

Cecilia S Lee

List of Publications by Year in descending order

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96
papers

3,455
citations

159525

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168321

53
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98
all docs

98
docs citations

98
times ranked

4267
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Deep Learning Is Effective for Classifying Normal versus Age-Related Macular Degeneration OCT Images. <i>Ophthalmology Retina</i> , 2017, 1, 322-327. | 1.2 | 440 |
| 2 | Deep-learning based, automated segmentation of macular edema in optical coherence tomography. <i>Biomedical Optics Express</i> , 2017, 8, 3440. | 1.5 | 277 |
| 3 | Paucibacterial Microbiome and Resident DNA Virome of the Healthy Conjunctiva. , 2016, 57, 5116. | | 179 |
| 4 | Clinical applications of continual learning machine learning. <i>The Lancet Digital Health</i> , 2020, 2, e279-e281. | 5.9 | 122 |
| 5 | Wide-field optical coherence tomography based microangiography for retinal imaging. <i>Scientific Reports</i> , 2016, 6, 22017. | 1.6 | 110 |
| 6 | Forecasting future Humphrey Visual Fields using deep learning. <i>PLoS ONE</i> , 2019, 14, e0214875. | 1.1 | 102 |
| 7 | Associations between recent and established ophthalmic conditions and risk of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2019, 15, 34-41. | 0.4 | 100 |
| 8 | Projection Artifact Removal Improves Visualization and Quantitation of Macular Neovascularization Imaged by Optical Coherence Tomography Angiography. <i>Ophthalmology Retina</i> , 2017, 1, 124-136. | 1.2 | 99 |
| 9 | Viral posterior uveitis. <i>Survey of Ophthalmology</i> , 2017, 62, 404-445. | 1.7 | 97 |
| 10 | Anti-tubercular therapy for intraocular tuberculosis: A systematic review and meta-analysis. <i>Survey of Ophthalmology</i> , 2016, 61, 628-653. | 1.7 | 86 |
| 11 | Multicenter, Head-to-Head, Real-World Validation Study of Seven Automated Artificial Intelligence Diabetic Retinopathy Screening Systems. <i>Diabetes Care</i> , 2021, 44, 1168-1175. | 4.3 | 84 |
| 12 | Reevaluating the Definition of Intraretinal Microvascular Abnormalities and Neovascularization Elsewhere in Diabetic Retinopathy Using Optical Coherence Tomography and Fluorescein Angiography. <i>American Journal of Ophthalmology</i> , 2015, 159, 101-110.e1. | 1.7 | 73 |
| 13 | COVID-19 and immunosuppression: a review of current clinical experiences and implications for ophthalmology patients taking immunosuppressive drugs. <i>British Journal of Ophthalmology</i> , 2021, 105, 306-310. | 2.1 | 65 |
| 14 | Generating retinal flow maps from structural optical coherence tomography with artificial intelligence. <i>Scientific Reports</i> , 2019, 9, 5694. | 1.6 | 61 |
| 15 | Comparisons Between Histology and Optical Coherence Tomography Angiography of the Periarterial Capillary-Free Zone. <i>American Journal of Ophthalmology</i> , 2018, 189, 55-64. | 1.7 | 58 |
| 16 | Methodological Challenges of Deep Learning in Optical Coherence Tomography for Retinal Diseases: A Review. <i>Translational Vision Science and Technology</i> , 2020, 9, 11. | 1.1 | 56 |
| 17 | Hospitalization and mortality associated with SARS-CoV-2 viral clades in COVID-19. <i>Scientific Reports</i> , 2021, 11, 4802. | 1.6 | 55 |
| 18 | Association Between Cataract Extraction and Development of Dementia. <i>JAMA Internal Medicine</i> , 2022, 182, 134. | 2.6 | 54 |

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|----|---|-----|-----------|
| 19 | Infectious corneal ulceration: a proposal for neglected tropical disease status. Bulletin of the World Health Organization, 2019, 97, 854-856. | 1.5 | 52 |
| 20 | 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. | 2.1 | 51 |
| 21 | Estimating Retinal Sensitivity Using Optical Coherence Tomography With Deep-Learning Algorithms in Macular Telangiectasia Type 2. JAMA Network Open, 2019, 2, e188029. | 2.8 | 51 |
| 22 | IgG4-associated orbital and ocular inflammation. Journal of Ophthalmic Inflammation and Infection, 2015, 5, 15. | 1.2 | 47 |
| 23 | Determinants of Outcomes of Adenoviral Keratoconjunctivitis. Ophthalmology, 2018, 125, 1344-1353. | 2.5 | 47 |
| 24 | Ocular Tuberculosisâ€”A Clinical Conundrum. Ocular Immunology and Inflammation, 2016, 24, 1-6. | 1.0 | 43 |
| 25 | Evaluating Access to Eye Care in the Contiguous United States by Calculated Driving Time in the United States Medicare Population. Ophthalmology, 2016, 123, 2456-2461. | 2.5 | 40 |
| 26 | UK AMD/DR EMR REPORT IX: comparative effectiveness of predominantly as needed (PRN) ranibizumab versus continuous aflibercept in UK clinical practice. British Journal of Ophthalmology, 2017, 101, 1683-1688. | 2.1 | 37 |
| 27 | Protecting Data Privacy in the Age of AI-Enabled Ophthalmology. Translational Vision Science and Technology, 2020, 9, 36. | 1.1 | 37 |
| 28 | Fully automated, deep learning segmentation of oxygen-induced retinopathy images. JCI Insight, 2017, 2, . | 2.3 | 36 |
| 29 | Endophthalmitis Rate in Immediately Sequential versus Delayed Sequential Bilateral Cataract Surgery within the Intelligent Research in Sight (IRISÂ®) Registry Data. Ophthalmology, 2022, 129, 129-138. | 2.5 | 36 |
| 30 | 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. | 1.7 | 34 |
| 31 | A Review of the Role of Intravitreal Corticosteroids as an Adjuvant to Antibiotics in Infectious Endophthalmitis. Ocular Immunology and Inflammation, 2018, 26, 461-468. | 1.0 | 33 |
| 32 | Refractive Outcomes After Immediate Sequential vs Delayed Sequential Bilateral Cataract Surgery. JAMA Ophthalmology, 2021, 139, 876. | 1.4 | 33 |
| 33 | Emerging techniques for pathogen discovery in endophthalmitis. Current Opinion in Ophthalmology, 2015, 26, 221-225. | 1.3 | 32 |
| 34 | Clinical metagenomics for infectious corneal ulcers: Rags to riches?. Ocular Surface, 2020, 18, 1-12. | 2.2 | 32 |
| 35 | Smoking Is Associated with Higher Intraocular Pressure Regardless of Glaucoma. Ophthalmology Glaucoma, 2020, 3, 253-261. | 0.9 | 32 |
| 36 | Flurbiprofen: A Nonselective Cyclooxygenase (COX) Inhibitor for Treatment of Noninfectious, Non-necrotizing Anterior Scleritis. Ocular Immunology and Inflammation, 2016, 24, 35-42. | 1.0 | 28 |

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|----|---|-----|-----------|
| 37 | Management of noninfectious posterior uveitis with intravitreal drug therapy. <i>Clinical Ophthalmology</i> , 2016, Volume 10, 1983-2020. | 0.9 | 26 |
| 38 | Scalable metagenomics alignment research tool (SMART): a scalable, rapid, and complete search heuristic for the classification of metagenomic sequences from complex sequence populations. <i>BMC Bioinformatics</i> , 2016, 17, 292. | 1.2 | 25 |
| 39 | United Kingdom Diabetic Retinopathy Electronic Medical Record (UK DR EMR) Users Group: report 4, real-world data on the impact of deprivation on the presentation of diabetic eye disease at hospital services. <i>British Journal of Ophthalmology</i> , 2019, 103, 837-843. | 2.1 | 25 |
| 40 | Disparities in delivery of ophthalmic care; An exploration of public Medicare data. <i>PLoS ONE</i> , 2017, 12, e0182598. | 1.1 | 25 |
| 41 | Exploring a Structural Basis for Delayed Rod-Mediated Dark Adaptation in Age-Related Macular Degeneration Via Deep Learning. <i>Translational Vision Science and Technology</i> , 2020, 9, 62. | 1.1 | 24 |
| 42 | Association between OCT-based microangiography perfusion indices and diabetic retinopathy severity. <i>British Journal of Ophthalmology</i> , 2017, 101, 960-964. | 2.1 | 23 |
| 43 | Model-to-Data Approach for Deep Learning in Optical Coherence Tomography Intraretinal Fluid Segmentation. <i>JAMA Ophthalmology</i> , 2020, 138, 1017. | 1.4 | 23 |
| 44 | Age, Gender, and Laterality of Retinal Vascular Occlusion: A Retrospective Study from the IRISÂ® Registry. <i>Ophthalmology Retina</i> , 2022, 6, 161-171. | 1.2 | 21 |
| 45 | How Artificial Intelligence Can Transform Randomized Controlled Trials. <i>Translational Vision Science and Technology</i> , 2020, 9, 9. | 1.1 | 20 |
| 46 | Patterns of Laboratory Testing Utilization Among Uveitis Specialists. <i>American Journal of Ophthalmology</i> , 2016, 170, 161-167. | 1.7 | 19 |
| 47 | Bilateral Uveitis and Keratitis Following Nivolumab Treatment for Metastatic Melanoma. <i>Medical Case Reports (Wilmington, Del)</i> , 2017, 03, . | 0.1 | 19 |
| 48 | Prognostic Utility of Whole-Genome Sequencing and Polymerase Chain Reaction Tests of Ocular Fluids in Postprocedural Endophthalmitis. <i>American Journal of Ophthalmology</i> , 2020, 217, 325-334. | 1.7 | 19 |
| 49 | Big Data and Uveitis. <i>Ophthalmology</i> , 2016, 123, 2273-2275. | 2.5 | 18 |
| 50 | The cost-effectiveness of initiating ranibizumab therapy in eyes with neovascular AMD with good vision: an economic model using real-world outcomes. <i>BMJ Open</i> , 2015, 5, e006535-e006535. | 0.8 | 16 |
| 51 | Evolving consensus for immunomodulatory therapy in non-infectious uveitis during the COVID-19 pandemic. <i>British Journal of Ophthalmology</i> , 2021, 105, 639-647. | 2.1 | 16 |
| 52 | From Data to Deployment. <i>Ophthalmology</i> , 2022, 129, e43-e59. | 2.5 | 16 |
| 53 | Validation of the Total Visual Acuity Extraction Algorithm (TOVA) for Automated Extraction of Visual Acuity Data From Free Text, Unstructured Clinical Records. <i>Translational Vision Science and Technology</i> , 2017, 6, 2. | 1.1 | 15 |
| 54 | Vitreous Findings by Handheld Spectral-Domain OCT Correlate with Retinopathy of Prematurity Severity. <i>Ophthalmology Retina</i> , 2020, 4, 1008-1015. | 1.2 | 15 |

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|----|---|-----|-----------|
| 55 | Retinal Biomarkers of Alzheimer Disease. American Journal of Ophthalmology, 2020, 218, 337-341. | 1.7 | 14 |
| 56 | American Academy of Ophthalmology Intelligent Research in Sight (IRIS [®]) Registry and the IRIS Registry Analytic Center Consortium. Ophthalmology Science, 2022, 2, 100112. | 1.0 | 14 |
| 57 | PeriorbitAI: Artificial Intelligence Automation of Eyelid and Periorbital Measurements. American Journal of Ophthalmology, 2021, 230, 285-296. | 1.7 | 13 |
| 58 | Long-term multimodal imaging in acute posterior multifocal placoid pigment epitheliopathy and association with coxsackievirus exposure. PLoS ONE, 2020, 15, e0238080. | 1.1 | 12 |
| 59 | Finding Glaucoma in Color Fundus Photographs Using Deep Learning. JAMA Ophthalmology, 2019, 137, 1361. | 1.4 | 11 |
| 60 | Associations Between Retinal Artery/Vein Occlusions and Risk of Vascular Dementia. Journal of Alzheimer's Disease, 2021, 81, 245-253. | 1.2 | 11 |
| 61 | Assessing the Clinical Utility of Expanded Macular OCTs Using Machine Learning. Translational Vision Science and Technology, 2021, 10, 32. | 1.1 | 11 |
| 62 | Evaluation of bilateral central retinal artery occlusions with optical coherence tomography-based microangiography: a case report. Journal of Medical Case Reports, 2016, 10, 307. | 0.4 | 10 |
| 63 | Cost-effectiveness of age-related macular degeneration study supplements in the UK: combined trial and real-world outcomes data. British Journal of Ophthalmology, 2018, 102, 465-472. | 2.1 | 10 |
| 64 | Ophthalmology-Based Neuropathology Risk Factors: Diabetic Retinopathy is Associated with Deep Microinfarcts in a Community-Based Autopsy Study. Journal of Alzheimer's Disease, 2019, 68, 647-655. | 1.2 | 10 |
| 65 | Big Data and Artificial Intelligence in Ophthalmology: Where Are We Now?. Ophthalmology Science, 2021, 1, 100036. | 1.0 | 10 |
| 66 | Assessing the Uniformity of Uveitis Clinical Concepts and Associated ICD-10 Codes Across Health Care Systems Sharing the Same Electronic Health Records System. JAMA Ophthalmology, 2021, 139, 887. | 1.4 | 10 |
| 67 | Association of Public Health Measures During the COVID-19 Pandemic With the Incidence of Infectious Conjunctivitis. JAMA Ophthalmology, 2021, , . | 1.4 | 10 |
| 68 | Retinal Biomarkers for Alzheimer Disease: The Facts and the Future. Asia-Pacific Journal of Ophthalmology, 2022, 11, 140-148. | 1.3 | 10 |
| 69 | Deep Metagenomic Sequencing for Endophthalmitis Pathogen Detection Using a Nanopore Platform. American Journal of Ophthalmology, 2022, 242, 243-251. | 1.7 | 10 |
| 70 | UWHVF: A Real-World, Open Source Dataset of Perimetry Tests From the Humphrey Field Analyzer at the University of Washington. Translational Vision Science and Technology, 2022, 11, 2. | 1.1 | 9 |
| 71 | Immunopharmacotherapy of non-infectious uveitis: where do we stand?. Expert Opinion on Biological Therapy, 2014, 14, 1719-1722. | 1.4 | 8 |
| 72 | VISUAL ACUITY IMPROVEMENT WHEN SWITCHING FROM RANIBIZUMAB TO AFLIBERCEPT IS NOT SUSTAINED. Retina, 2018, 38, 951-956. | 1.0 | 8 |

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|----|---|-----|-----------|
| 73 | Response to Comment on Lee et al. Multicenter, Head-to-Head, Real-World Validation Study of Seven Automated Artificial Intelligence Diabetic Retinopathy Screening Systems. <i>Diabetes Care</i> 2021;44:1168-1175. <i>Diabetes Care</i> , 2021, 44, e108-e109. | 4.3 | 8 |
| 74 | Visual Cycle Suppression via Patching in Central Serous Chorioretinopathy. <i>Ophthalmology</i> , 2014, 121, 2502-2504.e1. | 2.5 | 6 |
| 75 | Comparison of retina specialist preferences regarding spectral-domain and swept-source optical coherence tomography angiography. <i>Clinical Ophthalmology</i> , 2017, Volume 11, 889-895. | 0.9 | 6 |
| 76 | Differences in Tertiary Glaucoma Care in the Veterans Affairs Health Care System. <i>JAMA Ophthalmology</i> , 2018, 136, 1227. | 1.4 | 6 |
| 77 | Predictors of narrow angle detection rate—a longitudinal study of Massachusetts residents over 1.7 million person years. <i>Eye</i> , 2021, 35, 952-958. | 1.1 | 6 |
| 78 | Understanding the Brain through Aging Eyes. <i>Advances in Geriatric Medicine and Research</i> , 2021, 3, . | 0.6 | 6 |
| 79 | Application of deep learning to understand resilience to Alzheimer's disease pathology. <i>Brain Pathology</i> , 2021, 31, e12974. | 2.1 | 5 |
| 80 | Adjustable Suture Technique Is Associated with Fewer Strabismus Reoperations in the Intelligent Research in Sight Registry. <i>Ophthalmology</i> , 2022, 129, 1028-1033. | 2.5 | 5 |
| 81 | Machine Learning Prediction of Adenovirus D8 Conjunctivitis Complications from Viral Whole-Genome Sequence. <i>Ophthalmology Science</i> , 2022, 2, 100166. | 1.0 | 5 |
| 82 | Use of Mechanical Turk as a MapReduce Framework for Macular OCT Segmentation. <i>Journal of Ophthalmology</i> , 2016, 2016, 1-6. | 0.6 | 4 |
| 83 | Student becomes teacher: training faster deep learning lightweight networks for automated identification of optical coherence tomography B-scans of interest using a student-teacher framework. <i>Biomedical Optics Express</i> , 2021, 12, 5387. | 1.5 | 3 |
| 84 | Dome-shaped macula in premature infants visualized by handheld spectral-domain optical coherence tomography. <i>Journal of AAPOS</i> , 2021, 25, 153.e1-153.e6. | 0.2 | 2 |
| 85 | Grading Anterior Chamber Inflammation with Anterior Segment Optical Coherence Tomography: An Overview. <i>Ocular Immunology and Inflammation</i> , 2022, 30, 357-363. | 1.0 | 2 |
| 86 | Artificial intelligence-based strategies to identify patient populations and advance analysis in age-related macular degeneration clinical trials. <i>Experimental Eye Research</i> , 2022, 220, 109092. | 1.2 | 2 |
| 87 | Inefficiencies in Residency Matching Associated with Gale's Shapley Algorithms. <i>Journal of Academic Ophthalmology</i> (2017), 2021, 13, e175-e182. | 0.2 | 1 |
| 88 | Real-time Augmented Reality—The Next Frontier for Ophthalmic Surgery. <i>JAMA Ophthalmology</i> , 2022, 140, 177. | 1.4 | 1 |
| 89 | Reply. <i>Ophthalmology</i> , 2017, 124, e65-e66. | 2.5 | 0 |
| 90 | [P4411]: OPHTHALMOLOGY-BASED AD RISK FACTORS: GLAUCOMA, AGE-RELATED MACULAR DEGENERATION, AND DIABETIC RETINOPATHY ARE EACH ASSOCIATED WITH AD RISK IN A COMMUNITY-BASED COHORT STUDY. <i>Alzheimer's and Dementia</i> , 2017, 13, P1488. | 0.4 | 0 |

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|----|--|-----|-----------|
| 91 | Reply. Ophthalmology Retina, 2018, 2, e3. | 1.2 | 0 |
| 92 | CAPTCHA as a Visual Performance Metric in Active Macular Disease. Journal of Ophthalmology, 2019, 2019, 1-6. | 0.6 | 0 |
| 93 | Cataract surgery is associated with reduced risk for Alzheimer's disease. Alzheimer's and Dementia, 2020, 16, e044940. | 0.4 | 0 |
| 94 | Retinal vascular occlusions are associated with increased risk for vascular dementia in APOE ϵ 4 carriers in a community-based cohort. Alzheimer's and Dementia, 2020, 16, e045563. | 0.4 | 0 |
| 95 | Invited Session I: Artificial intelligence applications in ophthalmology and vision science: Deep learning applications in clinical ophthalmology. Journal of Vision, 2022, 22, 40. | 0.1 | 0 |
| 96 | Geographic Distribution of Visual Impairment and Access to Ophthalmologists. JAMA Ophthalmology, 2022, , . | 1.4 | 0 |