Howard C Howland

List of Publications by Year
in descending order

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	Intraocular pressure fluctuations of growing chick eyes are suppressed in constant light conditions. Experimental Eye Research, 2016, 148, 52-54.	1.2	10
2	Lack of oblique astigmatism in the chicken eye. Vision Research, 2015, 109, 68-76.	0.7	8
3	Visual accommodation and active pursuit of prey underwater in a plunge-diving bird: the Australasian gannet. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4118-4125.	1.2	37
4	Photorefraction of Eyes: History and Future Prospects. Optometry and Vision Science, 2009, 86, 603-606.	0.6	23
5	THE OPTICS OF STATIC PHOTOGRAPHIC SKIASCOPY. Acta Ophthalmologica, 2009, 58, 221-225.	0.6	28
6	Growth of the cornea from infancy to adolescence. Ophthalmic and Physiological Optics, 2006, 26, 80-87.	1.0	32
7	Changes in the refractive state during prey capture under low light in the nocturnal cardinalfish Apogon annularis. Vision Research, 2006, 46, 2094-2101.	0.7	4
8	Role of the Pineal Gland in Ocular Development of the Chick in Normal and Constant Light Conditions. , 2006, 47, 5132.		12
9	Development of Ocular Refraction: Lessons from Animal Experiments. , 2006, , 1-18.		1
10	Accommodative state of young adults using reading spectacles. Vision Research, 2005, 45, 233-245.	0.7	28
11	Allometry and scaling of wave aberration of eyes. Vision Research, 2005, 45, 1091-1093.	0.7	18
12	Measurement of Refractive State and Deprivation Myopia in Two Strains of Mice. Optometry and Vision Science, 2004, 81, 99-110.	0.6	164
13	The allometry and scaling of the size of vertebrate eyes. Vision Research, 2004, 44, 2043-2065.	0.7	187
14	Corneal power and underwater accommodation in great cormorants(Phalacrocorax carbo sinensis). Journal of Experimental Biology, 2003, 206, 833-841.	0.8	59
15	The Effects of Constant and Diurnal Illumination of the Pineal Gland and the Eyes on Ocular Growth in Chicks. , 2003, 44, 3692.		31
16	Normal values and standard deviations for pupil diameter and interpupillary distance in subjects aged 1 month to 19 years. Ophthalmic and Physiological Optics, 2002, 22, 175-182.	1.0	151
17	High order wave aberration of eyes. Ophthalmic and Physiological Optics, 2002, 22, 434-439.	1.0	26
18	Refractive state and accommodation in the eyes of free-swimming versus restrained juvenile lemon sharks (Negaprion brevirostris). Vision Research, 2001, 41, 1885-1889.	0.7	16

#	Article	IF	Citations
19	Laboratory, Clinical, and Kindergarten Test of a New Eccentric Infrared Photorefractor (PowerRefractor). Optometry and Vision Science, 2000, 77, 537-548.	0.6	140
20	Modulation of constant light effects on the eye by ciliary ganglionectomy and optic nerve section. Vision Research, 2000, 40, 2249-2256.	0.7	22
21	Diurnal illumination patterns affect the development of the chick eye. Vision Research, 2000, 40, 2387-2393.	0.7	54
22	Prism induced accommodation in infants 3 to 6 months of age. Vision Research, 2000, 40, 529-537.	0.7	27
23	Corneal First Surface Optical Aberrations and Visual Performance. Journal of Refractive Surgery, 2000, 16, 507-514.	1.1	219
24	A true neuronal consensual pupillary reflex in chicks. Vision Research, 1999, 39, 897-900.	0.7	17
25	Comparison of corneal wavefront aberrations after photorefractive keratectomy and laser in situ keratomileusis. American Journal of Ophthalmology, 1999, 127, 1-7.	1.7	397
26	Corneal Aberrations and Visual Performance After Radial Keratotomy. Journal of Refractive Surgery, 1998, 14, 397-407.	1.1	261
27	Mathematical Model of a Placido Disk Keratometer and Its Implications for Recovery of Corneal Topography. Optometry and Vision Science, 1997, 74, 926-930.	0.6	39
28	Measurement of Astigmatism by Automated Infrared Photoretinoscopy. Optometry and Vision Science, 1997, 74, 472-482.	0.6	62
29	Corneal curvatures and refractions of central American frogs. Vision Research, 1997, 37, 169-174.	0.7	25
30	Refractive Surgery, Optical Aberrations, and Visual Performance. Journal of Refractive Surgery, 1997, 13, 295-299.	1.1	116
31	Corneal Aberrations Increase with the Magnitude of Radial Keratotomy Refractive Correction. Optometry and Vision Science, 1996, 73, 585-589.	0.6	41
32	Accuracy and Precision of the Tomey ViVA Infrared Photorefractor. Optometry and Vision Science, 1996, 73, 644-652.	0.6	19
33	A History of Studies of Visual Accommodation in Birds. Quarterly Review of Biology, 1996, 71, 475-509.	0.0	34
34	The mechanism of lenticular accommodation in chicks. Vision Research, 1995, 35, 1525-1540.	0.7	34
35	Correlations between familial refractive error and children's non-cycloplegic refractions. Vision Research, 1995, 35, 1353-1358.	0.7	15
36	Differences in eye growth and the response to visual deprivation in different strains of chicken. Vision Research, 1995, 35, 1211-1216.	0.7	63

#	Article	IF	Citations
37	Constant light produces severe corneal flattening and hyperopia in chickens. Vision Research, 1995, 35, 1203-1209.	0.7	133
38	Raptors lack lower-field myopia. Vision Research, 1995, 35, 1153-1155.	0.7	21
39	In vitro changes in back vertex distance of chick and pigeon lenses: Species differences and the effects of aging. Vision Research, 1995, 35, 1813-1824.	0.7	17
40	The mechanism of corneal accommodation in chicks. Vision Research, 1994, 34, 1549-1566.	0.7	56
41	Chromatic aberration and accommodation: their role in emmetropization in the chick. Vision Research, 1993, 33, 1593-1603.	0.7	98
42	Refractive state of the rhinoceros. Vision Research, 1993, 33, 2649-2651.	0.7	14
43	Refractive state, corneal curvature, accommodative range and ocular anatomy of the Asian elephant (Elephas maximus). Vision Research, 1992, 32, 2013-2021.	0.7	29
44	Retinoscopic measurement of the refractive state of the rat. Vision Research, 1992, 32, 583-586.	0.7	13
45	Properties of the feedback loops controlling eye growth and refractive state in the chicken. Vision Research, 1991, 31, 717-734.	0.7	218
46	The functional significance of crescent-shaped pupils and multiple pupillary apertures. The Journal of Experimental Zoology, 1990, 256, 22-28.	1.4	13
47	Developing eyes that lack accommodation grow to compensate for imposed defocus. Visual Neuroscience, 1990, 4, 177-183.	0.5	183
48	Refractive state, ocular anatomy, and accommodative range of the sea otter (Enhydra lutris). Vision Research, 1990, 30, 23-32.	0.7	41
49	Computing high order wave aberration coefficients from variations of best focus for small artificial pupils. Vision Research, 1989, 29, 979-983.	0.7	35
50	Development of Accommodation and Refractive State in the Eyes of Humans and Chickens. , 1989, , 267-282.		1
51	Visual optics in toads (Bufo americanus). Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1988, 163, 201-213.	0.7	42
52	Mathematical model of emmetropization in the chicken. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1988, 5, 2080.	0.8	72
53	Accommodation, refractive error and eye growth in chickens. Vision Research, 1988, 28, 639-657.	0.7	576
54	Accommodation in infants as measured by photorefraction. Vision Research, 1987, 27, 2141-2152.	0.7	31

#	Article	IF	Citations
55	Infrared photoretinoscope. Applied Optics, 1987, 26, 1505.	2.1	106
56	Corneal accommodation in chick and pigeon. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1987, 160, 375-384.	0.7	81
57	On the gekko pupil and scheiner's disc. Vision Research, 1986, 26, 815-817.	0.7	26
58	Natural accommodation in the growing chicken. Vision Research, 1986, 26, 1977-1993.	0.7	100
59	Studies of otoconia in the developing chick by polarized light microscopy. American Journal of Anatomy, 1985, 174, 131-144.	0.9	16
60	Optics of Photoretinoscopy. Optometry and Vision Science, 1985, 62, 621-625.	0.6	83
61	Penguin vision in air and water. Vision Research, 1984, 24, 1905-1909.	0.7	57
62	Optics of photorefraction: orthogonal and isotropic methods. Journal of the Optical Society of America, 1983, 73, 1701.	1.2	69
63	Photorefraction of normal and astigmatic infants during viewing of patterned stimuli. Vision Research, 1983, 23, 1043-1052.	0.7	17
64	Photorefractive studies of normal and handicapped infants and children. Behavioural Brain Research, 1983, 10, 81-85.	1.2	8
65	Optics and Accommodation in Owls and Flying Foxes. , 1983, , 153-163.		0
66	Infant eyes: optics and accommodation. Current Eye Research, 1982, 2, 217-224.	0.7	34
67	Otoconial morphology of the developing chick. The Anatomical Record, 1982, 204, 83-87.	2.3	19
68	A Photorefractive study of infant accommodation. Vision Research, 1979, 19, 1319-1330.	0.7	111
69	A subjective method for the measurement of monochromatic* aberrations of the eye. Journal of the Optical Society of America, 1977, 67, 1508.	1.2	351
70	Photorefraction: A technique for study of refractive state at a distance. Journal of the Optical Society of America, 1974, 64, 240.	1.2	147
71	The phylogenetic allometry of the semicircular canals of small fishes. Zoomorphology, 1973, 75, 283-296.	0.4	29
72	Acommodation in the northern rock bass (Ambloplites rupestris rupestris) in response to natural stimuli. Vision Research, 1973, 13, 2059-2064.	0.7	35