

Howard C Howland

List of Publications by Year in descending order

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72
papers

5,302
citations

117453

34
h-index

98622

67
g-index

72
all docs

72
docs citations

72
times ranked

2124
citing authors

#	ARTICLE	IF	CITATIONS
1	Accommodation, refractive error and eye growth in chickens. <i>Vision Research</i> , 1988, 28, 639-657.	0.7	576
2	Comparison of corneal wavefront aberrations after photorefractive keratectomy and laser in situ keratomileusis. <i>American Journal of Ophthalmology</i> , 1999, 127, 1-7.	1.7	397
3	A subjective method for the measurement of monochromatic* aberrations of the eye. <i>Journal of the Optical Society of America</i> , 1977, 67, 1508.	1.2	351
4	Corneal Aberrations and Visual Performance After Radial Keratotomy. <i>Journal of Refractive Surgery</i> , 1998, 14, 397-407.	1.1	261
5	Corneal First Surface Optical Aberrations and Visual Performance. <i>Journal of Refractive Surgery</i> , 2000, 16, 507-514.	1.1	219
6	Properties of the feedback loops controlling eye growth and refractive state in the chicken. <i>Vision Research</i> , 1991, 31, 717-734.	0.7	218
7	The allometry and scaling of the size of vertebrate eyes. <i>Vision Research</i> , 2004, 44, 2043-2065.	0.7	187
8	Developing eyes that lack accommodation grow to compensate for imposed defocus. <i>Visual Neuroscience</i> , 1990, 4, 177-183.	0.5	183
9	Measurement of Refractive State and Deprivation Myopia in Two Strains of Mice. <i>Optometry and Vision Science</i> , 2004, 81, 99-110.	0.6	164
10	Normal values and standard deviations for pupil diameter and interpupillary distance in subjects aged 1 month to 19 years. <i>Ophthalmic and Physiological Optics</i> , 2002, 22, 175-182.	1.0	151
11	Photorefracton: A technique for study of refractive state at a distance. <i>Journal of the Optical Society of America</i> , 1974, 64, 240.	1.2	147
12	Laboratory, Clinical, and Kindergarten Test of a New Eccentric Infrared Photorefractor (PowerRefractor). <i>Optometry and Vision Science</i> , 2000, 77, 537-548.	0.6	140
13	Constant light produces severe corneal flattening and hyperopia in chickens. <i>Vision Research</i> , 1995, 35, 1203-1209.	0.7	133
14	Refractive Surgery, Optical Aberrations, and Visual Performance. <i>Journal of Refractive Surgery</i> , 1997, 13, 295-299.	1.1	116
15	A Photorefractive study of infant accommodation. <i>Vision Research</i> , 1979, 19, 1319-1330.	0.7	111
16	Infrared photoretinoscope. <i>Applied Optics</i> , 1987, 26, 1505.	2.1	106
17	Natural accommodation in the growing chicken. <i>Vision Research</i> , 1986, 26, 1977-1993.	0.7	100
18	Chromatic aberration and accommodation: their role in emmetropization in the chick. <i>Vision Research</i> , 1993, 33, 1593-1603.	0.7	98

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19	Optics of Photoretinoscopy. <i>Optometry and Vision Science</i> , 1985, 62, 621-625.	0.6	83
20	Corneal accommodation in chick and pigeon. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1987, 160, 375-384.	0.7	81
21	Mathematical model of emmetropization in the chicken. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1988, 5, 2080.	0.8	72
22	Optics of photorefraction: orthogonal and isotropic methods. <i>Journal of the Optical Society of America</i> , 1983, 73, 1701.	1.2	69
23	Differences in eye growth and the response to visual deprivation in different strains of chicken. <i>Vision Research</i> , 1995, 35, 1211-1216.	0.7	63
24	Measurement of Astigmatism by Automated Infrared Photoretinoscopy. <i>Optometry and Vision Science</i> , 1997, 74, 472-482.	0.6	62
25	Corneal power and underwater accommodation in great cormorants (<i>Phalacrocorax carbo sinensis</i>). <i>Journal of Experimental Biology</i> , 2003, 206, 833-841.	0.8	59
26	Penguin vision in air and water. <i>Vision Research</i> , 1984, 24, 1905-1909.	0.7	57
27	The mechanism of corneal accommodation in chicks. <i>Vision Research</i> , 1994, 34, 1549-1566.	0.7	56
28	Diurnal illumination patterns affect the development of the chick eye. <i>Vision Research</i> , 2000, 40, 2387-2393.	0.7	54
29	Visual optics in toads (<i>Bufo americanus</i>). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1988, 163, 201-213.	0.7	42
30	Refractive state, ocular anatomy, and accommodative range of the sea otter (<i>Enhydra lutris</i>). <i>Vision Research</i> , 1990, 30, 23-32.	0.7	41
31	Corneal Aberrations Increase with the Magnitude of Radial Keratotomy Refractive Correction. <i>Optometry and Vision Science</i> , 1996, 73, 585-589.	0.6	41
32	Mathematical Model of a Placido Disk Keratometer and Its Implications for Recovery of Corneal Topography. <i>Optometry and Vision Science</i> , 1997, 74, 926-930.	0.6	39
33	Visual accommodation and active pursuit of prey underwater in a plunge-diving bird: the Australasian gannet. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 4118-4125.	1.2	37
34	Accommodation in the northern rock bass (<i>Ambloplites rupestris rupestris</i>) in response to natural stimuli. <i>Vision Research</i> , 1973, 13, 2059-2064.	0.7	35
35	Computing high order wave aberration coefficients from variations of best focus for small artificial pupils. <i>Vision Research</i> , 1989, 29, 979-983.	0.7	35
36	Infant eyes: optics and accommodation. <i>Current Eye Research</i> , 1982, 2, 217-224.	0.7	34

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37	The mechanism of lenticular accommodation in chicks. <i>Vision Research</i> , 1995, 35, 1525-1540.	0.7	34
38	A History of Studies of Visual Accommodation in Birds. <i>Quarterly Review of Biology</i> , 1996, 71, 475-509.	0.0	34
39	Growth of the cornea from infancy to adolescence. <i>Ophthalmic and Physiological Optics</i> , 2006, 26, 80-87.	1.0	32
40	Accommodation in infants as measured by photorefraction. <i>Vision Research</i> , 1987, 27, 2141-2152.	0.7	31
41	The Effects of Constant and Diurnal Illumination of the Pineal Gland and the Eyes on Ocular Growth in Chicks. , 2003, 44, 3692.		31
42	The phylogenetic allometry of the semicircular canals of small fishes. <i>Zoomorphology</i> , 1973, 75, 283-296.	0.4	29
43	Refractive state, corneal curvature, accommodative range and ocular anatomy of the Asian elephant (<i>Elephas maximus</i>). <i>Vision Research</i> , 1992, 32, 2013-2021.	0.7	29
44	Accommodative state of young adults using reading spectacles. <i>Vision Research</i> , 2005, 45, 233-245.	0.7	28
45	THE OPTICS OF STATIC PHOTOGRAPHIC SKIASCOPY. <i>Acta Ophthalmologica</i> , 2009, 58, 221-225.	0.6	28
46	Prism induced accommodation in infants 3 to 6 months of age. <i>Vision Research</i> , 2000, 40, 529-537.	0.7	27
47	On the gekko pupil and scheiner's disc. <i>Vision Research</i> , 1986, 26, 815-817.	0.7	26
48	High order wave aberration of eyes. <i>Ophthalmic and Physiological Optics</i> , 2002, 22, 434-439.	1.0	26
49	Corneal curvatures and refractions of central American frogs. <i>Vision Research</i> , 1997, 37, 169-174.	0.7	25
50	Photorefraction of Eyes: History and Future Prospects. <i>Optometry and Vision Science</i> , 2009, 86, 603-606.	0.6	23
51	Modulation of constant light effects on the eye by ciliary ganglionectomy and optic nerve section. <i>Vision Research</i> , 2000, 40, 2249-2256.	0.7	22
52	Raptors lack lower-field myopia. <i>Vision Research</i> , 1995, 35, 1153-1155.	0.7	21
53	Otoconial morphology of the developing chick. <i>The Anatomical Record</i> , 1982, 204, 83-87.	2.3	19
54	Accuracy and Precision of the Tomey ViVA Infrared Photorefractor. <i>Optometry and Vision Science</i> , 1996, 73, 644-652.	0.6	19

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55	Allometry and scaling of wave aberration of eyes. <i>Vision Research</i> , 2005, 45, 1091-1093.	0.7	18
56	Photorefraction of normal and astigmatic infants during viewing of patterned stimuli. <i>Vision Research</i> , 1983, 23, 1043-1052.	0.7	17
57	In vitro changes in back vertex distance of chick and pigeon lenses: Species differences and the effects of aging. <i>Vision Research</i> , 1995, 35, 1813-1824.	0.7	17
58	A true neuronal consensual pupillary reflex in chicks. <i>Vision Research</i> , 1999, 39, 897-900.	0.7	17
59	Studies of otoconia in the developing chick by polarized light microscopy. <i>American Journal of Anatomy</i> , 1985, 174, 131-144.	0.9	16
60	Refractive state and accommodation in the eyes of free-swimming versus restrained juvenile lemon sharks (<i>Negaprion brevirostris</i>). <i>Vision Research</i> , 2001, 41, 1885-1889.	0.7	16
61	Correlations between familial refractive error and children's non-cycloplegic refractions. <i>Vision Research</i> , 1995, 35, 1353-1358.	0.7	15
62	Refractive state of the rhinoceros. <i>Vision Research</i> , 1993, 33, 2649-2651.	0.7	14
63	The functional significance of crescent-shaped pupils and multiple pupillary apertures. <i>The Journal of Experimental Zoology</i> , 1990, 256, 22-28.	1.4	13
64	Retinoscopic measurement of the refractive state of the rat. <i>Vision Research</i> , 1992, 32, 583-586.	0.7	13
65	Role of the Pineal Gland in Ocular Development of the Chick in Normal and Constant Light Conditions. , 2006, 47, 5132.		12
66	Intraocular pressure fluctuations of growing chick eyes are suppressed in constant light conditions. <i>Experimental Eye Research</i> , 2016, 148, 52-54.	1.2	10
67	Photorefractive studies of normal and handicapped infants and children. <i>Behavioural Brain Research</i> , 1983, 10, 81-85.	1.2	8
68	Lack of oblique astigmatism in the chicken eye. <i>Vision Research</i> , 2015, 109, 68-76.	0.7	8
69	Changes in the refractive state during prey capture under low light in the nocturnal cardinalfish <i>Apogon annularis</i> . <i>Vision Research</i> , 2006, 46, 2094-2101.	0.7	4
70	Development of Ocular Refraction: Lessons from Animal Experiments. , 2006, , 1-18.		1
71	Development of Accommodation and Refractive State in the Eyes of Humans and Chickens. , 1989, , 267-282.		1
72	Optics and Accommodation in Owls and Flying Foxes. , 1983, , 153-163.		0