Kang Zhang

List of Publications by Year
in descending order

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		4136	2567
283	42,894	87	195
papers	citations	h-index	g-index

299	299	299	58227
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identifying Medical Diagnoses and Treatable Diseases by Image-Based Deep Learning. Cell, 2018, 172, 1122-1131.e9.	13.5	2,822
2	Genome-wide Methylation Profiles Reveal Quantitative Views of Human Aging Rates. Molecular Cell, 2013, 49, 359-367.	4.5	2,734
3	Targeted genome modification of crop plants using a CRISPR-Cas system. Nature Biotechnology, 2013, 31, 686-688.	9.4	1,657
4	Nanoparticle biointerfacing by platelet membrane cloaking. Nature, 2015, 526, 118-121.	13.7	1,270
5	Characteristics of pediatric SARS-CoV-2 infection and potential evidence for persistent fecal viral shedding. Nature Medicine, 2020, 26, 502-505.	15.2	1,238
6	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
7	The practical implementation of artificial intelligence technologies in medicine. Nature Medicine, 2019, 25, 30-36.	15.2	1,079
8	In vivo genome editing via CRISPR/Cas9 mediated homology-independent targeted integration. Nature, 2016, 540, 144-149.	13.7	906
9	Sequence- and target-independent angiogenesis suppression by siRNA via TLR3. Nature, 2008, 452, 591-597.	13.7	868
10	Seven-Year Outcomes in Ranibizumab-Treated Patients in ANCHOR, MARINA, and HORIZON. Ophthalmology, 2013, 120, 2292-2299.	2.5	854
11	Vascular Development in the Retina and Inner Ear. Cell, 2004, 116, 883-895.	13.5	783
12	A Variant of the HTRA1 Gene Increases Susceptibility to Age-Related Macular Degeneration. Science, 2006, 314, 992-993.	6.0	735
13	Seven new loci associated with age-related macular degeneration. Nature Genetics, 2013, 45, 433-439.	9.4	687
14	Circulating tumour DNA methylation markers for diagnosis and prognosis of hepatocellular carcinoma. Nature Materials, 2017, 16, 1155-1161.	13.3	641
15	Clinically Applicable AI System for Accurate Diagnosis, Quantitative Measurements, and Prognosis of COVID-19 Pneumonia Using Computed Tomography. Cell, 2020, 181, 1423-1433.e11.	13.5	638
16	Sustained axon regeneration induced by co-deletion of PTEN and SOCS3. Nature, 2011, 480, 372-375.	13.7	637
17	A vaccine targeting the RBD of the S protein of SARS-CoV-2 induces protective immunity. Nature, 2020, 586, 572-577.	13.7	630
18	Reprogramming of Human Primary Somatic Cells by OCT4 and Chemical Compounds. Cell Stem Cell, 2010, 7, 651-655.	5.2	602

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19	Drusen complement components C3a and C5a promote choroidal neovascularization. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2328-2333.	3.3	584
20	3D printing of functional biomaterials for tissue engineering. Current Opinion in Biotechnology, 2016, 40, 103-112.	3.3	584
21	Direct reprogramming of mouse fibroblasts to neural progenitors. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7838-7843.	3.3	555
22	DNA methylation aging clocks: challenges and recommendations. Genome Biology, 2019, 20, 249.	3.8	552
23	Direct Conversion of Fibroblasts to Neurons by Reprogramming PTB-Regulated MicroRNA Circuits. Cell, 2013, 152, 82-96.	13.5	508
24	Direct 3D bioprinting of prevascularized tissue constructs with complex microarchitecture. Biomaterials, 2017, 124, 106-115.	5.7	433
25	Genome-wide association study of advanced age-related macular degeneration identifies a role of the hepatic lipase gene (LIPC). Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7395-7400.	3.3	406
26	Mutant Gq/11 Promote Uveal Melanoma Tumorigenesis by Activating YAP. Cancer Cell, 2014, 25, 822-830.	7.7	391
27	DNA methylation markers for diagnosis and prognosis of common cancers. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7414-7419.	3.3	387
28	Evaluation and accurate diagnoses of pediatric diseases using artificial intelligence. Nature Medicine, 2019, 25, 433-438.	15.2	386
29	Identification of methylation haplotype blocks aids in deconvolution of heterogeneous tissue samples and tumor tissue-of-origin mapping from plasma DNA. Nature Genetics, 2017, 49, 635-642.	9.4	384
30	A 5-bp deletion in ELOVL4 is associated with two related forms of autosomal dominant macular dystrophy. Nature Genetics, 2001, 27, 89-93.	9.4	370
31	Rapid induction and long-term self-renewal of primitive neural precursors from human embryonic stem cells by small molecule inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8299-8304.	3.3	358
32	Seroprevalence of immunoglobulin M and G antibodies against SARS-CoV-2 in China. Nature Medicine, 2020, 26, 1193-1195.	15.2	352
33	Lanosterol reverses protein aggregation in cataracts. Nature, 2015, 523, 607-611.	13.7	351
34	Ranibizumab for Predominantly Classic Neovascular Age-related Macular Degeneration: Subgroup Analysis of First-year ANCHOR Results. American Journal of Ophthalmology, 2007, 144, 850-857.e4.	1.7	348
35	Robo4 stabilizes the vascular network by inhibiting pathologic angiogenesis and endothelial hyperpermeability. Nature Medicine, 2008, 14, 448-453.	15.2	346
36	Mutations in LRP5 or FZD4 Underlie the Common Familial Exudative Vitreoretinopathy Locus on Chromosome 11q. American Journal of Human Genetics, 2004, 74, 721-730.	2.6	333

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37	Common Variants at 9p21 and 8q22 Are Associated with Increased Susceptibility to Optic Nerve Degeneration in Glaucoma. PLoS Genetics, 2012, 8, e1002654.	1.5	276
38	Ophthalmic drug discovery: novel targets and mechanisms for retinal diseases and glaucoma. Nature Reviews Drug Discovery, 2012, 11, 541-559.	21.5	275
39	Bio-inspired detoxification using 3D-printed hydrogel nanocomposites. Nature Communications, 2014, 5, 3774.	5.8	271
40	Systemic Complement Inhibition with Eculizumab for Geographic Atrophy in Age-Related Macular Degeneration. Ophthalmology, 2014, 121, 693-701.	2.5	264
41	Ciliary neurotrophic factor delivered by encapsulated cell intraocular implants for treatment of geographic atrophy in age-related macular degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6241-6245.	3.3	260
42	Circulating tumor DNA methylation profiles enable early diagnosis, prognosis prediction, and screening for colorectal cancer. Science Translational Medicine, 2020, 12, .	5.8	260
43	â€˜Marker-of-selfâ€™ functionalization of nanoscale particles through a top-down cellular membrane coating approach. Nanoscale, 2013, 5, 2664.	2.8	253
44	Caspase-8 promotes NLRP1/NLRP3 inflammasome activation and IL-1Î² production in acute glaucoma. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11181-11186.	3.3	236
45	Methylome-wide Analysis of Chronic HIV Infection Reveals Five-Year Increase in Biological Age and Epigenetic Targeting of HLA. Molecular Cell, 2016, 62, 157-168.	4.5	233
46	Clearance of pathological antibodies using biomimetic nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13481-13486.	3.3	231
47	Genome-wide association analysis identifies TXNRD2, ATXN2 and FOXC1 as susceptibility loci for primary open-angle glaucoma. Nature Genetics, 2016, 48, 189-194.	9.4	211
48	Toll-like Receptor 3 and Geographic Atrophy in Age-Related Macular Degeneration. New England Journal of Medicine, 2008, 359, 1456-1463.	13.9	209
49	Systematic review and meta-analysis of the association between complementary factor H Y402H polymorphisms and age-related macularÂdegeneration. Human Molecular Genetics, 2006, 15, 2784-2790.	1.4	204
50	Next generation sequencing-based molecular diagnosis of retinitis pigmentosa: identification of a novel genotype-phenotype correlation and clinical refinements. Human Genetics, 2014, 133, 331-345.	1.8	204
51	CFH Y402H Confers Similar Risk of Soft Drusen and Both Forms of Advanced AMD. PLoS Medicine, 2005, 3, e5.	3.9	199
52	Slit2â€“Robo4 signalling promotes vascular stability by blocking Arf6 activity. Nature Cell Biology, 2009, 11, 1325-1331.	4.6	195
53	Treatment of retinitis pigmentosa due to MERTK mutations by ocular subretinal injection of adeno-associated virus gene vector: results of a phase I trial. Human Genetics, 2016, 135, 327-343.	1.8	195
54	Biomimetic Nanotherapies: Red Blood Cell Based Coreâ€“Shell Structured Nanocomplexes for Atherosclerosis Management. Advanced Science, 2019, 6, 1900172.	5.6	194

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55	Mutant prominin 1 found in patients with macular degeneration disrupts photoreceptor disk morphogenesis in mice. Journal of Clinical Investigation, 2008, 118, 2908-16.	3.9	194
56	WNT7A and PAX6 define corneal epithelium homeostasis and pathogenesis. Nature, 2014, 511, 358-361.	13.7	193
57	MurineCcl2/Cx3cr1Deficiency Results in Retinal Lesions Mimicking Human Age-Related Macular Degeneration. , 2007, 48, 3827.		192
58	COVID-19 in early 2021: current status and looking forward. Signal Transduction and Targeted Therapy, 2021, 6, 114.	7.1	191
59	Safe and Immunocompatible Nanocarriers Cloaked in RBC Membranes for Drug Delivery to Treat Solid Tumors. Theranostics, 2016, 6, 1004-1011.	4.6	185
60	Promoter polymorphism of the erythropoietin gene in severe diabetic eye and kidney complications. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6998-7003.	3.3	184
61	Macrophage membrane functionalized biomimetic nanoparticles for targeted anti-atherosclerosis applications. Theranostics, 2021, 11, 164-180.	4.6	184
62	Lens regeneration using endogenous stem cells with gain of visual function. Nature, 2016, 531, 323-328.	13.7	171
63	Macular Atrophy Progression and 7-Year Vision Outcomes in Subjects From the ANCHOR, MARINA, and HORIZON Studies: the SEVEN-UP Studyâ^—. American Journal of Ophthalmology, 2015, 159, 915-924.e2.	1.7	168
64	Tissue repair and regeneration with endogenous stem cells. Nature Reviews Materials, 2018, 3, 174-193.	23.3	168
65	Identification of a rare coding variant in complement 3 associated with age-related macular degeneration. Nature Genetics, 2013, 45, 1375-1379.	9.4	158
66	Increased expression of multifunctional serine protease, HTRA1, in retinal pigment epithelium induces polypoidal choroidal vasculopathy in mice. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14578-14583.	3.3	144
67	Complement factor H genotypes impact risk of age-related macular degeneration by interaction with oxidized phospholipids. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13757-13762.	3.3	135
68	Mapping RNAâ€“RNA interactome and RNA structure in vivo by MARIO. Nature Communications, 2016, 7, 12023.	5.8	135
69	Hair Cortisol Level as a Biomarker for Altered Hypothalamic-Pituitary-Adrenal Activity in Female Adolescents with Posttraumatic Stress Disorder After the 2008 Wenchuan Earthquake. Biological Psychiatry, 2012, 72, 65-69.	0.7	132
70	Regenerating Eye Tissues to Preserve and Restore Vision. Cell Stem Cell, 2018, 22, 834-849.	5.2	131
71	The R345W mutation in EFEMP1 is pathogenic and causes AMD-like deposits in mice. Human Molecular Genetics, 2007, 16, 2411-2422.	1.4	129
72	A rare nonsynonymous sequence variant in C3 is associated with high risk of age-related macular degeneration. Nature Genetics, 2013, 45, 1371-1374.	9.4	125

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73	Essential role of Elovl4 in very long chain fatty acid synthesis, skin permeability barrier function, and neonatal survival. International Journal of Biological Sciences, 2007, 3, 111-119.	2.6	123
74	Deep-learning models for the detection and incidence prediction of chronic kidney disease and type 2 diabetes from retinal fundus images. Nature Biomedical Engineering, 2021, 5, 533-545.	11.6	121
75	Transcription Factors Sp1 and Sp3 Alter Vascular Endothelial Growth Factor Receptor Expression through a Novel Recognition Sequence. Journal of Biological Chemistry, 1998, 273, 19294-19303.	1.6	119
76	Identification and Functional Consequences of a New Mutation (E155G) in the Gene for GCAP1 That Causes Autosomal Dominant Cone Dystrophy. American Journal of Human Genetics, 2001, 69, 471-480.	2.6	115
77	Mutations in the RPGR gene cause X-linked cone dystrophy. Human Molecular Genetics, 2002, 11, 605-611.	1.4	115
78	Age-related Macular Degeneration: Genetic and Environmental Factors of Disease. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2010, 10, 271-281.	3.4	113
79	HTRA1 Variant Confers Similar Risks to Geographic Atrophy and Neovascular Age-related Macular Degeneration. Cell Cycle, 2007, 6, 1122-1125.	1.3	111
80	In Situ Gene Therapy via AAV-CRISPR-Cas9-Mediated Targeted Gene Regulation. Molecular Therapy, 2018, 26, 1818-1827.	3.7	111
81	Noninvasive prenatal diagnosis of common aneuploidies by semiconductor sequencing. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7415-7420.	3.3	110
82	A Splice-Site Mutation in a Retina-Specific Exon of BBS8 Causes Nonsyndromic Retinitis Pigmentosa. American Journal of Human Genetics, 2010, 86, 805-812.	2.6	109
83	Conversion of Mouse Epiblast Stem Cells to an Earlier Pluripotency State by Small Molecules. Journal of Biological Chemistry, 2010, 285, 29676-29680.	1.6	107
84	A deep-learning pipeline for the diagnosis and discrimination of viral, non-viral and COVID-19 pneumonia from chest X-ray images. Nature Biomedical Engineering, 2021, 5, 509-521.	11.6	106
85	Noninvasive detection of fetal subchromosomal abnormalities by semiconductor sequencing of maternal plasma DNA. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14670-14675.	3.3	104
86	Genetic and Functional Dissection of HTRA1 and LOC387715 in Age-Related Macular Degeneration. PLoS Genetics, 2010, 6, e1000836.	1.5	101
87	Human Retinal Progenitor Cell Transplantation Preserves Vision. Journal of Biological Chemistry, 2014, 289, 6362-6371.	1.6	101
88	Dominant optic atrophy, sensorineural hearing loss, ptosis, and ophthalmoplegia: A syndrome caused by a missense mutation in OPA1. American Journal of Ophthalmology, 2004, 138, 749-755.	1.7	98
89	ThePROM1Mutation p.R373C Causes an Autosomal Dominant Bull's Eye Maculopathy Associated with Rod, Rodâ€“Cone, and Macular Dystrophy. , 2010, 51, 4771.		96
90	SRPKIN-1: A Covalent SRPK1/2 Inhibitor that Potently Converts VEGF from Pro-angiogenic to Anti-angiogenic Isoform. Cell Chemical Biology, 2018, 25, 460-470.e6.	2.5	95

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91	Genomic organisation and alternative splicing of human RIM1, a gene implicated in autosomal dominant cone-rod dystrophy (CORD7)â¯†. Genomics, 2003, 81, 304-314.	1.3	94
92	Association of CAV1/CAV2 Genomic Variants with Primary Open-Angle Glaucoma Overall and by Gender and Pattern of Visual Field Loss. Ophthalmology, 2014, 121, 508-516.	2.5	91
93	Light-responsive nanoparticle depot to control release of a small molecule angiogenesis inhibitor in the posterior segment of the eye. Journal of Controlled Release, 2015, 200, 71-77.	4.8	91
94	Spectrum and Frequency ofFZD4Mutations in Familial Exudative Vitreoretinopathy. , 2004, 45, 2083.		89
95	A New Locus for Autosomal Dominant Stargardt-Like Disease Maps to Chromosome 4. American Journal of Human Genetics, 1999, 64, 1394-1399.	2.6	88
96	Frequency and Complexity of De Novo Structural Mutation in Autism. American Journal of Human Genetics, 2016, 98, 667-679.	2.6	88
97	YAPâ€“IL-6ST autoregulatory loop activated on APC loss controls colonic tumorigenesis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1643-1648.	3.3	85
98	Next-Generation Sequencing and Novel Variant Determination in a Cohort of 92 Familial Exudative Vitreoretinopathy Patients. , 2015, 56, 1937.		84
99	Essential Role of ELOVL4 Protein in Very Long Chain Fatty Acid Synthesis and Retinal Function. Journal of Biological Chemistry, 2012, 287, 11469-11480.	1.6	83
100	High Temperature Requirement Factor A1 (HTRA1) Gene Regulates Angiogenesis through Transforming Growth Factor-Î² Family Member Growth Differentiation Factor 6. Journal of Biological Chemistry, 2012, 287, 1520-1526.	1.6	82
101	Change in Drusen Volume as a Novel Clinical Trial Endpoint for the Study of Complement Inhibition in Age-related Macular Degeneration. Ophthalmic Surgery Lasers and Imaging Retina, 2014, 45, 18-31.	0.4	82
102	Transgenic rhesus monkeys produced by gene transfer into early-cleavageâ€“stage embryos using a simian immunodeficiency virus-based vector. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17663-17667.	3.3	81
103	A Novel Mutation in theELOVL4Gene Causes Autosomal Dominant Stargardt-like Macular Dystrophy. , 2004, 45, 4263.		79
104	Mutant carbonic anhydrase 4 impairs pH regulation and causes retinal photoreceptor degeneration. Human Molecular Genetics, 2005, 14, 255-265.	1.4	79
105	Complement factor H genetic variant and age-related macular degeneration: effect size, modifiers and relationship to disease subtype. International Journal of Epidemiology, 2012, 41, 250-262.	0.9	79
106	CDKN2B-AS1 Genotypeâ€“Glaucoma Feature Correlations in Primary Open-Angle Glaucoma Patients From the United States. American Journal of Ophthalmology, 2013, 155, 342-353.e5.	1.7	76
107	Assessing Susceptibility to Age-Related Macular Degeneration With Genetic Markers and Environmental Factors. JAMA Ophthalmology, 2011, 129, 344.	2.6	75
108	A Dominant Stargardt's Macular Dystrophy Locus Maps to Chromosome 13q34. JAMA Ophthalmology, 1994, 112, 759.	2.6	74

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109	Genetics of Immunological and Inflammatory Components in Age-related Macular Degeneration. Ocular Immunology and Inflammation, 2012, 20, 27-36.	1.0	74
110	Nestin regulates cellular redox homeostasis in lung cancer through the Keap1â€“Nrf2 feedback loop. Nature Communications, 2019, 10, 5043.	5.8	74
111	Defective lipid transport and biosynthesis in recessive and dominant Stargardt macular degeneration. Progress in Lipid Research, 2010, 49, 476-492.	5.3	73
112	Butterfly-Shaped Pattern Dystrophy. JAMA Ophthalmology, 2002, 120, 485.	2.6	72
113	Essential and Synergistic Roles of RP1 and RP1L1 in Rod Photoreceptor Axoneme and Retinitis Pigmentosa. Journal of Neuroscience, 2009, 29, 9748-9760.	1.7	71
114	Suppression of the ELO-2 FA Elongation Activity Results in Alterations of the Fatty Acid Composition and Multiple Physiological Defects, Including Abnormal Ultradian Rhythms, in Caenorhabditis elegans. Genetics, 2003, 163, 159-169.	1.2	71
115	Statins Attenuate Activation of the NLRP3 Inflammasome by Oxidized LDL or TNFÎ± in Vascular Endothelial Cells through a PXR-Dependent Mechanism. Molecular Pharmacology, 2017, 92, 256-264.	1.0	68
116	Fellow Eye Comparisons for 7-Year Outcomes in Ranibizumab-Treated AMD Subjects from ANCHOR, MARINA,Âand HORIZON (SEVEN-UP Study). Ophthalmology, 2016, 123, 1269-1277.	2.5	67
117	P16INK4a Upregulation Mediated by SIX6 Defines Retinal Ganglion Cell Pathogenesis in Glaucoma. Molecular Cell, 2015, 59, 931-940.	4.5	66
118	Current status and future trends of clinical diagnoses via image-based deep learning. Theranostics, 2019, 9, 7556-7565.	4.6	66
119	The lipid elongation enzyme ELOVL2 is a molecular regulator of aging in the retina. Aging Cell, 2020, 19, e13100.	3.0	66
120	JNK inhibition reduces apoptosis and neovascularization in a murine model of age-related macular degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2377-2382.	3.3	63
121	Heterozygous and Homozygous Mutations inPITX3in a Large Lebanese Family with Posterior Polar Cataracts and Neurodevelopmental Abnormalities. , 2006, 47, 1274.		62
122	Production of ELOVL4 transgenic pigs: a large animal model for Stargardt-like macular degeneration. British Journal of Ophthalmology, 2011, 95, 1749-1754.	2.1	61
123	SNAI2 Controls the Undifferentiated State of Human Epidermal Progenitor Cells. Stem Cells, 2014, 32, 3209-3218.	1.4	60
124	Large-Scale Synthesis of Lipidâ€“Polymer Hybrid Nanoparticles Using a Multi-Inlet Vortex Reactor. Langmuir, 2012, 28, 13824-13829.	1.6	59
125	Gene and mutation independent therapy via CRISPR-Cas9 mediated cellular reprogramming in rod photoreceptors. Cell Research, 2017, 27, 830-833.	5.7	58
126	Biochemical Analysis of a Common Human Polymorphism Associated with Age-Related Macular Degeneration. Biochemistry, 2007, 46, 8451-8461.	1.2	57

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127	Genetic association of LOXL1 gene variants and exfoliation glaucoma in a Utah cohort. Cell Cycle, 2008, 7, 521-524.	1.3	56
128	CYP1B1 and MYOC Mutations in 116 Chinese Patients With Primary Congenital Glaucoma. JAMA Ophthalmology, 2008, 126, 1443.	2.6	56
129	The NEIGHBOR Consortium Primary Open-Angle Glaucoma Genome-wide Association Study. Journal of Glaucoma, 2013, 22, 517-525.	0.8	55
130	Transcription Factor PAX6 (Paired Box 6) Controls Limbal Stem Cell Lineage in Development and Disease. Journal of Biological Chemistry, 2015, 290, 20448-20454.	1.6	54
131	Evaluation of the ELOVL4 gene in patients with age-related macular degeneration. Ophthalmic Genetics, 2001, 22, 233-239.	0.5	53
132	Genome-Wide Analysis of Central Corneal Thickness in Primary Open-Angle Glaucoma Cases in the NEIGHBOR and GLAUGEN Consortia. , 2012, 53, 4468.		52
133	Genome-wide colocalization of RNAâ€“DNA interactions and fusion RNA pairs. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3328-3337.	3.3	52
134	The ABCR Gene in Recessive and Dominant Stargardt Diseases: A Genetic Pathway in Macular Degeneration. Genomics, 1999, 60, 234-237.	1.3	51
135	TP53 intron 1 hotspot rearrangements are specific to sporadic osteosarcoma and can cause Li-Fraumeni syndrome. Oncotarget, 2015, 6, 7727-7740.	0.8	51
136	Tyrosine-Mutant AAV8 Delivery of HumanMERTKProvides Long-Term Retinal Preservation in RCS Rats. , 2012, 53, 1895.		48
137	Loss of ER retention and sequestration of the wild-type ELOVL4 by Stargardt disease dominant negative mutants. Molecular Vision, 2005, 11, 657-64.	1.1	47
138	NPHS2variation in focal and segmental glomerulosclerosis. BMC Nephrology, 2008, 9, 13.	0.8	46
139	Three-dimensional facial-image analysis to predict heterogeneity of the human ageing rate and the impact of lifestyle. Nature Metabolism, 2020, 2, 946-957.	5.1	45
140	Further mapping of 10q26 supports strong association of HTRA1 polymorphisms with age-related macular degeneration. Vision Research, 2008, 48, 685-689.	0.7	44
141	Common variants on chromosome 2 and risk of primary open-angle glaucoma in the Afro-Caribbean population of Barbados. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17105-17110.	3.3	44
142	Assessing the Association of Mitochondrial Genetic Variation With Primary Open-Angle Glaucoma Using Gene-Set Analyses. , 2016, 57, 5046.		44
143	DNA Methylomes Reveal Biological Networks Involved in Human Eye Development, Functions and Associated Disorders. Scientific Reports, 2017, 7, 11762.	1.6	44
144	Association of HTRA1 polymorphism and bilaterality in advanced age-related macular degeneration. Vision Research, 2008, 48, 690-694.	0.7	43

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145	Giant Cell Arteritis and Mortality. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2009, 64A, 365-369.	1.7	43
146	Dopamine release from transplanted neural stem cells in Parkinsonian rat striatum in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15804-15809.	3.3	43
147	Nuclease mapping and DNA sequence analysis of transcripts from the dihydrofolate reductase-thymidylate synthase (R) region ofLeishmania major. Nucleic Acids Research, 1990, 18, 6399-6408.	6.5	42
148	Xenobiotic Pregnane X Receptor (PXR) Regulates Innate Immunity via Activation of NLRP3 Inflammasome in Vascular Endothelial Cells. Journal of Biological Chemistry, 2014, 289, 30075-30081.	1.6	42
149	A Common Variant in MIR182 Is Associated With Primary Open-Angle Glaucoma in the NEIGHBORHOOD Consortium. , 2016, 57, 4528.		42
150	Human HtrA1 in the archived eyes with age-related macular degeneration. Transactions of the American Ophthalmological Society, 2007, 105, 92-7; discussion 97-8.	1.4	41
151	Whole-exome sequencing implicates UBE3D in age-related macular degeneration in East Asian populations. Nature Communications, 2015, 6, 6687.	5.8	40
152	SMARCAD1 Contributes to the Regulation of Naive Pluripotency by Interacting with Histone Citrullination. Cell Reports, 2017, 18, 3117-3128.	2.9	40
153	Estrogen pathway polymorphisms in relation to primary open angle glaucoma: an analysis accounting for gender from the United States. Molecular Vision, 2013, 19, 1471-81.	1.1	40
154	Refining Cancer Management Using Integrated Liquid Biopsy. Theranostics, 2020, 10, 2374-2384.	4.6	39
155	A novel GCAP1(N104K) mutation in EF-hand 3 (EF3) linked to autosomal dominant cone dystrophy. Vision Research, 2008, 48, 2425-2432.	0.7	38
156	TCF7L2 Variation and Proliferative Diabetic Retinopathy. Diabetes, 2013, 62, 2613-2617.	0.3	38
157	3D bioprinting of hydrogels for retina cell culturing. Bioprinting, 2018, 12, e00029.	2.9	38
158	A Novel Haplotype with the R345W Mutation in theEFEMP1Gene Associated with Autosomal Dominant Drusen in a Japanese Family. , 2010, 51, 1643.		37
159	Induced Pluripotent Stem Cell Therapies for Geographic Atrophy of Age-Related Macular Degeneration. Seminars in Ophthalmology, 2011, 26, 216-224.	0.8	37
160	A deep-learning system predicts glaucoma incidence and progression using retinal photographs. Journal of Clinical Investigation, 2022, 132, .	3.9	35
161	Sequence and S1 nuclease mapping of the 5â€² region of the dihydrofolate reductaseâ€”thymidylate synthase gene ofLeishmania major. Nucleic Acids Research, 1987, 15, 3369-3383.	6.5	34
162	Optic atrophy and sensorineural hearing loss in a family caused by an R445HOPA1 mutation. American Journal of Medical Genetics, Part A, 2005, 138A, 208-211.	0.7	34

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163	Identification and Characterization of a Novel Mutation in the Carbonic Anhydrase IV Gene that Causes Retinitis Pigmentosa. , 2007, 48, 3459.		34
164	RISK FACTORS FOR PROLIFERATIVE DIABETIC RETINOPATHY IN A LATINO AMERICAN POPULATION. Retina, 2014, 34, 1594-1599.	1.0	34
165	Autosomal dominant cone dystrophy caused by a novel mutation in the GCAP1 gene (GUCA1A). Molecular Vision, 2005, 11, 143-51.	1.1	34
166	A new locus for dominant drusen and macular degeneration maps to chromosome 6q14. American Journal of Ophthalmology, 2000, 130, 197-202.	1.7	33
167	A novel mutation in the RDS/Peripherin gene causes adult-onset foveomacular dystrophy. American Journal of Ophthalmology, 2003, 135, 213-218.	1.7	33
168	Using the Utah Population Database to assess familial risk of primary open angle glaucoma. Vision Research, 2010, 50, 2391-2395.	0.7	33
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