

Gilles Soulez

List of Publications by Year in descending order

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Version: 2024-02-01

219
papers

7,166
citations

76294

40
h-index

71651

76
g-index

227
all docs

227
docs citations

227
times ranked

6755
citing authors

#	ARTICLE	IF	CITATIONS
1	Carotid artery stenting compared with endarterectomy in patients with symptomatic carotid stenosis (International Carotid Stenting Study): an interim analysis of a randomised controlled trial. <i>Lancet</i> , The, 2010, 375, 985-997.	6.3	1,135
2	Automatic navigation of an untethered device in the artery of a living animal using a conventional clinical magnetic resonance imaging system. <i>Applied Physics Letters</i> , 2007, 90, 114105.	1.5	305
3	Soft-Tissue Venous Malformations in Adult Patients: Imaging and Therapeutic Issues. <i>Radiographics</i> , 2001, 21, 1519-1531.	1.4	243
4	Co-encapsulation of magnetic nanoparticles and doxorubicin into biodegradable microcarriers for deep tissue targeting by vascular MRI navigation. <i>Biomaterials</i> , 2011, 32, 3481-3486.	5.7	223
5	Arterial Embolotherapy for Upper Gastrointestinal Hemorrhage: Outcome Assessment. <i>Journal of Vascular and Interventional Radiology</i> , 2001, 12, 195-200.	0.2	218
6	Three-Dimensional C-arm Cone-beam CT: Applications in the Interventional Suite. <i>Journal of Vascular and Interventional Radiology</i> , 2008, 19, 799-813.	0.2	206
7	Contrast-Induced Nephropathy in Patients With Chronic Kidney Disease Undergoing Computed Tomography. <i>Investigative Radiology</i> , 2006, 41, 815-821.	3.5	196
8	Noninvasive Vascular Elastography: Theoretical Framework. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 164-180.	5.4	146
9	Segmentation in Ultrasonic <i>B</i> -Mode Images of Healthy Carotid Arteries Using Mixtures of Nakagami Distributions and Stochastic Optimization. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 215-229.	5.4	134
10	Noninvasive Vascular Elastography: Toward A Complementary Characterization Tool of Atherosclerosis in Carotid Arteries. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 1841-1858.	0.7	129
11	Intravascular ultrasound image segmentation: a three-dimensional fast-marching method based on gray level distributions. <i>IEEE Transactions on Medical Imaging</i> , 2006, 25, 590-601.	5.4	122
12	Endovascular Proximal Forearm Arteriovenous Fistula for Hemodialysis Access: Results of the Prospective, Multicenter Novel Endovascular Access Trial (NEAT). <i>American Journal of Kidney Diseases</i> , 2017, 70, 486-497.	2.1	115
13	Effects of Insulin Glargine and Liraglutide Therapy on Liver Fat as Measured by Magnetic Resonance in Patients With Type 2 Diabetes: A Randomized Trial. <i>Diabetes Care</i> , 2015, 38, 1339-1346.	4.3	104
14	Segmentation of Plaques in Sequences of Ultrasonic B-Mode Images of Carotid Arteries Based on Motion Estimation and a Bayesian Model. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 2202-2211.	2.5	87
15	Embolization of Pulmonary Arteriovenous Malformations with Amplatzer Vascular Plugs: Safety and Midterm Effectiveness. <i>Journal of Vascular and Interventional Radiology</i> , 2010, 21, 649-656.	0.2	84
16	The Jonas Study: Evaluation of the Retrievability of the Cordis OptEase Inferior Vena Cava Filter. <i>Journal of Vascular and Interventional Radiology</i> , 2005, 16, 1439-1445.	0.2	80
17	Three-dimensional C-arm Cone-beam CT: Applications in the Interventional Suite. <i>Journal of Vascular and Interventional Radiology</i> , 2009, 20, S523-S537.	0.2	76
18	Imaging of Renovascular Hypertension: Respective Values of Renal Scintigraphy, Renal Doppler US, and MR Angiography. <i>Radiographics</i> , 2000, 20, 1355-1368.	1.4	75

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19	Noninvasive vascular elastography for carotid artery characterization on subjects without previous history of atherosclerosis. <i>Medical Physics</i> , 2008, 35, 3436-3443.	1.6	68
20	Measurements and detection of abdominal aortic aneurysm growth: Accuracy and reproducibility of a segmentation software. <i>European Journal of Radiology</i> , 2012, 81, 1688-1694.	1.2	68
21	Endothelial stress induces the release of vitamin D-binding protein, a novel growth factor. <i>Biochemical and Biophysical Research Communications</i> , 2005, 338, 1374-1382.	1.0	59
22	Characterisation of carotid plaques with ultrasound elastography: feasibility and correlation with high-resolution magnetic resonance imaging. <i>European Radiology</i> , 2013, 23, 2030-2041.	2.3	57
23	Pain and Quality of Life Assessment after Endovascular Versus Open Repair of Abdominal Aortic Aneurysms in Patients at Low Risk. <i>Journal of Vascular and Interventional Radiology</i> , 2005, 16, 1093-1100.	0.2	56
24	Percutaneous Embolization of Iatrogenic Arterial Kidney Injuries: Safety, Efficacy, and Impact on Blood Pressure and Renal Function. <i>Journal of Vascular and Interventional Radiology</i> , 2011, 22, 1563-1568.	0.2	55
25	Bronchial Artery Embolization in Adults with Cystic Fibrosis: Impact on the Clinical Course and Survival. <i>Journal of Vascular and Interventional Radiology</i> , 2006, 17, 953-958.	0.2	53
26	Prospective Cohort Study of Nephrogenic Systemic Fibrosis in Patients With Stage 3-5 Chronic Kidney Disease Undergoing MRI With Injected Gadobenate Dimeglumine or Gadoteridol. <i>American Journal of Roentgenology</i> , 2015, 205, 469-478.	1.0	53
27	New Treatment Approaches to Arteriovenous Malformations. <i>Seminars in Interventional Radiology</i> , 2017, 34, 258-271.	0.3	52
28	Implant Degradation and Poor Healing After Endovascular Repair of Abdominal Aortic Aneurysms: An Analysis of Explanted Stent-Grafts. <i>Journal of Endovascular Therapy</i> , 2006, 13, 457-467.	0.8	51
29	Prediction of Clinical Response After Renal Angioplasty: Respective Value of Renal Doppler Sonography and Scintigraphy. <i>American Journal of Roentgenology</i> , 2003, 181, 1029-1035.	1.0	50
30	Recovery G2 Inferior Vena Cava Filter: Technical Success and Safety of Retrieval. <i>Journal of Vascular and Interventional Radiology</i> , 2008, 19, 884-889.	0.2	49
31	Assessment of Carotid Artery Plaque Components With Machine Learning Classification Using Homodyned-K Parametric Maps and Elastograms. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019, 66, 493-504.	1.7	49
32	Carotid Artery Plaque Vulnerability Assessment Using Noninvasive Ultrasound Elastography: Validation With MRI. <i>American Journal of Roentgenology</i> , 2017, 209, 142-151.	1.0	48
33	Renal Artery Stenosis Evaluation: Diagnostic Performance of Gadobenate Dimeglumine-enhanced MR Angiography Comparison with DSA. <i>Radiology</i> , 2008, 247, 273-285.	3.6	46
34	Vulnerable Atherosclerotic Carotid Plaque Evaluation by Ultrasound, Computed Tomography Angiography, and Magnetic Resonance Imaging: An Overview. <i>Canadian Association of Radiologists Journal</i> , 2014, 65, 275-286.	1.1	46
35	Source of Errors and Accuracy of a Two-Dimensional/Three-Dimensional Fusion Road Map for Endovascular Aneurysm Repair of Abdominal Aortic Aneurysm. <i>Journal of Vascular and Interventional Radiology</i> , 2015, 26, 544-551.	0.2	46
36	Nitrogen-rich coatings for promoting healing around stent-grafts after endovascular aneurysm repair. <i>Biomaterials</i> , 2007, 28, 1209-1217.	5.7	45

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37	Detection of Renal Artery Stenosis. American Journal of Roentgenology, 2001, 177, 1123-1129.	1.0	44
38	Rupture signs on computed tomography, treatment, and outcome of abdominal aortic aneurysms. Insights Into Imaging, 2014, 5, 281-293.	1.6	44
39	Stent-Graft Placement for the Treatment of Thoracic Aortic Diseases. Radiographics, 2005, 25, 157-173.	1.4	43
40	Fast marching segmentation of three-dimensional intravascular ultrasound images: A pre- and post-intervention study. Medical Physics, 2010, 37, 3633-3647.	1.6	43
41	Endovascular Shear Strain Elastography for the Detection and Characterization of the Severity of Atherosclerotic Plaques: In Vitro Validation and In Vivo Evaluation. Ultrasound in Medicine and Biology, 2014, 40, 890-903.	0.7	43
42	Gadolinium-enhanced pulmonary magnetic resonance angiography in the diagnosis of acute pulmonary embolism: a prospective study on 48 patients. Clinical Imaging, 2006, 30, 166-172.	0.8	42
43	CT and MR Imaging of Nitinol Stents with Radiopaque Distal Markers. Journal of Vascular and Interventional Radiology, 2004, 15, 615-624.	0.2	41
44	Clinical validation of a software for quantitative follow-up of abdominal aortic aneurysm maximal diameter and growth by CT angiography. European Journal of Radiology, 2011, 77, 502-508.	1.2	41
45	Graft Durability and Fatigue after In Situ Fenestration of Endovascular Stent Grafts Using Radiofrequency Puncture and Balloon Dilatation. European Journal of Vascular and Endovascular Surgery, 2014, 47, 501-508.	0.8	40
46	A multimodality vascular imaging phantom with fiducial markers visible in DSA, CTA, MRA, and ultrasound. Medical Physics, 2004, 31, 1424-1433.	1.6	39
47	Performance evaluation of a medical robotic 3D-ultrasound imaging system. Medical Image Analysis, 2008, 12, 275-290.	7.0	38
48	Intra-Arterial Image Guidance With Optical Frequency Domain Reflectometry Shape Sensing. IEEE Transactions on Medical Imaging, 2019, 38, 482-492.	5.4	38
49	A new injectable radiopaque chitosan-based sclerosing embolizing hydrogel for endovascular therapies. Acta Biomaterialia, 2012, 8, 2712-2721.	4.1	37
50	Digital Subtraction Angiography of the Abdominal Aorta and Lower Extremities: Carbon Dioxide versus Iodinated Contrast Material. Journal of Vascular and Interventional Radiology, 1999, 10, 723-731.	0.2	35
51	Interventional Management of Arteriovenous Malformations. Techniques in Vascular and Interventional Radiology, 2019, 22, 100633.	0.4	34
52	Balloon Dilation and Stent Placement for Esophageal Lesions: Indications, Methods, and Results. Radiographics, 2003, 23, 89-105.	1.4	31
53	A Robotic Ultrasound Scanner for Automatic Vessel Tracking and Three-Dimensional Reconstruction of B-Mode Images. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 35-46.	1.7	31
54	Adrenal Vein Sampling in Primary Aldosteronism: Sensitivity and Specificity of Basal Adrenal Vein to Peripheral Vein Cortisol and Aldosterone Ratios to Confirm Catheterization of the Adrenal Vein. Radiology, 2015, 277, 887-894.	3.6	30

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55	Flow stagnation volume and abdominal aortic aneurysm growth: Insights from patient-specific computational flow dynamics of Lagrangian-coherent structures. <i>Computers in Biology and Medicine</i> , 2018, 92, 98-109.	3.9	30
56	Percutaneous Revascularization of the Renal Arteries: Predictors of Outcome. <i>Journal of Vascular and Interventional Radiology</i> , 2000, 11, 713-720.	0.2	29
57	A Comparison of the Efficacy and Safety of Iopamidol-370 and Iodixanol-320 in Patients Undergoing Multidetector-Row Computed Tomography. <i>Investigative Radiology</i> , 2007, 42, 856-861.	3.5	29
58	Reproducibility of Abdominal Aortic Aneurysm Diameter Measurement and Growth Evaluation on Axial and Multiplanar Computed Tomography Reformations. <i>CardioVascular and Interventional Radiology</i> , 2012, 35, 779-787.	0.9	29
59	A computer-assisted protocol for endovascular target interventions using a clinical MRI system for controlling untethered microdevices and future nanorobots. <i>Computer Aided Surgery</i> , 2008, 13, 340-352.	1.8	28
60	Common (Cystic) Lymphatic Malformations: Current Knowledge and Management. <i>Techniques in Vascular and Interventional Radiology</i> , 2019, 22, 100631.	0.4	28
61	Endovascular Aortic Aneurysm Repair with Stent-Grafts: Experimental Models Can Reproduce Endoleaks. <i>Journal of Vascular and Interventional Radiology</i> , 2004, 15, 971-979.	0.2	27
62	A new radiopaque embolizing agent for the treatment of endoleaks after endovascular repair: Influence of contrast agent on chitosan thermogel properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 153-161.	1.6	27
63	Development of a Coflowing Device for the Size-Controlled Preparation of Magnetic-Polymeric Microspheres as Embolization Agents in Magnetic Resonance Navigation Technology. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1092-1102.	2.6	27
64	Inflammation and Hypervascularization in a Large Animal Model of Knee Osteoarthritis: Imaging with Pathohistologic Correlation. <i>Journal of Vascular and Interventional Radiology</i> , 2019, 30, 1116-1127.	0.2	27
65	Magnetic Resonance Navigation of a Bead Inside a Three-Bifurcation PMMA Phantom Using an Imaging Gradient Coil Insert. <i>IEEE Transactions on Robotics</i> , 2014, 30, 719-727.	7.3	26
66	Chitosan-doxycycline hydrogel: An MMP inhibitor/sclerosing embolizing agent as a new approach to endoleak prevention and treatment after endovascular aneurysm repair. <i>Acta Biomaterialia</i> , 2017, 64, 94-105.	4.1	26
67	Magnetic Resonance Navigation for Targeted Embolization in a Two-Level Bifurcation Phantom. <i>Annals of Biomedical Engineering</i> , 2019, 47, 2402-2415.	1.3	26
68	Carotid Plaque Vulnerability Assessment Using Ultrasound Elastography and Echogenicity Analysis. <i>American Journal of Roentgenology</i> , 2018, 211, 847-855.	1.0	25
69	Infrarenal Aortic Stenosis: Value of Stent Placement after Percutaneous Transluminal Angioplasty Failure. <i>Radiology</i> , 2001, 219, 655-662.	3.6	23
70	Aortoduodenal fistula occurring after type II endoleak treatment with coil embolization of the aortic sac. <i>Journal of Vascular Surgery</i> , 2003, 37, 461-464.	0.6	23
71	Geometrical accuracy and fusion of multimodal vascular images: A phantom study. <i>Medical Physics</i> , 2004, 31, 1434-1443.	1.6	23
72	Diagnosis and Treatment of Renovascular Hypertension: A Cost-Benefit Analysis. <i>American Journal of Roentgenology</i> , 2005, 184, 931-937.	1.0	23

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73	In Vivo Antegrade Fenestration of Abdominal Aortic Stent-Grafts. <i>Journal of Endovascular Therapy</i> , 2007, 14, 158-167.	0.8	23
74	A Literature Review of the Numerical Analysis of Abdominal Aortic Aneurysms Treated with Endovascular Stent Grafts. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-16.	0.7	23
75	Adrenal vein sampling in primary aldosteronism: concordance of simultaneous vs sequential sampling. <i>European Journal of Endocrinology</i> , 2017, 176, 159-167.	1.9	23
76	Bilomas Developing after Laparoscopic Biliary Surgery: Percutaneous Management with Embolization of Biliary Leaks. <i>Journal of Vascular and Interventional Radiology</i> , 1997, 8, 469-473.	0.2	22
77	Endobronchial Dilatation for the Management of Bronchial Stenosis in Patients after Lung Transplantation: Effect of Stent Placement on Survival. <i>Journal of Vascular and Interventional Radiology</i> , 2009, 20, 912-920.	0.2	22
78	<i>In vivo</i> demonstration of magnetic guidewire steerability in a MRI system with additional gradient coils. <i>Medical Physics</i> , 2015, 42, 969-976.	1.6	22
79	External Beam Radiation to Prevent Restenosis After Superficial Femoral Artery Balloon Angioplasty. <i>Circulation</i> , 2005, 111, 3310-3315.	1.6	21
80	Finite element analysis of abdominal aortic aneurysms: geometrical and structural reconstruction with application of an anisotropic material model. <i>IMA Journal of Applied Mathematics</i> , 2014, 79, 1011-1026.	0.8	21
81	Morphologic evaluation of ruptured and symptomatic abdominal aortic aneurysm by three-dimensional modeling. <i>Journal of Vascular Surgery</i> , 2014, 59, 894-902.e3.	0.6	21
82	A local angle compensation method based on kinematics constraints for non-invasive vascular axial strain computations on human carotid arteries. <i>Computerized Medical Imaging and Graphics</i> , 2014, 38, 123-136.	3.5	21
83	Influence of Multiple Stenoses on Echo-Doppler Functional Diagnosis of Peripheral Arterial Disease: A Numerical and Experimental Study. <i>Annals of Biomedical Engineering</i> , 2006, 34, 564-574.	1.3	20
84	Noninvasive vascular ultrasound elastography applied to the characterization of experimental aneurysms and follow-up after endovascular repair. <i>Physics in Medicine and Biology</i> , 2008, 53, 6475-6490.	1.6	20
85	Radiofrequency Perforation System for In Vivo Antegrade Fenestration of Aortic Stent-Grafts. <i>Journal of Endovascular Therapy</i> , 2010, 17, 192-198.	0.8	20
86	Simultaneous assessment of liver volume and whole liver fat content: a step towards one-stop shop preoperative MRI protocol. <i>European Radiology</i> , 2011, 21, 301-309.	2.3	20
87	MR Imaging of Therapeutic Magnetic Microcarriers Guided by Magnetic Resonance Navigation for Targeted Liver Chemoembolization. <i>CardioVascular and Interventional Radiology</i> , 2014, 37, 784-790.	0.9	20
88	A Cohort Longitudinal Study Identifies Morphology and Hemodynamics Predictors of Abdominal Aortic Aneurysm Growth. <i>Annals of Biomedical Engineering</i> , 2020, 48, 606-623.	1.3	20
89	Increased carotid artery wall stiffness and plaque prevalence in HIV infected patients measured with ultrasound elastography. <i>European Radiology</i> , 2020, 30, 3178-3187.	2.3	20
90	Intravascular Ultrasound Image Segmentation: A Fast-Marching Method. <i>Lecture Notes in Computer Science</i> , 2003, , 432-439.	1.0	19

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91	3D elastic registration of vessel structures from IVUS data on biplane angiography1. Academic Radiology, 2005, 12, 10-16.	1.3	19
92	Pulmonary arteriovenous malformation (PAVM) reperfusion after percutaneous embolization: Sensitivity and specificity of non-enhanced CT. European Journal of Radiology, 2016, 85, 150-157.	1.2	19
93	A multimodality vascular imaging phantom of an abdominal aortic aneurysm with a visible thrombus. Medical Physics, 2013, 40, 063701.	1.6	18
94	Noninvasive Vascular Modulography Method for Imaging the Local Elasticity of Atherosclerotic Plaques: Simulation and <i>In Vitro</i> Vessel Phantom Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2017, 64, 1805-1817.	1.7	18
95	Assessment of arterial stenosis in a flow model with power Doppler angiography: accuracy and observations on blood echogenicity. Ultrasound in Medicine and Biology, 2000, 26, 1489-1501.	0.7	17
96	Type I and Collateral Flow in Experimental Aneurysm Models Treated with Stent-Grafts. Journal of Vascular and Interventional Radiology, 2007, 18, 265-272.	0.2	17
97	Pediatric gastrointestinal vascular anomalies: imaging and therapeutic issues. Pediatric Radiology, 2007, 37, 566-574.	1.1	17
98	Multimodality vascular imaging phantoms: A new material for the fabrication of realistic 3D vessel geometries. Medical Physics, 2009, 36, 3758-3763.	1.6	17
99	Early detection of liver steatosis by magnetic resonance imaging in rats infused with glucose and Intralipid solutions and correlation to insulin levels. Metabolism: Clinical and Experimental, 2013, 62, 1850-1857.	1.5	17
100	A 3-D Ultrasound Imaging Robotic System to Detect and Quantify Lower Limb Arterial Stenoses: In Vivo Feasibility. Ultrasound in Medicine and Biology, 2014, 40, 232-243.	0.7	17
101	In Vivo Venous Assessment of Red Blood Cell Aggregate Sizes in Diabetic Patients with a Quantitative Cellular Ultrasound Imaging Method: Proof of Concept. PLoS ONE, 2015, 10, e0124712.	1.1	17
102	Automatic detection of selective arterial devices for advanced visualization during abdominal aortic aneurysm endovascular repair. Medical Engineering and Physics, 2015, 37, 979-986.	0.8	17
103	Experimental validation of more realistic computer models for stent-graft repair of abdominal aortic aneurysms, including pre-load assessment. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02769.	1.0	17
104	Dynamic contrast-enhanced MRI to assess hepatocellular carcinoma response to Transarterial chemoembolization using LI-RADS criteria: A pilot study. Magnetic Resonance Imaging, 2019, 62, 78-86.	1.0	17
105	Safety and Efficacy of Paclitaxel-Eluting Balloon Angioplasty for Dysfunctional Hemodialysis Access: A randomized trial Comparing with Angioplasty Alone. Journal of Vascular and Interventional Radiology, 2021, 32, 350-359.e2.	0.2	17
106	Prevalence and Characterization of Subclinical Coronary Atherosclerotic Plaque with CT among Individuals with HIV: Results from the Canadian HIV and Aging Cohort Study. Radiology, 2021, 299, 571-580.	3.6	17
107	Catheter-Assisted Totally Thoracoscopic Coronary Artery Bypass Grafting: A Feasibility Study. Annals of Thoracic Surgery, 1997, 64, 1036-1040.	0.7	16
108	Design of iterative ROI transmission tomography reconstruction procedures and image quality analysis. Medical Physics, 2010, 37, 4577-4589.	1.6	16

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109	Chitosanâ€“Sodium Tetradecyl Sulfate Hydrogel: Characterization and Preclinical Evaluation of a Novel Sclerosing Embolizing Agent for the Treatment of Endoleaks. <i>CardioVascular and Interventional Radiology</i> , 2017, 40, 576-584.	0.9	16
110	Ultrasound findings in rapidly involuting congenital hemangioma (RICH) â€” beware of venous ectasia and venous lakes. <i>Pediatric Radiology</i> , 2018, 48, 586-593.	1.1	16
111	A Numerical Preoperative Planning Model to Predict Arterial Deformations in Endovascular Aortic Aneurysm Repair. <i>Annals of Biomedical Engineering</i> , 2018, 46, 2148-2161.	1.3	16
112	Selective embolization with magnetized microbeads using magnetic resonance navigation in a controlledâ€“flow liver model. <i>Medical Physics</i> , 2019, 46, 789-799.	1.6	16
113	Clinical validation of semi-automated software for volumetric and dynamic contrast enhancement analysis of soft tissue venous malformations on Magnetic Resonance Imaging examination. <i>European Radiology</i> , 2014, 24, 542-551.	2.3	15
114	Role of the Endothelial Lining in Endoleak Formation and Persistence after Endovascular Repair of Aneurysm. <i>Journal of Vascular and Interventional Radiology</i> , 2008, 19, 1070-1078.	0.2	14
115	Comparison of the Effect of Low- and Iso-Osmolar Contrast Agents on Heart Rate during Chest CT Angiography: Results of a Prospective Randomized Multicenter Study. <i>Radiology</i> , 2011, 258, 930-937.	3.6	14
116	Cone-beam CT: An Additional Imaging Tool in the Interventional Treatment and Management of Low-flow Vascular Malformations. <i>Journal of Vascular and Interventional Radiology</i> , 2013, 24, 981-988.e2.	0.2	14
117	256-Slice CT Angiographic Evaluation of Coronary Artery Bypass Grafts: Effect of Heart Rate, Heart Rate Variability and Z-Axis Location on Image Quality. <i>PLoS ONE</i> , 2014, 9, e91861.	1.1	14
118	Effects of Pulsatile Fatigue on In Situ Antegrade Fenestrated Polyester Stent Grafts Deployed in a Patient-Specific Phantom Model of Juxtarenal Aortic Aneurysm. <i>Journal of Vascular and Interventional Radiology</i> , 2015, 26, 1551-1558.	0.2	14
119	Off-pump Versus On-pump Coronary Artery Bypass Surgery: Graft Patency Assessment With Coronary Computed Tomographic Angiography. <i>Journal of Thoracic Imaging</i> , 2017, 32, 370-377.	0.8	14
120	In Vivo Antegrade Fenestration of Abdominal Aortic Stent-Grafts. <i>Journal of Endovascular Therapy</i> , 2007, 14, 158-167.	0.8	14
121	A New Canine Carotid Artery Bifurcation Aneurysm Model for the Evaluation of Neurovascular Devices. <i>American Journal of Neuroradiology</i> , 2010, 31, 967-971.	1.2	13
122	Renal Artery Revascularization: Predictive Value of Kidney Length and Volume Weighted by Resistive Index. <i>American Journal of Roentgenology</i> , 2010, 194, 1365-1372.	1.0	13
123	Validation of 3D reconstructions of a mimicked femoral artery with an ultrasound imaging robotic system. <i>Medical Physics</i> , 2010, 37, 3868-3879.	1.6	13
124	MRI-Compatible Injection System for Magnetic Microparticle Embolization. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2331-2340.	2.5	13
125	The effects of stenting and endothelial denudation on aneurysm and branch occlusion in experimental aneurysm models. <i>Journal of Vascular Surgery</i> , 2007, 45, 1228-1235.	0.6	12
126	Management of peripheral arterial disease: Role of computed tomography angiography and magnetic resonance angiography. <i>Presse Medicale</i> , 2011, 40, e437-e452.	0.8	12

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127	Composite versus conventional coronary artery bypass grafting strategy for the anterolateral territory: study protocol for a randomized controlled trial. <i>Trials</i> , 2013, 14, 270.	0.7	12
128	Sensitivity analysis aimed at blood vessels detection using interstitial optical tomography during brain needle biopsy procedures. <i>Biomedical Optics Express</i> , 2015, 6, 4238.	1.5	12
129	Coronary Stent Artifact Reduction with an Edge-Enhancing Reconstruction Kernel “ A Prospective Cross-Sectional Study with 256-Slice CT. <i>PLoS ONE</i> , 2016, 11, e0154292.	1.1	12
130	Effectiveness and Safety of Sclerotherapy for Treatment of Low-Flow Vascular Malformations of the Oropharyngeal Region. <i>Journal of Vascular and Interventional Radiology</i> , 2018, 29, 809-815.	0.2	12
131	The value of non-invasive vascular elastography (NIVE) in detecting early vascular changes in overweight and obese children. <i>European Radiology</i> , 2019, 29, 3854-3861.	2.3	12
132	The Canadian Association for Interventional Radiology (CAIR) and Canadian Association of Radiologists (CAR) Guidelines for Interventional Radiology Procedures for Patients With Suspected or Confirmed COVID-19. <i>Canadian Association of Radiologists Journal</i> , 2020, 71, 514-517.	1.1	12
133	Guidewire tracking during endovascular neurosurgery. <i>Medical Engineering and Physics</i> , 2010, 32, 813-821.	0.8	11
134	Comparison of Streptokinase and Urokinase in Local Thrombolysis of Peripheral Arterial Occlusions for Lower Limb Salvage. <i>Journal of Vascular and Interventional Radiology</i> , 1996, 7, 587-593.	0.2	10
135	Parallel Robot for Medical 3D-Ultrasound Imaging. , 2006, , .		10
136	Contrast-enhanced MRA of the renal and aorto-iliac-femoral arteries: Comparison of gadobenate dimeglumine and gadofosveset trisodium. <i>European Journal of Radiology</i> , 2011, 77, 358-368.	1.2	10
137	A novel composite coronary bypass graft strategy: the saphenous vein bridge—a pilot study. <i>European Journal of Cardio-thoracic Surgery</i> , 2013, 44, e302-e307.	0.6	10
138	Investigation of out-of-plane motion artifacts in 2D noninvasive vascular ultrasound elastography. <i>Physics in Medicine and Biology</i> , 2018, 63, 245003.	1.6	10
139	Carotid artery intima-media thickness measurement in children with normal and increased body mass index: a comparison of three techniques. <i>Pediatric Radiology</i> , 2018, 48, 1073-1079.	1.1	10
140	Medical and Technical Protocol for Automatic Navigation of a Wireless Device in the Carotid Artery of a Living Swine Using a Standard Clinical MRI System. , 2007, 10, 144-152.		10
141	Quantification and 3D Localization of Magnetically Navigated Superparamagnetic Particles Using MRI in Phantom and Swine Chemoembolization Models. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2616-2627.	2.5	10
142	Accuracy and rate of coronary artery segment visualization with CT angiography for the non-invasive detection of coronary artery stenoses. <i>International Journal of Cardiovascular Imaging</i> , 2007, 23, 771-780.	0.7	9
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