Dimitrios Mitsouras

List of Publications by Year
in descending order

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57	2,634	331538	189801
papers	citations	21 h-index	50 g-index

57	57	57	3051
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Initial evaluation of coronary images from 320-detector row computed tomography. International Journal of Cardiovascular Imaging, 2008, 24, 535-546.	0.7	515
2	Measuring and Establishing the Accuracy and Reproducibility of 3D Printed Medical Models. Radiographics, 2017, 37, 1424-1450.	1.4	196
3	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.	1.7	187
4	3D printing based on cardiac CT assists anatomic visualization prior to transcatheter aortic valve replacement. Journal of Cardiovascular Computed Tomography, 2016, 10, 28-36.	0.7	172
5	Applying Modern Virtual and Augmented Reality Technologies to Medical Images and Models. Journal of Digital Imaging, 2019, 32, 38-53.	1.6	168
6	Natural Language Processing Technologies in Radiology Research and Clinical Applications. Radiographics, 2016, 36, 176-191.	1.4	161
7	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.	0.7	153
8	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, 179-186.	1.3	138
9	Evaluation of Artery Visualizations for Heart Disease Diagnosis. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2479-2488.	2.9	123
10	Threeâ€dimensional printing of MRIâ€visible phantoms and MR imageâ€guided therapy simulation. Magnetic Resonance in Medicine, 2017, 77, 613-622.	1.9	61
11	RadioGraphics Update: Medical 3D Printing for the Radiologist. Radiographics, 2020, 40, E21-E23.	1.4	58
12	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, 510-519.	0.4	55
13	Early remodeling of lower extremity vein grafts: Inflammation influences biomechanical adaptation. Journal of Vascular Surgery, 2008, 47, 1235-1242.	0.6	51
14	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.	1.7	48
15	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.	0.2	33
16	Medical 3D printing: methods to standardize terminology and report trends. 3D Printing in Medicine, 2017, 3, 4.	1.7	33
17	Preoperative Vascular Mapping for Facial Allotransplantation. Plastic and Reconstructive Surgery, 2011, 128, 883-891.	0.7	32
18	Clinical applications of threeâ€dimensional printing in otolaryngologyâ€“head and neck surgery: A systematic review. Laryngoscope, 2019, 129, 2045-2052.	1.1	32

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19	Cost-effective diagnostic cardiovascular imaging: when does it provide good value for the money?. International Journal of Cardiovascular Imaging, 2010, 26, 605-612.	0.7	28
20	Association of global and local low endothelial shear stress with high-risk plaque using intracoronary 3D optical coherence tomography: Introduction of â€˜shear stress scoreâ€™. European Heart Journal Cardiovascular Imaging, 2017, 18, 888-897.	0.5	25
21	Coronary pressure-derived fractional flow reserve in the assessment of coronary artery stenoses. European Radiology, 2013, 23, 958-967.	2.3	24
22	Utility and reproducibility of 3â€dimensional printed models in preâ€operative planning of complex thoracic tumors. Journal of Surgical Oncology, 2017, 116, 407-415.	0.8	24
23	Quantifying the effect of side branches in endothelial shear stress estimates. Atherosclerosis, 2016, 251, 213-218.	0.4	23
24	New advances in cardiac computed tomography. Current Opinion in Cardiology, 2009, 24, 596-603.	0.8	21
25	Reduced exposure using asymmetric cone beam processing for wide area detector cardiac CT. International Journal of Cardiovascular Imaging, 2012, 28, 381-388.	0.7	21
26	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, 2016, 2, 5.	1.7	20
27	On the lorentzian versus Gaussian character of timeâ€domain spinâ€echo signals from the brain as sampled by means of gradientâ€echoes: Implications for quantitative transverse relaxation studies. Magnetic Resonance in Medicine, 2015, 74, 51-62.	1.9	18
28	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.	0.5	17
29	Accuracy and reproducibility of automated, standardized coronary transluminal attenuation gradient measurements. International Journal of Cardiovascular Imaging, 2014, 30, 1181-1189.	0.7	16
30	Endocardial irregularities of the left atrial roof as seen on coronary CT angiography. International Journal of Cardiovascular Imaging, 2008, 24, 729-734.	0.7	14
31	Surgical Planning for Composite Tissue Allotransplantation of the Face Using 320-Detector Row Computed Tomography. Journal of Computer Assisted Tomography, 2010, 34, 766-769.	0.5	14
32	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.	1.7	12
33	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.	1.0	12
34	Initial simulated FFR investigation using flow measurements in patient-specific 3D printed coronary phantoms. , 2017, 10138, .		11
35	Deep neural network-based detection and segmentation of intracranial aneurysms on 3D rotational DSA. Interventional Neuroradiology, 2021, 27, 648-657.	0.7	11
36	Advanced 3D mesh manipulation in stereolithographic files and post-print processing for the manufacturing of patient-specific vascular flow phantoms. , 2016, 9789, .		10

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37	Initial evaluation of three-dimensionally printed patient-specific coronary phantoms for CT-FFR software validation. Journal of Medical Imaging, 2019, 6, 1.	0.8	8
38	Lower extremity peripheral vein bypass graft wall thickness changes demonstrated at 1 and 6Âmonths 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, 24, 529-533.	0.7	7
39	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, 683-691.	0.7	7
40	Incorporating reversible and irreversible transverse relaxation effects into Steady State Free Precession (SSFP) signal intensity expressions for fMRI considerations. Magnetic Resonance Imaging, 2013, 31, 346-352.	1.0	7
41	Risk assessment of atherosclerotic plaques based on global biomechanics. Medical Engineering and Physics, 2013, 35, 1290-1297.	0.8	7
42	Targeted Nanoparticle Binding to Hydroxyapatite in a High Serum Environment for Early Detection of Heart Disease. ACS Applied Nano Materials, 2018, 1, 4927-4939.	2.4	7
43	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.	1.6	7
44	Reduced Radiation Exposure for Face Transplant Surgical Planning Computed Tomography Angiography. PLoS ONE, 2013, 8, e63079.	1.1	7
45	Contrast inhomogeneity in CT angiography of the abdominal aortic aneurysm. Journal of Cardiovascular Computed Tomography, 2016, 10, 179-183.	0.7	6
46	Improved Appropriateness of Advanced Diagnostic Imaging After Implementation of Clinical Decision Support Mechanism. Journal of Digital Imaging, 2021, 34, 397-403.	1.6	6
47	Transcatheter Mustard Revision Using Endovascular Graft Prostheses. Annals of Thoracic Surgery, 2017, 103, e509-e512.	0.7	5
48	3D-Printed Patient-Specific Models for CT- and MRI-Guided Procedure Planning. American Journal of Neuroradiology, 2017, 38, E46-E47.	1.2	5
49	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.	1.7	5
50	Immobilization of Iron Oxide Magnetic Nanoparticles for Enhancement of Vessel Wall Magnetic Resonance Imagingâ€"AnEx VivoFeasibility Study. Bioconjugate Chemistry, 2010, 21, 1408-1412.	1.8	3
51	Expanding the Radiologistâ€™s Arsenal against Abdominal Aortic Aneurysms, a Versatile Adversary. Radiology, 2020, 295, 730-732.	3.6	3
52	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.	1.2	3
53	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.	1.1	2
54	Enhancing the acquisition efficiency of fast magnetic resonance imaging via broadband encoding of signal content. Magnetic Resonance Imaging, 2006, 24, 1209-1227.	1.0	1

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55	High-Risk Plaque Regression and Stabilization. Circulation: Cardiovascular Imaging, 2018, 11, e007888.	1.3	1
56	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.	0.5	0
57	A Radiologistâ€™s Excursion in Four-dimensional Flow and the Bicuspid Aortic Valve: Vorticity, Helicity, Wall Shear Stress, and All That. Radiology, 2019, 293, 551-553.	3.6	0