

David G Hunter

List of Publications by Year in descending order

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149
papers

4,221
citations

109321

35
h-index

133252

59
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152
all docs

152
docs citations

152
times ranked

3561
citing authors

#	ARTICLE	IF	CITATIONS
1	Human TUBB3 Mutations Perturb Microtubule Dynamics, Kinesin Interactions, and Axon Guidance. <i>Cell</i> , 2010, 140, 74-87.	28.9	515
2	Mutations in FRMD7, a newly identified member of the FERM family, cause X-linked idiopathic congenital nystagmus. <i>Nature Genetics</i> , 2006, 38, 1242-1244.	21.4	180
3	Diode Laser Photocoagulation for Threshold Retinopathy of Prematurity. <i>Ophthalmology</i> , 1993, 100, 238-244.	5.2	165
4	Amblyopia: Diagnostic and Therapeutic Options. <i>American Journal of Ophthalmology</i> , 2006, 141, 175-184.e2.	3.3	129
5	Superior Rectus Transposition and Medial Rectus Recession for Duane Syndrome and Sixth Nerve Palsy. <i>JAMA Ophthalmology</i> , 2012, 130, 195.	2.4	124
6	Alzheimer's Disease Amyloid- β Links Lens and Brain Pathology in Down Syndrome. <i>PLoS ONE</i> , 2010, 5, e10659.	2.5	122
7	A novel syndrome caused by the E410K amino acid substitution in the neuronal β -tubulin isotype 3. <i>Brain</i> , 2013, 136, 522-535.	7.6	112
8	Redefining papillorenal syndrome: an underdiagnosed cause of ocular and renal morbidity. <i>Ophthalmology</i> , 2001, 108, 738-749.	5.2	105
9	Inferior Oblique Muscle Injury from Local Anesthesia for Cataract Surgery. <i>Ophthalmology</i> , 1995, 102, 501-509.	5.2	93
10	Vitamin E protects against retinopathy of prematurity through action on spindle cells. <i>Nature</i> , 1984, 309, 793-795.	27.8	81
11	Long-term outcome of uncomplicated infantile exotropia. <i>Journal of AAPOS</i> , 2001, 5, 352-356.	0.3	73
12	HOXB1 Founder Mutation in Humans Recapitulates the Phenotype of Hoxb1 Mice. <i>American Journal of Human Genetics</i> , 2012, 91, 171-179.	6.2	72
13	Diagnostic Distinctions and Genetic Analysis of Patients Diagnosed with Moebius Syndrome. <i>Ophthalmology</i> , 2014, 121, 1461-1468.	5.2	70
14	Congenital Fibrosis of the Extraocular Muscles. <i>Seminars in Ophthalmology</i> , 2008, 23, 3-8.	1.6	66
15	Loss of MAFB Function in Humans and Mice Causes Duane Syndrome, Aberrant Extraocular Muscle Innervation, and Inner-Ear Defects. <i>American Journal of Human Genetics</i> , 2016, 98, 1220-1227.	6.2	66
16	Adjustable suture strabismus surgery. <i>Eye</i> , 2011, 25, 1262-1276.	2.1	62
17	Prevalence of systemic and ocular disease in infantile exotropia. <i>Ophthalmology</i> , 1999, 106, 1951-1956.	5.2	57
18	Automated detection of foveal fixation by use of retinal birefringence scanning. <i>Applied Optics</i> , 1999, 38, 1273.	2.1	56

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19	A Novel kif21a Mutation in a Patient With Congenital Fibrosis of the Extraocular Muscles and Marcus Gunn Jaw-Winking Phenomenon. <i>JAMA Ophthalmology</i> , 2005, 123, 1254.	2.4	56
20	Superior Rectus Transposition vs Medial Rectus Recession for Treatment of Esotropic Duane Syndrome. <i>JAMA Ophthalmology</i> , 2014, 132, 669.	2.5	54
21	Public Health Burden and Potential Interventions for Myopia. <i>Ophthalmology</i> , 2018, 125, 628-630.	5.2	54
22	Rapid, High-Accuracy Detection of Strabismus and Amblyopia Using the Pediatric Vision Scanner. , 2011, 52, 5043.		53
23	The clinical and molecular genetic features of idiopathic infantile periodic alternating nystagmus. <i>Brain</i> , 2011, 134, 892-902.	7.6	52
24	Two unique <i>TUBB3</i> mutations cause both CFEOM3 and malformations of cortical development. <i>American Journal of Medical Genetics, Part A</i> , 2016, 170, 297-305.	1.2	51
25	A strabismus susceptibility locus on chromosome 7p. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12283-12288.	7.1	50
26	The Genetic Basis of Incomitant Strabismus: Consolidation of the Current Knowledge of the Genetic Foundations of Disease. <i>Seminars in Ophthalmology</i> , 2013, 28, 427-437.	1.6	50
27	Randomized Controlled Trial of a Dichoptic Digital Therapeutic for Amblyopia. <i>Ophthalmology</i> , 2022, 129, 77-85.	5.2	50
28	A proposed simple method for measurement in the anterior chamber angle. <i>Ophthalmology</i> , 1999, 106, 2161-2167.	5.2	49
29	Three novel mutations in KIF21A highlight the importance of the third coiled-coil stalk domain in the etiology of CFEOM1. <i>BMC Genetics</i> , 2007, 8, 26.	2.7	48
30	Short Tag Noose Technique for Optional and Late Suture Adjustment in Strabismus Surgery. <i>JAMA Ophthalmology</i> , 2009, 127, 1584.	2.4	48
31	Assessing Binocular Interaction in Amblyopia and Its Clinical Feasibility. <i>PLoS ONE</i> , 2014, 9, e100156.	2.5	47
32	Complications of Strabismus Surgery: Incidence and Risk Factors. <i>Seminars in Ophthalmology</i> , 2014, 29, 421-428.	1.6	46
33	Prevalence and Correlates of Children's Diagnosed Eye and Vision Conditions. <i>Ophthalmology</i> , 2006, 113, 2298-2306.	5.2	44
34	Expansion of the <i>CHN1</i> Strabismus Phenotype. , 2011, 52, 6321.		43
35	An adjustable superior oblique tendon spacer with the use of nonabsorbable suture. <i>Journal of AAPOS</i> , 2001, 5, 164-171.	0.3	41
36	Comparison of Botulinum Toxin With Surgery for the Treatment of Acute-Onset Comitant Esotropia in Children. <i>American Journal of Ophthalmology</i> , 2017, 176, 33-39.	3.3	41

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37	Pediatric Vision Screener 1: instrument design and operation. Journal of Biomedical Optics, 2004, 9, 1363.	2.6	38
38	Mathematical modeling of retinal birefringence scanning. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 2103.	1.5	37
39	Dynamic Retinoscopy. Survey of Ophthalmology, 2001, 46, 269-274.	4.0	37
40	Adjustable Nasal Transposition of Split Lateral Rectus Muscle for Third Nerve Palsy. JAMA Ophthalmology, 2014, 132, 963.	2.5	34
41	Directional eye fixation sensor using birefringence-based foveal detection. Applied Optics, 2007, 46, 1809.	2.1	32
42	Surgical management of strabismus in Duane retraction syndrome. Journal of AAPOS, 2015, 19, 63-69.	0.3	31
43	Retinopathy of Prematurity: Pathogenesis, Diagnosis, and Treatment. International Ophthalmology Clinics, 1992, 32, 163-184.	0.7	28
44	Long-term Surgical Outcomes for Large-angle Infantile Esotropia. American Journal of Ophthalmology, 2018, 189, 155-159.	3.3	28
45	Frequency of Visual Deficits in Children With Developmental Dyslexia. JAMA Ophthalmology, 2018, 136, 1089.	2.5	28
46	Long-term Results of an Intraoperative Adjustable Superior Oblique Tendon Suture Spacer Using Nonabsorbable Suture for Brown Syndrome. Ophthalmology, 2008, 115, 1800-1804.	5.2	27
47	Preventing corneal abrasions in critically ill children receiving neuromuscular blockade: A randomized, controlled trial. Pediatric Critical Care Medicine, 2009, 10, 171-175.	0.5	26
48	Pediatric Graves' ophthalmopathy: The pre- and postpubertal experience. Journal of AAPOS, 2008, 12, 357-360.	0.3	25
49	Automated detection of ocular alignment with binocular retinal birefringence scanning. Applied Optics, 2003, 42, 3047.	2.1	24
50	Patterns of eye care use and expenditures among children with diagnosed eye conditions. Journal of AAPOS, 2007, 11, 480-487.	0.3	23
51	Binocular Summation and Suppression of Contrast Sensitivity in Strabismus, Fusion and Amblyopia. Frontiers in Human Neuroscience, 2019, 13, 234.	2.0	23
52	The Pediatric Vision Screener III. JAMA Ophthalmology, 2006, 124, 509.	2.4	21
53	Goal-determined metrics to assess outcomes of esotropia surgery. Journal of AAPOS, 2014, 18, 211-216.	0.3	21
54	Reduced surgical success rate of rectus muscle plication compared to resection. Journal of AAPOS, 2017, 21, 201-204.	0.3	21

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55	Genome-Wide Association Study Identifies a Susceptibility Locus for Comitant Esotropia and Suggests a Parent-of-Origin Effect. , 2018, 59, 4054.		21
56	The Role of Botulinum Toxin in the Treatment of Strabismus. Seminars in Ophthalmology, 2019, 34, 198-204.	1.6	21
57	Benefits of Strabismus Surgery in Patients With One Blind Eye. JAMA Ophthalmology, 1995, 113, 404.	2.4	20
58	Papillorenal (â€œrenal colobomaâ€œ) syndrome. American Journal of Ophthalmology, 2002, 134, 300-301.	3.3	20
59	Bifocals Fail to Improve Stereopsis Outcomes in High AC/A Accommodative Esotropia. Ophthalmology, 2016, 123, 690-696.	5.2	20
60	Superior oblique myokymia. Survey of Ophthalmology, 2018, 63, 507-517.	4.0	20
61	Emerging therapies for amblyopia. Seminars in Ophthalmology, 2021, 36, 282-288.	1.6	20
62	Virtual Visits in Ophthalmology: Timely Advice for Implementation During the COVID-19 Public Health Crisis. Telemedicine Journal and E-Health, 2020, 26, 1113-1117.	2.8	19
63	Diplopia after limited macular translocation surgery. Journal of AAPOS, 2001, 5, 388-394.	0.3	18
64	Improved adherence and treatment outcomes with an engaging, personalized digital therapeutic in amblyopia. Scientific Reports, 2020, 10, 8328.	3.3	18
65	Superior oblique overaction from local anesthesia for cataract surgery. Journal of AAPOS, 2001, 5, 329-332.	0.3	17
66	Multifocal intraocular lenses in children. Ophthalmology, 2001, 108, 1373-1374.	5.2	17
67	Extraocular Muscles in Patients With Infantile Nystagmus. JAMA Ophthalmology, 2012, 130, 343.	2.4	15
68	The Effect of Botulinum Toxin Augmentation on Strabismus Surgery for Large-Angle InfantileÂEsotropia. American Journal of Ophthalmology, 2018, 189, 160-165.	3.3	15
69	Validation of StrabisPIX, a Mobile Application for Home Measurement of Ocular Alignment. Translational Vision Science and Technology, 2019, 8, 9.	2.2	15
70	Pediatric Vision Screener 2: pilot study in adults. Journal of Biomedical Optics, 2004, 9, 1369.	2.6	13
71	Treatment of Amblyopia in Older Children. JAMA Ophthalmology, 2005, 123, 557.	2.4	13
72	Changes in Lateral Comitance After Asymmetric Horizontal Strabismus Surgery. JAMA Ophthalmology, 2015, 133, 1241.	2.5	13

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73	Transposition procedures in Duane retraction syndrome. <i>Journal of AAPOS</i> , 2019, 23, 5-14.	0.3	13
74	Novel variants in TUBA1A cause congenital fibrosis of the extraocular muscles with or without malformations of cortical brain development. <i>European Journal of Human Genetics</i> , 2021, 29, 816-826.	2.8	13
75	TUBB3 Arg262His causes a recognizable syndrome including CFEOM3, facial palsy, joint contractures, and early-onset peripheral neuropathy. <i>Human Genetics</i> , 2021, 140, 1709-1731.	3.8	13
76	Targeting treatable diseaseâ€”not just risk factorsâ€”in pediatric vision screening. <i>Journal of AAPOS</i> , 2013, 17, 2-3.	0.3	12
77	Vertical Location of the Corneal Light Reflex in Strabismus Photography. <i>JAMA Ophthalmology</i> , 1998, 116, 767.	2.4	11
78	Advances in Amblyopia Treatment: Paradigm Shifts and Future Directions. <i>International Ophthalmology Clinics</i> , 2017, 57, 117-128.	0.7	11
79	Effect of Primary Occlusion Therapy in Asymmetric, Bilateral Amblyopia. <i>American Journal of Ophthalmology</i> , 2020, 211, 87-93.	3.3	11
80	Self-grading effect of inferior oblique myectomy and recession. <i>Journal of AAPOS</i> , 2020, 24, 218.e1-218.e6.	0.3	11
81	Digital therapeutic improves visual acuity and encourages high adherence in amblyopic children in open-label pilot study. <i>Journal of AAPOS</i> , 2021, 25, 87.e1-87.e6.	0.3	11
82	Automated detection of ocular focus. <i>Journal of Biomedical Optics</i> , 2004, 9, 1103.	2.6	10
83	Adjustable sutures in children. <i>Journal of AAPOS</i> , 2014, 18, 278-284.	0.3	10
84	Lens regeneration in children. <i>Nature</i> , 2018, 556, E2-E3.	27.8	10
85	Outcomes of strabismus surgery in genetically confirmed congenital fibrosis of the extraocular muscles. <i>Journal of AAPOS</i> , 2019, 23, 253.e1-253.e6.	0.3	10
86	Incidence of symptomatic vertical and torsional diplopia after superior rectus transposition for esotropic Duane syndrome and abducens nerve palsy. <i>Journal of AAPOS</i> , 2020, 24, 270.e1-270.e5.	0.3	10
87	Virtual reality prototype for binocular therapy in older children and adults with amblyopia. <i>Journal of AAPOS</i> , 2021, 25, 217.e1-217.e6.	0.3	10
88	Central Fusion Disruption Following Irradiation of Neoplasms in the Pineal Region. <i>JAMA Ophthalmology</i> , 2009, 127, 337.	2.4	9
89	Anomalous superior oblique muscles and tendons in congenital fibrosis of the extraocular muscles. <i>Journal of AAPOS</i> , 2019, 23, 325.e1-325.e6.	0.3	9
90	Brain phenotyping in Moebius syndrome and other congenital facial weakness disorders by diffusion MRI morphometry. <i>Brain Communications</i> , 2020, 2, fcaa014.	3.3	9

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91	Abnormal Axonemes in Sperm of Fertile Men. Archives of Andrology, 1986, 16, 1-12.	1.0	8
92	Self-reported visual symptoms in children with developmental dyslexia. Vision Research, 2019, 155, 11-16.	1.4	8
93	Recurrent Rare Copy Number Variants Increase Risk for Esotropia. , 2020, 61, 22.		8
94	Evaluation of the blinq vision scanner for detection of amblyopia and strabismus. Journal of AAPOS, 2021, 25, 214.e1-214.e7.	0.3	8
95	Recessive variants in <i>COL25A1</i> gene as novel cause of arthrogryposis multiplex congenita with ocular congenital cranial dysinnervation disorder. Human Mutation, 2022, 43, 487-498.	2.5	8
96	Scleral perforations during routine traction test in a patient with osteogenesis imperfecta. Journal of AAPOS, 2014, 18, 610-612.	0.3	7
97	Use of Botulinum Toxin in Ophthalmology. Handbook of Experimental Pharmacology, 2019, 263, 147-160.	1.8	7
98	Identifying Characteristics Predictive of Lost-to-Follow-Up Status in Amblyopia. American Journal of Ophthalmology, 2021, 230, 200-206.	3.3	7
99	Do we Need Evidence for Everything?. American Orthoptic Journal, 2010, 60, 59-62.	0.3	6
100	Central serous chorioretinopathy following medial transposition of split lateral rectus muscle for complete oculomotor nerve palsy. Journal of AAPOS, 2017, 21, 517-518.	0.3	6
101	Anomalous Vertical Deviations in Attempted Abduction Occur in the Majority of Patients With Esotropic Duane Syndrome. American Journal of Ophthalmology, 2018, 195, 171-175.	3.3	6
102	Papillorenal Syndrome in a Brazilian Family. JAMA Ophthalmology, 2002, 120, 1772.	2.4	6
103	Adjustable Sutures in Strabismus Surgery. , 2009, , 213-226.		6
104	No colobomas in œrenal coloboma syndrome. Ophthalmology, 2003, 110, 251.	5.2	5
105	Pediatric vision screening using binocular retinal birefringence scanning. , 2003, , .		5
106	Displacement of optical centers in over-the-counter readers: a potential cause of diplopia. Journal of AAPOS, 2014, 18, 293-294.	0.3	5
107	Diplopia after Strabismus Surgery. Seminars in Ophthalmology, 2018, 33, 102-107.	1.6	5
108	In Vivo Quasi-Elastic Light Scattering Eye Scanner Detects Molecular Aging in Humans. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, e53-e62.	3.6	5

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109	Evaluating Amblyopia Treatment Success Using the American Academy of Ophthalmology IRIS50 Measures. <i>Ophthalmology</i> , 2020, 127, 836-838.	5.2	5
110	Adjustable Suture Technique Is Associated with Fewer Strabismus Reoperations in the Intelligent Research in Sight Registry. <i>Ophthalmology</i> , 2022, 129, 1028-1033.	5.2	5
111	Early Detection vs Late Treatment of Amblyopia. <i>JAMA - Journal of the American Medical Association</i> , 2005, 293, 1920.	7.4	4
112	Rapid, objective detection of cataract-induced blur using a bull's eye photodetector. <i>Journal of Cataract and Refractive Surgery</i> , 2005, 31, 763-770.	1.5	4
113	Introducing AAPOS Workshops. <i>Journal of AAPOS</i> , 2010, 14, 1.	0.3	4
114	Treatment of amblyopia: the "eye pad," or the iPad?. <i>Journal of AAPOS</i> , 2015, 19, 1-2.	0.3	4
115	Effect of Sequential and Simultaneous Patching Regimens in Unilateral Amblyopia. <i>American Journal of Ophthalmology</i> , 2022, 233, 48-56.	3.3	4
116	Nasal Transposition of the Split Lateral Rectus Muscle for Strabismus Associated With Bilateral 3rd-Nerve Palsy. <i>American Journal of Ophthalmology</i> , 2022, 242, 165-172.	3.3	4
117	Superior oblique myokymia treated with levobunolol. <i>Journal of AAPOS</i> , 2018, 22, 67-69.e2.	0.3	3
118	Trends in Venture Capital Investments in Ophthalmology Companies (2011-2021). <i>Ophthalmology</i> , 2022, 129, 353-354.	5.2	3
119	Impact of Adding Augmented Superior Rectus Transpositions to Medial Rectus Muscle Recessions When Treating Esotropic Moebius Syndrome. <i>American Journal of Ophthalmology</i> , 2022, 237, 83-90.	3.3	3
120	Isolated Bilateral Fourth Cranial Nerve Palsies as the Presenting Sign of Hydrocephalus. <i>Case Reports in Ophthalmology</i> , 2011, 2, 211-214.	0.7	2
121	Sedated suture adjustment in children undergoing adjustable suture strabismus surgery. <i>Journal of AAPOS</i> , 2017, 21, 196-200.	0.3	2
122	Congenital muscular dystrophy-dystroglycanopathy, type A, featuring bilateral retinal dysplasia and vertical angle kappa. <i>Journal of AAPOS</i> , 2018, 22, 242-244.e1.	0.3	2
123	Improving Access—but Not Outcomes—with Iris Optical Coherence Tomography Angiography. <i>JAMA Ophthalmology</i> , 2018, 136, 1045.	2.5	2
124	Validation of the Birefringent Amblyopia Screener (Retinal Polarization Scanner), the Reblin Blinq. [Letter]. <i>Clinical Ophthalmology</i> , 2020, Volume 14, 2599-2600.	1.8	2
125	Severe reverse amblyopia with atropine penalization. <i>Journal of AAPOS</i> , 2020, 24, 106-108.	0.3	2
126	Optical Factors Affecting the Outcome of Strabismus Surgery. <i>American Orthoptic Journal</i> , 2003, 53, 2-6.	0.3	2

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127	Accuracy of vision screening. Journal of AAPOS, 2013, 17, 652-653.	0.3	1
128	Intentional extreme anisometropic pseudophakic monovision. Journal of Cataract and Refractive Surgery, 2013, 39, 309-310.	1.5	1
129	Evaluation of the Risk of Postoperative Infection in Adjustable Suture Strabismus Surgery. JAMA Ophthalmology, 2016, 134, 1156.	2.5	1
130	Duane syndrome with a prominent oculo-auricular phenomenon. Journal of AAPOS, 2017, 21, 165-167.	0.3	1
131	Reply. Journal of AAPOS, 2020, 24, 128.	0.3	1
132	Making change at Journal of AAPOS: looking back and moving forward. Journal of AAPOS, 2021, 25, 135-136.	0.3	1
133	Amblyopia-Related Changes in the Fine-Scale Functional Organization of Human Extrastriate Visual Cortex. Journal of Vision, 2021, 21, 1892.	0.3	1
134	Revealing Differential Mechanisms of Absolute vs. Relative Disparity Encoding in Human Extrastriate Visual Cortex and Impacts of Amblyopia on Them. Journal of Vision, 2021, 21, 1986.	0.3	1
135	Chorioretinal Scars From Scleral Perforation During Prior Strabismus Surgery. JAMA Ophthalmology, 2022, 140, e215711.	2.5	1
136	Comparison of fellowship match opportunities and results across pediatric surgical subspecialties. Journal of AAPOS, 2022, , .	0.3	1
137	Discussion by. Ophthalmology, 2003, 110, 1229.	5.2	0
138	Case reports, reviews, and changes to the Journal of AAPOS. Journal of AAPOS, 2011, 15, 117-118.	0.3	0
139	Reply to Mokashi et al. Eye, 2012, 26, 1025-1026.	2.1	0
140	P3-074: Detection of Alzheimer's disease-linked changes in the lens by quasi-elastic light scattering ophthalmoscopy in young subjects with down syndrome. , 2015, 11, P645-P645.		0
141	P4-066: <i>In Vivo</i> Assessment of Molecular Aging by Quasi-Elastic Light Scattering in Human Lens. Alzheimer's and Dementia, 2016, 12, P1039.	0.8	0
142	Reply. Ophthalmology, 2017, 124, e11.	5.2	0
143	Infantile and Early Acquired Ophthalmoplegic Syndromes. Journal of Binocular Vision and Ocular Motility, 2018, 68, 7-9.	0.5	0
144	Accurately Assessing Visual Deficits in Children With Developmental Dyslexia—Reply. JAMA Ophthalmology, 2019, 137, 955.	2.5	0

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145	Prescribing Prisms. , 2021, , 1-12.		0
146	Drive-by Photoscreening [Letter]. Clinical Ophthalmology, 2021, Volume 15, 1443-1444.	1.8	0
147	Botulinum toxin injection of the inferior oblique muscles for V-pattern strabismus and primary position hypertropia,. American Journal of Ophthalmology, 2021, 235, 32-37.	3.3	0
148	AAPOS uniform guidelines for instrument-based pediatric vision screen validation 2021. Journal of AAPOS, 2022, , .	0.3	0
149	Prescribing Prisms. , 2022, , 1011-1021.		0