# Catherine Egan

List of Publications by Year
in descending order

| 50 papers | 4,072 citations | 304743<br>22<br>h-index | 223800<br>46<br>g-index |
|---|---|---|---|
| 51 all docs | 51 docs citations | 51 times ranked | 5395 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | 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. BMJ Open, 2022, 12, e057269. | 1.9 | 2 |
| 2 | 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. British Journal of Ophthalmology, 2021, 105, 1571-1576. | 3.9 | 17 |
| 3 | 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. British Journal of Ophthalmology, 2021, 105, 265-270. | 3.9 | 29 |
| 4 | 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. British Journal of Ophthalmology, 2021, 105, 549-554. | 3.9 | 19 |
| 5 | Prospective evaluation of an artificial intelligence-enabled algorithm for automated diabetic retinopathy screening of 30Â000 patients. British Journal of Ophthalmology, 2021, 105, 723-728. | 3.9 | 89 |
| 6 | Unraveling the deep learning gearbox in optical coherence tomography image segmentation towards explainable artificial intelligence. Communications Biology, 2021, 4, 170. | 4.4 | 20 |
| 7 | Feasibility and tolerability of ophthalmic virtual reality as a medical communication tool in children and young people. Acta Ophthalmologica, 2021, , . | 1.1 | 4 |
| 8 | Evolving Treatment Patterns and Outcomes of Neovascular Age-Related Macular Degeneration Over a Decade. Ophthalmology Retina, 2021, 5, e11-e22. | 2.4 | 9 |
| 9 | Automated Detection of Glaucoma With Interpretable Machine Learning Using Clinical Data and Multimodal Retinal Images. American Journal of Ophthalmology, 2021, 231, 154-169. | 3.3 | 43 |
| 10 | Uncovering of intraspecies macular heterogeneity in cynomolgus monkeys using hybrid machine learning optical coherence tomography image segmentation. Scientific Reports, 2021, 11, 20647. | 3.3 | 4 |
| 11 | Dynamic volumeâ€rendered optical coherence tomography pupillometry. Acta Ophthalmologica, 2021, , . | 1.1 | 1 |
| 12 | Novel biomarker of sphericity and cylindricity indices in volume-rendering optical coherence tomography angiography in normal and diabetic eyes: a preliminary study. Graefe's Archive for Clinical and Experimental Ophthalmology, 2020, 258, 711-723. | 1.9 | 11 |
| 13 | Validation of virtual reality orbitometry bridges digital and physical worlds. Scientific Reports, 2020, 10, 11815. | 3.3 | 8 |
| 14 | Progression of Retinopathy Secondary to Maternally Inherited Diabetes and Deafness â€" Evaluation of Predicting Parameters. American Journal of Ophthalmology, 2020, 213, 134-144. | 3.3 | 16 |
| 15 | The Usefulness of Serum Biomarkers in the Early Stages of Diabetic Retinopathy: Results of the EUROCONDOR Clinical Trial. Journal of Clinical Medicine, 2020, 9, 1233. | 2.4 | 10 |
| 16 | Comparison of true-colour wide-field confocal scanner imaging with standard fundus photography for diabetic retinopathy screening. British Journal of Ophthalmology, 2020, 104, bjophthalmol-2019-315269. | 3.9 | 10 |
| 17 | Structural Features Associated With the Development and Progression of RORA Secondary to Maternally Inherited Diabetes and Deafness. American Journal of Ophthalmology, 2020, 218, 136-147. | 3.3 | 7 |
| 18 | CAPTCHA as a Visual Performance Metric in Active Macular Disease. Journal of Ophthalmology, 2019, 2019, 1-6. | 1.3 | 0 |

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|---|---------|-----|-----------|
| 19 | Validation of automated artificial intelligence segmentation of optical coherence tomography images. PLoS ONE, 2019, 14, e0220063. | 2.5 | 48 |
| 20 | Serine and Lipid Metabolism in Macular Disease and Peripheral Neuropathy. New England Journal of Medicine, 2019, 381, 1422-1433. | 27.0 | 166 |
| 21 | Feasibility of support vector machine learning in age‐related macular degeneration using small sample yielding sparse optical coherence tomography data. Acta Ophthalmologica, 2019, 97, e719-e728. | 1.1 | 10 |
| 22 | Effects of Topically Administered Neuroprotective Drugs in Early Stages of Diabetic Retinopathy: Results of the EUROCONDOR Clinical Trial. Diabetes, 2019, 68, 457-463. | 0.6 | 69 |
| 23 | Enhanced resolution and speckle‐free three‐dimensional printing of macular optical coherence tomography angiography. Acta Ophthalmologica, 2019, 97, e317-e319. | 1.1 | 14 |
| 24 | 3D printing of the choroidal vessels and tumours based on optical coherence tomography. Acta Ophthalmologica, 2019, 97, e313-e316. | 1.1 | 17 |
| 25 | VISUAL ACUITY IMPROVEMENT WHEN SWITCHING FROM RANIBIZUMAB TO AFLIBERCEPT IS NOT SUSTAINED. Retina, 2018, 38, 951-956. | 1.7 | 8 |
| 26 | ABNORMAL RETINAL REFLECTIVITY TO SHORT-WAVELENGTH LIGHT IN TYPE 2 IDIOPATHIC MACULAR TELANGIECTASIA. Retina, 2018, 38, S79-S88. | 1.7 | 26 |
| 27 | Safety and Feasibility of a Novel Sparse Optical Coherence Tomography Device for Patient-Delivered Retina Home Monitoring. Translational Vision Science and Technology, 2018, 7, 8. | 2.2 | 44 |
| 28 | Clinically applicable deep learning for diagnosis and referral in retinal disease. Nature Medicine, 2018, 24, 1342-1350. | 30.7 | 1,551 |
| 29 | High-Performance Virtual Reality Volume Rendering of Original Optical Coherence Tomography Point-Cloud Data Enhanced With Real-Time Ray Casting. Translational Vision Science and Technology, 2018, 7, 2. | 2.2 | 28 |
| 30 | 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. British Journal of Ophthalmology, 2017, 101, 75-80. | 3.9 | 57 |
| 31 | The United Kingdom Diabetic Retinopathy Electronic Medical Record Users Group: Report 3: Baseline Retinopathy and Clinical Features Predict Progression of Diabetic Retinopathy. American Journal of Ophthalmology, 2017, 180, 64-71. | 3.3 | 34 |
| 32 | Reply. American Journal of Ophthalmology, 2017, 174, 176. | 3.3 | 0 |
| 33 | Automated Diabetic Retinopathy Image Assessment Software. Ophthalmology, 2017, 124, 343-351. | 5.2 | 178 |
| 34 | Volume rendering of superficial optic disc drusen. Spektrum Der Augenheilkunde, 2017, 31, 288-293. | 0.3 | 2 |
| 35 | Functional and Structural Findings of Neurodegeneration in Early Stages of Diabetic Retinopathy: Cross-sectional Analyses of Baseline Data of the EUROCONDOR Project. Diabetes, 2017, 66, 2503-2510. | 0.6 | 103 |
| 36 | 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. Ophthalmic Research, 2016, 55, 19-25. | 1.9 | 5 |

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|---|---------|-----|-----------|
| 37 | Real-World Outcomes of Ranibizumab Treatment for Diabetic Macular Edema in a United Kingdom National Health Service Setting. American Journal of Ophthalmology, 2016, 172, 51-57. | 3.3 | 74 |
| 38 | 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. Health Technology Assessment, 2016, 20, 1-72. | 2.8 | 88 |
| 39 | Small cell carcinoma of the lung metastatic to the retina: A clinicopathologic case report. Canadian Journal of Ophthalmology, 2015, 50, e119-e121. | 0.7 | 2 |
| 40 | 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 |
| 41 | A study of whether automated Diabetic Retinopathy Image Assessment could replace manual grading steps in the English National Screening Programme. Journal of Medical Screening, 2015, 22, 112-118. | 2.3 | 18 |
| 42 | UK AMD EMR USERS GROUP REPORT V: benefits of initiating ranibizumab therapy for neovascular AMD in eyes with vision better than 6/12. British Journal of Ophthalmology, 2015, 99, 1045-1050. | 3.9 | 51 |
| 43 | One-Year Progression of Diabetic Subclinical Macular Edema in Eyes with Mild Nonproliferative Diabetic Retinopathy: Location of the Increase in Retinal Thickness. Ophthalmic Research, 2015, 54, 118-123. | 1.9 | 13 |
| 44 | Retinal Layer Location of Increased Retinal Thickness in Eyes with Subclinical and Clinical Macular Edema in Diabetes Type 2. Ophthalmic Research, 2015, 54, 112-117. | 1.9 | 45 |
| 45 | Maternally inherited diabetes and deafness (MIDD): Diagnosis and management. Journal of Diabetes and Its Complications, 2014, 28, 542-546. | 2.3 | 55 |
| 46 | A 2-Year Prospective Randomized Controlled Trial of Intravitreal Bevacizumab or Laser Therapy (BOLT) in the Management of Diabetic Macular Edema. JAMA Ophthalmology, 2012, 130, 972-9. | 2.4 | 347 |
| 47 | â€œEn faceâ€•OCT Imaging of the IS/OS Junction Line in Type 2 Idiopathic Macular Telangiectasia. , 2012, 53, 6145. | | 98 |
| 48 | SDOCT Imaging to Identify Macular Pathology in Patients Diagnosed with Diabetic Maculopathy by a Digital Photographic Retinal Screening Programme. PLoS ONE, 2011, 6, e14811. | 2.5 | 55 |
| 49 | MACULAR PERFUSION DETERMINED BY FUNDUS FLUORESCEIN 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). Retina, 2010, 30, 781-786. | 1.7 | 72 |
| 50 | A Prospective Randomized Trial of Intravitreal Bevacizumab or Laser Therapy in the Management of Diabetic Macular Edema (BOLT Study). Ophthalmology, 2010, 117, 1078-1086.e2. | 5.2 | 473 |