Dimitrios Mitsouras

List of Publications by Citations

55 papers	1,975 citations	19 h-index	44 g-index
57 ext. papers	2,317 ext. citations	4 avg, IF	4.51 L-index

#	Paper	IF	Citations
55	Initial evaluation of coronary images from 320-detector row computed tomography. *International Journal of Cardiovascular Imaging*, **2008**, 24, 535-46	2.5	447
54	Narrowing the phase window width in prospectively ECG-gated single heart beat 320-detector row coronary CT angiography. *International Journal of Cardiovascular Imaging*, **2009**, 25, 85-90	2.5	141
53	3D printing based on cardiac CT assists anatomic visualization prior to transcatheter aortic valve replacement. *Journal of Cardiovascular Computed Tomography*, **2016**, 10, 28-36	2.8	140
52	Measuring and Establishing the Accuracy and Reproducibility of 3D Printed Medical Models. *Radiographics*, **2017**, 37, 1424-1450	5.4	133
51	Iodinated contrast opacification gradients in normal coronary arteries imaged with prospectively ECG-gated single heart beat 320-detector row computed tomography. *Circulation: Cardiovascular Imaging*, **2010**, 3, 179-86	3.9	116
50	Radiological Society of North America (RSNA) 3D printing Special Interest Group (SIG): guidelines for medical 3D printing and appropriateness for clinical scenarios. *3D Printing in Medicine*, **2018**, 4, 11	5	116
49	Natural Language Processing Technologies in Radiology Research and Clinical Applications. *Radiographics*, **2016**, 36, 176-91	5.4	115
48	Evaluation of artery visualizations for heart disease diagnosis. *IEEE Transactions on Visualization and Computer Graphics*, **2011**, 17, 2479-88	4	93
47	Applying Modern Virtual and Augmented Reality Technologies to Medical Images and Models. *Journal of Digital Imaging*, **2019**, 32, 38-53	5.3	60
46	Three-dimensional printing of MRI-visible phantoms and MR image-guided therapy simulation. *Magnetic Resonance in Medicine*, **2017**, 77, 613-622	4.4	48
45	Accurate and reproducible reconstruction of coronary arteries and endothelial shear stress calculation using 3D OCT: comparative study to 3D IVUS and 3D QCA. *Atherosclerosis*, **2015**, 240, 510-9	3.1	44
44	Early remodeling of lower extremity vein grafts: inflammation influences biomechanical adaptation. *Journal of Vascular Surgery*, **2008**, 47, 1235-42	3.5	44
43	3D printed ventricular septal defect patch: a primer for the 2015 Radiological Society of North America (RSNA) hands-on course in 3D printing. *3D Printing in Medicine*, **2015**, 1, 3	5	42
42	Lung Parenchymal Signal Intensity in MRI: A Technical Review with Educational Aspirations Regarding Reversible Versus Irreversible Transverse Relaxation Effects in Common Pulse Sequences. *Concepts in Magnetic Resonance Part A: Bridging Education and Research*, **2014**, 43A, 29-53	0.6	29
41	Preoperative vascular mapping for facial allotransplantation: four-dimensional computed tomographic angiography versus magnetic resonance angiography. *Plastic and Reconstructive Surgery*, **2011**, 128, 883-891	2.7	27
40	Medical 3D printing: methods to standardize terminology and report trends. *3D Printing in Medicine* , **2017**, 3, 4	5	26
39	Update: Medical 3D Printing for the Radiologist. *Radiographics*, **2020**, 40, E21-E23	5.4	23

38	Cost-effective diagnostic cardiovascular imaging: when does it provide good value for the money?. *International Journal of Cardiovascular Imaging*, **2010**, 26, 605-12	2.5	20
37	Association of global and local low endothelial shear stress with high-risk plaque using intracoronary 3D optical coherence tomography: Introduction of ‘shear stress score’. *European Heart Journal Cardiovascular Imaging*, **2017**, 18, 888-897	4.1	19
36	Reduced exposure using asymmetric cone beam processing for wide area detector cardiac CT. *International Journal of Cardiovascular Imaging*, **2012**, 28, 381-8	2.5	19
35	Coronary pressure-derived fractional flow reserve in the assessment of coronary artery stenoses. *European Radiology*, **2013**, 23, 958-67	8	18
34	New advances in cardiac computed tomography. *Current Opinion in Cardiology*, **2009**, 24, 596-603	2.1	18
33	Medical 3D printing for vascular interventions and surgical oncology: a primer for the 2016 radiological society of North America (RSNA) hands-on course in 3D printing. *3D Printing in Medicine* , **2015**, 2, 5	5	18
32	Clinical applications of three-dimensional printing in otolaryngology-head and neck surgery: A systematic review. *Laryngoscope*, **2019**, 129, 2045-2052	3.6	17
31	Quantifying the effect of side branches in endothelial shear stress estimates. *Atherosclerosis*, **2016**, 251, 213-218	3.1	17
30	Utility and reproducibility of 3-dimensional printed models in pre-operative planning of complex thoracic tumors. *Journal of Surgical Oncology*, **2017**, 116, 407-415	2.8	15
29	On the lorentzian versus Gaussian character of time-domain spin-echo signals from the brain as sampled by means of gradient-echoes: Implications for quantitative transverse relaxation studies. *Magnetic Resonance in Medicine*, **2015**, 74, 51-62	4.4	14
28	Surgical planning for composite tissue allotransplantation of the face using 320-detector row computed tomography. *Journal of Computer Assisted Tomography*, **2010**, 34, 766-9	2.2	14
27	Accuracy and reproducibility of automated, standardized coronary transluminal attenuation gradient measurements. *International Journal of Cardiovascular Imaging*, **2014**, 30, 1181-9	2.5	13
26	Combined non-invasive assessment of endothelial shear stress and molecular imaging of inflammation for the prediction of inflamed plaque in hyperlipidaemic rabbit aortas. *European Heart Journal Cardiovascular Imaging*, **2017**, 18, 19-30	4.1	12
25	Endocardial irregularities of the left atrial roof as seen on coronary CT angiography. *International Journal of Cardiovascular Imaging*, **2008**, 24, 729-34	2.5	12
24	Preoperative planning and tracheal stent design in thoracic surgery: a primer for the 2017 Radiological Society of North America (RSNA) hands-on course in 3D printing. *3D Printing in Medicine*, **2017**, 3, 14	5	10
23	Initial Simulated FFR Investigation Using Flow Measurements in Patient-specific 3D Printed Coronary Phantoms. *Proceedings of SPIE*, **2017**, 10138,	1.7	8
22	Common First-Pass CT Angiography Findings Associated With Rapid Growth Rate in Abdominal Aorta Aneurysms Between 3 and 5 cm in Largest Diameter. *American Journal of Roentgenology*, **2018**, 210, 431-437	5.4	8
21	Initial evaluation of three-dimensionally printed patient-specific coronary phantoms for CT-FFR software validation. *Journal of Medical Imaging*, **2019**, 6, 021603	2.6	8

20	Advanced 3D Mesh Manipulation in Stereolithographic Files and Post-Print Processing for the Manufacturing of Patient-Specific Vascular Flow Phantoms. *Proceedings of SPIE*, **2016**, 9789,	1.7	8
19	Incorporating reversible and irreversible transverse relaxation effects into Steady State Free Precession (SSFP) signal intensity expressions for fMRI considerations. *Magnetic Resonance Imaging* , **2013**, 31, 346-52	3.3	7
18	Multi-contrast high spatial resolution black blood inner volume three-dimensional fast spin echo MR imaging in peripheral vein bypass grafts. *International Journal of Cardiovascular Imaging*, **2010**, 26, 683-91	2.5	7
17	Reduced radiation exposure for face transplant surgical planning computed tomography angiography. *PLoS ONE*, **2013**, 8, e63079	3.7	7
16	Risk assessment of atherosclerotic plaques based on global biomechanics. *Medical Engineering and Physics*, **2013**, 35, 1290-7; discussion 1290	2.4	6
15	Lower extremity peripheral vein bypass graft wall thickness changes demonstrated at 1 and 6 months after surgery with ultra-high spatial resolution black blood inner volume three-dimensional fast spin echo magnetic resonance imaging. *International Journal of Cardiovascular Imaging*, **2008**,	2.5	6
14	Contrast inhomogeneity in CT angiography of the abdominal aortic aneurysm. *Journal of Cardiovascular Computed Tomography*, **2016**, 10, 179-83	2.8	5
13	Targeted Nanoparticle Binding to Hydroxyapatite in a High Serum Environment for Early Detection of Heart Disease. *ACS Applied Nano Materials*, **2018**, 1, 4927-4939	5.6	4
12	Transcatheter Mustard Revision Using Endovascular Graft Prostheses. *Annals of Thoracic Surgery*, **2017**, 103, e509-e512	2.7	3
11	3D-Printed Patient-Specific Models for CT- and MRI-Guided Procedure Planning. *American Journal of Neuroradiology*, **2017**, 38, E46-E47	4.4	3
10	Immobilization of iron oxide magnetic nanoparticles for enhancement of vessel wall magnetic resonance imaging--an ex vivo feasibility study. *Bioconjugate Chemistry*, **2010**, 21, 1408-12	6.3	3
9	Assessment of Superparamagnetic Iron Oxide Nanoparticle Poly(Ethylene Glycol) Coatings on Magnetic Resonance Relaxation for Early Disease Detection. *IEEE Open Journal of Engineering in Medicine and Biology*, **2020**, 1, 116-122	5.9	3
8	Deep neural network-based detection and segmentation of intracranial aneurysms on 3D rotational DSA. *Interventional Neuroradiology*, **2021**, 27, 648-657	1.9	3
7	Initial evaluation of a convolutional neural network used for noninvasive assessment of coronary artery disease severity from coronary computed tomography angiography data. *Medical Physics*, **2020**, 47, 3996-4004	4.4	2
6	Improved Appropriateness of Advanced Diagnostic Imaging After Implementation of Clinical Decision Support Mechanism. *Journal of Digital Imaging*, **2021**, 34, 397-403	5.3	2
5	Enhancing the acquisition efficiency of fast magnetic resonance imaging via broadband encoding of signal content. *Magnetic Resonance Imaging*, **2006**, 24, 1209-27	3.3	1
4	High-Risk Plaque Regression and Stabilization: Hybrid Noninvasive Morphological and Hemodynamic Assessment. *Circulation: Cardiovascular Imaging*, **2018**, 11, e007888	3.9	1
3	Computer-aided quantification of non-contrast 3D black blood MRI as an efficient alternative to reference standard manual CT angiography measurements of abdominal aortic aneurysms. *European Journal of Radiology*, **2021**, 134, 109396	4.7	0

2	Early animal model evaluation of an implantable contrast agent to enhance magnetic resonance imaging of arterial bypass vein grafts. *Acta Radiologica*, **2018**, 59, 1074-1081	2
1	Abdominal aortic aneurysm measurement at CT/MRI: potential clinical ramifications of non-standardized measurement technique and importance of multiplanar reformation. *Quantitative Imaging in Medicine and Surgery*, **2021**, 11, 823-830	3.6