Umar Sadat

List of Publications by Year
in descending order

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66 papers	2,321 citations	304743 22 h-index	214800 47 g-index
66 all docs	66 docs citations	66 times ranked	3776 citing authors

#	Article	IF	Citations
1	Contrast Medium-Induced Acute Kidney Injury. CardioRenal Medicine, 2015, 5, 219-228.	1.9	791
2	Splenic artery aneurysms in pregnancy â€“ A systematic review. International Journal of Surgery, 2008, 6, 261-265.	2.7	156
3	Iron Oxide Particles for Atheroma Imaging. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 1001-1008.	2.4	125
4	Remote Ischemic Preconditioning for Renal and Cardiac Protection During Endovascular Aneurysm Repair: A Randomized Controlled Trial. Journal of Endovascular Therapy, 2009, 16, 680-689.	1.5	109
5	Does Ascorbic Acid Protect Against Contrast-Induced Acute Kidney Injury in Patients Undergoing Coronary Angiography. Journal of the American College of Cardiology, 2013, 62, 2167-2175.	2.8	100
6	Endovascular vs open repair of acute abdominal aortic aneurysmsâ€”A systematic review and meta-analysis. Journal of Vascular Surgery, 2008, 48, 227-236.	1.1	87
7	Remote Ischemic Preconditioning for Renal Protection During Elective Open Infrarenal Abdominal Aortic Aneurysm Repair: Randomized Controlled Trial. Vascular and Endovascular Surgery, 2010, 44, 334-340.	0.7	83
8	Utility of high resolution MR imaging to assess carotid plaque morphology: A comparison of acute symptomatic, recently symptomatic and asymptomatic patients with carotid artery disease. Atherosclerosis, 2009, 207, 434-439.	0.8	74
9	Plaque hemorrhage in carotid artery disease: Pathogenesis, clinical and biomechanical considerations. Journal of Biomechanics, 2014, 47, 847-858.	2.1	61
10	Inflammation and Neovascularization Intertwined in Atherosclerosis. Circulation, 2014, 130, 786-794.	1.6	47
11	Vascular Positron Emission Tomography and Restenosis in Symptomatic Peripheral Arterial Disease. JACC: Cardiovascular Imaging, 2020, 13, 1008-1017.	5.3	42
12	Biomechanical structural stresses of atherosclerotic plaques. Expert Review of Cardiovascular Therapy, 2010, 8, 1469-1481.	1.5	39
13	Does Oral N-Acetylcysteine Reduce Contrast-Induced Renal Injury in Patients With Peripheral Arterial Disease Undergoing Peripheral Angiography? A Randomized-Controlled Study. Angiology, 2011, 62, 225-230.	1.8	35
14	The influence of computational strategy on prediction of mechanical stress in carotid atherosclerotic plaques: Comparison of 2D structure-only, 3D structure-only, one-way and fully coupled fluid-structure interaction analyses. Journal of Biomechanics, 2014, 47, 1465-1471.	2.1	35
15	Finite element analysis of vulnerable atherosclerotic plaques: a comparison of mechanical stresses within carotid plaques of acute and recently symptomatic patients with carotid artery disease. Journal of Neurology, Neurosurgery and Psychiatry, 2010, 81, 286-289.	1.9	32
16	Normalized Wall Index Specific and MRI-Based Stress Analysis of Atherosclerotic Carotid Plaques - A Study Comparing Acutely Symptomatic and Asymptomatic Patients -. Circulation Journal, 2010, 74, 2360-2364.	1.6	27
17	Impact of plaque haemorrhage and its age on structural stresses in atherosclerotic plaques of patients with carotid artery disease: an MR imaging-based finite element simulation study. International Journal of Cardiovascular Imaging, 2011, 27, 397-402.	1.5	27
18	Sequential Imaging of Asymptomatic Carotid Atheroma Using Ultrasmall Superparamagnetic Iron Oxideâ€“enhanced Magnetic Resonance Imaging: A Feasibility Study. Journal of Stroke and Cerebrovascular Diseases, 2013, 22, e271-e276.	1.6	27

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19	How Does Juxtaluminal Calcium Affect Critical Mechanical Conditions in Carotid Atherosclerotic Plaque? An Exploratory Study. IEEE Transactions on Biomedical Engineering, 2014, 61, 35-40.	4.2	27
20	Radiographic Contrast-Media-Induced Acute Kidney Injury: Pathophysiology and Prophylactic Strategies. ISRN Radiology, 2013, 2013, 1-21.	1.2	26
21	Signaling pathways of cardioprotective ischemic preconditioning. International Journal of Surgery, 2009, 7, 490-498.	2.7	25
22	Peripheral arterial ischemia by a primary lung tumour invading left atrium. Lung Cancer, 2007, 57, 237-239.	2.0	23
23	Scan-Rescan Reproducibility of High Resolution Magnetic Resonance Imaging of Atherosclerotic Plaque in the Middle Cerebral Artery. PLoS ONE, 2015, 10, e0134913.	2.5	23
24	Impact of the Type of Anesthesia on Outcome after Elective Endovascular Aortic Aneurysm Repair: Literature Review. Vascular, 2008, 16, 340-345.	0.9	20
25	Acute Limb Ischemia in Pediatric Population Secondary to Peripheral Vascular Cannulation. Vascular and Endovascular Surgery, 2015, 49, 142-147.	0.7	20
26	Three-dimensional volumetric analysis of atherosclerotic plaques: a magnetic resonance imaging-based study of patients with moderate stenosis carotid artery disease. International Journal of Cardiovascular Imaging, 2010, 26, 897-904.	1.5	17
27	Endovascular management of pseudoaneurysms following lower limb orthopedic surgery. American Journal of Orthopedics, 2008, 37, E99-E102.	0.7	16
28	Mediastinal extension of a complicated pancreatic pseudocyst; a case report and literature review. Journal of Medical Case Reports, 2007, 1, 12.	0.8	15
29	Non-uniform shrinkage for obtaining computational start shape for in-vivo MRI-based plaque vulnerability assessment. Journal of Biomechanics, 2011, 44, 2316-2319.	2.1	15
30	Utility of Magnetic Resonance Imaging-Based Finite Element Analysis for the Biomechanical Stress Analysis of Hemorrhagic and Non-Hemorrhagic Carotid Plaques. Circulation Journal, 2011, 75, 884-889.	1.6	15
31	3D high-resolution contrast enhanced MRI of carotid atheroma â€" a technical update. Magnetic Resonance Imaging, 2014, 32, 594-597.	1.8	15
32	Noninvasive imaging of atheromatous carotid plaques. Nature Reviews Cardiology, 2009, 6, 200-209.	13.7	14
33	Effect of Low-and High-Dose Atorvastatin on Carotid Artery Distensibility Using Carotid Magnetic Resonance Imaging ^|^mdash;A Post-Hoc Sub Group Analysis of ATHEROMA (Atorvastatin Therapy:) Tj ETQq1 1 0.784314 rgBT /Over 20, 46-56.	2.0	14
34	Ferumoxytol-enhanced three-dimensional magnetic resonance imaging of carotid atheroma- a feasibility and temporal dependence study. Scientific Reports, 2020, 10, 1808.	3.3	13
35	N-acetylcysteine in contrast-induced acute kidney injury: clinical use against principles of evidence-based clinical medicine!. Expert Review of Cardiovascular Therapy, 2014, 12, 1-3.	1.5	11
36	Angioleiomyoma of the small intestine â€" a rare cause of gastrointestinal bleeding. World Journal of Surgical Oncology, 2007, 5, 129.	1.9	9

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37	Influence of overlapping pattern of multiple overlapping uncovered stents on the local mechanical environment: A patient-specific parameter study. Journal of Biomechanics, 2017, 60, 188-196.	2.1	9
38	Assessment of Carotid Plaque Inflammation in Diabetic and Nondiabetic Patientsâ€"An Exploratory Ultrasmall Superparamagnetic Iron Oxide-Enhanced Magnetic Resonance Imaging Study. Journal of Stroke and Cerebrovascular Diseases, 2017, 26, 858-862.	1.6	8
39	Imaging pathobiology of carotid atherosclerosis with ultrasmall superparamagnetic particles of iron oxide. Current Opinion in Cardiology, 2017, 32, 437-440.	1.8	8
40	Cardioprotection by ischemic postconditioning during surgical procedures. Expert Review of Cardiovascular Therapy, 2008, 6, 999-1006.	1.5	7
41	Assessment of Renal Injury in Patients Undergoing Elective EVAR Using Urinary Neutrophil Gelatin-Associated Lipocalin, Interleukin 18, and Retinol-Binding Protein. Angiology, 2017, 68, 547-552.	1.8	7
42	The Impact of Operating Surgeon Experience, Supervised Trainee vs. Trained Surgeon, in Vascular Surgery Procedures: A Systematic Review and Meta-Analysis. European Journal of Vascular and Endovascular Surgery, 2019, 58, 292-298.	1.5	7
43	Emergency endovascular repair of ruptured visceral artery aneurysms. World Journal of Emergency Surgery, 2007, 2, 17.	5.0	6
44	Magnetic resonance imaging of atherothrombotic plaques. Journal of Clinical Neuroscience, 2015, 22, 1722-1726.	1.5	6
45	Thoracic outlet syndrome: an overview. British Journal of Hospital Medicine (London, England: 2005), 2008, 69, 260-263.	0.5	5
46	Contrast-induced nephropathy: do statins offer protection?. Current Opinion in Cardiology, 2011, 26, 334-337.	1.8	5
47	Carotid Artery Stiffness in Patients with Symptomatic Carotid Artery Disease with Contralateral Asymptomatic Carotid Artery Disease and in Patients with Bilateral Asymptomatic Carotid Artery Disease: A Cine Phase-contrast Carotid MR Study. Journal of Stroke and Cerebrovascular Diseases, 2014, 23, 743-748.	1.6	5
48	Association Between Abdominal Visceral Artery Calcification and All-Cause Mortalityâ€"A Computerized Tomography Imaging-Based Longitudinal Follow-Up Study. Angiology, 2019, 70, 237-243.	1.8	5
49	Superior epigastric artery pseudoaneurysm- a rare complication of chest drain insertion in coronary artery bypass grafting. Journal of Cardiothoracic Surgery, 2007, 2, 21.	1.1	4
50	Endovascular Repair of a Penetrating Thoracic Aortic Ulcer Presenting With Left Recurrent Laryngeal Nerve Palsy. Vascular and Endovascular Surgery, 2008, 41, 556-558.	0.7	4
51	Surgical Complications in a Hemophilia Patient With Factor VIII Inhibitor and Their Endovascular Management. Vascular and Endovascular Surgery, 2008, 42, 168-172.	0.7	4
52	Current management of varicose veins. British Journal of Hospital Medicine (London, England: 2005), 2008, 69, 214-217.	0.5	4
53	Endovascular Management of an Arteriovenous Fistula and Concomitant Pseudoaneurysm in an Intravenous Drug Abuser. Vascular and Endovascular Surgery, 2008, 42, 293-295.	0.7	3
54	Caval interruption: methods and indications. British Journal of Hospital Medicine (London, England:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.5	2

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55	Molecular MRI of Atherosclerosis. Current Cardiovascular Imaging Reports, 2010, 3, 4-11.	0.6	2
56	Multi-scale segmentation of carotid artery wall in MRI images. , 2010, , .		2
57	Carotid Artery Stenosis: Does the World Wide Web Provide Sufficient Information to These Patients?. Vascular, 2008, 16, 91-94.	0.9	1
58	CD36 modulation in the subintimal trapping and LDL-mediated migration of macrophages. Expert Review of Cardiovascular Therapy, 2009, 7, 587-590.	1.5	1
59	Magnetic Resonance Imaging-Based Assessment of Carotid Atheroma: a Comparative Study of Patients with and without Coronary Artery Disease. Journal of Stroke and Cerebrovascular Diseases, 2017, 26, 347-351.	1.6	1
60	Atheromatous plaque hemorrhage: early detection and its impact on the management of patients with carotid artery disease. Expert Review of Cardiovascular Therapy, 2009, 7, 25-27.	1.5	0
61	Neovascularization in Vertebral Artery Atheromaâ€"A Dynamic Contrast-Enhanced Magnetic Resonance Imaging-Based Comparative Study in Patients with Symptomatic and Asymptomatic Carotid Artery Disease. Journal of Stroke and Cerebrovascular Diseases, 2018, 27, 2505-2512.	1.6	0
62	Educational and Training Resources for Doctors and Students. Annals of the Royal College of Surgeons of England, 2006, 88, 325-326.	0.6	0
63	Clinical feasibility of diffuse speckle contrast analysis for real-time tissue perfusion monitoring. International Angiology, 2022, 41, .	0.9	0
64	Estimation of the zero-pressure computational start shape of atherosclerotic plaques: Improving the backward displacement method with deformation gradient tensor. Journal of Biomechanics, 2022, 131, 110910.	2.1	0
65	Arterial thoracic outlet syndrome: rare and triggering. Minerva Cardioangiologica, 2016, 64, 637-43.	1.2	0
66	Arterial thoracic outlet syndrome: rare and triggering. Minerva Cardioangiologica, 2016, 64, 635-641.	1.2	0