David Garway-Heath

List of Publications by Year
in descending order

112	5,052	159585	118850
papers	citations	30 h-index	62 g-index

114	114	114	3268
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Latanoprost for open-angle glaucoma (UKGTS): a randomised, multicentre, placebo-controlled trial. Lancet, The, 2015, 385, 1295-1304.	13.7	494
3	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
4	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
5	Optic Disc and Visual Field Progression in Ocular Hypertensive Subjects: Detection Rates, Specificity, and Agreement. , 2006, 47, 2904.		163
6	Relationship between electrophysiological, psychophysical, and anatomical measurements in glaucoma. Investigative Ophthalmology and Visual Science, 2002, 43, 2213-20.	3.3	160
7	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
8	The Relationship between Variability and Sensitivity in Large-Scale Longitudinal Visual Field Data. , 2012, 53, 5985.		97
9	Examining Visual Field Loss in Patients in Glaucoma Clinics During Their Predicted Remaining Lifetime. , 2014, 55, 102.		89
10	Improved Estimates of Visual Field Progression Using Bayesian Linear Regression to Integrate Structural Information in Patients with Ocular Hypertension. , 2012, 53, 2760.		85
11	Systemic Medication and Intraocular Pressure in a British Population. Ophthalmology, 2014, 121, 1501-1507.	5.2	74
12	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
13	The United Kingdom Glaucoma Treatment Study. Ophthalmology, 2013, 120, 68-76.	5.2	72
14	Primary Selective Laser Trabeculoplasty for Open-Angle Glaucoma and Ocular Hypertension. Ophthalmology, 2019, 126, 1238-1248.	5.2	71
15	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
16	Structure and Function in Glaucoma: The Relationship between a Functional Visual Field Map and an Anatomic Retinal Map. , 2006, 47, 5356.		65
17	The Relationship between Diurnal Variations in Intraocular Pressure Measurements and Central Corneal Thickness and Corneal Hysteresis. , 2009, 50, 4229.		64
18	Comparison of Associations with Different Macular Inner Retinal Thickness Parameters in a Large Cohort. Ophthalmology, 2020, 127, 62-71.	5.2	64

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19	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
20	Detecting Changes in Retinal Function: Analysis with Non-Stationary Weibull Error Regression and Spatial Enhancement (ANSWERS). PLoS ONE, 2014, 9, e85654.	2.5	60
21	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
22	Evaluating Whether Sight Is the Most Valued Sense. JAMA Ophthalmology, 2019, 137, 1317.	2.5	55
23	What's on TV? Detecting age-related neurodegenerative eye disease using eye movement scanpaths. Frontiers in Aging Neuroscience, 2014, 6, 312.	3.4	54
24	Visual Field Progression in Glaucoma. Ophthalmology, 2014, 121, 2023-2027.	5.2	53
25	Portable Perimetry Using Eye-Tracking on a Tablet Computerâ€"A Feasibility Assessment. Translational Vision Science and Technology, 2019, 8, 17.	2.2	52
26	Living with glaucoma: a qualitative study of functional implications and patientsâ€™ coping behaviours. BMC Ophthalmology, 2015, 15, 128.	1.4	47
27	Reducing noise in suspected glaucomatous visual fields by using a new spatial filter. Vision Research, 2004, 44, 839-848.	1.4	45
28	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
29	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
30	More Accurate Modeling of Visual Field Progression in Glaucoma: ANSWERS. , 2015, 56, 6077.		41
31	Can Automated Imaging for Optic Disc and Retinal Nerve Fiber Layer Analysis Aid Glaucoma Detection?. Ophthalmology, 2016, 123, 930-938.	5.2	41
32	The direction of research into visual disability and quality of life in glaucoma. BMC Ophthalmology, 2011, 11, 19.	1.4	40
33	Are Patient Self-Reported Outcome Measures Sensitive Enough to Be Used asÂEndÂPoints in Clinical Trials?. Ophthalmology, 2019, 126, 682-689.	5.2	39
34	Visual Field Outcomes from the Multicenter, Randomized Controlled Laser in Glaucoma and Ocular Hypertension Trial (LiGHT). Ophthalmology, 2020, 127, 1313-1321.	5.2	37
35	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
36	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

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37	More frequent, more costly? Health economic modelling aspects of monitoring glaucoma patients in England. BMC Health Services Research, 2016, 16, 611.	2.2	34
38	Analysis of HRT Images: Comparison of Reference Planes. , 2008, 49, 3970.		33
39	Gradually Then Suddenly? Decline in Vision-Related Quality of Life as Glaucoma Worsens. Journal of Ophthalmology, 2017, 2017, 1-7.	1.3	33
40	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 ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.8	32
41	Elevated Intraocular Pressure After Intravitreal Steroid Injection in Diabetic Macular Edema: Monitoring and Management. Ophthalmology and Therapy, 2016, 5, 47-61.	2.3	31
42	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
43	Practical landmarks for visual field disability in glaucoma. British Journal of Ophthalmology, 2012, 96, 1185-1189.	3.9	29
44	Retinal Nerve Fiber Layer Measures and Cognitive Function in the EPIC-Norfolk Cohort Study. , 2016, 57, 1921.		29
45	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
46	Primary trabeculectomy for advanced glaucoma: pragmatic multicentre randomised controlled trial (TAGS). BMJ, The, 2021, 373, n1014.	6.0	29
47	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
48	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
49	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
50	Improving the Feasibility of Glaucoma Clinical Trials Using Trend-Based Visual Field Progression End Points. Ophthalmology Glaucoma, 2019, 2, 72-77.	1.9	25
51	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
52	Reclaiming the Periphery: Automated Kinetic Perimetry for Measuring Peripheral Visual Fields in Patients With Glaucoma. , 2017, 58, 868.		24
53	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
54	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

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55	Improving Visual Field Examination of the Macula Using Structural Information. Translational Vision Science and Technology, 2018, 7, 36.	2.2	21
56	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
57	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
58	Searching for Objects in Everyday Scenes: Measuring Performance in People With Dry Age-Related Macular Degeneration. , 2017, 58, 1887.		19
59	Neuroprotection in Glaucoma: NAD+/NADH Redox State as a Potential Biomarker and Therapeutic Target. Cells, 2021, 10, 1402.	4.1	19
60	The United Kingdom Glaucoma Treatment Study: A Multicenter, Randomized, Double-masked, Placebo-controlled Trial. Ophthalmology, 2013, 120, 2540-2545.	5.2	18
61	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
62	Improving the Power of Glaucoma Neuroprotection Trials Using Existing Visual Field Data. American Journal of Ophthalmology, 2021, 229, 127-136.	3.3	17
63	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
64	Patient-reported Outcomes, Functional Assessment, and Utility Values in Glaucoma. Journal of Glaucoma, 2019, 28, 89-96.	1.6	16
65	Example of monitoring measurements in a virtual eye clinic using â€˜big dataâ€™. British Journal of Ophthalmology, 2018, 102, 911-915.	3.9	15
66	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
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	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
69	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
70	Hierarchical Censored Bayesian Analysis of Visual Field Progression. Translational Vision Science and Technology, 2021, 10, 4.	2.2	13
71	Mutations in SPATA13/ASEF2 cause primary angle closure glaucoma. PLoS Genetics, 2020, 16, e1008721.	3.5	12
72	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

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73	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
74	Relationship between Psychophysical Measures of Retinal Ganglion Cell DensityÂand InÂVivo Measures of Cone DensityÂin Glaucoma. Ophthalmology, 2017, 124, 310-319.	5.2	11
75	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
76	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
77	OCT Signal Enhancement with Deep Learning. Ophthalmology Glaucoma, 2021, 4, 295-304.	1.9	11
78	Improving statistical power of glaucoma clinical trials using an ensemble of cyclical generative adversarial networks. Medical Image Analysis, 2021, 68, 101906.	11.6	11
79	Effect of fundus tracking on structureâ€“function relationship in glaucoma. British Journal of Ophthalmology, 2020, 104, bjophthalmol-2019-315070.	3.9	10
80	A Scoping Review of Quality of Life Questionnaires in Glaucoma Patients. Journal of Glaucoma, 2021, 30, 732-743.	1.6	10
81	Primary trabeculectomy versus primary glaucoma eye drops for newly diagnosed advanced glaucoma: TAGS RCT. Health Technology Assessment, 2021, 25, 1-158.	2.8	10
82	Detecting abnormality in optic nerve head images using a feature extraction analysis. Biomedical Optics Express, 2014, 5, 2215.	2.9	9
83	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
84	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
85	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
86	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
87	Updating Markov models to integrate cross-sectional and longitudinal studies. Artificial Intelligence in Medicine, 2017, 77, 23-30.	6.5	7
88	Self-Monitoring Symptoms in Glaucoma: A Feasibility Study of a Web-Based Diary Tool. Journal of Ophthalmology, 2017, 2017, 1-8.	1.3	7
89	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
90	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

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91	Structural Endpoints and Outcome Measures in Uveitis. Ophthalmologica, 2021, 244, 465-479.	1.9	7
92	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
93	Taking the strain? Impact of glaucoma on patients' informal caregivers. Eye, 2020, 34, 197-204.	2.1	6
94	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
95	Novel computer-based assessments of everyday visual function in people with age-related macular degeneration. PLoS ONE, 2020, 15, e0243578.	2.5	6
96	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
97	Healthy shopper? Blood pressure testing in a shopping centre Pop-Up in England. BMC Public Health, 2019, 19, 42.	2.9	5
98	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
99	Using eye movements to detect visual field loss: a pragmatic assessment using simulated scotoma. Scientific Reports, 2020, 10, 9782.	3.3	5
100	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
101	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
102	Auditing service delivery in glaucoma clinics using visual field records: a feasibility study. BMJ Open Ophthalmology, 2019, 4, e000352.	1.6	4
103	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
104	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
105	Optimising assessment of dark adaptation data using time to event analysis. Scientific Reports, 2021, 11, 8323.	3.3	4
106	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
107	Reprint of â€œUpdating Markov models to integrate cross-sectional and longitudinal studiesâ€. Artificial Intelligence in Medicine, 2017, 81, 33-40.	6.5	1
108	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

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109	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
110	Imaging Outcomes in Clinical Trials of Treatments for Glaucoma. Ophthalmology, 2021, 128, 1240-1242.	5.2	1
111	The appropriateness of luminance vs. energy as a descriptor of CRT stimulus output when measuring the temporal aspects of vision. , 2013, , .		0
112	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