

Catherine Egan

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

4,072
citations

304743

22
h-index

223800

46
g-index

51
all docs

51
docs citations

51
times ranked

5395
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinically applicable deep learning for diagnosis and referral in retinal disease. <i>Nature Medicine</i> , 2018, 24, 1342-1350.	30.7	1,551
2	A Prospective Randomized Trial of Intravitreal Bevacizumab or Laser Therapy in the Management of Diabetic Macular Edema (BOLT Study). <i>Ophthalmology</i> , 2010, 117, 1078-1086.e2.	5.2	473
3	A 2-Year Prospective Randomized Controlled Trial of Intravitreal Bevacizumab or Laser Therapy (BOLT) in the Management of Diabetic Macular Edema. <i>JAMA Ophthalmology</i> , 2012, 130, 972-9.	2.4	347
4	Automated Diabetic Retinopathy Image Assessment Software. <i>Ophthalmology</i> , 2017, 124, 343-351.	5.2	178
5	Serine and Lipid Metabolism in Macular Disease and Peripheral Neuropathy. <i>New England Journal of Medicine</i> , 2019, 381, 1422-1433.	27.0	166
6	Functional and Structural Findings of Neurodegeneration in Early Stages of Diabetic Retinopathy: Cross-sectional Analyses of Baseline Data of the EUROCONDOR Project. <i>Diabetes</i> , 2017, 66, 2503-2510.	0.6	103
7	En face OCT Imaging of the IS/OS Junction Line in Type 2 Idiopathic Macular Telangiectasia. , 2012, 53, 6145.		98
8	Prospective evaluation of an artificial intelligence-enabled algorithm for automated diabetic retinopathy screening of 30,000 patients. <i>British Journal of Ophthalmology</i> , 2021, 105, 723-728.	3.9	89
9	An observational study to assess if automated diabetic retinopathy image assessment software can replace one or more steps of manual imaging grading and to determine their cost-effectiveness. <i>Health Technology Assessment</i> , 2016, 20, 1-72.	2.8	88
10	Real-World Outcomes of Ranibizumab Treatment for Diabetic Macular Edema in a United Kingdom National Health Service Setting. <i>American Journal of Ophthalmology</i> , 2016, 172, 51-57.	3.3	74
11	MACULAR PERFUSION DETERMINED BY FUNDUS FLUORESCIN ANGIOGRAPHY AT THE 4-MONTH TIME POINT IN A PROSPECTIVE RANDOMIZED TRIAL OF INTRAVITREAL BEVACIZUMAB OR LASER THERAPY IN THE MANAGEMENT OF DIABETIC MACULAR EDEMA (BOLT STUDY). <i>Retina</i> , 2010, 30, 781-786.	1.7	72
12	Effects of Topically Administered Neuroprotective Drugs in Early Stages of Diabetic Retinopathy: Results of the EUROCONDOR Clinical Trial. <i>Diabetes</i> , 2019, 68, 457-463.	0.6	69
13	The United Kingdom Diabetic Retinopathy Electronic Medical Record Users Group, Report 1: baseline characteristics and visual acuity outcomes in eyes treated with intravitreal injections of ranibizumab for diabetic macular oedema. <i>British Journal of Ophthalmology</i> , 2017, 101, 75-80.	3.9	57
14	Maternally inherited diabetes and deafness (MIDD): Diagnosis and management. <i>Journal of Diabetes and Its Complications</i> , 2014, 28, 542-546.	2.3	55
15	SDOCT Imaging to Identify Macular Pathology in Patients Diagnosed with Diabetic Maculopathy by a Digital Photographic Retinal Screening Programme. <i>PLoS ONE</i> , 2011, 6, e14811.	2.5	55
16	UK AMD EMR USERS GROUP REPORT V: benefits of initiating ranibizumab therapy for neovascular AMD in eyes with vision better than 6/12. <i>British Journal of Ophthalmology</i> , 2015, 99, 1045-1050.	3.9	51
17	Validation of automated artificial intelligence segmentation of optical coherence tomography images. <i>PLoS ONE</i> , 2019, 14, e0220063.	2.5	48
18	Retinal Layer Location of Increased Retinal Thickness in Eyes with Subclinical and Clinical Macular Edema in Diabetes Type 2. <i>Ophthalmic Research</i> , 2015, 54, 112-117.	1.9	45

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19	Safety and Feasibility of a Novel Sparse Optical Coherence Tomography Device for Patient-Delivered Retina Home Monitoring. <i>Translational Vision Science and Technology</i> , 2018, 7, 8.	2.2	44
20	Automated Detection of Glaucoma With Interpretable Machine Learning Using Clinical Data and Multimodal Retinal Images. <i>American Journal of Ophthalmology</i> , 2021, 231, 154-169.	3.3	43
21	The United Kingdom Diabetic Retinopathy Electronic Medical Record Users Group: Report 3: Baseline Retinopathy and Clinical Features Predict Progression of Diabetic Retinopathy. <i>American Journal of Ophthalmology</i> , 2017, 180, 64-71.	3.3	34
22	Diagnostic accuracy of diabetic retinopathy grading by an artificial intelligence-enabled algorithm compared with a human standard for wide-field true-colour confocal scanning and standard digital retinal images. <i>British Journal of Ophthalmology</i> , 2021, 105, 265-270.	3.9	29
23	High-Performance Virtual Reality Volume Rendering of Original Optical Coherence Tomography Point-Cloud Data Enhanced With Real-Time Ray Casting. <i>Translational Vision Science and Technology</i> , 2018, 7, 2.	2.2	28
24	ABNORMAL RETINAL REFLECTIVITY TO SHORT-WAVELENGTH LIGHT IN TYPE 2 IDIOPATHIC MACULAR TELANGIECTASIA. <i>Retina</i> , 2018, 38, S79-S88.	1.7	26
25	Characterization of Retinal Disease Progression in a 1-Year Longitudinal Study of Eyes With Mild Nonproliferative Retinopathy in Diabetes Type 2. , 2015, 56, 5698.		22
26	Unraveling the deep learning gearbox in optical coherence tomography image segmentation towards explainable artificial intelligence. <i>Communications Biology</i> , 2021, 4, 170.	4.4	20
27	Real world evidence on 5661 patients treated for macular oedema secondary to branch retinal vein occlusion with intravitreal anti-vascular endothelial growth factor, intravitreal dexamethasone or macular laser. <i>British Journal of Ophthalmology</i> , 2021, 105, 549-554.	3.9	19
28	A study of whether automated Diabetic Retinopathy Image Assessment could replace manual grading steps in the English National Screening Programme. <i>Journal of Medical Screening</i> , 2015, 22, 112-118.	2.3	18
29	3D printing of the choroidal vessels and tumours based on optical coherence tomography. <i>Acta Ophthalmologica</i> , 2019, 97, e313-e316.	1.1	17
30	Multicentre study of 4626 patients assesses the effectiveness, safety and burden of two categories of treatments for central retinal vein occlusion: intravitreal anti-vascular endothelial growth factor injections and intravitreal Ozurdex injections. <i>British Journal of Ophthalmology</i> , 2021, 105, 1571-1576.	3.9	17
31	Progression of Retinopathy Secondary to Maternally Inherited Diabetes and Deafness " Evaluation of Predicting Parameters. <i>American Journal of Ophthalmology</i> , 2020, 213, 134-144.	3.3	16
32	Enhanced resolution and speckle-free three-dimensional printing of macular optical coherence tomography angiography. <i>Acta Ophthalmologica</i> , 2019, 97, e317-e319.	1.1	14
33	One-Year Progression of Diabetic Subclinical Macular Edema in Eyes with Mild Nonproliferative Diabetic Retinopathy: Location of the Increase in Retinal Thickness. <i>Ophthalmic Research</i> , 2015, 54, 118-123.	1.9	13
34	Novel biomarker of sphericity and cylindricity indices in volume-rendering optical coherence tomography angiography in normal and diabetic eyes: a preliminary study. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2020, 258, 711-723.	1.9	11
35	Feasibility of support vector machine learning in age-related macular degeneration using small sample yielding sparse optical coherence tomography data. <i>Acta Ophthalmologica</i> , 2019, 97, e719-e728.	1.1	10
36	The Usefulness of Serum Biomarkers in the Early Stages of Diabetic Retinopathy: Results of the EUROCONDOR Clinical Trial. <i>Journal of Clinical Medicine</i> , 2020, 9, 1233.	2.4	10

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37	Comparison of true-colour wide-field confocal scanner imaging with standard fundus photography for diabetic retinopathy screening. <i>British Journal of Ophthalmology</i> , 2020, 104, bjophthalmol-2019-315269.	3.9	10
38	Evolving Treatment Patterns and Outcomes of Neovascular Age-Related Macular Degeneration Over a Decade. <i>Ophthalmology Retina</i> , 2021, 5, e11-e22.	2.4	9
39	VISUAL ACUITY IMPROVEMENT WHEN SWITCHING FROM RANIBIZUMAB TO AFLIBERCEPT IS NOT SUSTAINED. <i>Retina</i> , 2018, 38, 951-956.	1.7	8
40	Validation of virtual reality orbitometry bridges digital and physical worlds. <i>Scientific Reports</i> , 2020, 10, 11815.	3.3	8
41	Structural Features Associated With the Development and Progression of RORA Secondary to Maternally Inherited Diabetes and Deafness. <i>American Journal of Ophthalmology</i> , 2020, 218, 136-147.	3.3	7
42	Relevance of Retinal Thickness Changes in the OCT Inner and Outer Rings to Predict Progression to Clinical Macular Edema: An Attempt of Composite Grading of Macular Edema. <i>Ophthalmic Research</i> , 2016, 55, 19-25.	1.9	5
43	Feasibility and tolerability of ophthalmic virtual reality as a medical communication tool in children and young people. <i>Acta Ophthalmologica</i> , 2021, , .	1.1	4
44	Uncovering of intraspecies macular heterogeneity in cynomolgus monkeys using hybrid machine learning optical coherence tomography image segmentation. <i>Scientific Reports</i> , 2021, 11, 20647.	3.3	4
45	Small cell carcinoma of the lung metastatic to the retina: A clinicopathologic case report. <i>Canadian Journal of Ophthalmology</i> , 2015, 50, e119-e121.	0.7	2
46	Volume rendering of superficial optic disc drusen. <i>Spektrum Der Augenheilkunde</i> , 2017, 31, 288-293.	0.3	2
47	Estimating excess visual loss from neovascular age-related macular degeneration in the UK during the COVID-19 pandemic: a retrospective clinical audit and simulation model. <i>BMJ Open</i> , 2022, 12, e057269.	1.9	2
48	Dynamic volume-rendered optical coherence tomography pupillometry. <i>Acta Ophthalmologica</i> , 2021, , .	1.1	1
49	Reply. <i>American Journal of Ophthalmology</i> , 2017, 174, 176.	3.3	0
50	CAPTCHA as a Visual Performance Metric in Active Macular Disease. <i>Journal of Ophthalmology</i> , 2019, 2019, 1-6.	1.3	0