

Gilles Soulez

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.

203
papers

5,632
citations

35
h-index

67
g-index

227
ext. papers

6,487
ext. citations

4.5
avg, IF

5.24
L-index

#	Paper	IF	Citations
203	Management of Pancreatico-duodenal arterio-venous malformation.. <i>CVIR Endovascular</i> , 2022 , 5, 2	1.5	0
202	Impact of calcification modeling to improve image fusion accuracy for endovascular aortic aneurysm repair. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021 , e3556	2.6	
201	Systemic, local, and sclerotherapy drugs: What do we know about drug prescribing in vascular anomalies?. <i>Pediatric Blood and Cancer</i> , 2021 , 68, e29364	3	1
200	Navigation of Microrobots by MRI: Impact of Gravitational, Friction and Thrust Forces on Steering Success. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 3724	4.7	0
199	Safety and Efficacy of Paclitaxel-Eluting Balloon Angioplasty for Dysfunctional Hemodialysis Access: A randomized trial Comparing with Angioplasty Alone. <i>Journal of Vascular and Interventional Radiology</i> , 2021 , 32, 350-359.e2	2.4	10
198	Off-Label Use and Safety of Drug Use in Vascular Anomalies. <i>Dermatology</i> , 2021 , 237, 649-657	4.4	1
197	Prevalence and Characterization of Subclinical Coronary Atherosclerotic Plaque with CT among Individuals with HIV: Results from the Canadian HIV and Aging Cohort Study. <i>Radiology</i> , 2021 , 299, 571-580	20.5	1
196	Eye Lens Dosimetry in Interventional Radiology: Assessment With Dedicated Hp(3) Dosimeters. <i>Canadian Association of Radiologists Journal</i> , 2021 , 72, 317-323	3.9	1
195	FairEmbo Concept for Arterial Embolizations: In Vivo Feasibility and Safety Study with Suture-Based Microparticles Compared with Microspheres. <i>CardioVascular and Interventional Radiology</i> , 2021 , 44, 625-632	2.7	1
194	The feasibility of degradable glass microspheres as transient embolic medical devices. <i>Journal of Biomaterials Applications</i> , 2021 , 35, 615-632	2.9	1
193	Multimodal Sensing Guidewire for C-Arm Navigation with Random UV Enhanced Optical Sensors Using Spatio-Temporal Networks. <i>Lecture Notes in Computer Science</i> , 2021 , 249-258	0.9	1
192	Future Advances in Diagnosis and Drug Delivery in Interventional Radiology Using MR Imaging-Steered Theranostic Iron Oxide Nanoparticles. <i>Journal of Vascular and Interventional Radiology</i> , 2021 , 32, 1292-1295.e1	2.4	1
191	Current State of Bibliometric Research on the Scholarly Activity of Academic Radiologists. <i>Academic Radiology</i> , 2020 ,	4.3	1
190	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	3.9	9
189	Feasibility of shear wave sonoelastography to detect endoleak and evaluate thrombus organization after endovascular repair of abdominal aortic aneurysm. <i>European Radiology</i> , 2020 , 30, 3879-3889	8	0
188	Increased carotid artery wall stiffness and plaque prevalence in HIV infected patients measured with ultrasound elastography. <i>European Radiology</i> , 2020 , 30, 3178-3187	8	11
187	Percutaneous Thrombectomy with the JETi8 Peripheral Thrombectomy System for the Treatment of Deep Vein Thrombosis. <i>Journal of Vascular and Interventional Radiology</i> , 2020 , 31, 444-453.e2	2.4	2

186	Anthropomorphic and biomechanical mockup for abdominal aortic aneurysm. <i>Medical Engineering and Physics</i> , 2020 , 77, 60-68	2.4	
185	Adrenal vein sampling: External validation of multinomial regression modelling and left adrenal vein-to-peripheral vein ratio to predict lateralization index without right adrenal vein sampling. <i>Clinical Endocrinology</i> , 2020 , 93, 661-671	3.4	2
184	Combination of Alcohol and EVOH as a New Embolic Agent: Midterm Tissue and Inflammatory Effects in a Swine Model. <i>Radiology Research and Practice</i> , 2020 , 2020, 8831060	2.3	
183	A Cohort Longitudinal Study Identifies Morphology and Hemodynamics Predictors of Abdominal Aortic Aneurysm Growth. <i>Annals of Biomedical Engineering</i> , 2020 , 48, 606-623	4.7	11
182	Numerical study of multivessel coronary plaque hemodynamics. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2019 , 20, 548-559	0.7	1
181	Clinical Validation of a Semi-Automated Software for Maximal Diameter Measurements for Endovascular Repair Follow-up. <i>Journal of Vascular and Interventional Radiology</i> , 2019 , 30, 523-530	2.4	1
180	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	2.4	12
179	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	8	7
178	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	3.2	18
177	Magnetic Resonance Navigation for Targeted Embolization in a Two-Level Bifurcation Phantom. <i>Annals of Biomedical Engineering</i> , 2019 , 47, 2402-2415	4.7	11
176	Dynamic contrast-enhanced MRI to assess hepatocellular carcinoma response to Transarterial chemoembolization using LI-RADS criteria: A pilot study. <i>Magnetic Resonance Imaging</i> , 2019 , 62, 78-86	3.3	15
175	Common (Cystic) Lymphatic Malformations: Current Knowledge and Management. <i>Techniques in Vascular and Interventional Radiology</i> , 2019 , 22, 100631	2.6	14
174	Interventional Management of Arteriovenous Malformations. <i>Techniques in Vascular and Interventional Radiology</i> , 2019 , 22, 100633	2.6	13
173	Intra-Arterial Image Guidance With Optical Frequency Domain Reflectometry Shape Sensing. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 482-492	11.7	22
172	Selective embolization with magnetized microbeads using magnetic resonance navigation in a controlled-flow liver model. <i>Medical Physics</i> , 2019 , 46, 789-799	4.4	12
171	MRI-Compatible Injection System for Magnetic Microparticle Embolization. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2331-2340	5	6
170	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	2.4	8
169	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	5.5	19

168	Ultrasound findings in rapidly involuting congenital hemangioma (RICH) - beware of venous ectasia and venous lakes. <i>Pediatric Radiology</i> , 2018 , 48, 586-593	2.8	11
167	A Numerical Preoperative Planning Model to Predict Arterial Deformations in Endovascular Aortic Aneurysm Repair. <i>Annals of Biomedical Engineering</i> , 2018 , 46, 2148-2161	4.7	10
166	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	2.8	7
165	Extents, Locations and Geometrical Configurations of Calcification in Abdominal Aortic Aneurysm. <i>IFMBE Proceedings</i> , 2018 , 639-642	0.2	
164	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	7	21
163	Shear wave elasticity imaging for residual endoleak and thrombus characterisation after endoleak embolisation following endovascular aneurysm repair: a canine animal study. <i>European Radiology Experimental</i> , 2018 , 2, 28	4.5	0
162	Investigation of out-of-plane motion artifacts in 2D noninvasive vascular ultrasound elastography. <i>Physics in Medicine and Biology</i> , 2018 , 63, 245003	3.8	3
161	Carotid Plaque Vulnerability Assessment Using Ultrasound Elastography and Echogenicity Analysis. <i>American Journal of Roentgenology</i> , 2018 , 211, 847-855	5.4	16
160	A prototype of injector to control and to detect the release of magnetic beads within the constraints of multibifurcation magnetic resonance navigation procedures. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 444-452	4.4	4
159	New Alcohol and Onyx Mixture for Embolization: Feasibility and Proof of Concept in Both In Vitro and In Vivo Models. <i>CardioVascular and Interventional Radiology</i> , 2017 , 40, 735-743	2.7	3
158	Geometric modeling of hepatic arteries in 3D ultrasound with unsupervised MRA fusion during liver interventions. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2017 , 12, 961-972	3.9	1
157	Safety and Efficacy of Endovascular Fiducial Marker Insertion for CyberKnife Stereotactic Radiation Therapy Planning in Early-Stage Lung Cancer. <i>Journal of Vascular and Interventional Radiology</i> , 2017 , 28, 1090-1097	2.4	5
156	Chitosan-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	2.7	10
155	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	7.4	78
154	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	10.8	18
153	New Treatment Approaches to Arteriovenous Malformations. <i>Seminars in Interventional Radiology</i> , 2017 , 34, 258-271	1.6	32
152	Off-pump Versus On-pump Coronary Artery Bypass Surgery: Graft Patency Assessment With Coronary Computed Tomographic Angiography: A Prospective Multicenter Randomized Controlled Pilot Study. <i>Journal of Thoracic Imaging</i> , 2017 , 32, 370-377	5.6	10
151	Adrenal venous sampling in primary aldosteronism: multinomial regression modeling to detect aldosterone secretion lateralization when right adrenal sampling is missing. <i>Journal of Hypertension</i> , 2017 , 35, 362-368	1.9	6

150	Carotid Artery Plaque Vulnerability Assessment Using Noninvasive Ultrasound Elastography: Validation With MRI. <i>American Journal of Roentgenology</i> , 2017 , 209, 142-151	5.4	30
149	Adrenal vein sampling in primary aldosteronism: concordance of simultaneous vs sequential sampling. <i>European Journal of Endocrinology</i> , 2017 , 176, 159-167	6.5	12
148	Abdominal aortic aneurysm follow-up by shear wave elasticity imaging after endovascular repair in a canine model. <i>European Radiology</i> , 2017 , 27, 2161-2169	8	6
147	Noninvasive Vascular Modulography Method for Imaging the Local Elasticity of Atherosclerotic Plaques: Simulation and In Vitro Vessel Phantom Study. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2017 , 64, 1805-1817	3.2	13
146	Experimental validation of more realistic computer models for stent-graft repair of abdominal aortic aneurysms, including pre-load assessment. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2016 , 32, e02769	2.6	14
145	Pulmonary arteriovenous malformation (PAVM) reperfusion after percutaneous embolization: Sensitivity and specificity of non-enhanced CT. <i>European Journal of Radiology</i> , 2016 , 85, 150-157	4.7	14
144	Results of a randomized clinical trial of external beam radiation to prevent restenosis after superficial femoral artery stenting. <i>Journal of Vascular Surgery</i> , 2016 , 63, 1531-40	3.5	5
143	Endovascular Repair of Abdominal Aortic Aneurysm: Follow-up with Noninvasive Vascular Elastography in a Canine Model. <i>Radiology</i> , 2016 , 279, 410-9	20.5	3
142	A Robotic Ultrasound Scanner for Automatic Vessel Tracking and Three-Dimensional Reconstruction of B-Mode Images. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 35-46	3.2	18
141	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	3.7	8
140	Homodyned K-distribution parametric maps combined with elastograms for carotid artery plaque assessment 2016 ,		2
139	In Vitro and Pilot In Vivo Evaluation of a Bioactive Coating for Stent Grafts Based on Chondroitin Sulfate and Epidermal Growth Factor. <i>Journal of Vascular and Interventional Radiology</i> , 2016 , 27, 753-760	2.4	5
138	A morphometric 3D model of coronary artery bypass graft dysfunction with multidetector computed tomography. <i>Clinical Imaging</i> , 2015 , 39, 1006-11	2.7	3
137	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, 544-51	2.4	37
136	Value of C-Arm Computed Tomography to Evaluate Stent Deployment During Femoro-Popliteal Revascularization. <i>CardioVascular and Interventional Radiology</i> , 2015 , 38, 1458-67	2.7	
135	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, 1339-46	14.6	84
134	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. <i>Radiology</i> , 2015 , 277, 887-94	20.5	25
133	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, 469-78	5.4	47

132	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, 1551-8	2.4	8
131	Automatic detection of selective arterial devices for advanced visualization during abdominal aortic aneurysm endovascular repair. <i>Medical Engineering and Physics</i> , 2015 , 37, 979-86	2.4	15
130	Response to Comment on Tang et al. 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. <i>Diabetes Care</i> , 2015 , 38, e150-1	14.6	1
129	Sensitivity analysis aimed at blood vessels detection using interstitial optical tomography during brain needle biopsy procedures. <i>Biomedical Optics Express</i> , 2015 , 6, 4238-54	3.5	7
128	In vivo venous assessment of red blood cell aggregate sizes in diabetic patients with a quantitative cellular ultrasound imaging method: proof of concept. <i>PLoS ONE</i> , 2015 , 10, e0124712	3.7	10
127	In vivo demonstration of magnetic guidewire steerability in a MRI system with additional gradient coils. <i>Medical Physics</i> , 2015 , 42, 969-76	4.4	17
126	Role of MR and CT in Diagnostics 2015 , 213-222		
125	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, 275-86	3.9	32
124	Temperature Response of a Magnetic Resonance Imaging Coil Insert for the Navigation of Theranostic Agents in Complex Vascular Networks. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-7	2	3
123	Impact of contrast injection and stent-graft implantation on reproducibility of volume measurements in semiautomated segmentation of abdominal aortic aneurysm on computed tomography. <i>European Radiology</i> , 2014 , 24, 1594-601	8	6
122	Rupture signs on computed tomography, treatment, and outcome of abdominal aortic aneurysms. <i>Insights Into Imaging</i> , 2014 , 5, 281-93	5.6	30
121	Graft durability and fatigue after in situ fenestration of endovascular stent grafts using radiofrequency puncture and balloon dilatation. <i>European Journal of Vascular and Endovascular Surgery</i> , 2014 , 47, 501-8	2.3	31
120	Endovascular shear strain elastography for the detection and characterization of the severity of atherosclerotic plaques: in vitro validation and in vivo evaluation. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 890-903	3.5	33
119	A 3-D ultrasound imaging robotic system to detect and quantify lower limb arterial stenoses: in vivo feasibility. <i>Ultrasound in Medicine and Biology</i> , 2014 , 40, 232-43	3.5	15
118	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	6.5	22
117	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, 123-36	7.6	15
116	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	3.7	12
115	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	1	16

114	Morphologic evaluation of ruptured and symptomatic abdominal aortic aneurysm by three-dimensional modeling. <i>Journal of Vascular Surgery</i> , 2014 , 59, 894-902.e3	3.5	15
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, 542-51	8	14
112	Coaxial guide wire placement in the right adrenal vein for repeated adrenal venous samplings. <i>CardioVascular and Interventional Radiology</i> , 2014 , 37, 795-9	2.7	6
111	MR imaging of therapeutic magnetic microcarriers guided by magnetic resonance navigation for targeted liver chemoembolization. <i>CardioVascular and Interventional Radiology</i> , 2014 , 37, 784-90	2.7	15
110	Characterisation of carotid plaques with ultrasound elastography: feasibility and correlation with high-resolution magnetic resonance imaging. <i>European Radiology</i> , 2013 , 23, 2030-41	8	47
109	Early detection of liver steatosis by magnetic resonance imaging in rats infused with glucose and intralipid solutions and correlation to insulin levels. <i>Metabolism: Clinical and Experimental</i> , 2013 , 62, 1850-7	12.7	12
108	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, 981-8.e2	2.4	10
107	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	2.8	8
106	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 , 101, 153-61	3.5	22
105	A multimodality vascular imaging phantom of an abdominal aortic aneurysm with a visible thrombus. <i>Medical Physics</i> , 2013 , 40, 063701	4.4	16
104	A novel composite coronary bypass graft strategy: the saphenous vein bridge--a pilot study. <i>European Journal of Cardio-thoracic Surgery</i> , 2013 , 44, e302-7	3	8
103	Vulnerable carotid atherosclerotic plaque creation in a Swine model: evaluation of stenosis creation using absorbable and permanent suture in a diabetic dyslipidemic model. <i>Journal of Vascular and Interventional Radiology</i> , 2012 , 23, 1700-1708.e4	2.4	7
102	Is a liver biopsy necessary? Investigation of a suspected hepatocellular carcinoma: a pictorial essay of hepatocellular carcinoma and the revised American Association for the Study of Liver Disease criteria. <i>Canadian Association of Radiologists Journal</i> , 2012 , 63, 329-40	3.9	5
101	A new injectable radiopaque chitosan-based sclerosing embolizing hydrogel for endovascular therapies. <i>Acta Biomaterialia</i> , 2012 , 8, 2712-21	10.8	30
100	Measurements and detection of abdominal aortic aneurysm growth: Accuracy and reproducibility of a segmentation software. <i>European Journal of Radiology</i> , 2012 , 81, 1688-94	4.7	50
99	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, 779-87	2.7	19
98	Embolization and endothelial ablation with chitosan and sodium sotradecol sulfate: preliminary results in an animal model. <i>Journal of Endovascular Therapy</i> , 2012 , 19, 439-49	2.5	4
97	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, 820389	2.8	16

96	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, 358-68	4.7	9
95	Clinical validation of a software for quantitative follow-up of abdominal aortic aneurysm maximal diameter and growth by CT angiography. <i>European Journal of Radiology</i> , 2011 , 77, 502-8	4.7	33
94	Management of peripheral arterial disease: role of computed tomography angiography and magnetic resonance angiography. <i>Presse Medicale</i> , 2011 , 40, e437-52	2.2	11
93	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, 1563-8	2.4	43
92	A compensative model for the angle-dependence of motion estimates in noninvasive vascular elastography. <i>Medical Physics</i> , 2011 , 38, 727-35	4.4	8
91	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,	5	62
90	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, 301-9	8	19
89	Co-encapsulation of magnetic nanoparticles and doxorubicin into biodegradable microcarriers for deep tissue targeting by vascular MRI navigation. <i>Biomaterials</i> , 2011 , 32, 3481-6	15.6	183
88	Endothelial denudation combined with embolization in the prevention of endoleaks after endovascular aneurysm repair: an animal study. <i>Journal of Endovascular Therapy</i> , 2011 , 18, 686-96	2.5	4
87	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, 930-7	20.5	11
86	Radiofrequency perforation system for in vivo antegrade fenestration of aortic stent-grafts. <i>Journal of Endovascular Therapy</i> , 2010 , 17, 192-8	2.5	20
85	A new canine carotid artery bifurcation aneurysm model for the evaluation of neurovascular devices. <i>American Journal of Neuroradiology</i> , 2010 , 31, 967-71	4.4	13
84	Renal artery revascularization: predictive value of kidney length and volume weighted by resistive index. <i>American Journal of Roentgenology</i> , 2010 , 194, 1365-72	5.4	10
83	Design of iterative ROI transmission tomography reconstruction procedures and image quality analysis. <i>Medical Physics</i> , 2010 , 37, 4577-89	4.4	14
82	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, The</i> , 2010 , 375, 985-97	4.0	957
81	Embolization of pulmonary arteriovenous malformations with amplatzer vascular plugs: safety and midterm effectiveness. <i>Journal of Vascular and Interventional Radiology</i> , 2010 , 21, 649-56	2.4	73
80	Validation of 3D reconstructions of a mimicked femoral artery with an ultrasound imaging robotic system. <i>Medical Physics</i> , 2010 , 37, 3868-79	4.4	12
79	Fast-marching segmentation of three-dimensional intravascular ultrasound images: a pre- and post-intervention study. <i>Medical Physics</i> , 2010 , 37, 3633-47	4.4	30

78	Guidewire tracking during endovascular neurosurgery. <i>Medical Engineering and Physics</i> , 2010 , 32, 813-21	2.4	7
77	Multimodality vascular imaging phantoms: a new material for the fabrication of realistic 3D vessel geometries. <i>Medical Physics</i> , 2009 , 36, 3758-63	4.4	15
76	In vitro in-stent restenoses evaluated by 3D ultrasound. <i>Medical Physics</i> , 2009 , 36, 513-22	4.4	7
75	Soft-Tissue Vascular Malformations 2009 , 842-861		2
74	Segmentation of plaques in sequences of ultrasonic B-mode images of carotid arteries based on motion estimation and Nakagami distributions 2009 ,		4
73	2009 ,		1
72	Segmentation in ultrasonic B-mode images of healthy carotid arteries using mixtures of Nakagami distributions and stochastic optimization. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 215-29	11.7	111
71	Three-dimensional C-arm cone-beam CT: applications in the interventional suite. <i>Journal of Vascular and Interventional Radiology</i> , 2009 , 20, S523-37	2.4	65
70	Improved in-stent lumen visualization using intravascular MRI and a balanced steady-state free-precession sequence. <i>Academic Radiology</i> , 2009 , 16, 1466-74	4.3	2
69	Endobronchial dilation 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, 912-20	2.4	13
68	Comparative evaluation of the geometrical accuracy of intravascular magnetic resonance imaging: a phantom study. <i>Academic Radiology</i> , 2009 , 16, 988-96	4.3	2
67	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, 1070-8	2.4	12
66	Three-dimensional C-arm cone-beam CT: applications in the interventional suite. <i>Journal of Vascular and Interventional Radiology</i> , 2008 , 19, 799-813	2.4	141
65	Recovery G2 inferior vena cava filter: technical success and safety of retrieval. <i>Journal of Vascular and Interventional Radiology</i> , 2008 , 19, 884-9	2.4	45
64	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, 340-52		27
63	Reconstruction of real tomographic data using algebraic methods. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 2717-20	0.9	
62	Noninvasive vascular elastography for carotid artery characterization on subjects without previous history of atherosclerosis. <i>Medical Physics</i> , 2008 , 35, 3436-43	4.4	58
61	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, 6475-90	3.8	16

60	Renal artery stenosis evaluation: diagnostic performance of gadobenate dimeglumine-enhanced MR angiography--comparison with DSA. <i>Radiology</i> , 2008 , 247, 273-85	20.5	41
59	Wires segmentation in fluoroscopic images during cerebral aneurysm endovascular intervention 2008 ,		1
58	Iterative CT reconstruction of real data with metal artifact reduction 2008 ,		7
57	Performance evaluation of a medical robotic 3D-ultrasound imaging system. <i>Medical Image Analysis</i> , 2008 , 12, 275-90	15.4	29
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