

Dimitrios Mitsouras

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,634
citations

331259

21
h-index

189595

50
g-index

57
all docs

57
docs citations

57
times ranked

3051
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2021, 134, 109396.	1.2	3
2	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> , 2021, 11, 823-830.	1.1	2
3	Improved Appropriateness of Advanced Diagnostic Imaging After Implementation of Clinical Decision Support Mechanism. <i>Journal of Digital Imaging</i> , 2021, 34, 397-403.	1.6	6
4	Deep neural network-based detection and segmentation of intracranial aneurysms on 3D rotational DSA. <i>Interventional Neuroradiology</i> , 2021, 27, 648-657.	0.7	11
5	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> , 2020, 1, 116-122.	1.7	5
6	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> , 2020, 47, 3996-4004.	1.6	7
7	<i>RadioGraphics</i> Update: Medical 3D Printing for the Radiologist. <i>Radiographics</i> , 2020, 40, E21-E23.	1.4	58
8	Expanding the Radiologist's Arsenal against Abdominal Aortic Aneurysms, a Versatile Adversary. <i>Radiology</i> , 2020, 295, 730-732.	3.6	3
9	A Radiologist's Excursion in Four-dimensional Flow and the Bicuspid Aortic Valve: Vorticity, Helicity, Wall Shear Stress, and All That. <i>Radiology</i> , 2019, 293, 551-553.	3.6	0
10	Clinical applications of three-dimensional printing in otolaryngology—head and neck surgery: A systematic review. <i>Laryngoscope</i> , 2019, 129, 2045-2052.	1.1	32
11	Applying Modern Virtual and Augmented Reality Technologies to Medical Images and Models. <i>Journal of Digital Imaging</i> , 2019, 32, 38-53.	1.6	168
12	Initial evaluation of three-dimensionally printed patient-specific coronary phantoms for CT-FFR software validation. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	0.8	8
13	Early animal model evaluation of an implantable contrast agent to enhance magnetic resonance imaging of arterial bypass vein grafts. <i>Acta Radiologica</i> , 2018, 59, 1074-1081.	0.5	0
14	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> , 2018, 210, 431-437.	1.0	12
15	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> , 2018, 4, 11.	1.7	187
16	High-Risk Plaque Regression and Stabilization. <i>Circulation: Cardiovascular Imaging</i> , 2018, 11, e007888.	1.3	1
17	Targeted Nanoparticle Binding to Hydroxyapatite in a High Serum Environment for Early Detection of Heart Disease. <i>ACS Applied Nano Materials</i> , 2018, 1, 4927-4939.	2.4	7
18	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> , 2017, 18, 19-30.	0.5	17

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19	Three-dimensional printing of MRI-visible phantoms and MR image-guided therapy simulation. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 613-622.	1.9	61
20	Transcatheter Mustard Revision Using Endovascular Graft Prostheses. <i>Annals of Thoracic Surgery</i> , 2017, 103, e509-e512.	0.7	5
21	Medical 3D printing: methods to standardize terminology and report trends. <i>3D Printing in Medicine</i> , 2017, 3, 4.	1.7	33
22	Initial simulated FFR investigation using flow measurements in patient-specific 3D printed coronary phantoms. , 2017, 10138, .		11
23	3D-Printed Patient-Specific Models for CT- and MRI-Guided Procedure Planning. <i>American Journal of Neuroradiology</i> , 2017, 38, E46-E47.	1.2	5
24	Utility and reproducibility of 3-dimensional printed models in pre-operative planning of complex thoracic tumors. <i>Journal of Surgical Oncology</i> , 2017, 116, 407-415.	0.8	24
25	Measuring and Establishing the Accuracy and Reproducibility of 3D Printed Medical Models. <i>Radiographics</i> , 2017, 37, 1424-1450.	1.4	196
26	Association of global and local low endothelial shear stress with high-risk plaque using intracoronary 3D optical coherence tomography: Introduction of a shear stress score™. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 888-897.	0.5	25
27	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> , 2017, 3, 14.	1.7	12
28	Advanced 3D mesh manipulation in stereolithographic files and post-print processing for the manufacturing of patient-specific vascular flow phantoms. , 2016, 9789, .		10
29	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> , 2016, 2, 5.	1.7	20
30	Quantifying the effect of side branches in endothelial shear stress estimates. <i>Atherosclerosis</i> , 2016, 251, 213-218.	0.4	23
31	Natural Language Processing Technologies in Radiology Research and Clinical Applications. <i>Radiographics</i> , 2016, 36, 176-191.	1.4	161
32	Contrast inhomogeneity in CT angiography of the abdominal aortic aneurysm. <i>Journal of Cardiovascular Computed Tomography</i> , 2016, 10, 179-183.	0.7	6
33	3D printing based on cardiac CT assists anatomic visualization prior to transcatheter aortic valve replacement. <i>Journal of Cardiovascular Computed Tomography</i> , 2016, 10, 28-36.	0.7	172
34	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> , 2015, 74, 51-62.	1.9	18
35	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> , 2015, 1, 3.	1.7	48
36	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> , 2015, 240, 510-519.	0.4	55

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37	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
38	Accuracy and reproducibility of automated, standardized coronary transluminal attenuation gradient measurements. International Journal of Cardiovascular Imaging, 2014, 30, 1181-1189.	0.7	16
39	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
40	Coronary pressure-derived fractional flow reserve in the assessment of coronary artery stenoses. European Radiology, 2013, 23, 958-967.	2.3	24
41	Risk assessment of atherosclerotic plaques based on global biomechanics. Medical Engineering and Physics, 2013, 35, 1290-1297.	0.8	7
42	Reduced Radiation Exposure for Face Transplant Surgical Planning Computed Tomography Angiography. PLoS ONE, 2013, 8, e63079.	1.1	7
43	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
44	Preoperative Vascular Mapping for Facial Allotransplantation. Plastic and Reconstructive Surgery, 2011, 128, 883-891.	0.7	32
45	Evaluation of Artery Visualizations for Heart Disease Diagnosis. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 2479-2488.	2.9	123
46	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
47	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
48	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
49	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
50	Immobilization of Iron Oxide Magnetic Nanoparticles for Enhancement of Vessel Wall Magnetic Resonance Imaging—An Ex Vivo Feasibility Study. Bioconjugate Chemistry, 2010, 21, 1408-1412.	1.8	3
51	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
52	New advances in cardiac computed tomography. Current Opinion in Cardiology, 2009, 24, 596-603.	0.8	21
53	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, 24, 529-533.	0.7	7
54	Initial evaluation of coronary images from 320-detector row computed tomography. International Journal of Cardiovascular Imaging, 2008, 24, 535-546.	0.7	515

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55	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
56	Early remodeling of lower extremity vein grafts: Inflammation influences biomechanical adaptation. Journal of Vascular Surgery, 2008, 47, 1235-1242.	0.6	51
57	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