Alan Shiels

List of Publications by Year
in descending order

31 papers	1,894 citations	361413 20 h-index	477307 29 g-index
32 all docs	32 docs citations	32 times ranked	1607 citing authors

#	Article	IF	Citations
1	Cat-Map: putting cataract on the map. Molecular Vision, 2010, 16, 2007-15.	1.1	226
2	Mutations and mechanisms in congenital and age-related cataracts. Experimental Eye Research, 2017, 156, 95-102.	2.6	165
3	Genetic Origins of Cataract. JAMA Ophthalmology, 2007, 125, 165.	2.4	154
4	Connexin 50 mutation in a family with congenital "zonular nuclear" pulverulent cataract of Pakistani origin. Human Genetics, 1999, 105, 168-170.	3.8	139
5	The EPHA2 gene is associated with cataracts linked to chromosome 1p. Molecular Vision, 2008, 14, 2042-55.	1.1	129
6	Optical dysfunction of the crystalline lens in aquaporin-0-deficient mice. Physiological Genomics, 2001, 7, 179-186.	2.3	126
7	CHMP4B, a Novel Gene for Autosomal Dominant Cataracts Linked to Chromosome 20q. American Journal of Human Genetics, 2007, 81, 596-606.	6.2	102
8	Biology of Inherited Cataracts and Opportunities for Treatment. Annual Review of Vision Science, 2019, 5, 123-149.	4.4	76
9	Molecular Genetics of Cataract. Progress in Molecular Biology and Translational Science, 2015, 134, 203-218.	1.7	73
10	Lens Biology and Biochemistry. Progress in Molecular Biology and Translational Science, 2015, 134, 169-201.	1.7	71
11	Disruption of lens fiber cell architecture in mice expressing a chimeric AQP0â€ŁTR protein. FASEB Journal, 2000, 14, 2207-2212.	0.5	56
12	A Role forEpha2in Cell Migration and Refractive Organization of the Ocular Lens. , 2012, 53, 551.		54
13	Refractive Defects and Cataracts in Mice Lacking Lens Intrinsic Membrane Protein-2. , 2007, 48, 500.		52
14	Role of Aquaporin 0 in lens biomechanics. Biochemical and Biophysical Research Communications, 2015, 462, 339-345.	2.1	51
15	Overview of the Lens. Progress in Molecular Biology and Translational Science, 2015, 134, 119-127.	1.7	49
16	Exome sequencing identifies novel and recurrent mutations in GJA8 and CRYGDassociated with inherited cataract. Human Genomics, 2014, 8, 19.	2.9	42
17	Exome Sequencing Identifies a Missense Variant in EFEMP1 Co-Segregating in a Family with Autosomal Dominant Primary Open-Angle Glaucoma. PLoS ONE, 2015, 10, e0132529.	2.5	42
18	Mutation of the Melastatin-Related Cation Channel, TRPM3, Underlies Inherited Cataract and Glaucoma. PLoS ONE, 2014, 9, e104000.	2.5	39

#	Article	IF	Citations
19	Lens ER-stress response during cataract development in Mip-mutant mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 1433-1442.	3.8	37
20	Inherited cataracts: Genetic mechanisms and pathways new and old. Experimental Eye Research, 2021, 209, 108662.	2.6	34
21	Connexin 50 mutation in a family with congenital "zonular nuclear" pulverulent cataract of Pakistani origin. Human Genetics, 1999, 105, 168-170.	3.8	33
22	TRPM3_miR-204:Âa complex locus for eye development and disease. Human Genomics, 2020, 14, 7.	2.9	27
23	Epha2 and Efna5 participate in lens cell pattern-formation. Differentiation, 2018, 102, 1-9.	1.9	23
24	Mutation of the TRPM3 cation channel underlies progressive cataract development and lens calcification associated with proâ€fibrotic and immune cell responses. FASEB Journal, 2021, 35, e21288.	0.5	19
25	A charged multivesicular body protein (CHMP4B) is required for lens growth and differentiation. Differentiation, 2019, 109, 16-27.	1.9	15
26	Galactokinase gene mutations and age-related cataract. Lack of association in an Italian population. Molecular Vision, 2003, 9, 397-400.	1.1	14
27	X-linked idiopathic infantile nystagmus associated with a missense mutation in FRMD7. Molecular Vision, 2007, 13, 2233-41.	1.1	13
28	Mutation of the EPHA2 Tyrosine-Kinase Domain Dysregulates Cell Pattern Formation and Cytoskeletal Gene Expression in the Lens. Cells, 2021, 10, 2606.	4.1	9
29	Focus on Molecules: Major intrinsic protein. Experimental Eye Research, 2012, 101, 107-108.	2.6	8
30	Lens transcriptome profile during cataract development in Mip-null mice. Biochemical and Biophysical Research Communications, 2016, 478, 988-993.	2.1	8
31	Germ-line and somatic EPHA2 coding variants in lens aging and cataract. PLoS ONE, 2017, 12, e0189881.	2.5	8