# Andrew J Zele

List of Publications by Year
in descending order

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|---|---|---|---|
| 91 papers | 2,937 citations | 257101 24 h-index | 264894 42 g-index |
| 92 all docs | 92 docs citations | 92 times ranked | 1820 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Design and validation of a chartâ€based measure of the limits of spatial contrast sensitivity. Ophthalmic and Physiological Optics, 2022, 42, 110-122. | 1.0 | 3 |
| 2 | The role of melanopsin photoreception on visual attention linked pupil responses. European Journal of Neuroscience, 2022, 55, 1986-2002. | 1.2 | 9 |
| 3 | The Functional Field of View of Older Adults is Associated With Contrast Discrimination in the Magnocellular not Parvocellular Pathway. Journals of Gerontology - Series B Psychological Sciences and Social Sciences, 2021, 76, 1086-1094. | 2.4 | 2 |
| 4 | Melanopsin hypersensitivity dominates interictal photophobia in migraine. Cephalalgia, 2021, 41, 217-226. | 1.8 | 12 |
| 5 | Threshold vision under full-field stimulation: Revisiting the minimum number of quanta necessary to evoke a visual sensation. Vision Research, 2021, 180, 1-10. | 0.7 | 6 |
| 6 | Supplemental light exposure improves sleep architecture in people with type 2 diabetes. Acta Diabetologica, 2021, 58, 1201-1208. | 1.2 | 4 |
| 7 | Optimizing methods to isolate melanopsin-directed responses. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2021, 38, 1051. | 0.8 | 14 |
| 8 | Light adaptation characteristics of melanopsin. Vision Research, 2021, 188, 126-138. | 0.7 | 8 |
| 9 | The accuracy of artificial and natural light measurements by actigraphs. Journal of Sleep Research, 2020, 29, e12963. | 1.7 | 24 |
| 10 | Melanopsin Cell Dysfunction is Involved in Sleep Disruption in Parkinsonâ€™s Disease. Journal of Parkinson's Disease, 2020, 10, 1467-1476. | 1.5 | 11 |
| 11 | Editorial: The Pupil: Behavior, Anatomy, Physiology and Clinical Biomarkers. Frontiers in Neurology, 2020, 11, 211. | 1.1 | 12 |
| 12 | Rhodopsin and melanopsin contributions to human brightness estimation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, A145. | 0.8 | 8 |
| 13 | The flicker Pupil Light Response (fPLR). Translational Vision Science and Technology, 2019, 8, 29. | 1.1 | 7 |
| 14 | The melanopsin-directed white noise electroretinogram (wnERG). Vision Research, 2019, 164, 83-93. | 0.7 | 11 |
| 15 | Melanopsin and Cone Photoreceptor Inputs to the Afferent Pupil Light Response. Frontiers in Neurology, 2019, 10, 529. | 1.1 | 35 |
| 16 | Melanopsin driven enhancement of cone-mediated visual processing. Vision Research, 2019, 160, 72-81. | 0.7 | 26 |
| 17 | Outer Retinal Structure and Function Deficits Contribute to Circadian Disruption in Patients With Type 2 Diabetes. , 2019, 60, 1870. | | 14 |
| 18 | Standards in Pupillography. Frontiers in Neurology, 2019, 10, 129. | 1.1 | 124 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Melanopsin photoreception contributes to human visual detection, temporal and colour processing. Scientific Reports, 2018, 8, 3842. | 1.6 | 82 |
| 20 | Non-linearities in the Rod and Cone Photoreceptor Inputs to the Afferent Pupil Light Response. Frontiers in Neurology, 2018, 9, 1140. | 1.1 | 15 |
| 21 | Melanopsin-Driven Pupil Response and Light Exposure in Non-seasonal Major Depressive Disorder. Frontiers in Neurology, 2018, 9, 764. | 1.1 | 13 |
| 22 | Melanopsin-mediated pupil function is impaired in Parkinsonâ€™s disease. Scientific Reports, 2018, 8, 7796. | 1.6 | 58 |
| 23 | Cone and melanopsin contributions to human brightness estimation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, B19. | 0.8 | 71 |
| 24 | Correlated cone noise decreases rod signal contributions to the post-receptoral pathways. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, B78. | 0.8 | 3 |
| 25 | Extrinsic cone-mediated post-receptoral noise inhibits the rod temporal impulse response function. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, B72. | 0.8 | 5 |
| 26 | Cone and melanopsin contributions to human brightness estimation: reply. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1783. | 0.8 | 7 |
| 27 | The Influence of Melanopsin Activation on the Cone-mediated Photopic White Noise Electroretinogram (wnERG) in Humans. , 2018, , . | | 0 |
| 28 | Intrinsically Photosensitive Retinal Ganglion Cell Function, Sleep Efficiency and Depression in Advanced Age-Related Macular Degeneration. , 2017, 58, 990. | | 40 |
| 29 | A Temporal White Noise Analysis for Extracting the Impulse Response Function of the Human Electroretinogram. Translational Vision Science and Technology, 2017, 6, 1. | 1.1 | 14 |
| 30 | Peripheral detection and resolution with mid-/long-wavelength and short-wavelength sensitive cone systems. Journal of Vision, 2016, 16, 21. | 0.1 | 3 |
| 31 | Melanopsin-mediated post-illumination pupil response in the peripheral retina. Journal of Vision, 2016, 16, 5. | 0.1 | 39 |
| 32 | Rhodopsin and Melanopsin Contributions to the Early Redilation Phase of the Post-Illumination Pupil Response (PIPR). PLoS ONE, 2016, 11, e0161175. | 1.1 | 57 |
| 33 | The Effects of Short-Term Light Adaptation on the Human Post-Illumination Pupil Response. , 2016, 57, 5672. | | 27 |
| 34 | Mesopic Pelliâ€“Robson contrast sensitivity and <scp>MP</scp>â€1 microperimetry in healthy ageing and ageâ€related macular degeneration. Acta Ophthalmologica, 2016, 94, e772-e778. | 0.6 | 26 |
| 35 | Psychophysical Correlates of Retinal Processing. , 2016, , 133-157. | | 4 |
| 36 | Correlated and uncorrelated invisible temporal white noise alters mesopic rod signaling. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, A93. | 0.8 | 19 |

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|---|---|---|---|
| 37 | Quadrant Field Pupillometry Detects Melanopsin Dysfunction in Glaucoma Suspects and Early Glaucoma. Scientific Reports, 2016, 6, 33373. | 1.6 | 76 |
| 38 | Effect of Age and Refractive Error on the Melanopsin Mediated Post-Illumination Pupil Response (PIPR). Scientific Reports, 2015, 5, 17610. | 1.6 | 60 |
| 39 | The Post-Illumination Pupil Response (PIPR). , 2015, 56, 3838. | | 127 |
| 40 | Melanopsin-Mediated Post-Illumination Pupil Response in Early Age-Related Macular Degeneration. , 2015, 56, 6906. | | 38 |
| 41 | Cone Ratios in Myopia and Emmetropia. Optometry and Vision Science, 2015, 92, e1-e5. | 0.6 | 8 |
| 42 | A method for estimating intrinsic noise in electroretinographic (ERG) signals. Documenta Ophthalmologica, 2015, 131, 85-94. | 1.0 | 6 |
| 43 | Temporal characteristics of melanopsin inputs to the human pupil light reflex. Vision Research, 2015, 107, 58-66. | 0.7 | 55 |
| 44 | The Effect of BCMO1 Gene Variants on Macular Pigment Optical Density in Young Healthy Caucasians. Frontiers in Nutrition, 2014, 1, 22. | 1.6 | 9 |
| 45 | Adaptive bilateral filtering using saliency map for deblocking low bit rate videos. , 2014, , . | | 3 |
| 46 | Assessing Rod, Cone, and Melanopsin Contributions to Human Pupil Flicker Responses. , 2014, 55, 719. | | 99 |
| 47 | Effect of rodâ€“cone interactions on mesopic visual performance mediated by chromatic and luminance pathways. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, A7. | 0.8 | 15 |
| 48 | Melanopsin-Expressing Intrinsically Photosensitive Retinal Ganglion Cells in Retinal Disease. Optometry and Vision Science, 2014, 91, 894-903. | 0.6 | 87 |
| 49 | Vision under mesopic and scotopic illumination. Frontiers in Psychology, 2014, 5, 1594. | 1.1 | 132 |
| 50 | The Relationship between BCMO1 Gene Variants and Macular Pigment Optical Density in Persons with and without Age-Related Macular Degeneration. PLoS ONE, 2014, 9, e89069. | 1.1 | 12 |
| 51 | Rod and cone pathway signaling and interaction under mesopic illumination. Journal of Vision, 2013, 13, 21-21. | 0.1 | 32 |
| 52 | Mesopic rod and S-cone interactions revealed by modulation thresholds. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, A19. | 0.8 | 14 |
| 53 | Relationship Among CFH and ARMS2 Genotypes, Macular Pigment Optical Density, and Neuroretinal Function in Persons Without Age-Related Macular Degeneration. JAMA Ophthalmology, 2012, 130, 1402. | 2.6 | 6 |
| 54 | The postâ€illumination pupil response of melanopsinâ€expressing intrinsically photosensitive retinal ganglion cells in diabetes. Acta Ophthalmologica, 2012, 90, e230-4. | 0.6 | 92 |

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|---|---|---|---|
| 55 | Persons with Age-Related Maculopathy Risk Genotypes and Clinically Normal Eyes Have Reduced Mesopic Vision. , 2011, 52, 1145. | | 39 |
| 56 | Mild systemic hypoxia and photopic visual field sensitivity. Acta Ophthalmologica, 2011, 89, e199-e204. | 0.6 | 7 |
| 57 | Intrinsically Photosensitive (Melanopsin) Retinal Ganglion Cell Function in Glaucoma. , 2011, 52, 4362. | | 147 |
| 58 | The Circadian Response of Intrinsically Photosensitive Retinal Ganglion Cells. PLoS ONE, 2011, 6, e17860. | 1.1 | 138 |
| 59 | Influence of field size on pupil diameter under photopic and mesopic light levels. Australasian journal of optometry, The, 2011, 94, 545-548. | 0.6 | 32 |
| 60 | Functional Loss in the Magnocellular and Parvocellular Pathways in Patients with Optic Neuritis. , 2011, 52, 8900. | | 17 |
| 61 | Macular function in tilted disc syndrome. Documenta Ophthalmologica, 2010, 120, 201-203. | 1.0 | 8 |
| 62 | Magnocellular and parvocellular pathway mediated luminance contrast discrimination in amblyopia. Vision Research, 2010, 50, 969-976. | 0.7 | 18 |
| 63 | Intrinsically photosensitive melanopsin retinal ganglion cell contributions to the pupillary light reflex and circadian rhythm. Australasian journal of optometry, The, 2010, 93, 137-149. | 0.6 | 113 |
| 64 | Effect of optical aberrations on the color appearance of small defocused lights. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 960. | 0.8 | 11 |
| 65 | A method for investigating the temporal dynamics of local neuroretinal responses. Journal of Neuroscience Methods, 2008, 167, 207-212. | 1.3 | 5 |
| 66 | Rodâ€“cone interactions and the temporal impulse response of the cone pathway. Vision Research, 2008, 48, 2593-2598. | 0.7 | 31 |
| 67 | Rod contributions to color perception: Linear with rod contrast. Vision Research, 2008, 48, 2586-2592. | 0.7 | 88 |
| 68 | S-cone discrimination for stimuli with spatial and temporal chromatic contrast. Visual Neuroscience, 2008, 25, 349-354. | 0.5 | 13 |
| 69 | Adaptation Mechanisms, Eccentricity Profiles, and Clinical Implementation of Red-on-White Perimetry. Optometry and Vision Science, 2008, 85, 309-317. | 0.6 | 13 |
| 70 | The color of night: Surface color categorization by color defective observers under dim illuminations. Visual Neuroscience, 2008, 25, 475-480. | 0.5 | 7 |
| 71 | Measuring Rod and Cone Dynamics in Age-Related Maculopathy. , 2008, 49, 55. | | 99 |
| 72 | Local Neuroretinal Function during Acute Hypoxia in Healthy Older People. , 2008, 49, 807. | | 14 |

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|---|---|---|---|
| 73 | Chromatic discrimination in the presence of incremental and decremental rod pedestals. Visual Neuroscience, 2008, 25, 399-404. | 0.5 | 21 |
| 74 | Anisometropic Amblyopia: Spatial Contrast Sensitivity Deficits in Inferred Magnocellular and Parvocellular Vision. , 2007, 48, 3622. | | 33 |
| 75 | Variation in intraocular pressure following application of tropicamide in three different dog breeds. Veterinary Ophthalmology, 2007, 10, 8-11. | 0.6 | 20 |
| 76 | Linking impulse response functions to reaction time: Rod and cone reaction time data and a computational model. Vision Research, 2007, 47, 1060-1074. | 0.7 | 62 |
| 77 | Threshold units: A correct metric for reaction time?. Vision Research, 2007, 47, 608-611. | 0.7 | 18 |
| 78 | Defining the detection mechanisms for symmetric and rectified flicker stimuli. Vision Research, 2007, 47, 2700-2713. | 0.7 | 10 |
| 79 | Disclosing disease mechanisms with a spatio-temporal summation paradigm. Graefe's Archive for Clinical and Experimental Ophthalmology, 2006, 244, 425-432. | 1.0 | 18 |
| 80 | Altered Visual Sensitivity in Axial High Myopia: A Local Postreceptoral Phenomenon?. , 2006, 47, 3695. | | 42 |
| 81 | Spatial and temporal chromatic contrast: Effects on chromatic discrimination for stimuli varying in L- and M-cone excitation. Visual Neuroscience, 2006, 23, 495-501. | 0.5 | 25 |
| 82 | Dark-adapted rod suppression of cone flicker detection: Evaluation of receptoral and postreceptoral interactions. Visual Neuroscience, 2006, 23, 531-537. | 0.5 | 43 |
| 83 | The color of night: Surface color perception under dim illuminations. Visual Neuroscience, 2006, 23, 525-530. | 0.5 | 45 |
| 84 | Spatial and temporal chromatic contrast: Effects on chromatic discrimination for stimuli varying in L- and M-cone excitation. Visual Neuroscience, 2006, 23, 495-501. | 0.5 | 15 |
| 85 | Cathode-ray-tube monitor artefacts in neurophysiology. Journal of Neuroscience Methods, 2005, 141, 1-7. | 1.3 | 34 |
| 86 | Robust Indices of Clinical Data: Meaningless Means. , 2005, 46, 4353. | | 8 |
| 87 | Chromatic and luminance losses with multiple sclerosis and optic neuritis measured using dynamic random luminance contrast noise. Ophthalmic and Physiological Optics, 2004, 24, 225-233. | 1.0 | 23 |
| 88 | Fos-tau-LacZ mice expose light-activated pathways in the visual system. NeuroImage, 2004, 23, 1027-1038. | 2.1 | 13 |
| 89 | Fast psychophysical procedures for clinical testing. Australasian journal of optometry, The, 2001, 84, 264-269. | 0.6 | 10 |
| 90 | Achromatic impulses unmask L- and M-cone adaptive mechanisms. Clinical and Experimental Ophthalmology, 2001, 29, 197-200. | 1.3 | 3 |

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|---|---|---|---|
| 91 | Flicker adaptation can be explained by probability summation between ON- and OFF-mechanisms. Clinical and Experimental Ophthalmology, 2000, 28, 227-229. | 1.3 | 10 |