

Elizabeth R Seaquist

List of Publications by Year in descending order

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79
papers

7,522
citations

117571

34
h-index

66879

78
g-index

79
all docs

79
docs citations

79
times ranked

7721
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypoglycemia and Diabetes: A Report of a Workgroup of the American Diabetes Association and The Endocrine Society. <i>Diabetes Care</i> , 2013, 36, 1384-1395.	4.3	1,125
2	Evaluation and Management of Adult Hypoglycemic Disorders: An Endocrine Society Clinical Practice Guideline. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009, 94, 709-728.	1.8	976
3	The association between symptomatic, severe hypoglycaemia and mortality in type 2 diabetes: retrospective epidemiological analysis of the ACCORD study. <i>BMJ: British Medical Journal</i> , 2010, 340, b4909-b4909.	2.4	807
4	Epidemiologic Relationships Between A1C and All-Cause Mortality During a Median 3.4-Year Follow-up of Glycemic Treatment in the ACCORD Trial. <i>Diabetes Care</i> , 2010, 33, 983-990.	4.3	389
5	The effects of baseline characteristics, glycaemia treatment approach, and glycated haemoglobin concentration on the risk of severe hypoglycaemia: post hoc epidemiological analysis of the ACCORD study. <i>BMJ: British Medical Journal</i> , 2010, 340, b5444-b5444.	2.4	359
6	Hypoglycaemia, cardiovascular disease, and mortality in diabetes: epidemiology, pathogenesis, and management. <i>Lancet Diabetes and Endocrinology</i> , 2019, 7, 385-396.	5.5	298
7	Poor Cognitive Function and Risk of Severe Hypoglycemia in Type 2 Diabetes. <i>Diabetes Care</i> , 2012, 35, 787-793.	4.3	291
8	A mathematical model of compartmentalized neurotransmitter metabolism in the human brain. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2001, 281, E100-E112.	1.8	290
9	Hypoglycemia and Diabetes: A Report of a Workgroup of the American Diabetes Association and The Endocrine Society. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, 1845-1859.	1.8	223
10	Steady-State Cerebral Glucose Concentrations and Transport in the Human Brain. <i>Journal of Neurochemistry</i> , 1998, 70, 397-408.	2.1	215
11	The Effect of Nonsurgical Periodontal Therapy on Hemoglobin A _{1c} Levels in Persons With Type 2 Diabetes and Chronic Periodontitis. <i>JAMA - Journal of the American Medical Association</i> , 2013, 310, 2523.	3.8	211
12	Effect of hypoglycemia on brain glycogen metabolism in vivo. <i>Journal of Neuroscience Research</i> , 2003, 72, 25-32.	1.3	186
13	Diffusion Tensor Imaging Identifies Deficits in White Matter Microstructure in Subjects With Type 1 Diabetes That Correlate With Reduced Neurocognitive Function. <i>Diabetes</i> , 2008, 57, 3083-3089.	0.3	167
14	The Impact of Frequent and Unrecognized Hypoglycemia on Mortality in the ACCORD Study. <i>Diabetes Care</i> , 2012, 35, 409-414.	4.3	134
15	Severe Hypoglycemia Requiring Medical Intervention in a Large Cohort of Adults With Diabetes Receiving Care in U.S. Integrated Health Care Delivery Systems: 2005-2011. <i>Diabetes Care</i> , 2016, 39, 363-370.	4.3	121
16	Human brain glycogen content and metabolism: implications on its role in brain energy metabolism. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E946-E951.	1.8	114
17	Human Brain Glycogen Metabolism During and After Hypoglycemia. <i>Diabetes</i> , 2009, 58, 1978-1985.	0.3	97
18	Brain glucose concentrations in patients with type 1 diabetes and hypoglycemia unawareness. <i>Journal of Neuroscience Research</i> , 2005, 79, 42-47.	1.3	88

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19	Observation of resolved glucose signals in ¹ H NMR spectra of the human brain at 4 Tesla. <i>Magnetic Resonance in Medicine</i> , 1996, 36, 1-6.	1.9	87
20	Direct, noninvasive measurement of brain glycogen metabolism in humans. <i>Neurochemistry International</i> , 2003, 43, 323-329.	1.9	86
21	Central Mechanisms of Glucose Sensing and Counterregulation in Defense of Hypoglycemia. <i>Endocrine Reviews</i> , 2019, 40, 768-788.	8.9	64
22	The Final Frontier: How Does Diabetes Affect the Brain?. <i>Diabetes</i> , 2010, 59, 4-5.	0.3	59
23	Severe hypoglycemia symptoms, antecedent behaviors, immediate consequences and association with glycemia medication usage: Secondary analysis of the ACCORD clinical trial data. <i>BMC Endocrine Disorders</i> , 2012, 12, 5.	0.9	58
24	Brain Glycogen Content and Metabolism in Subjects with Type 1 Diabetes and Hypoglycemia Unawareness. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 256-263.	2.4	54
25	The Impact of Diabetes on Cerebral Structure and Function. <i>Psychosomatic Medicine</i> , 2015, 77, 616-621.	1.3	53
26	Postnatal age influences hypoglycemia-induced neuronal injury in the rat brain. <i>Brain Research</i> , 2008, 1224, 119-126.	1.1	47
27	Feasibility and reproducibility of neurochemical profile quantification in the human hippocampus at 3T. <i>NMR in Biomedicine</i> , 2015, 28, 685-693.	1.6	46
28	Brain glucose concentrations in poorly controlled diabetes mellitus as measured by high-field magnetic resonance spectroscopy. <i>Metabolism: Clinical and Experimental</i> , 2005, 54, 1008-1013.	1.5	44
29	Identification of a high concentration of scyllo-inositol in the brain of a healthy human subject using ¹ H- and ¹³ C-NMR. <i>Magnetic Resonance in Medicine</i> , 1998, 39, 313-316.	1.9	42
30	Effect of thiazolidinediones and insulin on cognitive outcomes in ACCORD-MIND. <i>Journal of Diabetes and Its Complications</i> , 2013, 27, 485-491.	1.2	41
31	Hypoglycemia-Induced Increases in Thalamic Cerebral Blood Flow are Blunted in Subjects with Type 1 Diabetes and Hypoglycemia Unawareness. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 2084-2090.	2.4	40
32	Revisiting Glycogen Content in the Human Brain. <i>Neurochemical Research</i> , 2015, 40, 2473-2481.	1.6	38
33	Neurochemical Profile of Patients with Type 1 Diabetes Measured by ¹ H-MRS at 4 T. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 754-759.	2.4	36
34	Effect of Intensive Blood Pressure Lowering on Incident Atrial Fibrillation and P-Wave Indices in the ACCORD Blood Pressure Trial. <i>American Journal of Hypertension</i> , 2016, 29, 1276-1282.	1.0	36
35	Hypoglycemia in diabetes: The dark side of diabetes treatment. A patient-centered review. <i>Journal of Diabetes</i> , 2019, 11, 711-718.	0.8	35
36	Brain glucose concentrations in healthy humans subjected to recurrent hypoglycemia. <i>Journal of Neuroscience Research</i> , 2005, 82, 525-530.	1.3	34

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37	Addressing the Burden of Diabetes. JAMA - Journal of the American Medical Association, 2014, 311, 2267.	3.8	31
38	Cerebral glycogen in humans following acute and recurrent hypoglycemia: Implications on a role in hypoglycemia unawareness. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2883-2893.	2.4	30
39	Changes in Human Brain Glutamate Concentration during Hypoglycemia: Insights into Cerebral Adaptations in Hypoglycemia-Associated Autonomic Failure in Type 1 Diabetes. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 876-882.	2.4	27
40	Type 1 Diabetes and Impaired Awareness of Hypoglycemia Are Associated with Reduced Brain Gray Matter Volumes. Frontiers in Neuroscience, 2017, 11, 529.	1.4	25
41	Insulin Reduces the BOLD Response but is without Effect on the VEP during Presentation of a Visual Task in Humans. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 154-160.	2.4	24
42	Hypoglycemia as a Driver of Cardiovascular Risk in Diabetes. Current Atherosclerosis Reports, 2013, 15, 351.	2.0	24
43	Training status diverges muscle diacylglycerol accumulation during free fatty acid elevation. American Journal of Physiology - Endocrinology and Metabolism, 2014, 307, E124-E131.	1.8	24
44	Redefining Hypoglycemia in Clinical Trials: Validation of Definitions Recently Adopted by the American Diabetes Association/European Association for the Study of Diabetes. Diabetes Care, 2020, 43, 398-404.	4.3	23
45	Approach to the Patient with Type 2 Diabetes and Progressive Kidney Disease. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 3103-3110.	1.8	22
46	Development of a model to predict 5-year risk of severe hypoglycemia in patients with type 2 diabetes. BMJ Open Diabetes Research and Care, 2018, 6, e000527.	1.2	22
47	Prevalence of microvascular and macrovascular disease in the Glycemia Reduction Approaches in Diabetes - A Comparative Effectiveness (GRADE) Study cohort. Diabetes Research and Clinical Practice, 2020, 165, 108235.	1.1	20
48	Comparison of arterialized venous sampling from the hand and foot in the assessment of in vivo glucose metabolism. Metabolism: Clinical and Experimental, 1997, 46, 1364-1366.	1.5	19
49	Effect of acute hyperglycemia on visual cortical activation as measured by functional MRI. Journal of Neuroscience Research, 2000, 62, 279-285.	1.3	19
50	Naltrexone for treatment of impaired awareness of hypoglycemia in type 1 diabetes: A randomized clinical trial. Journal of Diabetes and Its Complications, 2015, 29, 1277-1282.	1.2	16
51	Association between mild and severe hypoglycemia in people with type 2 diabetes initiating insulin. Journal of Diabetes and Its Complications, 2017, 31, 1047-1052.	1.2	15
52	Hypothalamic Glucose Transport in Humans During Experimentally Induced Hypoglycemia-Associated Autonomic Failure. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 3571-3580.	1.8	15
53	Measurement of Hypothalamic Glucose Under Euglycemia and Hyperglycemia by MRI at 3T. Journal of Magnetic Resonance Imaging, 2017, 45, 681-691.	1.9	14
54	Hypoglycemia in Diabetes. JAMA - Journal of the American Medical Association, 2017, 318, 31.	3.8	13

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55	Structural Alterations in Deep Brain Structures in Type 1 Diabetes. <i>Diabetes</i> , 2020, 69, 2458-2466.	0.3	13
56	How Significant Is Severe Hypoglycemia in Older Adults With Diabetes?. <i>Diabetes Care</i> , 2020, 43, 512-514.	4.3	13
57	Multiple predictively equivalent risk models for handling missing data at time of prediction: With an application in severe hypoglycemia risk prediction for type 2 diabetes. <i>Journal of Biomedical Informatics</i> , 2020, 103, 103379.	2.5	12
58	Noninvasive measurement of brain glycogen by nuclear magnetic resonance spectroscopy and its application to the study of brain metabolism. <i>Journal of Neuroscience Research</i> , 2011, 89, 1905-1912.	1.3	11
59	Sitagliptin Results in a Decrease of Truncated Apolipoprotein C1. <i>Diabetes Therapy</i> , 2015, 6, 395-401.	1.2	11
60	In vivo Magnetic Resonance Spectroscopy of cerebral glycogen metabolism in animals and humans. <i>Metabolic Brain Disease</i> , 2015, 30, 255-261.	1.4	11
61	American Diabetes Association Research Symposium: Diabetes and the Brain. <i>Diabetes</i> , 2012, 61, 3056-3062.	0.3	10
62	Different FreeSurfer versions might generate different statistical outcomes in caseâ€“control comparison studies. <i>Neuroradiology</i> , 2022, 64, 765-773.	1.1	8
63	The cross-sectional association of renal dysfunction with tests of cognition in middle-aged adults with early type 2 diabetes. <i>Journal of Diabetes and Its Complications</i> , 2021, 35, 107805.	1.2	7
64	Monitoring the Neurotransmitter Response to Glycemic Changes Using an Advanced Magnetic Resonance Spectroscopy Protocol at 7T. <i>Frontiers in Neurology</i> , 2021, 12, 698675.	1.1	7
65	Hippocampal Neurochemical Profile and Glucose Transport Kinetics in Patients With Type 1 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, 479-491.	1.8	6
66	State-Dependent Changes in Brain Glycogen Metabolism. <i>Advances in Neurobiology</i> , 2019, 23, 269-309.	1.3	6
67	The use of the hypoglycaemic clamp in the assessment of pituitary function. <i>Clinical Endocrinology</i> , 1999, 51, 709-714.	1.2	4
68	Changes in diabetes medications in the Diabetes and Periodontal Therapy Trial and their effect on hemoglobin A1c (HbA 1c). <i>Contemporary Clinical Trials</i> , 2016, 50, 21-27.	0.8	4
69	Duration and onset of action of high dose Uâ€“500 regular insulin in severely insulin resistant subjects with type 2 diabetes. <i>Endocrinology, Diabetes and Metabolism</i> , 2018, 1, e00041.	1.0	4
70	Association of Glycemia, Lipids, and Blood Pressure With Cognitive Performance in People With Type 2 Diabetes in the Glycemia Reduction Approaches in Diabetes: A Comparative Effectiveness Study (GRADE). <i>Diabetes Care</i> , 2021, 44, 2286-2292.	4.3	4
71	Sweet and Low: Measuring Brain Glucose During Hypoglycemia: FIG. 1.. <i>Diabetes</i> , 2012, 61, 1918-1919.	0.3	3
72	Hypoglycaemia, emergency care and diabetes mellitus. <i>Nature Reviews Endocrinology</i> , 2014, 10, 384-385.	4.3	3

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73	The cross-sectional association of cognition with diabetic peripheral and autonomic neuropathyâ€”The GRADE study. <i>Journal of Diabetes and Its Complications</i> , 2021, 35, 108047.	1.2	3
74	Practical strategies to normalize hyperglycemia without undue hypoglycemia in type 2 diabetes mellitus. <i>Current Diabetes Reports</i> , 2008, 8, 375-382.	1.7	2
75	2014 Presidential Address: Stop Diabetesâ€”It Is Up to Us. <i>Diabetes Care</i> , 2015, 38, 737-742.	4.3	2
76	Infusion of Nâ€acetyl cysteine during hypoglycaemia in humans does not preserve the counterregulatory response to subsequent hypoglycaemia. <i>Endocrinology, Diabetes and Metabolism</i> , 2020, 3, e00144.	1.0	2
77	Celebrating 100â€...years of insulin with Dr Elizabeth Seaquist. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	1.2	1
78	Heterogeneity in epinephrine response to experimental hypoglycemia in type 1 diabetes and controls. <i>Journal of the Endocrine Society</i> , 2022, 6, bvac046.	0.1	1
79	Response to Comment on Pathak et al. Severe Hypoglycemia Requiring Medical Intervention in a Large Cohort of Adults With Diabetes Receiving Care in U.S. Integrated Health Care Delivery Systems: 2005â€“2011. <i>Diabetes Care</i> 2016;39:363â€“370. <i>Diabetes Care</i> , 2017, 40, e26-e26.	4.3	0