Barbara E K Klein

List of Publications by Year in descending order

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53660 23472 13,262 139 45 111 citations h-index g-index papers 139 139 139 15690 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Global Prevalence and Major Risk Factors of Diabetic Retinopathy. Diabetes Care, 2012, 35, 556-564.	4.3	3,439
2	A large genome-wide association study of age-related macular degeneration highlights contributions of rare and common variants. Nature Genetics, 2016, 48, 134-143.	9.4	1,167
3	Revised formulas for summarizing retinal vessel diameters. Current Eye Research, 2003, 27, 143-149.	0.7	755
4	Retinal Arteriolar Narrowing and Risk of Coronary Heart Disease in Men and Women. JAMA - Journal of the American Medical Association, 2002, 287, 1153-9.	3.8	678
5	Diabetic Retinopathy in a Multi-ethnic Cohort in the United States. American Journal of Ophthalmology, 2006, 141, 446-455.e1.	1.7	548
6	Diabetic Microvascular Disease: An Endocrine Society Scientific Statement. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 4343-4410.	1.8	323
7	Incidence and progression of diabetic retinopathy: a systematic review. Lancet Diabetes and Endocrinology,the, 2019, 7, 140-149.	5.5	299
8	Prediction of Incident Stroke Events Based on Retinal Vessel Caliber: A Systematic Review and Individual-Participant Meta-Analysis. American Journal of Epidemiology, 2009, 170, 1323-1332.	1.6	285
9	Meta-analysis: Retinal Vessel Caliber and Risk for Coronary Heart Disease. Annals of Internal Medicine, 2009, 151, 404.	2.0	273
10	The association of atherosclerosis, vascular risk factors, and retinopathy in adults with diabetes. Ophthalmology, 2002, 109, 1225-1234.	2.5	264
11	A Diet History Questionnaire Ranks Nutrient Intakes in Middle-Aged and Older Men and Women Similarly to Multiple Food Records. Journal of Nutrition, 1993, 123, 489-501.	1.3	250
12	Cardiovascular and metabolic effects of metformin in patients with type 1 diabetes (REMOVAL): a double-blind, randomised, placebo-controlled trial. Lancet Diabetes and Endocrinology,the, 2017, 5, 597-609.	5 . 5	248
13	Genome-wide association meta-analysis highlights light-induced signaling as a driver for refractive error. Nature Genetics, 2018, 50, 834-848.	9.4	239
14	Accuracy of Self-reported Hearing Loss. International Journal of Audiology, 1998, 37, 295-301.	0.9	211
15	Ageâ€Related Sensory Impairments and Risk of Cognitive Impairment. Journal of the American Geriatrics Society, 2016, 64, 1981-1987.	1.3	172
16	The wisconsin epidemiological study of diabetic retinopathy: A review. Diabetes/metabolism Reviews, 1989, 5, 559-570.	0.2	148
17	Adiposity and risk of decline in glomerular filtration rate: meta-analysis of individual participant data in a global consortium. BMJ: British Medical Journal, 2019, 364, k5301.	2.4	139
18	Retinal Arteriolar Narrowing and Left Ventricular Remodeling. Journal of the American College of Cardiology, 2007, 50, 48-55.	1.2	137

#	Article	IF	CITATIONS
19	Smoking, Central Adiposity, and Poor Glycemic Control Increase Risk of Hearing Impairment. Journal of the American Geriatrics Society, 2015, 63, 918-924.	1.3	132
20	Serum carotenoids and tocopherols and incidence of age-related nuclear cataract. American Journal of Clinical Nutrition, 1999, 69, 272-277.	2.2	128
21	Markers of Inflammation, Oxidative Stress, and Endothelial Dysfunction and the 20-Year Cumulative Incidence of Early Age-Related Macular Degeneration. JAMA Ophthalmology, 2014, 132, 446.	1.4	122
22	Retinal Microvascular Signs, Cognitive Function, and Dementia in Older Persons. Stroke, 2007, 38, 2041-2047.	1.0	121
23	Aortic Distensibility and Retinal Arteriolar Narrowing. Hypertension, 2007, 50, 617-622.	1.3	115
24	Genome-Wide Linkage Analyses to Identify Loci for Diabetic Retinopathy. Diabetes, 2007, 56, 1160-1166.	0.3	106
25	The ten-year incidence of tinnitus among older adults. International Journal of Audiology, 2010, 49, 580-585.	0.9	105
26	Hearing-aid use and long-term health outcomes: Hearing handicap, mental health, social engagement, cognitive function, physical health, and mortality. International Journal of Audiology, 2015, 54, 838-844.	0.9	105
27	Meta-analysis of gene–environment-wide association scans accounting for education level identifies additional loci for refractive error. Nature Communications, 2016, 7, 11008.	5.8	104
28	The Relation of Markers of Inflammation and Endothelial Dysfunction to the Prevalence and Progression of Diabetic Retinopathy. JAMA Ophthalmology, 2009, 127, 1175.	2.6	97
29	Statin Use and Incident Nuclear Cataract. JAMA - Journal of the American Medical Association, 2006, 295, 2752.	3.8	96
30	Olfactory impairment in older adults: Fiveâ€year incidence and risk factors. Laryngoscope, 2011, 121, 873-878.	1.1	93
31	Multiple sensory impairment and quality of life. Ophthalmic Epidemiology, 2009, 16, 346-353.	0.8	87
32	Prevalence of Sleep Problems and Quality of Life in an Older Population. Sleep, 2002, , .	0.6	85
33	Genome-wide association study in a Chinese population with diabetic retinopathy. Human Molecular Genetics, 2013, 22, 3165-3173.	1.4	84
34	Association of Diabetic Macular Edema and Proliferative Diabetic Retinopathy With Cardiovascular Disease. JAMA Ophthalmology, 2017, 135, 586.	1.4	84
35	Identification of Diabetic Retinopathy Genes through a Genome-Wide Association Study among Mexican-Americans from Starr County, Texas. Journal of Ophthalmology, 2010, 2010, 1-9.	0.6	77
36	Retinal Arteriolar Emboli and Long-Term Mortality. Stroke, 2006, 37, 1833-1836.	1.0	75

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37	Serum Lipids and Proliferative Diabetic Retinopathy and Macular Edema in Persons With Long-term Type 1 Diabetes Mellitus. JAMA Ophthalmology, 2015, 133, 503.	1.4	74
38	Hypertensive Retinopathy and Risk of Stroke. Hypertension, 2013, 62, 706-711.	1.3	72
39	Life-style Correlates of Tooth Loss in an Adult Midwestern Population. Journal of Public Health Dentistry, 2004, 64, 145-150.	0.5	65
40	Association of Leisure-Time Noise Exposure and Hearing Loss: Asociaci \tilde{A}^3 n entre exposici \tilde{A}^3 n a ruido durante el tiempo libre e hipoacusia. International Journal of Audiology, 2001, 40, 1-9.	0.9	60
41	The association of previously reported polymorphisms for microvascular complications in a meta-analysis of diabetic retinopathy. Human Genetics, 2015, 134, 247-257.	1.8	60
42	Guidance on radiation dose limits for the lens of the eye: overview of the recommendations in NCRP Commentary No. 26. International Journal of Radiation Biology, 2017, 93, 1015-1023.	1.0	60
43	Long-term Use of Aspirin and Age-Related Macular Degeneration. JAMA - Journal of the American Medical Association, 2012, 308, 2469.	3.8	59
44	Genetic Determinants of Age-Related Macular Degeneration in Diverse Populations From the PAGE Study. Investigative Ophthalmology and Visual Science, 2014, 55, 6839-6850.	3.3	59
45	Multiethnic Genome-Wide Association Study of Diabetic Retinopathy Using Liability Threshold Modeling of Duration of Diabetes and Glycemic Control. Diabetes, 2019, 68, 441-456.	0.3	54
46	A genomeâ€wide association study suggests new evidence for an association of the <scp>NADPH</scp> Oxidase 4 (<i><scp>NOX</scp>4</i>) gene with severe diabetic retinopathy in type 2 diabetes. Acta Ophthalmologica, 2018, 96, e811-e819.	0.6	52
47	Determinants of Retinal Venular Diameter: The Beaver Dam Eye Study. Ophthalmology, 2012, 119, 2563-2571.	2.5	46
48	Exome Array Analysis Identifies CAV1/CAV2 as a Susceptibility Locus for Intraocular Pressure. Investigative Ophthalmology and Visual Science, 2015, 56, 544-551.	3.3	43
49	Replication Analysis for Severe Diabetic Retinopathy. , 2012, 53, 2377.		42
50	Comparison of Common Retinal Vessel Caliber Measurement Software and a Conversion Algorithm. Translational Vision Science and Technology, 2016, 5, 11.	1.1	42
51	Retinal microvascular calibre and risk of diabetes mellitus: a systematic review and participant-level meta-analysis. Diabetologia, 2015, 58, 2476-2485.	2.9	41
52	Genome-Wide Meta-Analysis of Myopia and Hyperopia Provides Evidence for Replication of 11 Loci. PLoS ONE, 2014, 9, e107110.	1.1	40
53	Five-year progression of unilateral age-related macular degeneration to bilateral involvement: the Three Continent AMD Consortium report. British Journal of Ophthalmology, 2017, 101, 1185-1192.	2.1	38
54	A Bayesian approach to modelling the natural history of a chronic condition from observations with intervention., 1999, 18, 1355-1371.		35

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55	Adequate vitamin D status is associated with the reduced odds of prevalent diabetic retinopathy in African Americans and Caucasians. Cardiovascular Diabetology, 2016, 15, 128.	2.7	35
56	Longâ€Term Variability of Inflammatory Markers and Associated Factors in a Populationâ€Based Cohort. Journal of the American Geriatrics Society, 2013, 61, 1269-1276.	1.3	34
57	Smoothing Spline ANOVA for Multivariate Bernoulli Observations With Application to Ophthalmology Data. Journal of the American Statistical Association, 2001, 96, 127-160.	1.8	33
58	Sunlight Exposure, Pigmentation, and Incident Age-Related Macular Degeneration., 2014, 55, 5855.		32
59	Severity of Age-Related Macular Degeneration in 1 Eye and the Incidence and Progression of Age-Related Macular Degeneration in the Fellow Eye. JAMA Ophthalmology, 2015, 133, 125.	1.4	31
60	Retinal signs and risk of incident dementia in the Atherosclerosis Risk in Communities study. Alzheimer's and Dementia, 2019, 15, 477-486.	0.4	31
61	Retinal signs and 20-year cognitive decline in the Atherosclerosis Risk in Communities Study. Neurology, 2018, 90, e1158-e1166.	1.5	29
62	Sensorineural Impairments, Cardiovascular Risk Factors, and 10-Year Incidence of Cognitive Impairment and Decline in Midlife: The Beaver Dam Offspring Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 1786-1792.	1.7	28
63	Inflammatory and vascular markers and olfactory impairment in older adults. Age and Ageing, 2015, 44, 878-882.	0.7	26
64	Meta-genome-wide association studies identify a locus on chromosome 1 and multiple variants in the MHC region for serum C-peptide in type 1 diabetes. Diabetologia, $2018, 61, 1098-1111$.	2.9	26
65	Odor detection thresholds in a population of older adults. Laryngoscope, 2017, 127, 1257-1262.	1.1	24
66	Dietary Intake of Lutein and Diabetic Retinopathy in the Atherosclerosis Risk in Communities Study (ARIC). Ophthalmic Epidemiology, 2016, 23, 99-108.	0.8	23
67	Forecasting Age-Related Macular Degeneration Through 2050. JAMA - Journal of the American Medical Association, 2009, 301, 2152.	3.8	21
68	Sexâ€Specific Association of Obstructive Sleep Apnea With Retinal Microvascular Signs: The Multiâ€Ethnic Study of Atherosclerosis. Journal of the American Heart Association, 2016, 5, .	1.6	20
69	Brain Aging in Midlife: The Beaver Dam Offspring Study. Journal of the American Geriatrics Society, 2019, 67, 1610-1616.	1.3	20
70	Refraction and Change in Refraction Over a 20-Year Period in the Beaver Dam Eye Study., 2018, 59, 4518.		18
71	Cadmium, obesity, and education, and the 10â€year incidence of hearing impairment: The beaver dam offspring study. Laryngoscope, 2020, 130, 1396-1401.	1.1	18
72	Retinal Microvascular Changes and the Risk of Developing Obesity: Population-Based Cohort Study. Microcirculation, 2011, 18, 655-662.	1.0	17

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73	Association of Cadmium and Lead Exposure With the Incidence of Contrast Sensitivity Impairment Among Middle-aged Adults. JAMA Ophthalmology, 2018, 136, 1342.	1.4	17
74	Usual consumption of plant foods containing phytoestrogens and sex hormone levels in postmenopausal women in Wisconsin. Nutrition and Cancer, 1998, 30, 207-212.	0.9	16
75	Detecting Progression of Nuclear Sclerosis by Using Human Grading Versus Semiautomated Computer Grading., 2005, 46, 1155.		14
76	Refraction in Adults With Diabetes. JAMA Ophthalmology, 2011, 129, 56.	2.6	14
77	Nitrate-nitrogen levels in rural drinking water: Is there an association with age-related macular degeneration?. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 1757-1763.	0.9	14
78	Genetic Determinants of Glycated Hemoglobin in Type 1 Diabetes. Diabetes, 2019, 68, 858-867.	0.3	14
79	Serum Cholesterol in Wisconsin Epidemiologic Study of Diabetic Retinopathy. Diabetes Care, 1992, 15, 282-287.	4.3	13
80	Cystatin C, Other Markers of Kidney Disease, and Incidence of Age-Related Cataract. JAMA Ophthalmology, 2008, 126, 1724.	2.6	13
81	Body Fat Distribution and Diabetic Retinopathy in People With Type 2 Diabetes. JAMA - Journal of the American Medical Association, 2016, 315, 1778.	3.8	13
82	Serum 25-Hydroxyvitamin D Concentrations and Incidence of Age-Related Macular Degeneration: The Atherosclerosis Risk in Communities Study., 2019, 60, 1362.		13
83	Projected Prevalences of Age-Related Eye Diseases. , 2013, 54, ORSF14.		12
84	Associations Between Methylenetetrahydrofolate Reductase Polymorphisms, Serum Homocysteine Levels, and Incident Cortical Cataract. JAMA Ophthalmology, 2016, 134, 522.	1.4	11
85	Macular Ganglion Cell-Inner Plexiform Layer as a Marker of Cognitive and Sensory Function in Midlife. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, e42-e48.	1.7	11
86	Metformin and carotid intimaâ€media thickness in neverâ€smokers with type <scp>1</scp> diabetes: The <scp>REMOVAL</scp> trial. Diabetes, Obesity and Metabolism, 2021, 23, 1371-1378.	2.2	11
87	Does the intraocular pressure effect on optic disc cupping differ by age?. Transactions of the American Ophthalmological Society, 2006, 104, 143-8.	1.4	11
88	African Ancestry Analysis and Admixture Genetic Mapping for Proliferative Diabetic Retinopathy in African Americans., 2015, 56, 3999.		10
89	Microvasculature and incident atrioventricular conduction abnormalities in the Multi-Ethnic Study of Atherosclerosis (MESA). Vascular Medicine, 2015, 20, 417-423.	0.8	10
90	New Locus for Skin Intrinsic Fluorescence in Type 1 Diabetes Also Associated With Blood and Skin Glycated Proteins. Diabetes, 2016, 65, 2060-2071.	0.3	10

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91	Sleep apnea and retinal signs in cardiovascular disease: the Multi-Ethnic Study of Atherosclerosis. Sleep and Breathing, 2016, 20, 15-23.	0.9	10
92	Common variants in SOX-2 and congenital cataract genes contribute to age-related nuclear cataract. Communications Biology, 2020, 3, 755.	2.0	10
93	Association of Skin Intrinsic Fluorescence with Retinal Microvascular Complications of Long Term Type 1 Diabetes in the Wisconsin Epidemiologic Study of Diabetic Retinopathy. Ophthalmic Epidemiology, 2017, 24, 211-216.	0.8	9
94	Age-related macular degeneration and progression of coronary artery calcium: The Multi-Ethnic Study of Atherosclerosis. PLoS ONE, 2018, 13, e0201000.	1.1	9
95	An Epidemiologic Study of the Association between Free Recall Dichotic Digits Test Performance and Vascular Health. Journal of the American Academy of Audiology, 2019, 30, 282-292.	0.4	9
96	Factors Associated with the Macular Ganglion Cell–Inner Plexiform Layer Thickness in a Cohort of Middle-aged U.S. Adults. Optometry and Vision Science, 2021, 98, 295-305.	0.6	9
97	Complete Blood Cell Count and Retinal Vessel Diameters. JAMA Ophthalmology, 2011, 129, 490.	2.6	8
98	Cross-sectional Associations of Medication and Supplement Use With Retinal Vascular Diameter in the Beaver Dam Eye Study. JAMA Ophthalmology, 2014, 132, 23.	1.4	8
99	Association Between Cystatin C and 20-Year Cumulative Incidence of Hearing Impairment in the Epidemiology of Hearing Loss Study. JAMA Otolaryngology - Head and Neck Surgery, 2018, 144, 469.	1.2	8
100	Benefit of Musical Training for Speech Perception and Cognition Later in Life. Journal of Speech, Language, and Hearing Research, 2021, 64, 2885-2896.	0.7	8
101	The period effect in the prevalence of proliferative diabetic retinopathy, gross proteinuria, and peripheral neuropathy in type 1 diabetes: A longitudinal cohort study. PLoS ONE, 2017, 12, e0174979.	1.1	8
102	Variation in PTCHD2, CRISP3, NAP1L4, FSCB, and AP3B2 associated with spherical equivalent. Molecular Vision, 2016, 22, 783-96.	1.1	8
103	Electrocardiographic Abnormalities in Individuals With Long-Duration Type 1 Diabetes. Diabetes Care, 2005, 28, 145-147.	4.3	7
104	Oxidized Low-Density Lipoprotein and the Incidence of Proliferative Diabetic Retinopathy and Clinically Significant Macular Edema Determined From Fundus Photographs. JAMA Ophthalmology, 2015, 133, 1054.	1.4	7
105	Association between Dietary Xanthophyll (Lutein and Zeaxanthin) Intake and Early Age-Related Macular Degeneration: The Atherosclerosis Risk in Communities Study. Ophthalmic Epidemiology, 2017, 24, 311-322.	0.8	7
106	Chronic kidney disease and the risk of incident hearing loss. Laryngoscope, 2020, 130, E213-E219.	1.1	7
107	Incidence of Hearing Impairment and Changes in Pure-Tone Average Across Generations. JAMA Otolaryngology - Head and Neck Surgery, 2021, 147, 151.	1.2	7
108	Incidence and progression of diabetic retinopathy in a multi-ethnic US cohort: the Multi-Ethnic Study of Atherosclerosis. British Journal of Ophthalmology, 2022, 106, 1264-1268.	2.1	7

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109	Diabetes subgroups and risk for complications: The Multi-Ethnic Study of Atherosclerosis (MESA). Journal of Diabetes and Its Complications, 2021, 35, 107915.	1.2	7
110	Gene Set Enrichment Analsyes Identify Pathways Involved in Genetic Risk for Diabetic Retinopathy. American Journal of Ophthalmology, 2022, 233, 111-123.	1.7	7
111	Self- and registry-reported cancer in a population-based longitudinal study. Wisconsin Medical Journal, 2010, 109, 261-6.	0.3	7
112	Selected Sun-Sensitizing Medications and Incident Cataract. JAMA Ophthalmology, 2010, 128, 959.	2.6	6
113	Genomeâ€wide Linkage Analysis of Multiple Metabolic Factors: Evidence of Genetic Heterogeneity. Obesity, 2010, 18, 146-152.	1.5	6
114	Nerve Fiber Layer Thickness and Characteristics Associated with Glaucoma in Community Living Older Adults: Prelude to a Screening Trial?. Ophthalmic Epidemiology, 2017, 24, 104-110.	0.8	6
115	Serum Cystatin C and the Incidence of Hypertension in Type 1 Diabetes Mellitus. American Journal of Hypertension, 2011, 24, 59-63.	1.0	5
116	Aldose Reductase Polymorphisms, Fasting Blood Glucose, and Age-Related Cortical Cataract., 2018, 59, 4755.		5
117	Neuroprotective factors and incident hearing impairment in the epidemiology of hearing loss study. Laryngoscope, 2019, 129, 2178-2183.	1.1	5
118	The Relation between Sleep Disruption and Cataract in a Large Population-Based Study. Ophthalmic Epidemiology, 2017, 24, 111-115.	0.8	4
119	Predictors of electrocardiographic abnormalities in type 1 Diabetes: the Wisconsin Epidemiologic Study of Diabetic Retinopathy. Journal of Endocrinological Investigation, 2017, 40, 313-318.	1.8	4
120	Cross-Sectional Associations of Blood Elements, Clotting Factors, Nephropathy, and Retinal Outcomes in Long Duration Type 1 Diabetes. Ophthalmic Epidemiology, 2012, 19, 120-126.	0.8	3
121	Statin Use and Cataracts. JAMA Ophthalmology, 2014, 132, 366.	1.4	3
122	Skin Intrinsic Fluorescence and Age-Related Macular Degeneration: The Beaver Dam Eye Study. , 2017, 58, 6328.		3
123	Exome Array Analysis of Nuclear Lens Opacity. Ophthalmic Epidemiology, 2018, 25, 215-219.	0.8	3
124	Association analysis of exome variants and refraction, axial length, and corneal curvature in a European-American population. Human Mutation, 2018, 39, 1973-1979.	1.1	3
125	Longitudinal Decline on the Dichotic Digits Test. American Journal of Audiology, 2020, 29, 862-872.	0.5	3
126	Neural dysfunction and retinopathy in persons with type 1 diabetes. Ophthalmic Epidemiology, 2018, 25, 373-378.	0.8	2

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127	Associations of Sleep Measures with Retinal Microvascular Diameters among Police Officers. Ophthalmic Epidemiology, 2020, 27, 487-497.	0.8	2
128	Association of Retinal Microvascular Signs with Incident Atrial Fibrillation. Ophthalmology Retina, 2021, 5, 78-85.	1.2	2
129	Challenges in epidemiologic research of cataract. Ophthalmic Epidemiology, 1997, 4, 175-176.	0.8	1
130	Visual Function and Its Relationship with Severity of Early, and Activity of Neovascular, Age-Related Macular Degeneration. Journal of Clinical & Experimental Ophthalmology, 2015, 06, 488.	0.1	1
131	Variability in Spectral-Domain Optical Coherence Tomography over 4 Weeks by Age. Ophthalmic Epidemiology, 2016, 23, 193-201.	0.8	1
132	Generational Differences in the 10-year Incidence of Impaired Contrast Sensitivity. Ophthalmic Epidemiology, 2021, 28, 175-182.	0.8	1
133	Backward multiple imputation estimation of the conditional lifetime expectancy function with application to censored human longevity data. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12069-12074.	3.3	0
134	A longitudinal population study of the impact of cataract extraction on sleep quality. Cogent Medicine, 2017, 4, 1314905.	0.7	0
135	P3â€588: BRAINâ€DERIVED NEUROTROPHIC FACTOR AND THE INCIDENCE OF COGNITIVE IMPAIRMENT IN THE EPIDEMIOLOGY OF HEARING LOSS STUDY. Alzheimer's and Dementia, 2018, 14, P1351.	0.4	0
136	Skin Intrinsic Fluorescence and Selected Measures of Visual Function and aging in Older Adults. Ophthalmic Epidemiology, 2019, 26, 264-269.	0.8	0
137	Epidemiology of Myopia and Myopic Shift in Refraction. , 2010, , 3-21.		0
138	Progression of retinopathy in persons with type 2 diabetes: new data, same conclusions?. , 2010, 120, 413-6.		0
139	Association of Central Retinal Arteriolar and Venular Equivalents with Brain-aging and Macular Ganglion Cell-inner Plexiform Layer Thickness. Ophthalmic Epidemiology, 2023, 30, 103-111.	0.8	0