging with Contrast Agents in a Mouse Model. Radiology, 2005, 235, 73-80.	7.3	62
10	Maternofetal Pharmacokinetics of a Gadolinium Chelate Contrast Agent in Mice. Radiology, 2011, 258, 455-460.	7.3	58
11	Real time shear waves elastography monitoring of thermal ablation: inÂvivo evaluation in pig livers. Journal of Surgical Research, 2014, 188, 37-43.	1.6	56
12	Assessment of human placental perfusion by intravoxel incoherent motion MR imaging. Journal of Maternal-Fetal and Neonatal Medicine, 2019, 32, 293-300.	1.5	43
13	New criteria for assessing fit quality in dynamic contrast-enhancedT1-weighted MRI for perfusion and permeability imaging. Magnetic Resonance in Medicine, 2005, 54, 868-877.	3.0	40
14	In Vivo Dynamic MRI Measurement of the Noradrenaline-induced Reduction in Placental Blood Flow in Mice. Placenta, 2006, 27, 1007-1013.	1.5	37
15	Chronic Urinary Obstruction: Evaluation of Dynamic Contrast-enhanced MR Urography for Measurement of Split Renal Function. Radiology, 2014, 273, 801-812.	7.3	36
16	Dynamic contrast-enhanced MR imaging to assess physiologic variations of myometrial perfusion. European Radiology, 2010, 20, 984-994.	4.5	35
17	Accuracy of perfusion MRI with high spatial but low temporal resolution to assess invasive breast cancer response to neoadjuvant chemotherapy: a retrospective study. BMC Cancer, 2011, 11, 361.	2.6	35
18	Use of Intravoxel Incoherent Motion MR Imaging to Assess Placental Perfusion in a Murine Model of Placental Insufficiency. Investigative Radiology, 2013, 48, 17-23.	6.2	34

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19	Fetoplacental Oxygenation in an Intrauterine Growth Restriction Rat Model by Using Blood Oxygen Levelâ€“Dependent MR Imaging at 4.7 T. Radiology, 2013, 269, 122-129.	7.3	32
20	Mapping the Zonal Organization of Tumor Perfusion and Permeability in a Rat Glioma Model by Using Dynamic Contrast-enhanced Synchrotron Radiation CT. Radiology, 2009, 250, 692-702.	7.3	31
21	Dynamic contrast enhanced MRI of the placenta: A tool for prenatal diagnosis of placenta accreta?. Placenta, 2017, 53, 40-47.	1.5	31
22	Repeatability of apparent diffusion coefficient and intravoxel incoherent motion parameters at 3.0 Tesla in orbital lesions. European Radiology, 2017, 27, 5094-5103.	4.5	29
23	Bone marrow-derived mesenchymal stem cell-loaded fibrin patches act as a reservoir of paracrine factors in chronic myocardial infarction. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 3417-3427.	2.7	28
24	SPIOâ€enhanced magnetic resonance imaging study of placental perfusion in a rat model of intrauterine growth restriction. BJOG: an International Journal of Obstetrics and Gynaecology, 2012, 119, 626-633.	2.3	27
25	Cardiac Metabolic Deregulation Induced by the Tyrosine Kinase Receptor Inhibitor Sunitinib is rescued by Endothelin Receptor Antagonism. Theranostics, 2017, 7, 2757-2774.	10.0	27
26	Measurement of Placental Perfusion by Dynamic Contrast-Enhanced MRI at 4.7 T. Investigative Radiology, 2013, 48, 535-542.	6.2	22
27	Designing 3D Mesenchymal Stem Cell Sheets Merging Magnetic and Fluorescent Features: When Cell Sheet Technology Meets Image-Guided Cell Therapy. Theranostics, 2016, 6, 739-751.	10.0	22
28	Polymer-Based Reconstruction of the Inferior Vena Cava in Rat: Stem Cells or RGD Peptide?. Tissue Engineering - Part A, 2015, 21, 1552-1564.	3.1	21
29	Signal-to-Noise Ratio Improvement in Dynamic Contrast-enhanced CT and MR Imaging with Automated Principal Component Analysis Filtering. Radiology, 2011, 258, 435-445.	7.3	20
30	Quantifying tumor vascular heterogeneity with DCEâ€MRI in complex adnexal masses: A preliminary study. Journal of Magnetic Resonance Imaging, 2017, 46, 1776-1785.	3.4	20
31	Evaluation of regional myocardial function using automated wall motion analysis of cine MR images: Contribution of parametric images, contraction times, and radial velocities. Journal of Magnetic Resonance Imaging, 2007, 26, 1127-1132.	3.4	18
32	Macromolecular Capillary Leakage Is Involved in the Onset of Anaphylactic Hypotension. Anesthesiology, 2012, 117, 1072-1079.	2.5	18
33	Evaluation of Antitumor Activity of Long-Circulating and pH-Sensitive Liposomes Containing Ursolic Acid in Animal Models of Breast Tumor and Gliosarcoma. Integrative Cancer Therapies, 2016, 15, 512-524.	2.0	15
34	Radiomic analysis of HTR-DCE MR sequences improves diagnostic performance compared to BI-RADS analysis of breast MR lesions. European Radiology, 2021, 31, 4848-4859.	4.5	15
35	Evaluation of antiangiogenic treatment effects on tumors' microcirculation by Bayesian physiological pharmacokinetic modeling and magnetic resonance imaging. Magnetic Resonance Imaging, 2006, 24, 1059-1067.	1.8	14
36	Assessment of Placental Perfusion in the Preeclampsia L-NAME Rat Model with High-Field Dynamic Contrast-Enhanced MRI. Fetal Diagnosis and Therapy, 2018, 44, 277-284.	1.4	14

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37	Qualityâ€based pharmacokinetic model selection on DCEâ€MRI for characterizing orbital lesions. Journal of Magnetic Resonance Imaging, 2019, 50, 1514-1525.	3.4	14
38	MR perfusion for pelvic female imaging. Diagnostic and Interventional Imaging, 2013, 94, 1291-1298.	3.2	13
39	RODES software for dose assessment of rats and mice contaminated with radionuclides. Journal of Radiological Protection, 2017, 37, 214-229.	1.1	13
40	Concurrent imaging of vascularization and metabolism in a mouse model of paraganglioma under anti-angiogenic treatment. Theranostics, 2020, 10, 3518-3532.	10.0	12
41	Evaluation of an edge-based registration method: application to magnetic resonance first-pass myocardial perfusion data. Magnetic Resonance Imaging, 2011, 29, 853-860.	1.8	9
42	MULTIVARIATE MATHEMATICAL MORPHOLOGY FOR DCE-MRI IMAGE ANALYSIS IN ANGIOGENESIS STUDIES. Image Analysis and Stereology, 2015, 34, 1.	0.9	7
43	Sunitinib-induced cardiac hypertrophy and the endothelin axis. Theranostics, 2021, 11, 3830-3838.	10.0	7
44	Application of rodes software to experimental biokinetic data for dose assessment in mice and rats. Journal of Radiological Protection, 2017, 37, 564-583.	1.1	6
45	Full-field optical coherence tomography for the diagnosis of giant cell arteritis. PLoS ONE, 2020, 15, e0234165.	2.5	6
46	Human placental perfusion measured using dynamic contrast enhancement MRI. PLoS ONE, 2021, 16, e0256769.	2.5	5
47	Blood-Brain Barrier Leakage in Early Alzheimer Disease. Radiology, 2017, 282, 923-925.	7.3	4
48	Non-invasive assessment of placental perfusion in vivo using arterial spin labeling (ASL) MRI: A preclinical study in rats. Placenta, 2019, 77, 39-45.	1.5	4
49	Ultrafast Ultrasound Imaging for Super-Resolution Preclinical Cardiac PET. Molecular Imaging and Biology, 2020, 22, 1342-1352.	2.6	4
50	Evaluation of Rat Heart Microvasculature with High-Spatial-Resolution Susceptibility-weighted MR Imaging. Radiology, 2013, 269, 277-282.	7.3	3
51	Assessment of BOLD response in the fetal lung. European Radiology, 2021, 31, 3090-3097.	4.5	3
52	FIBER-ML, an Open-Source Supervised Machine Learning Tool for Quantification of Fibrosis in Tissue Sections. American Journal of Pathology, 2022, 192, 783-793.	3.8	3
53	Antitumoral Effect of Mural Cells Assessed With High-Resolution MRI and Fluorescence Microscopy. American Journal of Roentgenology, 2015, 205, W11-W18.	2.2	2
54	Implementation of a Product Lifecycle Management System for Biomedical Research. IFIP Advances in Information and Communication Technology, 2022, , 185-199.	0.7	2

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55	Reproducibility of Dynamic Contrast-enhanced MR Imaging. Radiology, 2013, 269, 620-621.	7.3	1
56	Multiparametric optical and MR imaging demonstrate inhibition of tumor angiogenesis natural history by mural cell therapy. Magnetic Resonance in Medicine, 2014, 72, 841-849.	3.0	1
57	Reproducibility of Dynamic Contrast-enhanced MR Imaging. Radiology, 2013, 269, 620-621.	7.3	1
58	The BMS-LM ontology for biomedical data reporting throughout the lifecycle of a research study: From data model to ontology. Journal of Biomedical Informatics, 2022, 127, 104007.	4.3	1
59	Tumor Imaging. , 0, , 277-309.		0
60	Response to characterization of orbital masses by multiparametric MRI. European Journal of Radiology, 2016, 85, 1686-1687.	2.6	0
61	Dynamic contrast enhanced â€“ MRI efficiency in detecting embolization-induced perfusion defects in a rabbit model of critical-limb-ischemia. Magnetic Resonance Imaging, 2022, 87, 88-96.	1.8	0