Thomas W Gardner

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Diabetic Retinopathy. New England Journal of Medicine, 2012, 366, 1227-1239.	27.0	1,363
2	Retinopathy in Diabetes. Diabetes Care, 2004, 27, s84-s87.	8.6	853
3	Diabetic Retinopathy. Diabetes, 2006, 55, 2401-2411.	0.6	673
4	Retinal angiogenesis in development and disease. Nature, 2005, 438, 960-966.	27.8	613
5	Diabetic Retinopathy: A Position Statement by the American Diabetes Association. Diabetes Care, 2017, 40, 412-418.	8.6	596
6	Vascular Endothelial Growth Factor Induces Rapid Phosphorylation of Tight Junction Proteins Occludin and Zonula Occluden 1. Journal of Biological Chemistry, 1999, 274, 23463-23467.	3.4	575
7	Diabetic Retinopathy. Survey of Ophthalmology, 2002, 47, S253-S262.	4.0	499
8	Minocycline Reduces Proinflammatory Cytokine Expression, Microglial Activation, and Caspase-3 Activation in a Rodent Model of Diabetic Retinopathy. Diabetes, 2005, 54, 1559-1565.	0.6	485
9	The Ins2 ^{Akita} Mouse as a Model of Early Retinal Complications in Diabetes. , 2005, 46, 2210.		442
10	The Significance of Vascular and Neural Apoptosis to the Pathology of Diabetic Retinopathy. , 2011, 52, 1156.		361
11	Neurodegeneration in diabetic retinopathy: does it really matter?. Diabetologia, 2018, 61, 1902-1912.	6.3	358
12	Retinal neurodegeneration: early pathology in diabetes. Clinical and Experimental Ophthalmology, 2000, 28, 3-8.	2.6	313
13	Insulin Rescues Retinal Neurons from Apoptosis by a Phosphatidylinositol 3-Kinase/Akt-mediated Mechanism That Reduces the Activation of Caspase-3. Journal of Biological Chemistry, 2001, 276, 32814-32821.	3.4	279
14	Five-Year Outcomes of Panretinal Photocoagulation vs Intravitreous Ranibizumab for Proliferative Diabetic Retinopathy. JAMA Ophthalmology, 2018, 136, 1138.	2.5	264
15	Diabetic Retinopathy. Diabetes Care, 2003, 26, 226-229.	8.6	255
16	New insights into the mechanisms of diabetic complications: role of lipids and lipid metabolism. Diabetologia, 2019, 62, 1539-1549.	6.3	240
17	VEGF Activation of Protein Kinase C Stimulates Occludin Phosphorylation and Contributes to Endothelial Permeability. , 2006, 47, 5106.		215
18	Molecular Mechanisms of Vascular Permeability in Diabetic Retinopathy. Seminars in Ophthalmology, 1999, 14, 240-248.	1.6	202

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19	Tissue-specific metabolic reprogramming drives nutrient flux in diabetic complications. JCI Insight, 2016, 1, e86976.	5.0	188
20	Diabetic retinopathy: loss of neuroretinal adaptation to the diabetic metabolic environment. Annals of the New York Academy of Sciences, 2014, 1311, 174-190.	3.8	186
21	Diabetes Reduces Basal Retinal Insulin Receptor Signaling: Reversal With Systemic and Local Insulin. Diabetes, 2006, 55, 1148-1156.	0.6	164
22	Excessive Hexosamines Block the Neuroprotective Effect of Insulin and Induce Apoptosis in Retinal Neurons. Journal of Biological Chemistry, 2001, 276, 43748-43755.	3.4	162
23	Neurodegeneration in the Pathogenesis of Diabetic Retinopathy: Molecular Mechanisms and Therapeutic Implications. Current Medicinal Chemistry, 2013, 20, 3241-3250.	2.4	154
24	The neurovascular unit and the pathophysiologic basis of diabetic retinopathy. Graefe's Archive for Clinical and Experimental Ophthalmology, 2017, 255, 1-6.	1.9	129
25	Effect of Vascular Endothelial Growth Factor on Cultured Endothelial Cell Monolayer Transport Properties. Microvascular Research, 2000, 59, 265-277.	2.5	118
26	Risk Factors for Retinopathy in Type 1 Diabetes: The DCCT/EDIC Study. Diabetes Care, 2019, 42, 875-882.	8.6	114
27	Incidence and Risk Factors for Developing Diabetic Retinopathy among Youths with Type 1 or Type 2 Diabetes throughout the United States. Ophthalmology, 2017, 124, 424-430.	5.2	111
28	Shear stress regulates occludin content and phosphorylation. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H105-H113.	3.2	106
29	Characterization of insulin signaling in rat retina in vivo and ex vivo. American Journal of Physiology - Endocrinology and Metabolism, 2003, 285, E763-E774.	3.5	101
30	Inner retinal visual dysfunction is a sensitive marker of non-proliferative diabetic retinopathy. British Journal of Ophthalmology, 2012, 96, 699-703.	3.9	101
31	Whole genome assessment of the retinal response to diabetes reveals a progressive neurovascular inflammatory response. BMC Medical Genomics, 2008, 1, 26.	1.5	98
32	Functions of insulin and insulin receptor signaling in retina: possible implications for diabetic retinopathy. Progress in Retinal and Eye Research, 2003, 22, 545-562.	15.5	94
33	Diabetic Retinopathy and Diabetic Macular Edema. Developments in Ophthalmology, 2016, 55, 137-146.	0.1	92
34	Proteomic Analysis of Early Diabetic Retinopathy Reveals Mediators of Neurodegenerative Brain Diseases. , 2018, 59, 2264.		91
35	Diabetes Alters Sphingolipid Metabolism in the Retina: A Potential Mechanism of Cell Death in Diabetic Retinopathy. Diabetes, 2006, 55, 3573-3580.	0.6	90
36	Histamine reduces ZO-1 tight-junction protein expression in cultured retinal microvascular endothelial cells. Biochemical Journal, 1996, 320, 717-721.	3.7	87

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37	Subconjunctivally implantable hydrogels with degradable and thermoresponsive properties for sustained release of insulin to the retina. Biomaterials, 2009, 30, 6541-6547.	11.4	86
38	Predicting Development of Proliferative Diabetic Retinopathy. Diabetes Care, 2013, 36, 1562-1568.	8.6	86
39	Analysis of glucose metabolism in diabetic rat retinas. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E1057-E1067.	3.5	84
40	An Integrated Approach to Diabetic Retinopathy Research. JAMA Ophthalmology, 2011, 129, 230.	2.4	83
41	The Retinal Proteome in Experimental Diabetic Retinopathy. Molecular and Cellular Proteomics, 2009, 8, 767-779.	3.8	79
42	Insulin Promotes Rat Retinal Neuronal Cell Survival in a p70S6K-dependent Manner. Journal of Biological Chemistry, 2004, 279, 9167-9175.	3.4	74
43	Increased lipogenesis and impaired β-oxidation predict type 2 diabetic kidney disease progression in American Indians. JCI Insight, 2019, 4, .	5.0	74
44	Multidimensional Functional and Structural Evaluation Reveals Neuroretinal Impairment in Early Diabetic Retinopathy. , 2017, 58, BIO277.		69
45	The molecular structure and function of the inner blood-retinal barrier. Penn State Retina Research Group. Documenta Ophthalmologica, 1999, 97, 229-237.	2.2	64
46	Nonobese, insulin-deficient Ins2 ^{Akita} mice develop type 2 diabetes phenotypes including insulin resistance and cardiac remodeling. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1687-E1696.	3.5	64
47	Disorganization of Retinal Inner Layers (DRIL) and Neuroretinal Dysfunction in Early Diabetic Retinopathy. , 2018, 59, 5481.		64
48	Review Paper: New Insights into the Pathophysiology of Diabetic Retinopathy: Potential Cell-Specific Therapeutic Targets. Diabetes Technology and Therapeutics, 2000, 2, 601-608.	4.4	62
49	Approach for a Clinically Useful Comprehensive Classification of Vascular and Neural Aspects of Diabetic Retinal Disease. , 2018, 59, 519.		62
50	Differential Roles of Hyperglycemia and Hypoinsulinemia in Diabetes Induced Retinal Cell Death: Evidence for Retinal Insulin Resistance. PLoS ONE, 2011, 6, e26498.	2.5	62
51	Effect of Doxycycline vs Placebo on Retinal Function and Diabetic Retinopathy Progression in Patients With Severe Nonproliferative or Non–High-Risk Proliferative Diabetic Retinopathy. JAMA Ophthalmology, 2014, 132, 535.	2.5	55
52	Anti–Vascular Endothelial Growth Factor Therapy for Diabetic Retinopathy: Consequences of Inadvertent Treatment Interruptions. American Journal of Ophthalmology, 2019, 204, 13-18.	3.3	51
53	Impaired retinal vasodilator responses in prediabetes and type 2 diabetes. Acta Ophthalmologica, 2013, 91, e462-e469.	1.1	50
54	Nanoliposomal minocycline for ocular drug delivery. Nanomedicine: Nanotechnology, Biology, and Medicine, 2013, 9, 130-140.	3.3	49

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55	Multimodal Characterization of Proliferative Diabetic Retinopathy Reveals Alterations in Outer Retinal Function and Structure. Ophthalmology, 2015, 122, 957-967.	5.2	49
56	Updating the Staging System for Diabetic Retinal Disease. Ophthalmology, 2021, 128, 490-493.	5.2	49
57	A transmural pressure gradient induces mechanical and biological adaptive responses in endothelial cells. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H731-H741.	3.2	48
58	Comparison of retinal vasodilator and constrictor responses in type 2 diabetes. Acta Ophthalmologica, 2012, 90, e434-41.	1.1	48
59	Differential reduction in corneal nerve fiber length in patients with type 1 or type 2 diabetes mellitus. Journal of Diabetes and Its Complications, 2014, 28, 658-661.	2.3	47
60	Ophthalmic Screening Patterns Among Youths With Diabetes Enrolled in a Large US Managed Care Network. JAMA Ophthalmology, 2017, 135, 432.	2.5	45
61	Ablation of 4E-BP1/2 Prevents Hyperglycemia-Mediated Induction of VEGF Expression in the Rodent Retina and in Müller Cells in Culture. Diabetes, 2010, 59, 2107-2116.	0.6	41
62	Diabetic retinopathy: research to clinical practice. Clinical Diabetes and Endocrinology, 2017, 3, 9.	2.7	41
63	Shared and distinct lipid-lipid interactions in plasma and affected tissues in a diabetic mouse model. Journal of Lipid Research, 2018, 59, 173-183.	4.2	38
64	The Prevalence and Determinants of Cognitive Deficits and Traditional Diabetic Complications in the Severely Obese. Diabetes Care, 2020, 43, 683-690.	8.6	38
65	Novel potential mechanisms for diabetic macular edema: Leveraging new investigational approaches. Current Diabetes Reports, 2008, 8, 263-269.	4.2	37
66	Occludin S490 Phosphorylation Regulates Vascular Endothelial Growth Factor–Induced Retinal Neovascularization. American Journal of Pathology, 2016, 186, 2486-2499.	3.8	37
67	Effect of shear stress on the hydraulic conductivity of cultured bovine retinal microvascular endothelial cell monolayers. Current Eye Research, 2000, 21, 944-951.	1.5	36
68	Diabetic macular oedema and visual loss: relationship to location, severity and duration. Acta Ophthalmologica, 2009, 87, 709-713.	1.1	36
69	The Effects of Diabetic Retinopathy and Pan-Retinal Photocoagulation on Photoreceptor Cell Function as Assessed by Dark Adaptometry. , 2016, 57, 208.		36
70	Safety and Feasibility of Quantitative Multiplexed Cytokine Analysis From Office-Based Vitreous Aspiration. , 2016, 57, 3017.		36
71	Effect of IL-1Î ² on Survival and Energy Metabolism of R28 and RGC-5 Retinal Neurons. , 2008, 49, 5581.		35
72	Visual Field Changes Over 5 Years in Patients Treated With Panretinal Photocoagulation or Ranibizumab for Proliferative Diabetic Retinopathy. JAMA Ophthalmology, 2020, 138, 285.	2.5	35

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73	ANTIHISTAMINES REDUCE BLOODRETINAL BARRIER PERMEABILITY IN TYPE I (INSULIN-DEPENDENT) DIABETIC PATIENTS WITH NONPROLIFERATIVE RETINOPATHY. Retina, 1995, 15, 134-140.	1.7	34
74	A proposal for early and personalized treatment of diabetic retinopathy based on clinical pathophysiology and molecular phenotyping. Vision Research, 2017, 139, 153-160.	1.4	32
75	DIABETIC RETINOPATHY. Medical Clinics of North America, 1998, 82, 847-876.	2.5	31
76	Dynamic Intraocular Pressure Measurements During Vitrectomy. JAMA Ophthalmology, 2005, 123, 1514.	2.4	31
77	Neuroprotection for Diabetic Retinopathy. Developments in Ophthalmology, 2009, 44, 56-68.	0.1	31
78	Rates of Vitrectomy among Enrollees in a United States Managed Care Network, 2001–2012. Ophthalmology, 2016, 123, 590-598.	5.2	31
79	Bioelectric impact of pathological angiogenesis on vascular function. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9934-9939.	7.1	29
80	Effect of Doxycycline vs Placebo on Retinal Function and Diabetic Retinopathy Progression in Mild to Moderate Nonproliferative Diabetic Retinopathy. JAMA Ophthalmology, 2014, 132, 1137.	2.5	27
81	Intraocular Pressure Fluctuations during Scleral Buckling Surgery. Ophthalmology, 1993, 100, 1050-1054.	5.2	26
82	PDGF- and Insulin/IGF-1–Specific Distinct Modes of Class IAPI 3-Kinase Activation in Normal Rat Retinas and RGC-5 Retinal Ganglion Cells. , 2008, 49, 3687.		26
83	Insulin-like growth factor 1 rescues R28 retinal neurons from apoptotic death through ERK-mediated BimEL phosphorylation independent of Akt. Experimental Eye Research, 2016, 151, 82-95.	2.6	25
84	Physiological transport properties of cultured retinal microvascular endothelial cell monolayers. Current Eye Research, 1997, 16, 761-768.	1.5	24
85	An Extension of the Early Treatment Diabetic Retinopathy Study (ETDRS) System for Grading of Diabetic Macular Edema in the Astemizole Retinopathy Trial. Current Eye Research, 2006, 31, 535-547.	1.5	24
86	mTORC1-Independent Reduction of Retinal Protein Synthesis in Type 1 Diabetes. Diabetes, 2014, 63, 3077-3090.	0.6	24
87	Subconjunctivally Implanted Hydrogels for Sustained Insulin Release to Reduce Retinal Cell Apoptosis in Diabetic Rats. , 2015, 56, 7839.		23
88	Report From the NEI/FDA Diabetic Retinopathy Clinical Trial Design and Endpoints Workshop. , 2016, 57, 5127.		23
89	Optic disk drusen, peripapillary choroidal neovascularization, and POEMS syndrome. American Journal of Ophthalmology, 2002, 133, 275-276.	3.3	22
90	A prize catch for diabetic retinopathy. Nature Medicine, 2007, 13, 131-132.	30.7	22

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91	Phosphatase control of 4E-BP1 phosphorylation state is central for glycolytic regulation of retinal protein synthesis. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E546-E556.	3.5	22
92	Mucinous Adenocarcinoma of the Eyelid. JAMA Ophthalmology, 1984, 102, 912.	2.4	21
93	A critical review: Psychophysical assessments of diabetic retinopathy. Survey of Ophthalmology, 2021, 66, 213-230.	4.0	21
94	An eye on insulin. Journal of Clinical Investigation, 2003, 111, 1817-1819.	8.2	21
95	Diminished retinal complex lipid synthesis and impaired fatty acid β-oxidation associated with human diabetic retinopathy. JCl Insight, 2021, 6, .	5.0	20
96	Reduction of severe macular edema in eyes with poor vision after panretinal photocoagulation for proliferative diabetic retinopathy. Graefe's Archive for Clinical and Experimental Ophthalmology, 1991, 229, 323-328.	1.9	19
97	VEGF increases paracellular transport without altering the solvent-drag reflection coefficient. Microvascular Research, 2004, 68, 295-302.	2.5	17
98	Photic Maculopathy Secondary to Short-circuiting of a High-tension Electric Current. Ophthalmology, 1982, 89, 865-868.	5.2	16
99	Impaired Retinal Vasoreactivity: An Early Marker of Stroke Risk in Diabetes. Journal of Neuroimaging, 2017, 27, 78-84.	2.0	16
100	It is time for a moonshot to find "Cures―for diabetic retinal disease. Progress in Retinal and Eye Research, 2022, 90, 101051.	15.5	15
101	Diabetes and Obesity. JAMA Ophthalmology, 2009, 127, 328.	2.4	14
102	Impaired coronary and retinal vasomotor function to hyperoxia in Individuals with Type 2 diabetes. Microvascular Research, 2015, 101, 1-7.	2.5	14
103	mTORC1 and mTORC2 expression in inner retinal neurons and glial cells. Experimental Eye Research, 2020, 197, 108131.	2.6	13
104	Retinal Failure in Diabetes: a Feature of Retinal Sensory Neuropathy. Current Diabetes Reports, 2015, 15, 107.	4.2	12
105	Burning fat fuels photoreceptors. Nature Medicine, 2016, 22, 342-343.	30.7	12
106	Blood Pressure Is Associated with Receiving Intravitreal Anti–Vascular Endothelial Growth Factor Treatment in Patients with Diabetes. Ophthalmology Retina, 2019, 3, 410-416.	2.4	12
107	Diabetes Diminishes Phosphatidic Acid in the Retina: A Putative Mediator for Reduced mTOR Signaling and Increased Neuronal Cell Death. , 2012, 53, 7257.		12
108	Lapses in Care Among Patients Assigned to Ranibizumab for Proliferative Diabetic Retinopathy. JAMA Ophthalmology, 2021, 139, 1266.	2.5	12

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109	Future opportunities in diabetic retinopathy research. Current Opinion in Endocrinology, Diabetes and Obesity, 2016, 23, 91-96.	2.3	11
110	Light Scatter Causes the Grayness of Detached Retinas. JAMA Ophthalmology, 2003, 121, 1002.	2.4	10
111	Ruboxistaurin for Diabetic Retinopathy. Ophthalmology, 2006, 113, 2135-2136.	5.2	10
112	Phosphorylation Site Mapping of Endogenous Proteins: A Combined MS and Bioinformatics Approach. Journal of Proteome Research, 2009, 8, 798-807.	3.7	10
113	Current and future management of diabetic retinopathy: a personalized evidence-based approach. Diabetes Management, 2013, 3, 481-494.	0.5	10
114	Impact of diagnosing diabetic complications on future hemoglobin A1c levels. Journal of Diabetes and Its Complications, 2016, 30, 323-328.	2.3	10
115	Integrative Biology of Diabetic Retinal Disease: Lessons from Diabetic Kidney Disease. Journal of Clinical Medicine, 2021, 10, 1254.	2.4	10
116	Awareness of Diabetic Retinopathy: Insight From the National Health and Nutrition Examination Survey. American Journal of Preventive Medicine, 2021, 61, 900-909.	3.0	10
117	Astemizole reduces blood-retinal barrier leakage in experimental diabetes. Journal of Diabetes and Its Complications, 1992, 6, 230-235.	2.3	9
118	Quantification of Fundus Autofluorescence to Detect Disease Severity in Nonexudative Age-Related Macular Degeneration. JAMA Ophthalmology, 2013, 131, 1009.	2.5	9
119	Insulin signaling in retinal neurons is regulated within cholesterol-enriched membrane microdomains. American Journal of Physiology - Endocrinology and Metabolism, 2011, 300, E600-E609.	3.5	8
120	Density-based classification in diabetic retinopathy through thickness of retinal layers from optical coherence tomography. Scientific Reports, 2020, 10, 15937.	3.3	8
121	A Survey of Intraocular Silicone Oil Use in the United States. Ophthalmology, 1992, 99, 1174-1176.	5.2	7
122	Ocular findings in HIV-infected haemophiliacs. Haemophilia, 1996, 2, 63-64.	2.1	7
123	Developmental and light regulation of tumor suppressor protein PP2A in the retina. Oncotarget, 2018, 9, 1505-1523.	1.8	7
124	Complications of Retinal Laser Therapy and Their Prevention. Seminars in Ophthalmology, 1991, 6, 19-26.	1.6	6
125	THE RESTORE STUDY. Evidence-Based Ophthalmology, 2011, 12, 206-207.	0.0	6
126	Proteomic Analyses of Vitreous in Proliferative Diabetic Retinopathy: Prior Studies and Future Outlook. Journal of Clinical Medicine, 2021, 10, 2309.	2.4	6

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127	Patient-Reported Outcomes Reveal Impairments Not Explained by Psychophysical Testing in Patients With Regressed PDR. Translational Vision Science and Technology, 2019, 8, 11.	2.2	5
128	Insulin-like growth factor-2 regulates basal retinal insulin receptor activity. Journal of Biological Chemistry, 2021, 296, 100712.	3.4	5
129	Randomized Safety and Feasibility Trial of Ultra-Rapid Cooling Anesthesia for Intravitreal Injections. Ophthalmology Retina, 2020, 4, 979-986.	2.4	4
130	A validated analysis pipeline for mass spectrometry-based vitreous proteomics: new insights into proliferative diabetic retinopathy. Clinical Proteomics, 2021, 18, 28.	2.1	4
131	Ophthalmology Patient Knowledge of Personal and Recommended ABCs of Diabetes Care. JAMA Ophthalmology, 2010, 128, 1495.	2.4	3
132	Reading deficits in diabetic patients treated with panretinal photocoagulation and good visual acuity. Acta Ophthalmologica, 2019, 97, e1013-e1018.	1.1	3
133	Hydrogels for Ocular Posterior Segment Drug Delivery. AAPS Advances in the Pharmaceutical Sciences Series, 2011, , 291-304.	0.6	3
134	The retinal depression sign in diabetic retinopathy. Graefe's Archive for Clinical and Experimental Ophthalmology, 1995, 233, 617-620.	1.9	2
135	Treated PDR Reveals Age-Appropriate Vision Deterioration But Distorted Retinal Organization. Translational Vision Science and Technology, 2020, 9, 3.	2.2	2
136	A new hypothesis on mechanisms of retinal vascular permeability in diabetes. , 1998, , 169-179.		2
137	mTORC1 regulates high levels of protein synthesis in retinal ganglion cells of adult mice. Journal of Biological Chemistry, 2022, 298, 101944.	3.4	2
138	Diabetic retinopathy and diabetic macular edema. , 2010, , 133-136.		1
139	Visual Fields Refine Understanding of Diabetic Retinopathy Progression. Diabetes, 2014, 63, 2909-2910.	0.6	1
140	Identification of population characteristics through implementation of the Comprehensive Diabetic Retinopathy Program. Clinical Diabetes and Endocrinology, 2019, 5, 6.	2.7	1
141	Insulin Signaling in Normal and Diabetic Conditions. , 2010, , 101-118.		1
142	Neuroglial Dysfunction in Diabetic Retinopathy. , 2008, , 283-301.		1
143	A method for real-time intraocular pressure monitoring during scleral buckling surgery. Graefe's Archive for Clinical and Experimental Ophthalmology, 1993, 231, 671-673.	1.9	0

144 Optical combing to align photoreceptors in detached retinas. , 2004, , .

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145	Diabetes and Nonrefractive Visual Impairment. JAMA - Journal of the American Medical Association, 2012, 308, 2403.	7.4	0
146	Time to Look Back and to Look Forward. Diabetes, 2014, 63, 1169-1170.	0.6	0
147	Reply. Ophthalmology, 2017, 124, e69-e70.	5.2	0
148	The molecular structure and function of the inner blood-retinal barrier. , 2000, , 25-33.		0
149	Diabetic macular edema. , 2012, , 536-540.		0