

# Michael M Binkley

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

609  
citations

840776

11  
h-index

642732

23  
g-index

31  
all docs

31  
docs citations

31  
times ranked

770  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phototrophic extracellular electron uptake is linked to carbon dioxide fixation in the bacterium <i>Rhodospseudomonas palustris</i> . <i>Nature Communications</i> , 2019, 10, 1355.	12.8	101
2	Regional oxygen extraction predicts border zone vulnerability to stroke in sickle cell disease. <i>Neurology</i> , 2018, 90, e1134-e1142.	1.1	81
3	Silent infarcts in sickle cell disease occur in the border zone region and are associated with low cerebral blood flow. <i>Blood</i> , 2018, 132, 1714-1723.	1.4	78
4	Red cell exchange transfusions lower cerebral blood flow and oxygen extraction fraction in pediatric sickle cell anemia. <i>Blood</i> , 2018, 131, 1012-1021.	1.4	68
5	Hydroxyurea reduces cerebral metabolic stress in patients with sickle cell anemia. <i>Blood</i> , 2019, 133, 2436-2444.	1.4	43
6	Large-Vessel Vasculopathy in Children With Sickle Cell Disease: A Magnetic Resonance Imaging Study of Infarct Topography and Focal Atrophy. <i>Pediatric Neurology</i> , 2017, 69, 49-57.	2.1	37
7	Early Neurological Change After Ischemic Stroke Is Associated With 90-Day Outcome. <i>Stroke</i> , 2021, 52, 132-141.	2.0	36
8	Reduction in Overt and Silent Stroke Recurrence Rate Following Cerebral Revascularization Surgery in Children with Sickle Cell Disease and Severe Cerebral Vasculopathy. <i>Pediatric Blood and Cancer</i> , 2016, 63, 1431-1437.	1.5	26
9	Bulk volume susceptibility difference between deoxyhemoglobin and oxyhemoglobin for HbA and HbS: A comparative study. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 3383-3393.	3.0	17
10	Cerebral Oxygen Metabolic Stress, Microstructural Injury, and Infarction in Adults With Sickle Cell Disease. <i>Neurology</i> , 2021, 97, e902-e912.	1.1	14
11	Lesion evolution and neurodegeneration in RVCL-S. <i>Neurology</i> , 2020, 95, e1918-e1931.	1.1	13
12	Increased complications of chronic erythrocytapheresis compared with manual exchange transfusions in children and adolescents with sickle cell disease. <i>Pediatric Blood and Cancer</i> , 2017, 64, e26635.	1.5	12
13	Functional Connectivity Decreases with Metabolic Stress in Sickle Cell Disease. <i>Annals of Neurology</i> , 2020, 88, 995-1008.	5.3	11
14	Deep learning-based T1-enhanced selection of linear attenuation coefficients (DL-TESLA) for PET/MR attenuation correction in dementia neuroimaging. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 499-513.	3.0	11
15	Cerebral Oxygen Metabolic Stress is Increased in Children with Sickle Cell Anemia Compared to Anemic Controls. <i>American Journal of Hematology</i> , 2022, , .	4.1	10
16	Elevations in MR Measurements of Whole Brain and Regional Cerebral Blood Flow and Oxygen Extraction Fraction Suggest Cerebral Metabolic Stress in Children with Sickle Cell Disease Unaffected By Overt Stroke. <i>Blood</i> , 2015, 126, 69-69.	1.4	9
17	Tuning the Coupled-Domain Response for Efficient Ultrasonic Droplet Generation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 1893-1904.	3.0	8
18	Antibody Conjugate Assembly on Ultrasound-Confined Microcarrier Particles. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6108-6116.	5.2	6

#	ARTICLE	IF	CITATIONS
19	Child Neurology Applicants Place Increasing Emphasis on Quality of Life Factors. <i>Pediatric Neurology</i> , 2021, 114, 42-46.	2.1	5
20	Silent Infarcts, White Matter Integrity, and Oxygen Metabolic Stress in Young Adults With and Without Sickle Cell Trait. <i>Stroke</i> , 2022, 53, 2887-2895.	2.0	5
21	<sc>MRâ€œassisted PET</sc> respiratory motion correction using <sc>deepâ€œlearning</sc> based <sc>shortâ€œscan</sc> motion fields. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 676-690.	3.0	4
22	Rate of Infarctâ€œEdema Growth on CT Predicts Need for Surgical Intervention and Clinical Outcome in Patients with Cerebellar Infarction. <i>Neurocritical Care</i> , 2022, 36, 1011-1021.	2.4	4
23	Probing singleâ€œcell oxygen reserve in sickled erythrocytes via in vivo photoacoustic microscopy. <i>American Journal of Hematology</i> , 2022, 97, .	4.1	3
24	GRAPES: Trivia game increases sickle cell disease knowledge in patients and providers and mitigates healthcare biases. <i>Pediatric Blood and Cancer</i> , 2022, , e29717.	1.5	3
25	MR Imaging Differences in the Circle of Willis between Healthy Children and Adults. <i>American Journal of Neuroradiology</i> , 2021, 42, 2062-2069.	2.4	2
26	Trends in Racial and Ethnic Diversity in Vascular Neurology Fellowships From 2006 to 2018: A Cross-Sectional Analysis. <i>Stroke</i> , 2022, 53, 867-874.	2.0	2
27	Abstract 51: Aging and Metabolic Stress Are Associated With Disrupted White Matter Integrity in Children and Young Adults With Sickle Cell Disease. <i>Stroke</i> , 2019, 50, .	2.0	0
28	Acoustofluidic platform for in-channel immunoassays. , 2019, , .		0
29	Chemical synthesis of contrast probes on ultrasound confined particles (Conference Presentation). , 2019, , .		0
30	Increased Cerebral Metabolic Stress Is Associated with Diminished Functional Connectivity in Pediatric Sickle Cell Anemia. <i>Blood</i> , 2019, 134, 989-989.	1.4	0
31	Grapes: Trivia Game Increases Sickle Cell Disease Knowledge in Patients and Providers and Mitigates Health Biases. <i>Blood</i> , 2021, 138, 917-917.	1.4	0