

# Dimitrios Mitsouras

## List of Publications by Year in Descending Order

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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.

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	Deep neural network-based detection and segmentation of intracranial aneurysms on 3D rotational DSA. <i>Interventional Neuroradiology</i> , <b>2021</b> , 27, 648-657	1.9	3
54	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. <i>European Journal of Radiology</i> , <b>2021</b> , 134, 109396	4.7	0
53	Abdominal aortic aneurysm measurement at CT/MRI: potential clinical ramifications of non-standardized measurement technique and importance of multiplanar reformation. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2021</b> , 11, 823-830	3.6	
52	Improved Appropriateness of Advanced Diagnostic Imaging After Implementation of Clinical Decision Support Mechanism. <i>Journal of Digital Imaging</i> , <b>2021</b> , 34, 397-403	5.3	2
51	Initial evaluation of a convolutional neural network used for noninvasive assessment of coronary artery disease severity from coronary computed tomography angiography data. <i>Medical Physics</i> , <b>2020</b> , 47, 3996-4004	4.4	2
50	Update: Medical 3D Printing for the Radiologist. <i>Radiographics</i> , <b>2020</b> , 40, E21-E23	5.4	23
49	Assessment of Superparamagnetic Iron Oxide Nanoparticle Poly(Ethylene Glycol) Coatings on Magnetic Resonance Relaxation for Early Disease Detection. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , <b>2020</b> , 1, 116-122	5.9	3
48	Clinical applications of three-dimensional printing in otolaryngology-head and neck surgery: A systematic review. <i>Laryngoscope</i> , <b>2019</b> , 129, 2045-2052	3.6	17
47	Initial evaluation of three-dimensionally printed patient-specific coronary phantoms for CT-FFR software validation. <i>Journal of Medical Imaging</i> , <b>2019</b> , 6, 021603	2.6	8
46	Applying Modern Virtual and Augmented Reality Technologies to Medical Images and Models. <i>Journal of Digital Imaging</i> , <b>2019</b> , 32, 38-53	5.3	60
45	Early animal model evaluation of an implantable contrast agent to enhance magnetic resonance imaging of arterial bypass vein grafts. <i>Acta Radiologica</i> , <b>2018</b> , 59, 1074-1081	2	
44	Common First-Pass CT Angiography Findings Associated With Rapid Growth Rate in Abdominal Aorta Aneurysms Between 3 and 5 cm in Largest Diameter. <i>American Journal of Roentgenology</i> , <b>2018</b> , 210, 431-437	5.4	8
43	Targeted Nanoparticle Binding to Hydroxyapatite in a High Serum Environment for Early Detection of Heart Disease. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 4927-4939	5.6	4
42	Radiological Society of North America (RSNA) 3D printing Special Interest Group (SIG): guidelines for medical 3D printing and appropriateness for clinical scenarios. <i>3D Printing in Medicine</i> , <b>2018</b> , 4, 11	5	116
41	High-Risk Plaque Regression and Stabilization: Hybrid Noninvasive Morphological and Hemodynamic Assessment. <i>Circulation: Cardiovascular Imaging</i> , <b>2018</b> , 11, e007888	3.9	1
40	Combined non-invasive assessment of endothelial shear stress and molecular imaging of inflammation for the prediction of inflamed plaque in hyperlipidaemic rabbit aortas. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2017</b> , 18, 19-30	4.1	12
39	Three-dimensional printing of MRI-visible phantoms and MR image-guided therapy simulation. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 613-622	4.4	48

38	Transcatheter Mustard Revision Using Endovascular Graft Prostheses. <i>Annals of Thoracic Surgery</i> , <b>2017</b> , 103, e509-e512	2.7	3
37	Medical 3D printing: methods to standardize terminology and report trends. <i>3D Printing in Medicine</i> , <b>2017</b> , 3, 4	5	26
36	Initial Simulated FFR Investigation Using Flow Measurements in Patient-specific 3D Printed Coronary Phantoms. <i>Proceedings of SPIE</i> , <b>2017</b> , 10138,	1.7	8
35	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. <i>3D Printing in Medicine</i> , <b>2017</b> , 3, 14	5	10
34	3D-Printed Patient-Specific Models for CT- and MRI-Guided Procedure Planning. <i>American Journal of Neuroradiology</i> , <b>2017</b> , 38, E46-E47	4.4	3
33	Utility and reproducibility of 3-dimensional printed models in pre-operative planning of complex thoracic tumors. <i>Journal of Surgical Oncology</i> , <b>2017</b> , 116, 407-415	2.8	15
32	Measuring and Establishing the Accuracy and Reproducibility of 3D Printed Medical Models. <i>Radiographics</i> , <b>2017</b> , 37, 1424-1450	5.4	133
31	Association of global and local low endothelial shear stress with high-risk plaque using intracoronary 3D optical coherence tomography: Introduction of Shear stress scoreT <i>European Heart Journal Cardiovascular Imaging</i> , <b>2017</b> , 18, 888-897	4.1	19
30	Quantifying the effect of side branches in endothelial shear stress estimates. <i>Atherosclerosis</i> , <b>2016</b> , 251, 213-218	3.1	17
29	Natural Language Processing Technologies in Radiology Research and Clinical Applications. <i>Radiographics</i> , <b>2016</b> , 36, 176-91	5.4	115
28	Contrast inhomogeneity in CT angiography of the abdominal aortic aneurysm. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2016</b> , 10, 179-83	2.8	5
27	3D printing based on cardiac CT assists anatomic visualization prior to transcatheter aortic valve replacement. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2016</b> , 10, 28-36	2.8	140
26	Advanced 3D Mesh Manipulation in Stereolithographic Files and Post-Print Processing for the Manufacturing of Patient-Specific Vascular Flow Phantoms. <i>Proceedings of SPIE</i> , <b>2016</b> , 9789,	1.7	8
25	Accurate and reproducible reconstruction of coronary arteries and endothelial shear stress calculation using 3D OCT: comparative study to 3D IVUS and 3D QCA. <i>Atherosclerosis</i> , <b>2015</b> , 240, 510-9	3.1	44
24	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. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 51-62	4.4	14
23	3D printed ventricular septal defect patch: a primer for the 2015 Radiological Society of North America (RSNA) hands-on course in 3D printing. <i>3D Printing in Medicine</i> , <b>2015</b> , 1, 3	5	42
22	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. <i>3D Printing in Medicine</i> , <b>2015</b> , 2, 5	5	18
21	Accuracy and reproducibility of automated, standardized coronary transluminal attenuation gradient measurements. <i>International Journal of Cardiovascular Imaging</i> , <b>2014</b> , 30, 1181-9	2.5	13

20	Lung Parenchymal Signal Intensity in MRI: A Technical Review with Educational Aspirations Regarding Reversible Versus Irreversible Transverse Relaxation Effects in Common Pulse Sequences. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , <b>2014</b> , 43A, 29-53	0.6	29
19	Incorporating reversible and irreversible transverse relaxation effects into Steady State Free Precession (SSFP) signal intensity expressions for fMRI considerations. <i>Magnetic Resonance Imaging</i> , <b>2013</b> , 31, 346-52	3.3	7
18	Coronary pressure-derived fractional flow reserve in the assessment of coronary artery stenoses. <i>European Radiology</i> , <b>2013</b> , 23, 958-67	8	18
17	Risk assessment of atherosclerotic plaques based on global biomechanics. <i>Medical Engineering and Physics</i> , <b>2013</b> , 35, 1290-7; discussion 1290	2.4	6
16	Reduced radiation exposure for face transplant surgical planning computed tomography angiography. <i>PLoS ONE</i> , <b>2013</b> , 8, e63079	3.7	7
15	Reduced exposure using asymmetric cone beam processing for wide area detector cardiac CT. <i>International Journal of Cardiovascular Imaging</i> , <b>2012</b> , 28, 381-8	2.5	19
14	Preoperative vascular mapping for facial allotransplantation: four-dimensional computed tomographic angiography versus magnetic resonance angiography. <i>Plastic and Reconstructive Surgery</i> , <b>2011</b> , 128, 883-891	2.7	27
13	Evaluation of artery visualizations for heart disease diagnosis. <i>IEEE Transactions on Visualization and Computer Graphics</i> , <b>2011</b> , 17, 2479-88	4	93
12	Iodinated contrast opacification gradients in normal coronary arteries imaged with prospectively ECG-gated single heart beat 320-detector row computed tomography. <i>Circulation: Cardiovascular Imaging</i> , <b>2010</b> , 3, 179-86	3.9	116
11	Immobilization of iron oxide magnetic nanoparticles for enhancement of vessel wall magnetic resonance imaging--an ex vivo feasibility study. <i>Bioconjugate Chemistry</i> , <b>2010</b> , 21, 1408-12	6.3	3
10	Surgical planning for composite tissue allotransplantation of the face using 320-detector row computed tomography. <i>Journal of Computer Assisted Tomography</i> , <b>2010</b> , 34, 766-9	2.2	14
9	Multi-contrast high spatial resolution black blood inner volume three-dimensional fast spin echo MR imaging in peripheral vein bypass grafts. <i>International Journal of Cardiovascular Imaging</i> , <b>2010</b> , 26, 683-91	2.5	7
8	Cost-effective diagnostic cardiovascular imaging: when does it provide good value for the money?. <i>International Journal of Cardiovascular Imaging</i> , <b>2010</b> , 26, 605-12	2.5	20
7	Narrowing the phase window width in prospectively ECG-gated single heart beat 320-detector row coronary CT angiography. <i>International Journal of Cardiovascular Imaging</i> , <b>2009</b> , 25, 85-90	2.5	141
6	New advances in cardiac computed tomography. <i>Current Opinion in Cardiology</i> , <b>2009</b> , 24, 596-603	2.1	18
5	Early remodeling of lower extremity vein grafts: inflammation influences biomechanical adaptation. <i>Journal of Vascular Surgery</i> , <b>2008</b> , 47, 1235-42	3.5	44
4	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. <i>International Journal of Cardiovascular Imaging</i> , <b>2008</b> , 24, 529-33	2.5	6
3	Initial evaluation of coronary images from 320-detector row computed tomography. <i>International Journal of Cardiovascular Imaging</i> , <b>2008</b> , 24, 535-46	2.5	447

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| 2 | Endocardial irregularities of the left atrial roof as seen on coronary CT angiography. <i>International Journal of Cardiovascular Imaging</i> , <b>2008</b> , 24, 729-34        | 2.5 | 12 |
| 1 | Enhancing the acquisition efficiency of fast magnetic resonance imaging via broadband encoding of signal content. <i>Magnetic Resonance Imaging</i> , <b>2006</b> , 24, 1209-27 | 3.3 | 1  |