

Justis P Ehlers

List of Publications by Citations

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112
papers

2,768
citations

31
h-index

48
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127
ext. papers

3,641
ext. citations

3.7
avg, IF

5.51
L-index

#	Paper	IF	Citations
112	The Prospective Intraoperative and Perioperative Ophthalmic Imaging with Optical Coherence Tomography (PIONEER) Study: 2-year results. <i>American Journal of Ophthalmology</i> , 2014 , 158, 999-1007	4.9	135
111	Integration of a spectral domain optical coherence tomography system into a surgical microscope for intraoperative imaging 2011 , 52, 3153-9		114
110	Determination of feasibility and utility of microscope-integrated optical coherence tomography during ophthalmic surgery: the DISCOVER Study RESCAN Results. <i>JAMA Ophthalmology</i> , 2015 , 133, 1124-32	4.32	108
109	Intraoperative spectral domain optical coherence tomography for vitreoretinal surgery. <i>Optics Letters</i> , 2010 , 35, 3315-7	3	106
108	Intraoperative optical coherence tomography using the RESCAN 700: preliminary results from the DISCOVER study. <i>British Journal of Ophthalmology</i> , 2014 , 98, 1329-32	5.5	102
107	Anatomical and visual outcomes following ocriplasmin treatment for symptomatic vitreomacular traction syndrome. <i>British Journal of Ophthalmology</i> , 2014 , 98, 356-60	5.5	98
106	Integrative advances for OCT-guided ophthalmic surgery and intraoperative OCT: microscope integration, surgical instrumentation, and heads-up display surgeon feedback. <i>PLoS ONE</i> , 2014 , 9, e105224	3.7	88
105	Utility of intraoperative optical coherence tomography during vitrectomy surgery for vitreomacular traction syndrome. <i>Retina</i> , 2014 , 34, 1341-6	3.6	87
104	Intrasurgical dynamics of macular hole surgery: an assessment of surgery-induced ultrastructural alterations with intraoperative optical coherence tomography. <i>Retina</i> , 2014 , 34, 213-21	3.6	80
103	Microscope-integrated intraoperative OCT with electrically tunable focus and heads-up display for imaging of ophthalmic surgical maneuvers. <i>Biomedical Optics Express</i> , 2014 , 5, 1877-85	3.5	69
102	Novel microarchitectural dynamics in rhegmatogenous retinal detachments identified with intraoperative optical coherence tomography. <i>Retina</i> , 2013 , 33, 1428-34	3.6	66
101	Retinal Nerve Fiber Layer Thinning in Alzheimer's Disease: A Case-Control Study in Comparison to Normal Aging, Parkinson's Disease, and Non-Alzheimer's Dementia. <i>American Journal of Alzheimer's Disease and Other Dementias</i> , 2016 , 31, 430-6	2.5	65
100	Analysis of pars plana vitrectomy for optic pit-related maculopathy with intraoperative optical coherence tomography: a possible connection with the vitreous cavity. <i>JAMA Ophthalmology</i> , 2011 , 129, 1483-6		65
99	Visualization of real-time intraoperative maneuvers with a microscope-mounted spectral domain optical coherence tomography system. <i>Retina</i> , 2013 , 33, 232-6	3.6	61
98	The DISCOVER Study 3-Year Results: Feasibility and Usefulness of Microscope-Integrated Intraoperative OCT during Ophthalmic Surgery. <i>Ophthalmology</i> , 2018 , 125, 1014-1027	7.3	58
97	A single-arm, investigator-initiated study of the efficacy, safety and tolerability of intravitreal aflibercept injection in subjects with exudative age-related macular degeneration, previously treated with ranibizumab or bevacizumab: 6-month interim analysis. <i>British Journal of Ophthalmology</i> , 2014 , 98 Suppl 1, i22-27	5.5	54
96	The impact of metabolic parameters on clinical response to VEGF inhibitors for diabetic macular edema. <i>Journal of Diabetes and Its Complications</i> , 2014 , 28, 166-70	3.2	52

95	The Impact of Systemic Factors on Clinical Response to Ranibizumab for Diabetic Macular Edema. <i>Ophthalmology</i> , 2016 , 123, 1581-7	7.3	50
94	The value of intraoperative optical coherence tomography imaging in vitreoretinal surgery. <i>Current Opinion in Ophthalmology</i> , 2014 , 25, 221-7	5.1	50
93	Association between transient interface fluid on intraoperative OCT and textural interface opacity after DSAEK surgery in the PIONEER study. <i>Cornea</i> , 2014 , 33, 887-92	3.1	47
92	Membrane Peeling-Induced Retinal Alterations on Intraoperative OCT in Vitreomacular Interface Disorders From the PIONEER Study 2015 , 56, 7324-30		42
91	A novel segmentation algorithm for volumetric analysis of macular hole boundaries identified with optical coherence tomography 2013 , 54, 163-9		42
90	Volumetric ellipsoid zone mapping for enhanced visualisation of outer retinal integrity with optical coherence tomography. <i>British Journal of Ophthalmology</i> , 2016 , 100, 295-9	5.5	41
89	THE INTEGRATIVE SURGICAL THEATER: Combining Intraoperative Optical Coherence Tomography and 3D Digital Visualization for Vitreoretinal Surgery in the DISCOVER Study. <i>Retina</i> , 2018 , 38 Suppl 1, S88-S96	3.6	38
88	Intraoperative Optical Coherence Tomography for Enhanced Depth Visualization in Deep Anterior Lamellar Keratoplasty From the PIONEER Study. <i>Cornea</i> , 2015 , 34, 1039-43	3.1	36
87	Intrasurgical assessment of subretinal tPA injection for submacular hemorrhage in the PIONEER study utilizing intraoperative OCT. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2015 , 46, 327-32	1.4	35
86	Intraoperative optical coherence tomography-assisted descemet membrane endothelial keratoplasty in the DISCOVER study. <i>American Journal of Ophthalmology</i> , 2015 , 160, 430-7	4.9	35
85	Outer Retinal Assessment Using Spectral-Domain Optical Coherence Tomography in Patients With Alzheimer's and Parkinson's Disease 2018 , 59, 2768-2777		34
84	Optical Coherence Tomography Angiography of Acute Macular Neuroretinopathy and Paracentral Acute Middle Maculopathy. <i>JAMA Ophthalmology</i> , 2015 , 133, 1478-80	3.9	34
83	Automated quantitative characterisation of retinal vascular leakage and microaneurysms in ultra-widefield fluorescein angiography. <i>British Journal of Ophthalmology</i> , 2017 , 101, 696-699	5.5	31
82	INTRAOPERATIVE OPTICAL COHERENCE TOMOGRAPHY DURING VITREORETINAL SURGERY FOR DENSE VITREOUS HEMORRHAGE IN THE PIONEER STUDY. <i>Retina</i> , 2015 , 35, 2537-42	3.6	29
81	Factors associated with persistent subfoveal fluid and complete macular hole closure in the PIONEER study. <i>Investigative Ophthalmology and Visual Science</i> , 2014 , 56, 1141-6		29
80	Quantitative Ultra-Widefield Angiography and Diabetic Retinopathy Severity: An Assessment of Panretinal Leakage Index, Ischemic Index and Microaneurysm Count. <i>Ophthalmology</i> , 2019 , 126, 1527-1532	7.3	27
79	A single-arm, investigator-initiated study of the efficacy, safety, and tolerability of intravitreal aflibercept injection in subjects with exudative age-related macular degeneration previously treated with ranibizumab or bevacizumab (ASSESS study): 12-month analysis. <i>Clinical Ophthalmology</i> , 2015 , 9, 1759-66	2.5	27
78	OCT Angiography and Ellipsoid Zone Mapping of Macular Telangiectasia Type 2 From the AVATAR Study 2017 , 58, 3683-3689		26

77	Automated volumetric analysis of interface fluid in descemet stripping automated endothelial keratoplasty using intraoperative optical coherence tomography 2014 , 55, 5610-5		26
76	Assessment of retinal alterations after intravitreal ocriplasmin with spectral-domain optical coherence tomography. <i>Ophthalmology</i> , 2014 , 121, 2506-2507.e2	7.3	26
75	Intraoperative OCT Imaging of the Argus II Retinal Prosthesis System. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2016 , 47, 999-1003	1.4	26
74	Intraoperative OCT-Assisted Subretinal Perfluorocarbon Liquid Removal in the DISCOVER Study. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2015 , 46, 964-6	1.4	21
73	Outcomes of Intraoperative OCT-Assisted Epiretinal Membrane Surgery from the PIONEER Study. <i>Ophthalmology Retina</i> , 2018 , 2, 263-267	3.8	20
72	Intravitreal Aflibercept for Retinal Nonperfusion in Proliferative Diabetic Retinopathy: Outcomes from the Randomized RECOVERY Trial. <i>Ophthalmology Retina</i> , 2019 , 3, 1076-1086	3.8	19
71	Correlation of ultra-widefield fundus autofluorescence patterns with the underlying genotype in retinal dystrophies and retinitis pigmentosa. <i>Ophthalmic Genetics</i> , 2017 , 38, 320-324	1.2	19
70	Contrast-enhanced intraoperative optical coherence tomography. <i>British Journal of Ophthalmology</i> , 2013 , 97, 1384-6	5.5	19
69	ELLIPSOID ZONE MAPPING AND OUTER RETINAL ASSESSMENT IN STARGARDT DISEASE. <i>Retina</i> , 2018 , 38, 1427-1431	3.6	18
68	ELLIPSOID ZONE MAPPING AND OUTER RETINAL CHARACTERIZATION AFTER INTRAVITREAL OCRIPLASMIN. <i>Retina</i> , 2016 , 36, 2290-2296	3.6	18
67	Intraoperative optical coherence tomography-compatible surgical instruments for real-time image-guided ophthalmic surgery. <i>British Journal of Ophthalmology</i> , 2017 , 101, 1306-1308	5.5	18
66	Intraoperative Interface Fluid Dynamics and Clinical Outcomes for Intraoperative Optical Coherence Tomography-Assisted Descemet Stripping Automated Endothelial Keratoplasty From the PIONEER Study. <i>American Journal of Ophthalmology</i> , 2017 , 173, 16-22	4.9	18
65	Higher-Order Assessment of OCT in Diabetic Macular Edema from the VISTA Study: Ellipsoid Zone Dynamics and the Retinal Fluid Index. <i>Ophthalmology Retina</i> , 2019 , 3, 1056-1066	3.8	17
64	Optical Coherence Tomography Features in Diabetic Macular Edema and the Impact on Anti-VEGF Response. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2016 , 47, 908-913	1.4	17
63	Intraoperative Optical Coherence Tomography-Assisted Descemet Membrane Endothelial Keratoplasty in the DISCOVER Study: First 100 Cases. <i>American Journal of Ophthalmology</i> , 2020 , 210, 167-173	4.9	16
62	Predictive Model for Macular Hole Closure Speed: Insights From Intraoperative Optical Coherence Tomography. <i>Translational Vision Science and Technology</i> , 2019 , 8, 18	3.3	15
61	Comparative safety and tolerability of anti-VEGF therapy in age-related macular degeneration. <i>Drug Safety</i> , 2015 , 38, 279-93	5.1	15
60	Intraoperative OCT-assisted Surgery for Proliferative Diabetic Retinopathy in the DISCOVER Study. <i>Ophthalmology Retina</i> , 2018 , 2, 411-417	3.8	15

59	Ellipsoid Zone Mapping Parameters In Retinal Venous Occlusive Disease With Associated Macular Edema. <i>Ophthalmology Retina</i> , 2018 , 2, 836-841	3.8	14
58	Isolated choroidal macrovessel: a tracklike choroidal lesion. <i>Canadian Journal of Ophthalmology</i> , 2014 , 49, e158-60	1.4	14
57	Microscope-Integrated OCT Feasibility and Utility With the EnFocus System in the DISCOVER Study. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2017 , 48, 216-222	1.4	12
56	Longitudinal Panretinal Leakage and Ischemic Indices in Retinal Vascular Disease after Aflibercept Therapy: The PERMEATE Study. <i>Ophthalmology Retina</i> , 2020 , 4, 154-163	3.8	12
55	Ultra-widefield fundus autofluorescence patterns in retinitis pigmentosa and other retinal dystrophies. <i>Ophthalmic Genetics</i> , 2017 , 38, 98-100	1.2	11
54	Intraoperative Optical Coherence Tomography-Assisted Chorioretinal Biopsy in the DISCOVER Study. <i>Retina</i> , 2017 , 37, 2183-2187	3.6	11
53	Intraoperative OCT Features and Postoperative Ellipsoid Mapping in Primary Macula-Involving Retinal Detachments from the PIONEER Study. <i>Ophthalmology Retina</i> , 2019 , 3, 252-257	3.8	11
52	Clinical utility of intraoperative optical coherence tomography. <i>Current Opinion in Ophthalmology</i> , 2016 , 27, 201-9	5.1	11
51	Analysis of Retinal Architectural Changes Using Intraoperative OCT Following Surgical Manipulations With Membrane Flex Loop in the DISCOVER Study 2017 , 58, 3440-3444		10
50	FACTORS ASSOCIATED WITH DEVELOPMENT OF DISSOCIATED OPTIC NERVE FIBER LAYER APPEARANCE IN THE PIONEER INTRAOPERATIVE OPTICAL COHERENCE TOMOGRAPHY STUDY. <i>Retina</i> , 2018 , 38 Suppl 1, S103-S109	3.6	10
49	Visualisation of contrast-enhanced intraoperative optical coherence tomography with indocyanine green. <i>British Journal of Ophthalmology</i> , 2014 , 98, 1588-91	5.5	10
48	Quantitative assessment of outer retinal layers and ellipsoid zone mapping in hydroxychloroquine retinopathy. <i>British Journal of Ophthalmology</i> , 2019 , 103, 3-7	5.5	10
47	Assessment of inner and outer retinal layer metrics on the Cirrus HD-OCT Platform in normal eyes. <i>PLoS ONE</i> , 2018 , 13, e0203324	3.7	10
46	Optical coherence tomography angiography characteristics of choroidal neovascularization requiring varied dosing frequencies in treat-and-extend management: An analysis of the AVATAR study. <i>PLoS ONE</i> , 2019 , 14, e0218889	3.7	9
45	Quantitative Ultra-Widefield Angiographic Features and Associations with Diabetic Macular Edema. <i>Ophthalmology Retina</i> , 2020 , 4, 49-56	3.8	9
44	VOLUMETRIC SINGLE-LAYER INNER RETINAL ANALYSIS IN PATIENTS WITH HYDROXYCHLOROQUINE TOXICITY. <i>Retina</i> , 2016 , 36, 1941-50	3.6	9
43	Repeatability of automated leakage quantification and microaneurysm identification utilising an analysis platform for ultra-widefield fluorescein angiography. <i>British Journal of Ophthalmology</i> , 2020 , 104, 500-503	5.5	9
42	Aqueous Cytokine Expression and Higher Order OCT Biomarkers: Assessment of the Anatomic-Biologic Bridge in the IMAGINE DME Study. <i>American Journal of Ophthalmology</i> , 2021 , 222, 328-339	4.9	9

41	A retrospective study of the influence of the vitreomacular interface on macular oedema secondary to retinal vein occlusion. <i>British Journal of Ophthalmology</i> , 2017 , 101, 1340-1345	5.5	7
40	A Prospective Randomized Comparative Dosing Trial of Ranibizumab In Bevacizumab-Resistant Diabetic Macular Edema: The REACT Study. <i>Ophthalmology Retina</i> , 2018 , 2, 217-224	3.8	7
39	Intraoperative OCT for Uveitis-Related Vitreoretinal Surgery in the DISCOVER Study. <i>Ophthalmology Retina</i> , 2018 , 2, 1041-1049	3.8	7
38	Trans-tamponade optical coherence tomography: postoperative imaging in gas-filled eyes. <i>Retina</i> , 2013 , 33, 1172-8	3.6	6
37	Longitudinal panretinal microaneurysm dynamics on ultra-widefield fluorescein angiography in eyes treated with intravitreal aflibercept for proliferative diabetic retinopathy in the recovery study. <i>British Journal of Ophthalmology</i> , 2021 , 105, 1111-1115	5.5	6
36	Longitudinal Assessment of Ellipsoid Zone Integrity, Subretinal Hyperreflective Material, and Subretinal Pigment Epithelium Disease in Neovascular Age-Related Macular Degeneration. <i>Ophthalmology Retina</i> , 2021 , 5, 1204-1213	3.8	6
35	Impact of insulin treatment in diabetic macular edema therapy in type 2 diabetes. <i>Canadian Journal of Diabetes</i> , 2015 , 39, 73-7	2.1	5
34	iOCT-assisted macular hole surgery: outcomes and utility from the DISCOVER study. <i>British Journal of Ophthalmology</i> , 2021 , 105, 403-409	5.5	5
33	Comparative Assessment of Ergonomic Experience with Heads-Up Display and Conventional Surgical Microscope in the Operating Room. <i>Clinical Ophthalmology</i> , 2021 , 15, 347-356	2.5	5
32	Intraoperative OCT-Assisted Retinal Detachment Repair in the DISCOVER Study: Impact and Outcomes. <i>Ophthalmology Retina</i> , 2020 , 4, 378-383	3.8	4
31	Intraoperative OCT of a Retinal Tack. <i>Ophthalmology Retina</i> , 2017 , 1, 420	3.8	4
30	RETINAL LEAKAGE INDEX DYNAMICS ON ULTRA-WIDEFIELD FLUORESCEIN ANGIOGRAPHY IN EYES TREATED WITH INTRAVITREAL AFLIBERCEPT FOR PROLIFERATIVE DIABETIC RETINOPATHY IN THE RECOVERY STUDY. <i>Retina</i> , 2020 , 40, 2175-2183	3.6	4
29	Radiomics-based assessment of ultra-widefield leakage patterns and vessel network architecture in the PERMEATE study: insights into treatment durability. <i>British Journal of Ophthalmology</i> , 2021 , 105, 1155-1160	5.5	4
28	Longitudinal Higher-Order OCT Assessment of Quantitative Fluid Dynamics and the Total Retinal Fluid Index in Neovascular AMD. <i>Translational Vision Science and Technology</i> , 2021 , 10, 29	3.3	4
27	Real-Time Photographic- and Fluorescein Angiographic-Guided Management of Diabetic Retinopathy: Randomized PRIME Trial Outcomes. <i>American Journal of Ophthalmology</i> , 2021 , 226, 126-136	4.9	4
26	Current and Future Anti-VEGF Agents for Neovascular Age-Related Macular Degeneration. <i>Journal of Experimental Pharmacology</i> , 2021 , 13, 905-912	3	4
25	Conventional Microscope-Integrated Intraoperative OCT Versus Digitally Enabled Intraoperative OCT in Vitreoretinal Surgery in the DISCOVER Study. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2020 , 51, S37-S43	1.4	3
24	COVID-19 and the eye. <i>Cleveland Clinic Journal of Medicine</i> , 2020 ,	2.8	3

23	Correlation between brain volume and retinal photoreceptor outer segment volume in normal aging and neurodegenerative diseases. <i>PLoS ONE</i> , 2020 , 15, e0237078	3.7	3
22	Intravitreal Pharmacotherapies for Diabetic Macular Edema: A Report by the American Academy of Ophthalmology. <i>Ophthalmology</i> , 2021 ,	7.3	3
21	Update on the Intraoperative OCT: Where Do We Stand?. <i>Current Ophthalmology Reports</i> , 2018 , 6, 24-35	1.8	2
20	Automated Quality Assessment and Image Selection of Ultra-Widefield Fluorescein Angiography Images through Deep Learning. <i>Translational Vision Science and Technology</i> , 2020 , 9, 52	3.3	2
19	LONGITUDINAL ELLIPSOID ZONE DYNAMICS AFTER MACULAR HOLE REPAIR IN THE DISCOVER STUDY: Structure-Function Assessment. <i>Retina</i> , 2021 , 41, 915-920	3.6	2
18	Longitudinal ellipsoid zone and subretinal fluid mapping following ocriplasmin injection in the prospective observational ORBIT trial. <i>British Journal of Ophthalmology</i> , 2020 , 104, 410-415	5.5	2
17	Longitudinal Assessment of Ellipsoid Zone Mapping Parameters in Retinal Venous Occlusive Disease With Associated Macular Edema. <i>Journal of Vitreoretinal Diseases</i> , 2021 , 5, 40-45	0.7	2
16	Retinal Fluid Volatility Associated With Interval Tolerance and Visual Outcomes in Diabetic Macular Edema in the VISTA Phase III Trial. <i>American Journal of Ophthalmology</i> , 2021 , 224, 217-227	4.9	2
15	Imaging Features of Vessels and Leakage Patterns Predict Extended Interval Aflibercept Dosing Using Ultra-Widefield Angiography in Retinal Vascular Disease: Findings From the PERMEATE Study. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1777-1786	5	2
14	Multi-Compartment Spatially-Derived Radiomics From Optical Coherence Tomography Predict Anti-VEGF Treatment Durability in Macular Edema Secondary to Retinal Vascular Disease: Preliminary Findings. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2021 , 9, 1000113	3	2
13	Longitudinal assessment of quantitative ultra-widefield ischaemic and vascular parameters in sickle cell retinopathy. <i>British Journal of Ophthalmology</i> , 2020 ,	5.5	1
12	The OCT Angiography Revolution: Five Emerging Themes. <i>Ophthalmology Retina</i> , 2017 , 1, 457-460	3.8	1
11	Risk Classification for Progression to Subfoveal Geographic Atrophy in Dry Age-Related Macular Degeneration Using Machine Learning-Enabled Outer Retinal Feature Extraction.. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2022 , 53, 31-39	1.4	1
10	Exploring the angiographic-biologic phenotype in the IMAGINE study: quantitative UWFA and cytokine expression. <i>British Journal of Ophthalmology</i> , 2021 ,	5.5	1
9	Management of foveal adhesion of a dexamethasone implant. <i>Acta Ophthalmologica</i> , 2016 , 94, e376-7	3.7	1
8	Epiretinal Membrane Surgery Using Intraoperative OCT-Guided Membrane Removal in the DISCOVER Study versus Conventional Membrane Removal. <i>Ophthalmology Retina</i> , 2021 , 5, 1254-1262	3.8	1
7	Corneal epithelial defects following vitreoretinal surgery: incidence and outcomes from the DISCOVER study.. <i>International Journal of Ophthalmology</i> , 2022 , 15, 83-88	1.4	0
6	Vitreomacular Traction Surgery From the DISCOVER Study: Intraoperative OCT Utility, Ellipsoid Zone Dynamics, and Outcomes. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2021 , 52, 544-550	1.4	0

- 5 Systemic bevacizumab leads to resolution of diabetic macular edema. *Retinal Cases and Brief Reports*, **2010**, 4, 297-9 1.1
- 4 Computational Imaging Biomarker Correlation with Intraocular Cytokine Expression in DME: Radiomics Insights from the IMAGINE Study. *Ophthalmology Science*, **2022**, 100123
- 3 Intraoperative OCT **2021**, 1-14
- 2 Intraoperative OCT **2022**, 2753-2766
- 1 Optical Coherence Tomography-Derived Radiomic Features Predict Anti-VEGF Response and Durability in Neovascular AMD. *Ophthalmology Science*, **2022**, 100171