# Felipe A Medeiros

List of Publications by Year
in descending order



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|---|---|---|---|
| 276 papers | 20,010 citations | 14644 66 h-index | 17580 121 g-index |
| 279 all docs | 279 docs citations | 279 times ranked | 8537 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The Pathophysiology and Treatment of Glaucoma. JAMA - Journal of the American Medical Association, 2014, 311, 1901. | 3.8 | 2,572 |
| 2 | Evaluation of retinal nerve fiber layer, optic nerve head, and macular thickness measurements for glaucoma detection using optical coherence tomography. American Journal of Ophthalmology, 2005, 139, 44-55. | 1.7 | 589 |
| 3 | Prevalence of Ocular Surface Disease in Glaucoma Patients. Journal of Glaucoma, 2008, 17, 350-355. | 0.8 | 514 |
| 4 | Comparison of the GDx VCC Scanning Laser Polarimeter, HRT II ConfocalScanning Laser Ophthalmoscope, and Stratus OCT Optical Coherence Tomographfor the Detection of Glaucoma. JAMA Ophthalmology, 2004, 122, 827. | 2.6 | 423 |
| 5 | Optical Coherence Tomography Angiography Vessel Density in Healthy, Glaucoma Suspect, and Glaucoma Eyes. , 2016, 57, OCT451. | | 392 |
| 6 | Relationship between Optical Coherence Tomography Angiography Vessel Density and Severity of Visual Field Loss in Glaucoma. Ophthalmology, 2016, 123, 2498-2508. | 2.5 | 347 |
| 7 | Primary open-angle glaucoma. Nature Reviews Disease Primers, 2016, 2, 16067. | 18.1 | 319 |
| 8 | Evaluation of the Influence of Corneal Biomechanical Properties on Intraocular Pressure Measurements Using the Ocular Response Analyzer. Journal of Glaucoma, 2006, 15, 364-370. | 0.8 | 279 |
| 9 | Common Variants at 9p21 and 8q22 Are Associated with Increased Susceptibility to Optic Nerve Degeneration in Glaucoma. PLoS Genetics, 2012, 8, e1002654. | 1.5 | 276 |
| 10 | The African Descent and Glaucoma Evaluation Study (ADAGES). JAMA Ophthalmology, 2009, 127, 1136. | 2.6 | 269 |
| 11 | Corneal thickness as a risk factor for visual field loss in patients with preperimetric glaucomatous optic neuropathy. American Journal of Ophthalmology, 2003, 136, 805-813. | 1.7 | 232 |
| 12 | Corneal Hysteresis as a Risk Factor for Glaucoma Progression: A Prospective Longitudinal Study. Ophthalmology, 2013, 120, 1533-1540. | 2.5 | 232 |
| 13 | Peripapillary and Macular Vessel Density in Patients with Glaucoma and Single-Hemifield Visual Field Defect. Ophthalmology, 2017, 124, 709-719. | 2.5 | 202 |
| 14 | The Structure and Function Relationship in Glaucoma: Implications for Detection of Progression and Measurement of Rates of Change. , 2012, 53, 6939. | | 200 |
| 15 | Reproducibility of RTVue Retinal Nerve Fiber Layer Thickness and Optic Disc Measurements and Agreement with Stratus Optical Coherence Tomography Measurements. American Journal of Ophthalmology, 2009, 147, 1067-1074.e1. | 1.7 | 198 |
| 16 | Deep Retinal Layer Microvasculature Dropout Detected by the Optical Coherence Tomography Angiography in Glaucoma. Ophthalmology, 2016, 123, 2509-2518. | 2.5 | 194 |
| 17 | Detection of Glaucoma Progression with Stratus OCT Retinal Nerve Fiber Layer, Optic Nerve Head, and Macular Thickness Measurements. , 2009, 50, 5741. | | 179 |
| 18 | Frequency doubling technology perimetry abnormalities as predictors of glaucomatous visual field loss. American Journal of Ophthalmology, 2004, 137, 863-871. | 1.7 | 178 |

| # | Article | IF | Citations |
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| 19 | Structureâ€"Function Relationships Using Confocal Scanning Laser Ophthalmoscopy, Optical Coherence Tomography, and Scanning Laser Polarimetry. , 2006, 47, 2889. | | 174 |
| 20 | Comparison of the Diagnostic Accuracies of the Spectralis, Cirrus, and RTVue Optical Coherence Tomography Devices in Glaucoma. Ophthalmology, 2011, 118, 1334-1339. | 2.5 | 174 |
| 21 | Retinal nerve fiber layer thickness measurements with scanning laser polarimetry predict glaucomatous visual field loss. American Journal of Ophthalmology, 2004, 138, 592-601. | 1.7 | 169 |
| 22 | Comparison of Different Spectral Domain Optical Coherence Tomography Scanning Areas for Glaucoma Diagnosis. Ophthalmology, 2010, 117, 1692-1699.e1. | 2.5 | 169 |
| 23 | Estimating Optical Coherence Tomography Structural Measurement Floors to Improve Detection of Progression in AdvancedÂGlaucoma. American Journal of Ophthalmology, 2017, 175, 37-44. | 1.7 | 167 |
| 24 | Validation of a Predictive Model to Estimate the Risk of Conversion From Ocular Hypertension to Glaucoma. JAMA Ophthalmology, 2005, 123, 1351. | 2.6 | 166 |
| 25 | From Machine to Machine. Ophthalmology, 2019, 126, 513-521. | 2.5 | 158 |
| 26 | Rates of Retinal Nerve Fiber Layer Thinning in Glaucoma Suspect Eyes. Ophthalmology, 2014, 121, 1350-1358. | 2.5 | 157 |
| 27 | Prediction of Functional Loss in Glaucoma From Progressive Optic Disc Damage. JAMA Ophthalmology, 2009, 127, 1250. | 2.6 | 156 |
| 28 | Influence of Disease Severity and Optic Disc Size on the Diagnostic Performance of Imaging Instruments in Glaucoma. , 2006, 47, 1008. | | 155 |
| 29 | Continuous 24-Hour Monitoring of Intraocular Pressure Patterns With a Contact Lens Sensor. JAMA Ophthalmology, 2012, 130, 1534. | 2.6 | 154 |
| 30 | Baseline Optical Coherence Tomography Predicts the Development of Glaucomatous Change in Glaucoma Suspects. American Journal of Ophthalmology, 2006, 142, 576-582.e1. | 1.7 | 153 |
| 31 | Long-term Intraocular Pressure Fluctuations and Risk of Conversion from Ocular Hypertension to Glaucoma. Ophthalmology, 2008, 115, 934-940. | 2.5 | 149 |
| 32 | Longitudinal Changes in Quality of Life and Rates of Progressive Visual Field Loss in Glaucoma Patients. Ophthalmology, 2015, 122, 293-301. | 2.5 | 144 |
| 33 | 24-2 Visual Fields Miss Central Defects Shown on 10-2 Tests in Glaucoma Suspects, Ocular Hypertensives, and Early Glaucoma. Ophthalmology, 2017, 124, 1449-1456. | 2.5 | 142 |
| 34 | Detecting Structural Progression in Glaucoma with Optical Coherence Tomography. Ophthalmology, 2017, 124, S57-S65. | 2.5 | 141 |
| 35 | Estimating Lead Time Gained by OpticalÂCoherence Tomography in DetectingÂGlaucoma before Development ofÂVisual Field Defects. Ophthalmology, 2015, 122, 2002-2009. | 2.5 | 131 |
| 36 | Deep Learning and Glaucoma Specialists. Ophthalmology, 2019, 126, 1627-1639. | 2.5 | 130 |

| # | Article | IF | Citations |
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| 37 | African Descent and Glaucoma Evaluation Study (ADAGES). JAMA Ophthalmology, 2010, 128, 541. | 2.6 | 125 |
| 38 | A Combined Index of Structure and Function for Staging Glaucomatous Damage. JAMA Ophthalmology, 2012, 130, 1107-16. | 2.6 | 125 |
| 39 | Intraocular Pressure Fluctuations in Medical versus Surgically Treated Glaucomatous Patients. Journal of Ocular Pharmacology and Therapeutics, 2002, 18, 489-498. | 0.6 | 121 |
| 40 | The Impact of Location of Progressive Visual Field Loss on Longitudinal Changes in Quality of Life of Patients with Glaucoma. Ophthalmology, 2016, 123, 552-557. | 2.5 | 120 |
| 41 | Use of Progressive Glaucomatous Optic Disk Change as the Reference Standard for Evaluation of Diagnostic Tests in Glaucoma. American Journal of Ophthalmology, 2005, 139, 1010-1018. | 1.7 | 114 |
| 42 | Corneal thickness measurements and visual function abnormalities in ocular hypertensive patients. American Journal of Ophthalmology, 2003, 135, 131-137. | 1.7 | 113 |
| 43 | Combining Structural and Functional Testing for Detection of Glaucoma. Ophthalmology, 2006, 113, 1593-1602. | 2.5 | 112 |
| 44 | Comparison of Different Spectral Domain OCT Scanning Protocols for Diagnosing Preperimetric Glaucoma. , 2013, 54, 3417. | | 112 |
| 45 | Agreement Among Spectral-Domain Optical Coherence Tomography Instruments for Assessing Retinal Nerve Fiber Layer Thickness. American Journal of Ophthalmology, 2011, 151, 85-92.e1. | 1.7 | 111 |
| 46 | Retinal Ganglion Cell Count Estimates Associated with Early Development of Visual Field Defects in Glaucoma. Ophthalmology, 2013, 120, 736-744. | 2.5 | 106 |
| 47 | Optical Coherence Tomography Angiography Vessel Density in Glaucomatous Eyes with Focal Lamina Cribrosa Defects. Ophthalmology, 2016, 123, 2309-2317. | 2.5 | 106 |
| 48 | Diagnosing Preperimetric Glaucoma with Spectral Domain Optical Coherence Tomography. Ophthalmology, 2012, 119, 2261-2269. | 2.5 | 105 |
| 49 | Identifying Glaucomatous Vision Loss with Visual-Functionâ€“Specific Perimetry in the Diagnostic Innovations in Glaucoma Study. , 2006, 47, 3381. | | 104 |
| 50 | Assessment of Choroidal Thickness and Volume during the Water Drinking Test by Swept-Source Optical Coherence Tomography. Ophthalmology, 2013, 120, 2508-2516. | 2.5 | 102 |
| 51 | Combining Structural and Functional Measurements to Improve Detection of Glaucoma Progression using Bayesian Hierarchical Models. , 2011, 52, 5794. | | 101 |
| 52 | Structure-function Relationships Using the Cirrus Spectral Domain Optical Coherence Tomograph and Standard Automated Perimetry. Journal of Glaucoma, 2012, 21, 49-54. | 0.8 | 99 |
| 53 | Corneal thickness measurements and frequency doubling technology perimetry abnormalities in ocular hypertensive eyes. Ophthalmology, 2003, 110, 1903-1908. | 2.5 | 97 |
| 54 | Comparing the Rates of Retinal Nerve Fiber Layer and Ganglion Cellâ€“Inner Plexiform Layer Loss in Healthy Eyes and in Glaucoma Eyes. American Journal of Ophthalmology, 2017, 178, 38-50. | 1.7 | 97 |

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| 55 | Axonal loss after traumatic optic neuropathy documented by optical coherence tomography. American Journal of Ophthalmology, 2003, 135, 406-408. | 1.7 | 95 |
| 56 | Comparison of Retinal Nerve Fiber Layer and Optic Disc Imaging for Diagnosing Glaucoma in Patients Suspected of Having the Disease. Ophthalmology, 2008, 115, 1340-1346. | 2.5 | 94 |
| 57 | Estimating the Rate of Retinal Ganglion Cell Loss in Glaucoma. American Journal of Ophthalmology, 2012, 154, 814-824.e1. | 1.7 | 94 |
| 58 | Evaluation of Retinal and Choroidal Thickness by Swept-Source Optical Coherence Tomography: Repeatability and Assessment of Artifacts. American Journal of Ophthalmology, 2014, 157, 1022-1032.e3. | 1.7 | 94 |
| 59 | African Descent and Glaucoma Evaluation Study (ADAGES). JAMA Ophthalmology, 2010, 128, 551. | 2.6 | 92 |
| 60 | Assessment of a Segmentation-Free Deep Learning Algorithm for Diagnosing Glaucoma From Optical Coherence Tomography Scans. JAMA Ophthalmology, 2020, 138, 333. | 1.4 | 92 |
| 61 | Detection of Glaucoma Using Scanning Laser Polarimetry with Enhanced Corneal Compensation. , 2007, 48, 3146. | | 90 |
| 62 | The Relationship between Intraocular Pressure and Progressive Retinal Nerve Fiber Layer Loss in Glaucoma. Ophthalmology, 2009, 116, 1125-1133.e3. | 2.5 | 90 |
| 63 | Defects of the Lamina Cribrosa in Eyes with Localized Retinal Nerve Fiber Layer Loss. Ophthalmology, 2014, 121, 110-118. | 2.5 | 90 |
| 64 | A Review of Deep Learning for Screening, Diagnosis, and Detection of Glaucoma Progression. Translational Vision Science and Technology, 2020, 9, 42. | 1.1 | 89 |
| 65 | Retinal Nerve Fiber Layer Features Identified by Unsupervised Machine Learning on Optical Coherence Tomography Scans Predict Glaucoma Progression. , 2018, 59, 2748. | | 86 |
| 66 | Comparison of Latanoprostene Bunod 0.024% and Timolol Maleate 0.5% in Open-Angle Glaucoma or Ocular Hypertension: The LUNAR Study. American Journal of Ophthalmology, 2016, 168, 250-259. | 1.7 | 85 |
| 67 | Detection of Progressive Retinal Nerve Fiber Layer Loss in Glaucoma Using Scanning Laser Polarimetry with Variable Corneal Compensation. , 2009, 50, 1675. | | 84 |
| 68 | Effect of Disease Severity on the Performance of Cirrus Spectral-Domain OCT for Glaucoma Diagnosis. , 2010, 51, 4104. | | 84 |
| 69 | Glaucoma Progression Detection Using Structural Retinal Nerve Fiber Layer Measurements and Functional Visual Field Points. IEEE Transactions on Biomedical Engineering, 2014, 61, 1143-1154. | 2.5 | 84 |
| 70 | Comparability of Retinal Nerve Fiber Layer Thickness Measurements of Optical Coherence Tomography Instruments. , 2005, 46, 1280. | | 83 |
| 71 | The Relationship between Intraocular Pressure Reduction and Rates of Progressive Visual Field Loss in Eyes with Optic Disc Hemorrhage. Ophthalmology, 2010, 117, 2061-2066. | 2.5 | 83 |
| 72 | Structure-Function Relationship in Glaucoma Using Spectral-Domain Optical Coherence Tomography. JAMA Ophthalmology, 2011, 129, 864. | 2.6 | 79 |

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| 73 | Association Between Progressive Retinal Nerve Fiber Layer Loss and Longitudinal Change in Quality of Life in Glaucoma. JAMA Ophthalmology, 2015, 133, 384. | 1.4 | 79 |
| 74 | Structural Change Can Be Detected in Advanced-Glaucoma Eyes. , 2016, 57, OCT511. | | 79 |
| 75 | Detecting Glaucoma With a Portable Brain-Computer Interface for Objective Assessment of Visual Function Loss. JAMA Ophthalmology, 2017, 135, 550. | 1.4 | 78 |
| 76 | Evaluation of Macular Thickness Measurements for Detection of Band Atrophy of the Optic Nerve Using Optical Coherence Tomography. Ophthalmology, 2007, 114, 175-181. | 2.5 | 77 |
| 77 | Frequency of Testing to Detect Visual Field Progression Derived Using a Longitudinal Cohort of Glaucoma Patients. Ophthalmology, 2017, 124, 786-792. | 2.5 | 76 |
| 78 | Relevance Vector Machine and Support Vector Machine Classifier Analysis of Scanning Laser Polarimetry Retinal Nerve Fiber Layer Measurements. , 2005, 46, 1322. | | 75 |
| 79 | Effect of Signal Strength and Improper Alignment on the Variability of Stratus Optical Coherence Tomography Retinal Nerve Fiber Layer Thickness Measurements. American Journal of Ophthalmology, 2009, 148, 249-255.e1. | 1.7 | 75 |
| 80 | The Effect of Disc Size and Severity of Disease on the Diagnostic Accuracy of the Heidelberg Retina Tomograph Glaucoma Probability Score. , 2007, 48, 2653. | | 74 |
| 81 | Rates of Progressive Retinal Nerve Fiber Layer Loss in Glaucoma Measured by Scanning Laser Polarimetry. American Journal of Ophthalmology, 2010, 149, 908-915. | 1.7 | 73 |
| 82 | Association Between Corneal Biomechanical Properties and Glaucoma Severity. American Journal of Ophthalmology, 2012, 153, 419-427.e1. | 1.7 | 72 |
| 83 | A Statistical Approach to the Evaluation of Covariate Effects on the Receiver Operating Characteristic Curves of Diagnostic Tests in Glaucoma. , 2006, 47, 2520. | | 71 |
| 84 | A Deep Learning Algorithm to Quantify Neuroretinal Rim Loss From Optic Disc Photographs. American Journal of Ophthalmology, 2019, 201, 9-18. | 1.7 | 70 |
| 85 | The Effects of Study Design and Spectrum Bias on the Evaluation of Diagnostic Accuracy of Confocal Scanning Laser Ophthalmoscopy in Glaucoma. , 2007, 48, 214. | | 69 |
| 86 | Human Versus Machine: Comparing a Deep Learning Algorithm to Human Gradings for Detecting Glaucoma on Fundus Photographs. American Journal of Ophthalmology, 2020, 211, 123-131. | 1.7 | 69 |
| 87 | Diagnostic Ability of Macular Ganglion Cell Inner Plexiform Layer Measurements in Glaucoma Using Swept Source and Spectral Domain Optical Coherence Tomography. PLoS ONE, 2015, 10, e0125957. | 1.1 | 68 |
| 88 | A Comparison of Rates of Change in Neuroretinal Rim Area and Retinal Nerve Fiber Layer Thickness in Progressive Glaucoma. , 2010, 51, 3531. | | 67 |
| 89 | Diagnostic Ability of Retinal Nerve Fiber Layer Imaging byÂSwept-Source Optical Coherence Tomography inÂGlaucoma. American Journal of Ophthalmology, 2015, 159, 193-201. | 1.7 | 67 |
| 90 | Bayesian Machine Learning Classifiers for Combining Structural and Functional Measurements to Classify Healthy and Glaucomatous Eyes. , 2008, 49, 945. | | 66 |

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| 91 | Comparison of Scanning Laser Polarimetry Using Variable Corneal Compensationand Retinal Nerve Fiber Layer Photography for Detection of Glaucoma. JAMA Ophthalmology, 2004, 122, 698. | 2.6 | 65 |
| 92 | Five rules to evaluate the optic disc and retinal nerve fiber layer for glaucoma. Optometry - Journal of the American Optometric Association, 2005, 76, 661-668. | 0.6 | 65 |
| 93 | Effect of Improper Scan Alignment on Retinal Nerve Fiber Layer Thickness Measurements Using Stratus Optical Coherence Tomograph. Journal of Glaucoma, 2008, 17, 341-349. | 0.8 | 65 |
| 94 | Assessment of Choroidal Thickness in Healthy and Glaucomatous Eyes Using Swept Source Optical Coherence Tomography. PLoS ONE, 2014, 9, e109683. | 1.1 | 65 |
| 95 | Agreement for Detecting Glaucoma Progression with the GDx Guided Progression Analysis, Automated Perimetry, and Optic Disc Photography. Ophthalmology, 2010, 117, 462-470. | 2.5 | 63 |
| 96 | Combining Structural and Functional Measurements to Improve Estimates of Rates of Glaucomatous Progression. American Journal of Ophthalmology, 2012, 153, 1197-1205.e1. | 1.7 | 63 |
| 97 | Spectral domain-optical coherence tomography to detect localized retinal nerve fiber layer defects in glaucomatous eyes. Optics Express, 2009, 17, 4004. | 1.7 | 62 |
| 98 | Relationship between Ganglion Cell Layer Thickness and Estimated Retinal Ganglion Cell Counts in the Glaucomatous Macula. Ophthalmology, 2014, 121, 2371-2379. | 2.5 | 62 |
| 99 | A Prospective Longitudinal Study to Investigate Corneal Hysteresis as a Risk Factor for Predicting Development of Glaucoma. American Journal of Ophthalmology, 2018, 187, 148-152. | 1.7 | 62 |
| 100 | Phase 3, Randomized, 20-Month Study ofÂBimatoprost Implant in Open-Angle Glaucoma and Ocular Hypertension (ARTEMIS 1). Ophthalmology, 2020, 127, 1627-1641. | 2.5 | 62 |
| 101 | Confocal Scanning Laser Ophthalmoscopy Classifiers and Stereophotograph Evaluation for Prediction of Visual Field Abnormalities in Glaucoma-Suspect Eyes. , 2004, 45, 2255. | | 61 |
| 102 | Effect of Disease Severity and Optic Disc Size on Diagnostic Accuracy of RTVue Spectral Domain Optical Coherence Tomograph in Glaucoma. , 2011, 52, 1290. | | 61 |
| 103 | Corneal Hysteresis and Progressive Retinal Nerve Fiber Layer Loss in Glaucoma. American Journal of Ophthalmology, 2016, 166, 29-36. | 1.7 | 61 |
| 104 | Impact of Normal Aging and Progression Definitions on the Specificity of Detecting Retinal Nerve Fiber Layer Thinning. American Journal of Ophthalmology, 2017, 181, 106-113. | 1.7 | 61 |
| 105 | Fourier Analysis of Scanning Laser Polarimetry Measurements with Variable Corneal Compensation in Glaucoma. , 2003, 44, 2606. | | 60 |
| 106 | Retinal Nerve Fiber Layer Thickness and Visual Sensitivity Using Scanning Laser Polarimetry with Variable and Enhanced Corneal Compensation. Ophthalmology, 2007, 114, 1259-1265. | 2.5 | 60 |
| 107 | The Relative Odds of Progressing by Structural and Functional Tests in Glaucoma. , 2016, 57, OCT421. | | 60 |
| 108 | Relationship between central corneal thickness and retinal nerve fiber layer thickness in ocular hypertensive patients. Ophthalmology, 2005, 112, 251-256. | 2.5 | 56 |

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| 109 | Strategies for improving early detection of glaucoma: the combined structure–function index. Clinical Ophthalmology, 2014, 8, 611. | 0.9 | 56 |
| 110 | The NEIGHBOR Consortium Primary Open-Angle Glaucoma Genome-wide Association Study. Journal of Glaucoma, 2013, 22, 517-525. | 0.8 | 55 |
| 111 | What rates of glaucoma progression are clinically significant?. Expert Review of Ophthalmology, 2016, 11, 227-234. | 0.3 | 54 |
| 112 | Learning From Data: Recognizing Glaucomatous Defect Patterns and Detecting Progression From Visual Field Measurements. IEEE Transactions on Biomedical Engineering, 2014, 61, 2112-2124. | 2.5 | 53 |
| 113 | Unsupervised Gaussian Mixture-Model With Expectation Maximization for Detecting Glaucomatous Progression in Standard Automated Perimetry Visual Fields. Translational Vision Science and Technology, 2016, 5, 2. | 1.1 | 51 |
| 114 | Evaluation of Progressive Neuroretinal Rim Loss as a Surrogate End Point for Development of Visual Field Loss in Glaucoma. Ophthalmology, 2014, 121, 100-109. | 2.5 | 49 |
| 115 | Management of advanced glaucoma: Characterization and monitoring. Survey of Ophthalmology, 2016, 61, 597-615. | 1.7 | 49 |
| 116 | Detection of Progressive Glaucomatous Optic Nerve Damage on Fundus Photographs with Deep Learning. Ophthalmology, 2021, 128, 383-392. | 2.5 | 49 |
| 117 | Agreement among 3 Optical Imaging Methods for the Assessment of Optic Disc Topography. Ophthalmology, 2005, 112, 2149-2156. | 2.5 | 48 |
| 118 | Relationship Between Patterns of Visual Field Loss and Retinal Nerve Fiber Layer Thickness Measurements. American Journal of Ophthalmology, 2006, 141, 463-471.e1. | 1.7 | 48 |
| 119 | Diagnostic Accuracy of the Matrix 24-2 and Original N-30 Frequency-Doubling Technology Tests Compared with Standard Automated Perimetry. , 2008, 49, 954. | | 47 |
| 120 | Comparison of Corneal Biomechanical Properties Between Healthy Blacks and Whites Using the Ocular Response Analyzer. American Journal of Ophthalmology, 2010, 150, 163-168.e1. | 1.7 | 47 |
| 121 | Corneal Biomechanics and Visual Field Progression in Eyes with Seemingly Well-Controlled Intraocular Pressure. Ophthalmology, 2019, 126, 1640-1646. | 2.5 | 47 |
| 122 | Comparison of Dynamic Contour Tonometry and Goldmann Applanation Tonometry in African American Subjects. Ophthalmology, 2007, 114, 658-665. | 2.5 | 46 |
| 123 | Comparison of HRT-3 Glaucoma Probability Score and Subjective Stereophotograph Assessment for Prediction of Progression in Glaucoma. , 2008, 49, 1898. | | 46 |
| 124 | Improved Prediction of Rates of Visual Field Loss in Glaucoma Using Empirical Bayes Estimates of Slopes of Change. Journal of Glaucoma, 2012, 21, 147-154. | 0.8 | 46 |
| 125 | The Bidirectional Relationship between Vision and Cognition. Ophthalmology, 2021, 128, 981-992. | 2.5 | 46 |
| 126 | Incorporating Risk Factors to Improve the Assessment of Rates of Glaucomatous Progression. , 2012, 53, 2199. | | 45 |

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| 127 | Rates of Glaucomatous Structural and Functional Change From a Large Clinical Population: The Duke Glaucoma Registry Study. American Journal of Ophthalmology, 2021, 222, 238-247. | 1.7 | 45 |
| 128 | American Chinese Glaucoma Imaging Study: A Comparison of the Optic Disc and Retinal Nerve Fiber Layer in Detecting Glaucomatous Damage. , 2007, 48, 2644. | | 44 |
| 129 | Fast Visual Field Progression Is Associated with Depressive Symptoms in Patients with Glaucoma. Ophthalmology, 2016, 123, 754-759. | 2.5 | 44 |
| 130 | Does the Location of Bruch's Membrane Opening Change Over Time? Longitudinal Analysis Using San Diego Automated Layer Segmentation Algorithm (SALSA). , 2016, 57, 675. | | 43 |
| 131 | Recent developments in visual field testing for glaucoma. Current Opinion in Ophthalmology, 2018, 29, 141-146. | 1.3 | 42 |
| 132 | The Association Between Macula and ONH Optical Coherence Tomography Angiography (OCT-A) Vessel Densities in Glaucoma, Glaucoma Suspect, and Healthy Eyes. Journal of Glaucoma, 2018, 27, 227-232. | 0.8 | 42 |
| 133 | Estimating Rates of Progression and Predicting Future Visual Fields in Glaucoma Using a Deep Variational Autoencoder. Scientific Reports, 2019, 9, 18113. | 1.6 | 42 |
| 134 | Artificial Intelligence Mapping of Structure to Function in Glaucoma. Translational Vision Science and Technology, 2020, 9, 19. | 1.1 | 42 |
| 135 | Global rates of glaucoma surgery. Graefe's Archive for Clinical and Experimental Ophthalmology, 2013, 251, 2609-2615. | 1.0 | 41 |
| 136 | The African Descent and Glaucoma Evaluation Study (ADAGES): Predictors of Visual Field Damage in Glaucoma Suspects. American Journal of Ophthalmology, 2015, 159, 777-787.e1. | 1.7 | 41 |
| 137 | Detection of Glaucoma Progression in Individuals of African Descent Compared With Those of European Descent. JAMA Ophthalmology, 2018, 136, 329. | 1.4 | 41 |
| 138 | The Effect of Atypical Birefringence Patterns on Glaucoma Detection Using Scanning Laser Polarimetry with Variable Corneal Compensation. , 2007, 48, 223. | | 40 |
| 139 | Performance of the 10-2 and 24-2 Visual Field Tests for Detecting Central Visual Field Abnormalities in Glaucoma. American Journal of Ophthalmology, 2018, 196, 10-17. | 1.7 | 40 |
| 140 | Genetic Architecture of Primary Open-Angle Glaucoma in Individuals of African Descent. Ophthalmology, 2019, 126, 38-48. | 2.5 | 40 |
| 141 | Is 24-hour Intraocular Pressure Monitoring Necessary in Glaucoma?. Seminars in Ophthalmology, 2013, 28, 157-164. | 0.8 | 39 |
| 142 | Strategies to improve early diagnosis in glaucoma. Progress in Brain Research, 2015, 221, 103-133. | 0.9 | 39 |
| 143 | Association between Intraocular Pressure and Rates of Retinal Nerve Fiber Layer Loss Measured by Optical Coherence Tomography. Ophthalmology, 2016, 123, 2058-2065. | 2.5 | 38 |
| 144 | Estimated Retinal Ganglion Cell Counts in Glaucomatous Eyes with Localized Retinal Nerve Fiber Layer Defects. American Journal of Ophthalmology, 2013, 156, 578-587.e1. | 1.7 | 37 |

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| 145 | Comparison of Visual Field Point-Wise Event-Based and Global Trend-Based Analysis for Detecting Glaucomatous Progression. Translational Vision Science and Technology, 2018, 7, 20. | 1.1 | 37 |
| 146 | Glaucomatous Patterns in Frequency Doubling Technology (FDT) Perimetry Data Identified by Unsupervised Machine Learning Classifiers. PLoS ONE, 2014, 9, e85941. | 1.1 | 36 |
| 147 | Driving Simulation as a Performance-based Test of Visual Impairment in Glaucoma. Journal of Glaucoma, 2012, 21, 221-227. | 0.8 | 35 |
| 148 | Lamina Cribrosa in Glaucoma: Diagnosis and Monitoring. Current Ophthalmology Reports, 2015, 3, 74-84. | 0.5 | 35 |
| 149 | Rates of Retinal Nerve Fiber Layer Loss inÂContralateral Eyes of Glaucoma Patients with Unilateral Progression by Conventional Methods. Ophthalmology, 2015, 122, 2243-2251. | 2.5 | 35 |
| 150 | The role of standard automated perimetry and newer functional methods for glaucoma diagnosis and follow-up. Indian Journal of Ophthalmology, 2011, 59, 53. | 0.5 | 35 |
| 151 | Integrating Event- and Trend-Based Analyses to Improve Detection of Glaucomatous Visual Field Progression. Ophthalmology, 2012, 119, 458-467. | 2.5 | 34 |
| 152 | Detecting Glaucoma Using Automated Pupillography. Ophthalmology, 2014, 121, 1185-1193. | 2.5 | 34 |
| 153 | African Descent and Glaucoma Evaluation Study (ADAGES). Ophthalmology, 2016, 123, 1476-1483. | 2.5 | 33 |
| 154 | Quantification of Retinal Nerve Fibre Layer Thickness on Optical Coherence Tomography with a Deep Learning Segmentation-Free Approach. Scientific Reports, 2020, 10, 402. | 1.6 | 33 |
| 155 | The Use of Spectral-Domain Optical Coherence Tomography to Detect Glaucoma Progression. Open Ophthalmology Journal, 2015, 9, 78-88. | 0.1 | 33 |
| 156 | Retinal nerve fibre layer thickness measurements in patients using chloroquine. Clinical and Experimental Ophthalmology, 2006, 34, 130-136. | 1.3 | 32 |
| 157 | Predicting Glaucomatous Progression in Glaucoma Suspect Eyes Using Relevance Vector Machine Classifiers for Combined Structural and Functional Measurements. , 2012, 53, 2382. | | 32 |
| 158 | Estimated Rates of Retinal Ganglion Cell Loss in Glaucomatous Eyes with and without Optic Disc Hemorrhages. PLoS ONE, 2014, 9, e105611. | 1.1 | 32 |
| 159 | Effect of glaucoma medications on 24â€hour intraocular pressureâ€related patterns using a contact lens sensor. Clinical and Experimental Ophthalmology, 2015, 43, 787-795. | 1.3 | 32 |
| 160 | The Effect of Age on Increasing Susceptibility to Retinal Nerve Fiber Layer Loss in Glaucoma. , 2020, 61, 8. | | 32 |
| 161 | Glaucomatous optic neuropathy evaluation project: a standardized internet system for assessing skills in optic disc examination. Clinical and Experimental Ophthalmology, 2011, 39, 308-317. | 1.3 | 31 |
| 162 | Medical backgrounders: Glaucoma. Drugs of Today, 2002, 38, 563. | 2.4 | 30 |

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| 163 | Clinicians Agreement in Establishing Glaucomatous Progression Using the Heidelberg Retina Tomograph. Ophthalmology, 2009, 116, 14-24. | 2.5 | 29 |
| 164 | Diagnostic Accuracy of the Spectralis and Cirrus Reference Databases in Differentiating between Healthy and Early Glaucoma Eyes. Ophthalmology, 2016, 123, 408-414. | 2.5 | 29 |
| 165 | Biomarkers and Surrogate Endpoints: Lessons Learned From Glaucoma. , 2017, 58, BIO20. | | 29 |
| 166 | Spectral-Domain Optical Coherence Tomography for Glaucoma Diagnosis. Open Ophthalmology Journal, 2015, 9, 68-77. | 0.1 | 29 |
| 167 | Long-term Variability of GDx VCC Retinal Nerve Fiber Layer Thickness Measurements. Journal of Glaucoma, 2007, 16, 277-281. | 0.8 | 28 |
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