David Garway-Heath

List of Publications by Year
in descending order

112 papers	5,052 citations	159585 30 h-index	118850 62 g-index
114 all docs	114 docs citations	114 times ranked	3268 citing authors

#	Article	IF	Citations
1	Study of Optimal Perimetric Testing In Children (OPTIC): developing consensus and setting research priorities for perimetry in the management of children with glaucoma. Eye, 2022, 36, 1281-1287.	2.1	4
2	Diagnostic assessment of glaucoma and non-glaucomatous optic neuropathies via optical texture analysis of the retinal nerve fibre layer. Nature Biomedical Engineering, 2022, 6, 593-604.	22.5	15
3	Predicting Visual Fields From Optical Coherence Tomography via an Ensemble of Deep Representation Learners. American Journal of Ophthalmology, 2022, 238, 52-65.	3.3	12
4	Use of Composite End Points in Early and Intermediate Age-Related Macular Degeneration Clinical Trials: State-of-the-Art and Future Directions. Ophthalmologica, 2021, 244, 387-395.	1.9	5
5	OCT Signal Enhancement with Deep Learning. Ophthalmology Glaucoma, 2021, 4, 295-304.	1.9	11
6	Improving statistical power of glaucoma clinical trials using an ensemble of cyclical generative adversarial networks. Medical Image Analysis, 2021, 68, 101906.	11.6	11
7	Glaucoma Home Monitoring Using a Tablet-Based Visual Field Test (Eyecatcher): An Assessment of Accuracy and Adherence Over 6 Months. American Journal of Ophthalmology, 2021, 223, 42-52.	3.3	35
8	Are Current Methods of Measuring Dark Adaptation Effective in Detecting the Onset and Progression of Age-Related Macular Degeneration? A Systematic Literature Review. Ophthalmology and Therapy, 2021, 10, 21-38.	2.3	7
9	Challenges, facilitators and barriers to screening study participants in early disease stages-experience from the MACUSTAR study. BMC Medical Research Methodology, 2021, 21, 54.	3.1	4
10	Optimising assessment of dark adaptation data using time to event analysis. Scientific Reports, 2021, 11, 8323.	3.3	4
11	Acceptability of a home-based visual field test (Eyecatcher) for glaucoma home monitoring: a qualitative study of patientsâ€™ views and experiences. BMJ Open, 2021, 11, e043130.	1.9	12
12	Visual Field Endpoints Based on Subgroups of Points May Be Useful in Glaucoma Clinical Trials: A Study With the Humphrey Field Analyzer and Compass Perimeter. Journal of Glaucoma, 2021, 30, 661-665.	1.6	1
13	Neural Networkâ€“Based Retinal Nerve Fiber Layer Profile Compensation for Glaucoma Diagnosis in Myopia: Model Development and Validation. JMIR Medical Informatics, 2021, 9, e22664.	2.6	5
14	Primary trabeculectomy for advanced glaucoma: pragmatic multicentre randomised controlled trial (TAGS). BMJ, The, 2021, 373, n1014.	6.0	29
15	A Scoping Review of Quality of Life Questionnaires in Glaucoma Patients. Journal of Glaucoma, 2021, 30, 732-743.	1.6	10
16	Neuroprotection in Glaucoma: NAD+/NADH Redox State as a Potential Biomarker and Therapeutic Target. Cells, 2021, 10, 1402.	4.1	19
17	Structural Endpoints and Outcome Measures in Uveitis. Ophthalmologica, 2021, 244, 465-479.	1.9	7
18	Trail-Traced Threshold Test (T4) With a Weighted Binomial Distribution for a Psychophysical Test. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2787-2800.	6.3	0

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19	Imaging Outcomes in Clinical Trials of Treatments for Glaucoma. Ophthalmology, 2021, 128, 1240-1242.	5.2	1
20	Improving the Power of Glaucoma Neuroprotection Trials Using Existing Visual Field Data. American Journal of Ophthalmology, 2021, 229, 127-136.	3.3	17
21	Factors associated with non-attendance in the Irish national diabetic retinopathy screening programme (INDEAR study report no. 2). Acta Diabetologica, 2021, 58, 643-650.	2.5	8
22	Hierarchical Censored Bayesian Analysis of Visual Field Progression. Translational Vision Science and Technology, 2021, 10, 4.	2.2	13
23	Primary trabeculectomy versus primary glaucoma eye drops for newly diagnosed advanced glaucoma: TAGS RCT. Health Technology Assessment, 2021, 25, 1-158.	2.8	10
24	â€˜Youâ€™ve got dry macular degeneration, end of storyâ€™: a qualitative study into the experience of living with non-neovascular age-related macular degeneration. Eye, 2020, 34, 461-473.	2.1	29
25	Comparison of Associations with Different Macular Inner Retinal Thickness Parameters in a Large Cohort. Ophthalmology, 2020, 127, 62-71.	5.2	64
26	Efficacy of Repeat Selective Laser Trabeculoplasty in Medication-Naive Open-Angle Glaucoma and Ocular Hypertension during the LiGHT Trial. Ophthalmology, 2020, 127, 467-476.	5.2	27
27	Response to â€˜Comment on: â€˜You have got dry macular degeneration, end of storyâ€™: a qualitative study into the experience of living with non-neovascular age-related macular degenerationâ€™. Eye, 2020, 34, 1937-1938.	2.1	4
28	How do different lighting conditions affect the vision and quality of life of people with glaucoma? A systematic review. Eye, 2020, 34, 138-154.	2.1	24
29	Taking the strain? Impact of glaucoma on patients' informal caregivers. Eye, 2020, 34, 197-204.	2.1	6
30	Clinical study protocol for a low-interventional study in intermediate age-related macular degeneration developing novel clinical endpoints for interventional clinical trials with a regulatory and patient access intentionâ€”MACUSTAR. Trials, 2020, 21, 659.	1.6	21
31	Merging Information From Infrared and Autofluorescence Fundus Images for Monitoring of Chorioretinal Atrophic Lesions. Translational Vision Science and Technology, 2020, 9, 38.	2.2	9
32	The Human Touch: Using a Webcam to Autonomously Monitor Compliance During Visual Field Assessments. Translational Vision Science and Technology, 2020, 9, 31.	2.2	7
33	Using eye movements to detect visual field loss: a pragmatic assessment using simulated scotoma. Scientific Reports, 2020, 10, 9782.	3.3	5
34	Effect of fundus tracking on structureâ€“function relationship in glaucoma. British Journal of Ophthalmology, 2020, 104, bjophthalmol-2019-315070.	3.9	10
35	Refinement and preliminary evaluation of two tabletâ€based tests of realâ€world visual function. Ophthalmic and Physiological Optics, 2020, 40, 35-46.	2.0	5
36	Mutations in SPATA13/ASEF2 cause primary angle closure glaucoma. PLoS Genetics, 2020, 16, e1008721.	3.5	12

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37	Visual Field Outcomes from the Multicenter, Randomized Controlled Laser in Glaucoma and Ocular Hypertension Trial (LiGHT). Ophthalmology, 2020, 127, 1313-1321.	5.2	37
38	Progression from ocular hypertension to visual field loss in the English hospital eye service. British Journal of Ophthalmology, 2020, 104, 1406-1411.	3.9	11
39	Baseline Characteristics of Participants in the Treatment of Advanced Glaucoma Study: A Multicenter Randomized Controlled Trial. American Journal of Ophthalmology, 2020, 213, 186-194.	3.3	6
40	Only eye study 2 (OnES 2): â€˜Am I going to be able to see when the patch comes off?â€™ A qualitative study of patient experiences of undergoing high-stakes only eye surgery. BMJ Open, 2020, 10, e038916.	1.9	13
41	Testing a phantom eye under various signal-to-noise ratio conditions using eleven different OCT devices. Biomedical Optics Express, 2020, 11, 1306.	2.9	9
42	Novel computer-based assessments of everyday visual function in people with age-related macular degeneration. PLoS ONE, 2020, 15, e0243578.	2.5	6
43	Evaluating the Impact of Uveitis on Visual Field Progression Using Large-Scale Real-World Data. American Journal of Ophthalmology, 2019, 207, 144-150.	3.3	18
44	Improving the Feasibility of Glaucoma Clinical Trials Using Trend-Based Visual Field Progression End Points. Ophthalmology Glaucoma, 2019, 2, 72-77.	1.9	25
45	Evaluating Whether Sight Is the Most Valued Sense. JAMA Ophthalmology, 2019, 137, 1317.	2.5	55
46	Are Patient Self-Reported Outcome Measures Sensitive Enough to Be Used asÂEndÂPoints in Clinical Trials?. Ophthalmology, 2019, 126, 682-689.	5.2	39
47	Healthy shopper? Blood pressure testing in a shopping centre Pop-Up in England. BMC Public Health, 2019, 19, 42.	2.9	5
48	ReLayer: a Free, Online Tool for Extracting Retinal Thickness From Cross-Platform OCT Images. Translational Vision Science and Technology, 2019, 8, 25.	2.2	11
49	Primary Selective Laser Trabeculoplasty for Open-Angle Glaucoma and Ocular Hypertension. Ophthalmology, 2019, 126, 1238-1248.	5.2	71
50	Selective laser trabeculoplasty versus eye drops for first-line treatment of ocular hypertension and glaucoma (LiGHT): a multicentre randomised controlled trial. Lancet, The, 2019, 393, 1505-1516.	13.7	338
51	Portable Perimetry Using Eye-Tracking on a Tablet Computerâ€”A Feasibility Assessment. Translational Vision Science and Technology, 2019, 8, 17.	2.2	52
52	Feeling the pressure: a cross-sectional study exploring feasibility of a healthcare Pop-Up for intraocular pressure measurements in shopping centres in England. BMJ Open, 2019, 9, e030523.	1.9	1
53	Auditing service delivery in glaucoma clinics using visual field records: a feasibility study. BMJ Open Ophthalmology, 2019, 4, e000352.	1.6	4
54	The Only Eye Study (OnES): a qualitative study of surgeon experiences of only eye surgery and recommendations for patient safety. BMJ Open, 2019, 9, e030068.	1.9	9

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55	Patient-reported Outcomes, Functional Assessment, and Utility Values in Glaucoma. Journal of Glaucoma, 2019, 28, 89-96.	1.6	16
56	MACUSTAR: Development and Clinical Validation of Functional, Structural, and Patient-Reported Endpoints in Intermediate Age-Related Macular Degeneration. Ophthalmologica, 2019, 241, 61-72.	1.9	71
57	Selective laser trabeculoplasty versus drops for newly diagnosed ocular hypertension and glaucoma: the LiGHT RCT. Health Technology Assessment, 2019, 23, 1-102.	2.8	42
58	Optimising the glaucoma signal/noise ratio by mapping changes in spatial summation with area-modulated perimetric stimuli. Scientific Reports, 2018, 8, 2172.	3.3	31
59	Diagnostic accuracy of optical coherence tomography for diagnosing glaucoma: secondary analyses of the GATE study. British Journal of Ophthalmology, 2018, 102, 604-610.	3.9	16
60	Laser in Glaucoma and Ocular Hypertension (LiGHT) trial. A multicentre, randomised controlled trial: design and methodology. British Journal of Ophthalmology, 2018, 102, 593-598.	3.9	59
61	Seeing it differently: selfâ€reported description of vision loss in dry ageâ€related macular degeneration. Ophthalmic and Physiological Optics, 2018, 38, 98-105.	2.0	26
62	Example of monitoring measurements in a virtual eye clinic using â€˜big dataâ€™. British Journal of Ophthalmology, 2018, 102, 911-915.	3.9	15
63	A Common Glaucoma-risk Variant of SIX6 Alters Retinal Nerve Fiber Layer and Optic Disc Measures in a European Population: The EPIC-Norfolk Eye Study. Journal of Glaucoma, 2018, 27, 743-749.	1.6	13
64	Improving Visual Field Examination of the Macula Using Structural Information. Translational Vision Science and Technology, 2018, 7, 36.	2.2	21
65	The effect of non-neovascular age-related macular degeneration on face recognition performance. Graefe's Archive for Clinical and Experimental Ophthalmology, 2018, 256, 815-821.	1.9	23
66	Combining optical coherence tomography with visual field data to rapidly detect disease progression in glaucoma: a diagnostic accuracy study. Health Technology Assessment, 2018, 22, 1-106.	2.8	29
67	Cases of advanced visual field loss at referral to glaucoma clinics â€“ more men than women?. Ophthalmic and Physiological Optics, 2017, 37, 82-87.	2.0	14
68	Study of Optimal Perimetric Testing In Children (OPTIC): development and feasibility of the kinetic perimetry reliability measure (KPRM). British Journal of Ophthalmology, 2017, 101, 94-96.	3.9	5
69	Searching for unity: Real-world versus item-based visual search in age-related eye disease. Behavioral and Brain Sciences, 2017, 40, e135.	0.7	6
70	Updating Markov models to integrate cross-sectional and longitudinal studies. Artificial Intelligence in Medicine, 2017, 77, 23-30.	6.5	7
71	Relationship between Psychophysical Measures of Retinal Ganglion Cell DensityÂand InÂVivo Measures of Cone DensityÂin Glaucoma. Ophthalmology, 2017, 124, 310-319.	5.2	11
72	Reprint of â€œUpdating Markov models to integrate cross-sectional and longitudinal studiesâ€• Artificial Intelligence in Medicine, 2017, 81, 33-40.	6.5	1

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73	Self-Monitoring Symptoms in Glaucoma: A Feasibility Study of a Web-Based Diary Tool. Journal of Ophthalmology, 2017, 2017, 1-8.	1.3	7
74	Gradually Then Suddenly? Decline in Vision-Related Quality of Life as Glaucoma Worsens. Journal of Ophthalmology, 2017, 2017, 1-7.	1.3	33
75	Searching for Objects in Everyday Scenes: Measuring Performance in People With Dry Age-Related Macular Degeneration. , 2017, 58, 1887.		19
76	Reclaiming the Periphery: Automated Kinetic Perimetry for Measuring Peripheral Visual Fields in Patients With Glaucoma. , 2017, 58, 868.		24
77	Retinal Nerve Fiber Layer Measures and Cognitive Function in the EPIC-Norfolk Cohort Study. , 2016, 57, 1921.		29
78	How does age-related macular degeneration affect real-world visual ability and quality of life? A systematic review. BMJ Open, 2016, 6, e011504.	1.9	156
79	Elevated Intraocular Pressure After Intravitreal Steroid Injection in Diabetic Macular Edema: Monitoring and Management. Ophthalmology and Therapy, 2016, 5, 47-61.	2.3	31
80	Can Automated Imaging for Optic Disc and Retinal Nerve Fiber Layer Analysis Aid Glaucoma Detection?. Ophthalmology, 2016, 123, 930-938.	5.2	41
81	â€˜I didn't see that comingâ€™: simulated visual fields and driving hazard perception test performance. Australasian journal of optometry, The, 2016, 99, 469-475.	1.3	24
82	More frequent, more costly? Health economic modelling aspects of monitoring glaucoma patients in England. BMC Health Services Research, 2016, 16, 611.	2.2	34
83	Automated imaging technologies for the diagnosis of glaucoma: a comparative diagnostic study for the evaluation of the diagnostic accuracy, performance as triage tests and cost-effectiveness (GATE) Tj ETQq1 1 0.784314 rgBT /Over		82
84	More Accurate Modeling of Visual Field Progression in Glaucoma: ANSWERS. , 2015, 56, 6077.		41
85	Measurement Precision in a Series of Visual Fields Acquired by the Standard and Fast Versions of the Swedish Interactive Thresholding Algorithm. JAMA Ophthalmology, 2015, 133, 74.	2.5	43
86	Living with glaucoma: a qualitative study of functional implications and patientsâ€™ coping behaviours. BMC Ophthalmology, 2015, 15, 128.	1.4	47
87	Assessment of the Ocular Response Analyzer as an Instrument for Measurement of Intraocular Pressure and Corneal Biomechanics. Current Eye Research, 2015, 40, 1111-1119.	1.5	19
88	Impact of superior and inferior visual field loss on hazard detection in a computer-based driving test. British Journal of Ophthalmology, 2015, 99, 613-617.	3.9	73
89	Latanoprost for open-angle glaucoma (UKGTS): a randomised, multicentre, placebo-controlled trial. Lancet, The, 2015, 385, 1295-1304.	13.7	494
90	Detecting Changes in Retinal Function: Analysis with Non-Stationary Weibull Error Regression and Spatial Enhancement (ANSWERS). PLoS ONE, 2014, 9, e85654.	2.5	60

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91	Using Eye Tracking to Assess Reading Performance in Patients with Glaucoma: A Within-Person Study. Journal of Ophthalmology, 2014, 2014, 1-10.	1.3	36
92	What's on TV? Detecting age-related neurodegenerative eye disease using eye movement scanpaths. Frontiers in Aging Neuroscience, 2014, 6, 312.	3.4	54
93	Detecting abnormality in optic nerve head images using a feature extraction analysis. Biomedical Optics Express, 2014, 5, 2215.	2.9	9
94	Examining Visual Field Loss in Patients in Glaucoma Clinics During Their Predicted Remaining Lifetime. , 2014, 55, 102.		89
95	Systemic Medication and Intraocular Pressure in a British Population. Ophthalmology, 2014, 121, 1501-1507.	5.2	74
96	Visual Field Progression in Glaucoma. Ophthalmology, 2014, 121, 2023-2027.	5.2	53
97	The United Kingdom Glaucoma Treatment Study: A Multicenter, Randomized, Double-masked, Placebo-controlled Trial. Ophthalmology, 2013, 120, 2540-2545.	5.2	18
98	The United Kingdom Glaucoma Treatment Study. Ophthalmology, 2013, 120, 68-76.	5.2	72
99	The appropriateness of luminance vs. energy as a descriptor of CRT stimulus output when measuring the temporal aspects of vision. , 2013, , .		0
100	Practical landmarks for visual field disability in glaucoma. British Journal of Ophthalmology, 2012, 96, 1185-1189.	3.9	29
101	The Relationship between Variability and Sensitivity in Large-Scale Longitudinal Visual Field Data. , 2012, 53, 5985.		97
102	Improved Estimates of Visual Field Progression Using Bayesian Linear Regression to Integrate Structural Information in Patients with Ocular Hypertension. , 2012, 53, 2760.		85
103	The direction of research into visual disability and quality of life in glaucoma. BMC Ophthalmology, 2011, 11, 19.	1.4	40
104	The Relationship between Diurnal Variations in Intraocular Pressure Measurements and Central Corneal Thickness and Corneal Hysteresis. , 2009, 50, 4229.		64
105	Analysis of HRT Images: Comparison of Reference Planes. , 2008, 49, 3970.		33
106	Optic Disc and Visual Field Progression in Ocular Hypertensive Subjects: Detection Rates, Specificity, and Agreement. , 2006, 47, 2904.		163
107	Structure and Function in Glaucoma: The Relationship between a Functional Visual Field Map and an Anatomic Retinal Map. , 2006, 47, 5356.		65
108	Reducing noise in suspected glaucomatous visual fields by using a new spatial filter. Vision Research, 2004, 44, 839-848.	1.4	45

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109	Relationship between electrophysiological, psychophysical, and anatomical measurements in glaucoma. Investigative Ophthalmology and Visual Science, 2002, 43, 2213-20.	3.3	160
110	Mapping the visual field to the optic disc in normal tension glaucoma eyes11The authors have no proprietary interest in the development or marketing of any product or instrument mentioned in this article.. Ophthalmology, 2000, 107, 1809-1815.	5.2	640
111	Identification of early glaucoma cases with the scanning laser ophthalmoscope11The authors have no proprietary interest in the development or marketing of this or a competing instrument.. Ophthalmology, 1998, 105, 1557-1563.	5.2	380
112	Visual field progression: Comparison of Humphrey Statpac and pointwise linear regression analysis. Graefe's Archive for Clinical and Experimental Ophthalmology, 1996, 234, 411-418.	1.9	60