

# Ajay Gupta

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8529422/publications.pdf>

Version: 2024-02-01

169  
papers

6,195  
citations

94269

37  
h-index

88477

70  
g-index

171  
all docs

171  
docs citations

171  
times ranked

8100  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Risk of Ischemic Stroke in Patients With Coronavirus Disease 2019 (COVID-19) vs Patients With Influenza. <i>JAMA Neurology</i> , 2020, 77, 1366.   | 4.5 | 506       |
| 2  | Carotid Plaque MRI and Stroke Risk. <i>Stroke</i> , 2013, 44, 3071-3077.   | 1.0 | 429       |
| 3  | Cerebrovascular Reserve and Stroke Risk in Patients With Carotid Stenosis or Occlusion. <i>Stroke</i> , 2012, 43, 2884-2891.   | 1.0 | 276       |
| 4  | The present and future of deep learning in radiology. <i>European Journal of Radiology</i> , 2019, 114, 14-24.   | 1.2 | 229       |
| 5  | Quantitative Susceptibility Mapping of Multiple Sclerosis Lesions at Various Ages. <i>Radiology</i> , 2014, 271, 183-192.  | 3.6 | 201       |
| 6  | Clinical quantitative susceptibility mapping (QSM): Biometal imaging and its emerging roles in patient care. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 951-971.   | 1.9 | 199       |
| 7  | MR perfusion-weighted imaging in the evaluation of high-grade gliomas after treatment: a systematic review and meta-analysis. <i>Neuro-Oncology</i> , 2017, 19, 118-127.   | 0.6 | 188       |
| 8  | Plaque Echolucency and Stroke Risk in Asymptomatic Carotid Stenosis. <i>Stroke</i> , 2015, 46, 91-97.  | 1.0 | 174       |
| 9  | Restarting Anticoagulant Therapy After Intracranial Hemorrhage. <i>Stroke</i> , 2017, 48, 1594-1600.   | 1.0 | 167       |
| 10 | Silent Brain Infarction and Risk of Future Stroke. <i>Stroke</i> , 2016, 47, 719-725.  | 1.0 | 165       |
| 11 | Quantitative mapping of cerebral metabolic rate of oxygen (CMRO <sub>2</sub> ) using quantitative susceptibility mapping (QSM). <i>Magnetic Resonance in Medicine</i> , 2015, 74, 945-952.                                     | 1.9 | 117       |
| 12 | Brain Imaging of Patients with COVID-19: Findings at an Academic Institution during the Height of the Outbreak in New York City. <i>American Journal of Neuroradiology</i> , 2020, 41, 2001-2008.                              | 1.2 | 86        |
| 13 | Tailoring the Approach to Embolic Stroke of Undetermined Source. <i>JAMA Neurology</i> , 2019, 76, 855.  | 4.5 | 84        |
| 14 | Magnetic Resonance Angiography Detection of Abnormal Carotid Artery Plaque in Patients With Cryptogenic Stroke. <i>Journal of the American Heart Association</i> , 2015, 4, e002012.   | 1.6 | 79        |
| 15 | Longitudinal change in magnetic susceptibility of new enhanced multiple sclerosis (MS) lesions measured on serial quantitative susceptibility mapping (QSM). <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 426-432. | 1.9 | 79        |
| 16 | Gadolinium Enhancement in Intracranial Atherosclerotic Plaque and Ischemic Stroke: A Systematic Review and Meta-Analysis. <i>Journal of the American Heart Association</i> , 2016, 5, .  | 1.6 | 78        |
| 17 | The clinical utility of QSM: disease diagnosis, medical management, and surgical planning. <i>NMR in Biomedicine</i> , 2017, 30, e3668.  | 1.6 | 78        |
| 18 | Improved Correlation between Carotid and Coronary Atherosclerosis SYNTAX Score Using Automated Ultrasound Carotid Bulb Plaque IMT Measurement. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 1247-1262.                | 0.7 | 69        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Imaging characteristics associated with clinical outcomes in posterior reversible encephalopathy syndrome. <i>Neuroradiology</i> , 2017, 59, 379-386.   | 1.1 | 68        |
| 20 | Stroke Risk Stratification and its Validation using Ultrasonic Echolucent Carotid Wall Plaque Morphology: A Machine Learning Paradigm. <i>Computers in Biology and Medicine</i> , 2017, 80, 77-96.  | 3.9 | 63        |
| 21 | Plaque Tissue Morphology-Based Stroke Risk Stratification Using Carotid Ultrasound: A Polling-Based PCA Learning Paradigm. <i>Journal of Medical Systems</i> , 2017, 41, 98.  | 2.2 | 61        |
| 22 | Association between Carotid Plaque Features on CTA and Cerebrovascular Ischemia: A Systematic Review and Meta-Analysis. <i>American Journal of Neuroradiology</i> , 2017, 38, 2321-2326.  | 1.2 | 61        |
| 23 | Neutrophilâ€“Lymphocyte Ratio and Perihematomal Edema Growth in Intracerebral Hemorrhage. <i>Stroke</i> , 2017, 48, 2589-2592.  | 1.0 | 58        |
| 24 | Quantitative Susceptibility Mapping and R2* Measured Changes during White Matter Lesion Development in Multiple Sclerosis: Myelin Breakdown, Myelin Debris Degradation and Removal, and Iron Accumulation. <i>American Journal of Neuroradiology</i> , 2016, 37, 1629-1635. | 1.2 | 57        |
| 25 | Cerebral metabolic rate of oxygen (CMRO <sub>2</sub> ) mapping by combining quantitative susceptibility mapping (QSM) and quantitative blood oxygenation levelâ€“dependent imaging (qBOLD). <i>Magnetic Resonance in Medicine</i> , 2018, 80, 1595-1604.                    | 1.9 | 57        |
| 26 | A low-cost machine learning-based cardiovascular/stroke risk assessment system: integration of conventional factors with image phenotypes. <i>Cardiovascular Diagnosis and Therapy</i> , 2019, 9, 420-430.  | 0.7 | 54        |
| 27 | Multiple sclerosis lesion geometry in quantitative susceptibility mapping (QSM) and phase imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 224-229.  | 1.9 | 52        |
| 28 | Evaluation of Computed Tomography Angiography Plaque Thickness Measurements in High-Grade Carotid Artery Stenosis. <i>Stroke</i> , 2014, 45, 740-745.   | 1.0 | 51        |
| 29 | A comparative approach of four different image registration techniques for quantitative assessment of coronary artery calcium lesions using intravascular ultrasound. <i>Computer Methods and Programs in Biomedicine</i> , 2015, 118, 158-172.                             | 2.6 | 51        |
| 30 | Cerebral metabolic rate of oxygen (CMRO <sub>2</sub> ) mapping with hyperventilation challenge using quantitative susceptibility mapping (QSM). <i>Magnetic Resonance in Medicine</i> , 2017, 77, 1762-1773.  | 1.9 | 47        |
| 31 | The imaging spectrum of posterior reversible encephalopathy syndrome: A pictorial review. <i>Clinical Imaging</i> , 2018, 47, 80-89.  | 0.8 | 44        |
| 32 | Causes of Acute Stroke. <i>Radiologic Clinics of North America</i> , 2019, 57, 1093-1108.   | 0.9 | 44        |
| 33 | Reclassification of Ischemic Stroke Etiological Subtypes on the Basis of High-Risk Nonstenosing Carotid Plaque. <i>Stroke</i> , 2020, 51, 504-510.  | 1.0 | 44        |
| 34 | Corticosteroid therapy and severity of vasogenic edema in posterior reversible encephalopathy syndrome. <i>Journal of the Neurological Sciences</i> , 2017, 380, 11-15.   | 0.3 | 43        |
| 35 | Association Between Nonstenosing Carotid Artery Plaque on MR Angiography and Acute Ischemic Stroke. <i>JACC: Cardiovascular Imaging</i> , 2016, 9, 1228-1229.   | 2.3 | 42        |
| 36 | The Association between Carotid Artery Atherosclerosis and Silent Brain Infarction: A Systematic Review and Meta-analysis. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2017, 26, 1594-1601.   | 0.7 | 42        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | A Review on Atherosclerotic Biology, Wall Stiffness, Physics of Elasticity, and Its Ultrasound-Based Measurement. <i>Current Atherosclerosis Reports</i> , 2016, 18, 83.   | 2.0 | 40        |
| 38 | Accurate cloud-based smart IMT measurement, its validation and stroke risk stratification in carotid ultrasound: A web-based point-of-care tool for multicenter clinical trial. <i>Computers in Biology and Medicine</i> , 2016, 75, 217-234.  | 3.9 | 39        |
| 39 | Global perspective on carotid intima-media thickness and plaque: should the current measurement guidelines be revisited?. <i>International Angiology</i> , 2020, 38, 451-465.  | 0.4 | 39        |
| 40 | Performance evaluation of 10-year ultrasound image-based stroke/cardiovascular (CV) risk calculator by comparing against ten conventional CV risk calculators: A diabetic study. <i>Computers in Biology and Medicine</i> , 2019, 105, 125-143.  | 3.9 | 38        |
| 41 | A Pooled Analysis of Diffusion-Weighted Imaging Lesions in Patients With Acute Intracerebral Hemorrhage. <i>JAMA Neurology</i> , 2020, 77, 1390.   | 4.5 | 38        |
| 42 | Silent Brain Infarction in Patients With Asymptomatic Carotid Artery Atherosclerotic Disease. <i>Stroke</i> , 2016, 47, 1368-1370.   | 1.0 | 37        |
| 43 | A Review on Carotid Ultrasound Atherosclerotic Tissue Characterization and Stroke Risk Stratification in Machine Learning Framework. <i>Current Atherosclerosis Reports</i> , 2015, 17, 55.  | 2.0 | 36        |
| 44 | Nonlinear model for the carotid artery disease 10-year risk prediction by fusing conventional cardiovascular factors to carotid ultrasound image phenotypes: A Japanese diabetes cohort study. <i>Echocardiography</i> , 2019, 36, 345-361.  | 0.3 | 36        |
| 45 | Magnetic Susceptibility from Quantitative Susceptibility Mapping Can Differentiate New Enhancing from Nonenhancing Multiple Sclerosis Lesions without Gadolinium Injection. <i>American Journal of Neuroradiology</i> , 2016, 37, 1794-1799.   | 1.2 | 35        |
| 46 | Automated segmental-IMT measurement in thin/thick plaque with bulb presence in carotid ultrasound from multiple scanners: Stroke risk assessment. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 141, 73-81.  | 2.6 | 35        |
| 47 | Magnetic susceptibility increases as diamagnetic molecules breakdown: Myelin digestion during multiple sclerosis lesion formation contributes to increase on QSM. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1281-1287.  | 1.9 | 34        |
| 48 | A Special Report on Changing Trends in Preventive Stroke/Cardiovascular Risk Assessment Via B-Mode Ultrasonography. <i>Current Atherosclerosis Reports</i> , 2019, 21, 25.   | 2.0 | 33        |
| 49 | Effect of carotid image-based phenotypes on cardiovascular risk calculator: AECRS1.0. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 1553-1566.   | 1.6 | 33        |
| 50 | Embolic stroke of undetermined source: The role of the nonstenotic carotid plaque. <i>Journal of the Neurological Sciences</i> , 2017, 382, 49-52.   | 0.3 | 32        |
| 51 | Quantitative susceptibility mapping-based cerebral metabolic rate of oxygen mapping with minimum local variance. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 172-179.  | 1.9 | 32        |
| 52 | Cluster analysis of time evolution (CAT) for quantitative susceptibility mapping (QSM) and quantitative blood oxygen level-dependent magnitude (qBOLD)-based oxygen extraction fraction (OEF) and cerebral metabolic rate of oxygen (CMRO <sub>2</sub> ) mapping. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 844-857. | 1.9 | 32        |
| 53 | Vessel Wall Imaging Biomarkers of Carotid Plaque Vulnerability in Stroke Prevention Trials. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 2445-2456.   | 2.3 | 31        |
| 54 | Ranking of stroke and cardiovascular risk factors for an optimal risk calculator design: Logistic regression approach. <i>Computers in Biology and Medicine</i> , 2019, 108, 182-195.  | 3.9 | 30        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Machine Learning Prediction of Stroke Mechanism in Embolic Strokes of Undetermined Source. <i>Stroke</i> , 2020, 51, e203-e210.   | 1.0 | 30        |
| 56 | Carotid Vessel Wall Imaging on CTA. <i>American Journal of Neuroradiology</i> , 2020, 41, 380-386.  | 1.2 | 30        |
| 57 | Detection of Symptomatic Carotid Plaque Using Source Data from MR and CT Angiography: A Correlative Study. <i>Cerebrovascular Diseases</i> , 2015, 39, 151-161.   | 0.8 | 28        |
| 58 | Web-based accurate measurements of carotid lumen diameter and stenosis severity: An ultrasound-based clinical tool for stroke risk assessment during multicenter clinical trials. <i>Computers in Biology and Medicine</i> , 2017, 91, 306-317. | 3.9 | 27        |
| 59 | Quantitative Susceptibility Mapping: MRI at 7T versus 3T. <i>Journal of Neuroimaging</i> , 2020, 30, 65-75.   | 1.0 | 27        |
| 60 | The Use of Noncontrast Quantitative MRI to Detect Gadolinium-Enhancing Multiple Sclerosis Brain Lesions: A Systematic Review and Meta-Analysis. <i>American Journal of Neuroradiology</i> , 2017, 38, 1317-1322.                                | 1.2 | 26        |
| 61 | Echoluency-based phenotype in carotid atherosclerosis disease for risk stratification of diabetes patients. <i>Diabetes Research and Clinical Practice</i> , 2018, 143, 322-331.  | 1.1 | 26        |
| 62 | Carotid Artery Plaque Calcifications: Lessons From Histopathology to Diagnostic Imaging. <i>Stroke</i> , 2022, 53, 290-297.   | 1.0 | 26        |
| 63 | Imaging Evaluation of the Parapharyngeal Space. <i>Otolaryngologic Clinics of North America</i> , 2012, 45, 1223-1232.  | 0.5 | 25        |
| 64 | Moving Beyond Luminal Stenosis: Imaging Strategies for Stroke Prevention in Asymptomatic Carotid Stenosis. <i>Cerebrovascular Diseases</i> , 2015, 39, 253-261.   | 0.8 | 25        |
| 65 | Morphologic TPA (mTPA) and composite risk score for moderate carotid atherosclerotic plaque is strongly associated with HbA1c in diabetes cohort. <i>Computers in Biology and Medicine</i> , 2018, 101, 128-145.                                | 3.9 | 25        |
| 66 | Roadmap Consensus on Carotid Artery Plaque Imaging and Impact on Therapy Strategies and Guidelines: An International, Multispecialty, Expert Review and Position Statement. <i>American Journal of Neuroradiology</i> , 2021, 42, 1566-1575.    | 1.2 | 25        |
| 67 | Timing of Carotid Revascularization Procedures After Ischemic Stroke. <i>Stroke</i> , 2017, 48, 225-228.  | 1.0 | 24        |
| 68 | Accurate lumen diameter measurement in curved vessels in carotid ultrasound: an iterative scale-space and spatial transformation approach. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 1415-1434.                       | 1.6 | 24        |
| 69 | Carotid Plaque Positron Emission Tomography Imaging and Cerebral Ischemic Disease. <i>Stroke</i> , 2019, 50, 2072-2079.   | 1.0 | 24        |
| 70 | Carotid interadventitial diameter is more strongly related to plaque score than lumen diameter: An automated tool for stroke analysis. <i>Journal of Clinical Ultrasound</i> , 2016, 44, 210-220.   | 0.4 | 23        |
| 71 | Cryptogenic Stroke and Nonstenosing Intracranial Calcified Atherosclerosis. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2017, 26, 863-870.  | 0.7 | 23        |
| 72 | Semiautomated Characterization of Carotid Artery Plaque Features From Computed Tomography Angiography to Predict Atherosclerotic Cardiovascular Disease Risk Score. <i>Journal of Computer Assisted Tomography</i> , 2019, 43, 452-459.         | 0.5 | 23        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Cost-Effectiveness of Carotid Plaque MR Imaging as a Stroke Risk Stratification Tool in Asymptomatic Carotid Artery Stenosis. <i>Radiology</i> , 2015, 277, 763-772.   | 3.6 | 22        |
| 74 | Imaging Evaluation of the Suprahyoid Neck. <i>Radiologic Clinics of North America</i> , 2015, 53, 133-144.   | 0.9 | 22        |
| 75 | Carotid Web: Appearance at MR Angiography. <i>American Journal of Neuroradiology</i> , 2016, 37, E5-E6.  | 1.2 | 22        |
| 76 | Protrusion of the Infraorbital Nerve into the Maxillary Sinus on CT: Prevalence, Proposed Grading Method, and Suggested Clinical Implications. <i>American Journal of Neuroradiology</i> , 2016, 37, 349-353.    | 1.2 | 22        |
| 77 | Quantifying Intracranial Internal Carotid Artery Stenosis on MR Angiography. <i>American Journal of Neuroradiology</i> , 2017, 38, 986-990.  | 1.2 | 22        |
| 78 | Left Atrial Appendage Morphology and Embolic Stroke of Undetermined Source: A Cross-Sectional Multicenter Pilot Study. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018, 27, 1497-1501.              | 0.7 | 22        |
| 79 | Blood-Brain Barrier Permeability in Aneurysmal Subarachnoid Hemorrhage: Correlation With Clinical Outcomes. <i>American Journal of Roentgenology</i> , 2018, 211, 891-895.                                       | 1.0 | 22        |
| 80 | High-resolution QSM for functional and structural depiction of subthalamic nuclei in DBS presurgical mapping. <i>Journal of Neurosurgery</i> , 2019, 131, 360-367.   | 0.9 | 22        |
| 81 | International Union of Angiology (IUA) consensus paper on imaging strategies in atherosclerotic carotid artery imaging: From basic strategies to advanced approaches. <i>Atherosclerosis</i> , 2022, 354, 23-40. | 0.4 | 22        |
| 82 | Continuing the search for MR imaging biomarkers for MGMT promoter methylation status: conventional and perfusion MRI revisited. <i>Neuroradiology</i> , 2012, 54, 641-643.                                       | 1.1 | 21        |
| 83 | Variability in the position of the retropharyngeal internal carotid artery. <i>Laryngoscope</i> , 2013, 123, 401-403.  | 1.1 | 21        |
| 84 | Endovascular Therapy for Acute Stroke in Patients With Cancer. <i>Neurohospitalist</i> , The, 2014, 4, 133-135.  | 0.3 | 21        |
| 85 | Magnetic resonance spectroscopy abnormalities in traumatic brain injury: A meta-analysis. <i>Journal of Neuroradiology</i> , 2018, 45, 123-129.  | 0.6 | 21        |
| 86 | Management of Patients with Asymptomatic Carotid Stenosis May Need to Be Individualized: A Multidisciplinary Call for Action. <i>Journal of Stroke</i> , 2021, 23, 202-212.                                      | 1.4 | 21        |
| 87 | White Matter Diffusion Abnormalities in Carotid Artery Disease: A Systematic Review and Meta-Analysis. <i>Journal of Neuroimaging</i> , 2016, 26, 481-488.   | 1.0 | 20        |
| 88 | Perivascular Fat Density and Contrast Plaque Enhancement: Does a Correlation Exist?. <i>American Journal of Neuroradiology</i> , 2020, 41, 1460-1465.  | 1.2 | 20        |
| 89 | Morphological Carotid Plaque Area Is Associated With Glomerular Filtration Rate: A Study of South Asian Indian Patients With Diabetes and Chronic Kidney Disease. <i>Angiology</i> , 2020, 71, 520-535.          | 0.8 | 20        |
| 90 | Sellar collision tumor involving metastatic lung cancer and pituitary adenoma: radiologic-pathologic correlation and review of the literature. <i>Clinical Imaging</i> , 2014, 38, 318-321.                      | 0.8 | 19        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Two Automated Techniques for Carotid Lumen Diameter Measurement: Regional versus Boundary Approaches. <i>Journal of Medical Systems</i> , 2016, 40, 182.  | 2.2 | 19        |
| 92  | Application of Blood-Brain Barrier Permeability Imaging in Global Cerebral Edema. <i>American Journal of Neuroradiology</i> , 2016, 37, 1599-1603.  | 1.2 | 18        |
| 93  | Advances in Multimodality Carotid Plaque Imaging: <i>AJR</i> Expert Panel Narrative Review. <i>American Journal of Roentgenology</i> , 2021, 217, 16-26.  | 1.0 | 18        |
| 94  | STIR-Net: Deep Spatial-Temporal Image Restoration Net for Radiation Reduction in CT Perfusion. <i>Frontiers in Neurology</i> , 2019, 10, 647.   | 1.1 | 17        |
| 95  | Associations Between Features of Nonstenosing Carotid Plaque on Computed Tomographic Angiography and Ischemic Stroke Subtypes. <i>Journal of the American Heart Association</i> , 2019, 8, e014818.                                   | 1.6 | 17        |
| 96  | Initial Experience of Challenge-Free MRI-Based Oxygen Extraction Fraction Mapping of Ischemic Stroke at Various Stages: Comparison With Perfusion and Diffusion Mapping. <i>Frontiers in Neuroscience</i> , 2020, 14, 535441.         | 1.4 | 16        |
| 97  | Diagnostic accuracy of semiautomatic lesion detection plus quantitative susceptibility mapping in the identification of new and enhancing multiple sclerosis lesions. <i>NeuroImage: Clinical</i> , 2018, 18, 143-148.                | 1.4 | 15        |
| 98  | Diffusion-Weighted Imaging Lesions After Intracerebral Hemorrhage and Risk of Stroke. <i>Stroke</i> , 2021, 52, 595-602.  | 1.0 | 15        |
| 99  | Extracranial internal carotid artery calcium volume measurement using computer tomography. <i>International Angiology</i> , 2017, 36, 445-461.  | 0.4 | 14        |
| 100 | Temporal clustering, tissue composition, and total variation for mapping oxygen extraction fraction using QSM and quantitative BOLD. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2635-2646.                                     | 1.9 | 14        |
| 101 | Optimal Management of Asymptomatic Carotid Stenosis in 2021: The Jury is Still Out. An International, Multispecialty, Expert Review and Position Statement. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2022, 31, 106182. | 0.7 | 14        |
| 102 | Quantitative Water Permeability Mapping of Blood-Brain-Barrier Dysfunction in Aging. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 867452.   | 1.7 | 14        |
| 103 | Molecular Imaging of Striatal Dopaminergic Neuronal Loss and the Neurovascular Unit in Parkinson Disease. <i>Frontiers in Neuroscience</i> , 2020, 14, 528809.  | 1.4 | 13        |
| 104 | Brain oxygen extraction fraction mapping in patients with multiple sclerosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 338-348.   | 2.4 | 13        |
| 105 | Neuroimaging of cerebrovascular disease in the aging brain. , 2012, 3, 414-25.  |     | 13        |
| 106 | Carotid Artery Stenosis: Cost-effectiveness of Assessment of Cerebrovascular Reserve to Guide Treatment of Asymptomatic Patients. <i>Radiology</i> , 2015, 274, 455-463.  | 3.6 | 12        |
| 107 | Association between Intracranial Atherosclerotic Calcium Burden and Angiographic Luminal Stenosis Measurements. <i>American Journal of Neuroradiology</i> , 2017, 38, 1723-1729.  | 1.2 | 12        |
| 108 | WALL SHEAR STRESS AND OSCILLATORY SHEAR INDEX DISTRIBUTION IN CAROTID ARTERY WITH VARYING DEGREE OF STENOSIS: A HEMODYNAMIC STUDY. <i>Journal of Mechanics in Medicine and Biology</i> , 2017, 17, 1750037.                           | 0.3 | 12        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 109 | Angiographic Blush after Mechanical Thrombectomy is Associated with Hemorrhagic Transformation of Ischemic Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018, 27, 3124-3130.   | 0.7 | 12        |
| 110 | Brain imaging biomarkers of carotid artery disease. <i>Annals of Translational Medicine</i> , 2020, 8, 1277-1277.   | 0.7 | 12        |
| 111 | Quantitative susceptibility mapping of carotid plaques using nonlinear total field inversion: Initial experience in patients with significant carotid stenosis. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 1501-1509.                                      | 1.9 | 12        |
| 112 | Multimodal Diagnostic Imaging for Hyperacute Stroke. <i>American Journal of Neuroradiology</i> , 2015, 36, 2206-2213.   | 1.2 | 11        |
| 113 | Quantitative transport mapping (QTM) of the kidney with an approximate microvascular network. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2247-2262.  | 1.9 | 11        |
| 114 | QSM+qBOLD using deep learning to solve quantitative susceptibility mapping and quantitative blood oxygen level dependent magnitude (QSM+qBOLD or QQ) based oxygen extraction fraction (OEF) mapping. <i>Magnetic Resonance in Medicine</i> , 2022, 87, 1583-1594. | 1.9 | 11        |
| 115 | Orbital Soft-Tissue Trauma. <i>Neuroimaging Clinics of North America</i> , 2014, 24, 425-437.   | 0.5 | 10        |
| 116 | Relationship Between Visceral Infarction and Ischemic Stroke Subtype. <i>Stroke</i> , 2018, 49, 727-729.  | 1.0 | 10        |
| 117 | Clinical Integration of Quantitative Susceptibility Mapping Magnetic Resonance Imaging into Neurosurgical Practice. <i>World Neurosurgery</i> , 2019, 122, e10-e19.   | 0.7 | 10        |
| 118 | On the influence of zero-padding on the nonlinear operations in Quantitative Susceptibility Mapping. <i>Magnetic Resonance Imaging</i> , 2017, 35, 154-159.   | 1.0 | 9         |
| 119 | Clinical feasibility of brain quantitative susceptibility mapping. <i>Magnetic Resonance Imaging</i> , 2019, 60, 44-51.   | 1.0 | 9         |
| 120 | Origins of atrophy in Parkinson linked to early onset and local transcription patterns. <i>Brain Communications</i> , 2020, 2, fcaa065.   | 1.5 | 9         |
| 121 | TENDER: Tensor non-local deconvolution enabled radiation reduction in CT perfusion. <i>Neurocomputing</i> , 2017, 229, 13-22.   | 3.5 | 8         |
| 122 | Troponin Improves the Yield of Transthoracic Echocardiography in Ischemic Stroke Patients of Determined Stroke Subtype. <i>Stroke</i> , 2018, 49, 2777-2779.  | 1.0 | 8         |
| 123 | Can Pay-for Performance Incentive Levels be Determined Using a Cost-Effectiveness Framework?. <i>Circulation: Cardiovascular Quality and Outcomes</i> , 2020, 13, e006492.  | 0.9 | 8         |
| 124 | Ultrasound-Based Automated Carotid Lumen Diameter/Stenosis Measurement and its Validation System. <i>Journal for Vascular Ultrasound</i> , 2016, 40, 120-134.   | 0.2 | 7         |
| 125 | Carotid artery plaque characteristics: current reporting practices on CT angiography. <i>Neuroradiology</i> , 2021, 63, 1013-1018.  | 1.1 | 7         |
| 126 | Associations between the size and location of myocardial infarction and cerebral infarction. <i>Journal of the Neurological Sciences</i> , 2020, 419, 117182.   | 0.3 | 7         |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 127 | Extracranial Vascular Disease. <i>Neuroimaging Clinics of North America</i> , 2021, 31, 157-166.  | 0.5 | 7         |
| 128 | Carotid Artery Stiffness: Imaging Techniques and Impact on Cerebrovascular Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 852173.  | 1.1 | 7         |
| 129 | Amyloid $\beta$ -Related Central Nervous System Angiitis Presenting With an Isolated Seizure. <i>Neurohospitalist, The</i> , 2014, 4, 86-89.  | 0.3 | 6         |
| 130 | Cost Effectiveness of Assessing Ultrasound Plaque Characteristics to Risk Stratify Asymptomatic Patients With Carotid Stenosis. <i>Journal of the American Heart Association</i> , 2019, 8, e012739.                                | 1.6 | 6         |
| 131 | Differences in Admission Blood Pressure Among Causes of Intracerebral Hemorrhage. <i>Stroke</i> , 2020, 51, 644-647.  | 1.0 | 6         |
| 132 | Volumetric Landmark Detection with a Multi-Scale Shift Equivariant Neural Network. , 2020, , .  |     | 6         |
| 133 | Ensembling Low Precision Models for Binary Biomedical Image Segmentation. , 2021, , .   |     | 6         |
| 134 | Population-based input function for TSPO quantification and kinetic modeling with [11C]-DPA-713. <i>EJNMMI Physics</i> , 2021, 8, 39.   | 1.3 | 6         |
| 135 | Glioblastoma-arteriovenous fistula complex: imaging characteristics and treatment considerations. <i>Clinical Imaging</i> , 2014, 38, 187-190.  | 0.8 | 5         |
| 136 | The Role of Imaging in Clinical Stroke Scales That Predict Functional Outcome: A Systematic Review. <i>Neurohospitalist, The</i> , 2017, 7, 169-178.  | 0.3 | 5         |
| 137 | Fast and Robust Unsupervised Identification of MS Lesion Change Using the Statistical Detection of Changes Algorithm. <i>American Journal of Neuroradiology</i> , 2018, 39, 830-833.  | 1.2 | 5         |
| 138 | Management of patients with asymptomatic carotid stenosis may need to be individualized: a multidisciplinary call for action. Republication of <i>J Stroke</i> 2021;23:202-212. <i>International Angiology</i> , 2021, 40, 487-496. | 0.4 | 5         |
| 139 | Cerebral Microbleeds and Acute Hematoma Characteristics in the ATACH-2 and MISTIE III Trials. <i>Neurology</i> , 2022, 98, e1013-e1020.   | 1.5 | 5         |
| 140 | The Reversal Sign. <i>Neurohospitalist, The</i> , 2015, 5, 251-252.   | 0.3 | 4         |
| 141 | A special report on changing trends in preventive stroke/cardiovascular risk assessment via B-mode ultrasonography. , 2020, , 291-318.  |     | 4         |
| 142 | Asymptomatic Carotid Disease and Cognitive Impairment: What Is the Evidence?. <i>Frontiers in Neurology</i> , 2021, 12, 741500.   | 1.1 | 4         |
| 143 | Computed tomography angiographic biomarkers help identify vulnerable carotid artery plaque. <i>Journal of Vascular Surgery</i> , 2022, 75, 1311-1322.e3.  | 0.6 | 4         |
| 144 | Association Between Systemic Amyloidosis and Intracranial Hemorrhage. <i>Stroke</i> , 2022, 53, STROKEAHA121038451.   | 1.0 | 4         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 145 | Nonstenotic carotid plaques. <i>Neurology</i> , 2016, 87, 650-651.   | 1.5 | 3         |
| 146 | Improving imaging to optimize screening strategies for carotid artery stenosis. <i>Clinical Imaging</i> , 2016, 40, 276-278.   | 0.8 | 3         |
| 147 | Response by Murthy et al to Letter Regarding Article, "Restarting Anticoagulant Therapy After Intracranial Hemorrhage: A Systematic Review and Meta-Analysis" <i>Stroke</i> , 2017, 48, e267.            | 1.0 | 3         |
| 148 | Comparing hematoma characteristics in primary intracerebral hemorrhage versus intracerebral hemorrhage caused by structural vascular lesions. <i>Journal of Clinical Neuroscience</i> , 2022, 99, 5-9.   | 0.8 | 3         |
| 149 | American neuroborreliosis presenting as cranial polyneuritis and radiculoneuritis. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2014, 1, e30.   | 3.1 | 2         |
| 150 | Direct estimation of permeability maps for low-dose CT perfusion. , 2016, , .  |     | 2         |
| 151 | Potential role of lipoic acid as a chelator in prevention and treatment of gadolinium brain retention. <i>Medical Hypotheses</i> , 2018, 114, 29.  | 0.8 | 1         |
| 152 | Diagnostic accuracy of shuttle CT angiography (CTA) and helical CTA in the diagnosis of vasospasm. <i>Clinical Imaging</i> , 2022, 81, 37-42.  | 0.8 | 1         |
| 153 | Abstract 121: Machine Learning Prediction of Stroke Mechanism in Embolic Strokes of Undetermined Source. <i>Stroke</i> , 2019, 50, .   | 1.0 | 1         |
| 154 | Reply:. <i>American Journal of Neuroradiology</i> , 2021, 42, E12-E12.   | 1.2 | 1         |
| 155 | Feasibility of Population-Based Input Function for Kinetic Analysis of [ <sup>11</sup> C]-DPA-713. , 2020, , .   |     | 1         |
| 156 | Optimal management of asymptomatic carotid stenosis in 2021: the jury is still out. An international, multispecialty, expert review and position statement. <i>International Angiology</i> , 2022, 41, . | 0.4 | 1         |
| 157 | Echocardiographic wall motion abnormalities in patients with stroke may warrant cardiac evaluation. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2019, 90, 792-795.                        | 0.9 | 0         |
| 158 | Abstract TP108: Association Between Intracranial Atherosclerotic Calcium Burden and Angiographic Luminal Stenosis Measurements. <i>Stroke</i> , 2017, 48, .  | 1.0 | 0         |
| 159 | Abstract 191: Selective Frontal Lobe Metabolic Dysfunction After Sub-arachnoid Hemorrhage. <i>Stroke</i> , 2017, 48, .   | 1.0 | 0         |
| 160 | Abstract WP24: Angiographic Blush After Mechanical Thrombectomy is Associated With Hemorrhagic Conversion of Ischemic Stroke. <i>Stroke</i> , 2018, 49, .  | 1.0 | 0         |
| 161 | Abstract TMP76: Frequency of Evaluation for Stroke Risk Factors in Patients With Retinal Infarction. <i>Stroke</i> , 2018, 49, .   | 1.0 | 0         |
| 162 | Abstract TP36: Medical Specialty and Training of Physicians Performing Mechanical Thrombectomy for Acute Ischemic Stroke in the U.S. <i>Stroke</i> , 2018, 49, .   | 1.0 | 0         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 163 | Abstract WMP34: Association Between Unruptured Intracranial Aneurysm and Downstream Stroke. Stroke, 2018, 49, .  | 1.0 | 0         |
| 164 | Abstract WP209: Relationship Between Liver Fibrosis and Ischemic Stroke Subtype. Stroke, 2020, 51, .   | 1.0 | 0         |
| 165 | Abstract 18: Diffusion Weighted Imaging Lesions in Patients With Acute Intracerebral Hemorrhage: A Pooled Analysis of Individual Patient Data From MISTIE-III, ATACH-II, I-DEF, and ERICH. Stroke, 2020, 51, . | 1.0 | 0         |
| 166 | Abstract WP232: Association Between Myocardial Infarction Size and Location and Cerebral Infarction. Stroke, 2020, 51, .   | 1.0 | 0         |
| 167 | Optimal Management of Asymptomatic Carotid Stenosis: Counterbalancing the Benefits with the Potential Risks. Journal of Stroke, 2022, 24, 163-165.   | 1.4 | 0         |
| 168 | Abstract WMP81: Association Between Systemic Amyloidosis And Intracranial Hemorrhage. Stroke, 2022, 53, .  | 1.0 | 0         |
| 169 | Abstract TMP13: Risk Stratification Models For Stroke In Patients Hospitalized With Covid-19 Infection: An American Heart Association Covid-19 CVD Registry Study. Stroke, 2022, 53, .                         | 1.0 | 0         |