Gerd U Auffarth,, Febo

List of Publications by Year
in descending order

132 papers	2,176 citations	218677 26 h-index	345221 36 g-index
157 all docs	157 docs citations	157 times ranked	1032 citing authors

#	Article	IF	Citations
1	Are there Acceptable Anterior Chamber Intraocular Lenses for Clinical Use in the 1990s?. Ophthalmology, 1994, 101, 1913-1922.	5.2	87
2	Clinical evaluation of a new monofocal IOL with enhanced intermediate function in patients with cataract. Journal of Cataract and Refractive Surgery, 2021, 47, 184-191.	1.5	76
3	Glistening Formation and Light Scattering in Six Hydrophobic-Acrylic Intraocular Lenses. American Journal of Ophthalmology, 2018, 196, 112-120.	3.3	54
4	Hydrophilic intraocular lens opacification after posterior lamellar keratoplasty - a material analysis with special reference to optical quality assessment. BMC Ophthalmology, 2017, 17, 150.	1.4	52
5	Optical and material analysis of opacified hydrophilic intraocular lenses after explantation: a laboratory study. BMC Ophthalmology, 2015, 15, 170.	1.4	51
6	Laboratory Evaluation of the Influence of Decentration and Pupil Size on the Optical Performance of a Monofocal, Bifocal, and Trifocal Intraocular Lens. Journal of Refractive Surgery, 2017, 33, 808-812.	2.3	51
7	Material Analysis and Optical Quality Assessment of Opacified Hydrophilic Acrylic Intraocular Lenses After Pars Plana Vitrectomy. American Journal of Ophthalmology, 2018, 193, 10-19.	3.3	48
8	Opacification of hydrophilic intraocular lenses associated with vitrectomy and injection of intraocular gas. BMJ Open Ophthalmology, 2018, 3, e000157.	1.6	44
9	In vitro optical quality measurements of three intraocular lens models having identical platform. BMC Ophthalmology, 2017, 17, 108.	1.4	41
10	Functional results and photic phenomena with new extended-depth-of-focus intraocular Lens. BMC Ophthalmology, 2019, 19, 197.	1.4	41
11	The impact of glistenings on the optical quality of a hydrophobic acrylic intraocular lens. Journal of Cataract and Refractive Surgery, 2019, 45, 1020-1025.	1.5	41
12	Assessment of the image quality of extended depth-of-focus intraocular lens models in polychromatic light. Journal of Cataract and Refractive Surgery, 2020, 46, 108-115.	1.5	41
13	Clinical evaluation of a new pupil independent diffractive multifocal intraocular lens with a +2.75 D near addition: a European multicentre study. British Journal of Ophthalmology, 2015, 99, 1655-1659.	3.9	40
14	Clinical Outcomes after Binocular Implantation of a New Trifocal Diffractive Intraocular Lens. Journal of Ophthalmology, 2015, 2015, 1-6.	1.3	38
15	Binocular function to increase visual outcome in patients implanted with a diffractive trifocal intraocular lens. BMC Ophthalmology, 2015, 15, 110.	1.4	38
16	Visual Outcomes, Patient Satisfaction and Spectacle Independence with a Trifocal Diffractive Intraocular Lens. Korean Journal of Ophthalmology: KJO, 2016, 30, 180.	1.1	37
17	Centration and fixation of posterior chamber intraocular lenses in eyes with pseudoexfoliation syndrome. Acta Ophthalmologica, 1996, 74, 463-467.	0.3	36
18	Near and intermediate reading performance of a diffractive trifocal intraocular lens using a reading desk. Journal of Cataract and Refractive Surgery, 2015, 41, 2707-2714.	1.5	36

#	Article	IF	Citations
19	Proteomics of vitreous in neovascular age-related macular degeneration. Experimental Eye Research, 2016, 146, 107-117.	2.6	36
20	Prospective comparative study of tolerance to refractive errors after implantation of extended depth of focus and monofocal intraocular lenses with identical aspheric platform in Korean population. BMC Ophthalmology, 2019, 19, 187.	1.4	35
21	Cataract Surgery in Relative Anterior Microphthalmos. Ophthalmology, 2005, 112, 1360-1367.	5.2	34
22	Enhancing the Intermediate Vision of Monofocal Intraocular Lenses Using a Higher Order Aspheric Optic. Journal of Refractive Surgery, 2020, 36, 520-527.	2.3	34
23	Assessment of straylight and the modulation transfer function of intraocular lenses with centrally localized opacification associated with the intraocular injection of gas. Journal of Cataract and Refractive Surgery, 2018, 44, 615-622.	1.5	33
24	Intraocular Lens Opacification following Intracameral Injection of Recombinant Tissue Plasminogen Activator to Treat Inflammatory Membranes after Cataract Surgery. Journal of Ophthalmology, 2015, 2015, 1-6.	1.3	32
25	Clinical outcomes and surgeon assessment after implantation of a new diffractive multifocal toric intraocular lens. British Journal of Ophthalmology, 2015, 99, 405-411.	3.9	31
26	Longitudinal Chromatic Aberration and Polychromatic Image Quality Metrics of Intraocular Lenses. Journal of Refractive Surgery, 2018, 34, 832-838.	2.3	29
27	Injectable 0.19-mg fluocinolone acetonide intravitreal implant for the treatment of non-infectious uveitic macular edema. Journal of Ophthalmic Inflammation and Infection, 2019, 9, 3.	2.2	27
28	Laboratory Investigation of Preclinical Visual-Quality Metrics and Halo-Size in Enhanced Monofocal Intraocular Lenses. Ophthalmology and Therapy, 2021, 10, 1093-1104.	2.3	27
29	Aesthetics of iris reconstruction with a custom-made artificial iris prosthesis. PLoS ONE, 2020, 15, e0237616.	2.5	25
30	Reasons for explantation, demographics, and material analysis of 200 intraocular lens explants. Journal of Cataract and Refractive Surgery, 2020, 46, 20-26.	1.5	25
31	The Effect of a Spectral Filter on Visual Quality in Patients with an Extended-Depth-Of-Focus Intraocular Lens. American Journal of Ophthalmology, 2019, 208, 56-63.	3.3	23
32	Glistening formation in a new hydrophobic acrylic intraocular lens. BMC Ophthalmology, 2020, 20, 186.	1.4	23
33	Centration and fixation of silicone intraocular lenses: Clinicopathological findings in human autopsy eyes. Journal of Cataract and Refractive Surgery, 1996, 22, 1281-1285.	1.5	21
34	Intrastromal femtosecond laser surgical compensation of presbyopia with six intrastromal ring cuts: 3-year results. British Journal of Ophthalmology, 2015, 99, 170-176.	3.9	21
35	Proteomic Analysis of Vitreous Humor in Retinal Vein Occlusion. PLoS ONE, 2016, 11, e0158001.	2.5	21
36	Functional Outcomes and Reading Performance After Combined Implantation of a Small-Aperture Lens and a Segmental Refractive Bifocal Lens. Journal of Refractive Surgery, 2019, 35, 551-558.	2.3	21

#	Article	IF	Citations
37	Impact of Primary Calcification in Segmented Refractive Bifocal Intraocular Lenses on Optical Performance Including Straylight. Journal of Refractive Surgery, 2020, 36, 20-27.	2.3	21
38	Corneal endothelial cell coating during phacoemulsification using a new dispersive hyaluronic acid ophthalmic viscosurgical device. Journal of Cataract and Refractive Surgery, 2014, 40, 1879-1884.	1.5	20
39	Clinical Evaluation of Functional Vision of +1.5 Diopters near Addition, Aspheric, Rotational Asymmetric Multifocal Intraocular Lens. Korean Journal of Ophthalmology: KJO, 2016, 30, 382.	1.1	20
40	Comparison of a new image-guided system versus partial coherence interferometry, Scheimpflug imaging, and optical low-coherence reflectometry devices: Keratometry and repeatability. Journal of Cataract and Refractive Surgery, 2016, 42, 672-678.	1.5	20
41	Relations between patient personality and patientsâ€˜ dissatisfaction after multifocal intraocular lens implantation: clinical study based on the five factor inventory personality evaluation. Eye, 2020, 34, 717-724.	2.1	20
42	Ray propagation imaging and optical quality evaluation of different intraocular lens models. PLoS ONE, 2020, 15, e0228342.	2.5	19
43	Trifocality Achieved Through Polypseudophakia: Optical Quality and Light Loss Compared With a Single Trifocal Intraocular Lens. Journal of Refractive Surgery, 2020, 36, 570-577.	2.3	19
44	Clinical outcomes after implantation of a toric intraocular lens with a transitional conic toric surface. British Journal of Ophthalmology, 2018, 102, 313-316.	3.9	18
45	Quantification of the In Vitro Predisposition to Glistening Formation in One Manufacturerâ€™s Acrylic Intraocular Lenses Made in Different Decades. Ophthalmology and Therapy, 2021, 10, 165-174.	2.3	18
46	Process development and safety evaluation of ABCB5+ limbal stem cells as advanced-therapy medicinal product to treat limbal stem cell deficiency. Stem Cell Research and Therapy, 2021, 12, 194.	5.5	18
47	Implantation of an Artificial Endothelial Layer for Treatment of Chronic Corneal Edema. Cornea, 2021, 40, 1633-1638.	1.7	18
48	Complications of dexamethasone implants: risk factors, prevention, and clinical management. International Journal of Ophthalmology, 2020, 13, 1612-1620.	1.1	17
49	Intraocular Pharmacokinetics of Aflibercept and Vascular Endothelial Growth Factor-A. , 2015, 56, 5574.		15
50	Carbon-ion radiotherapy in accelerated hypofractionated active raster-scanning technique for malignant lacrimal gland tumors: feasibility and safety . Cancer Management and Research, 2019, Volume 11, 1155-1166.	1.9	15
51	Intravitreal 0.19 mg Fluocinolone Acetonide Implant in Non-Infectious Uveitis. Journal of Clinical Medicine, 2021, 10, 3966.	2.4	15
52	Refractive Outcomes after Cataract Surgery. Diagnostics, 2022, 12, 243.	2.6	15
53	iStent inject Trabecular Micro-Bypass with or Without Cataract Surgery Yields Sustained 5-Year Glaucoma Control. Advances in Therapy, 2022, 39, 1417-1431.	2.9	15
54	Bilateral implantation of toric multifocal additive intraocular lenses in pseudophakic eyes. Journal of Cataract and Refractive Surgery, 2012, 38, 1495-1498.	1.5	14

#	Article	IF	Citations
55	Long-term outcomes of intrastromal femtosecond laser presbyopia correction: 3-year results. British Journal of Ophthalmology, 2016, 100, 1536-1541.	3.9	14
56	Consecutive case series of 244 age-related macular degeneration patients undergoing implantation with an extended macular vision IOL. European Journal of Ophthalmology, 2018, 28, 198-203.	1.3	13
57	Diabetic Retinopathy Screening Ratio Is Improved When Using a Digital, Nonmydriatic Fundus Camera Onsite in a Diabetes Outpatient Clinic. Journal of Diabetes Research, 2016, 2016, 1-10.	2.3	12
58	High order aberration and straylight evaluation after cataract surgery with implantation of an aspheric, aberration correcting monofocal intraocular lens. International Journal of Ophthalmology, 2015, 8, 736-41.	1.1	12
59	Bilateral trifocal IOL implantation in a pediatric case of cataract following steroid-therapy for acute lymphoblastic leukemia. American Journal of Ophthalmology Case Reports, 2019, 13, 46-49.	0.7	11
60	Variation in intraocular lens calcification under different environmental conditions in eyes with supplementary sulcus-supported lenses. American Journal of Ophthalmology Case Reports, 2020, 19, 100797.	0.7	11
61	In vitro optical quality assessment of a monofocal IOL sutured to an artificial iris. Journal of Cataract and Refractive Surgery, 2020, 46, 1184-1188.	1.5	11
62	Reversibility of the duet procedure: Bilateral exchange of a supplementary trifocal sulcus-fixated intraocular lens for correction of a postoperative refractive error. American Journal of Ophthalmology Case Reports, 2020, 20, 100957.	0.7	11
63	Reasons for explantation of phakic intraocular lenses and associated perioperative complications: cross-sectional explant registry analysis. BMC Ophthalmology, 2021, 21, 80.	1.4	11
64	In-vitro glistening formation in six different foldable hydrophobic intraocular lenses. BMC Ophthalmology, 2021, 21, 126.	1.4	11
65	Quantitative evaluation of microvacuole formation in five intraocular lens models made of different hydrophobic materials. PLoS ONE, 2021, 16, e0250860.	2.5	11
66	Unilateral implantation of a new non-diffractive extended range-of-vision IOL in a young patient with Curschmann-Steinert myotonic dystrophy. American Journal of Ophthalmology Case Reports, 2021, 22, 101109.	0.7	11
67	Ellipsoid Zone Integrity and Visual Acuity Changes during Diabetic Macular Edema Therapy: A Longitudinal Study. Journal of Diabetes Research, 2021, 2021, 1-10.	2.3	11
68	Implantation of a small-aperture intraocular lens and a partial aniridia implant in eyes with traumatic iris defects. American Journal of Ophthalmology Case Reports, 2020, 18, 100673.	0.7	10
69	Stability and Visual Outcomes of the Capsulotomy-Fixated FEMTIS-IOL After Automated Femtosecond Laserâ€“Assisted Anterior Capsulotomy. American Journal of Ophthalmology, 2021, 225, 27-37.	3.3	10
70	Preloaded injectors used in a clinical study: videographic assessment and laboratory analysis of injector nozzle damage. Journal of Cataract and Refractive Surgery, 2021, 47, 1338-1344.	1.5	10
71	In vitro comparative optical bench analysis of a spherical and aspheric optic design of the same IOL model. BMC Ophthalmology, 2017, 17, 9.	1.4	9
72	The Zebrafish Anillin-eGFP Reporter Marks Late Dividing Retinal Precursors and Stem Cells Entering Neuronal Lineages. PLoS ONE, 2017, 12, e0170356.	2.5	9

#	Article	IF	Citations
73	Effects of ranibizumab (LucentisÂ®) and bevacizumab (AvastinÂ®) on human corneal endothelial cells. BMC Ophthalmology, 2018, 18, 316.	1.4	9
74	Antibodies against neural antigens in patients with acute stroke: joint results of three independent cohort studies. Journal of Neurology, 2019, 266, 2772-2779.	3.6	9
75	Clinical Application of Infrared-Light Microperimetry in the Assessment of Scotopic-Eye Sensitivity. Translational Vision Science and Technology, 2020, 9, 7.	2.2	9
76	A Novel Approach for Assessing Visual Impairment Caused by Intraocular Lens Opacification: High-Resolution Optical Coherence Tomography. American Journal of Ophthalmology, 2021, 226, 108-116.	3.3	9
77	THE LOSS OF INFRARED LIGHT SENSITIVITY OF PHOTORECEPTOR CELLS MEASURED WITH TWO-PHOTON EXCITATION AS AN INDICATOR OF DIABETIC RETINOPATHY. Retina, 2021, 41, 1302-1308.	1.7	9
78	Frequency of dendritiform inflammatory cells in the cornea in herpetic anterior uveitis without clinical keratitis and Fuchs uveitis. Journal of Ophthalmic Inflammation and Infection, 2014, 4, 31.	2.2	8
79	In Vivo Imaging of Intraocular Fluidics in Vitrectomized Swine Eyes Using a Digital Fluoroscopy System. Journal of Ophthalmology, 2016, 2016, 1-6.	1.3	8
80	Rotation and decentration of an undersized plate-haptic trifocal toric intraocular lens in an eye with moderate myopia. Journal of Cataract and Refractive Surgery, 2016, 42, 489-493.	1.5	8
81	Clinical Outcomes of a New Hybrid Monofocal IOL With Extended Depth of Focus. Journal of Refractive Surgery, 2021, 37, 601-608.	2.3	8
82	A pinhole implant to correct postoperative residual refractive error in an RK cataract patient. American Journal of Ophthalmology Case Reports, 2020, 20, 100890.	0.7	8
83	Long-term Results for Glare and Contrast Sensitivity in Patients with Diffractive, Multifocal Intraocular Lenses. European Journal of Implant and Refractive Surgery, 1994, 6, 40-46.	0.3	7
84	Semi-Automated Quantification of Retinal and Choroidal Biomarkers in Retinal Vascular Diseases: Agreement of Spectral-Domain Optical Coherence Tomography with and without Enhanced Depth Imaging Mode. Diagnostics, 2022, 12, 333.	2.6	7
85	First Results of a New Hyperaspheric Add-on Intraocular Lens Approach Implanted in Pseudophakic Patients with Age-Related Macular Degeneration. Ophthalmology Retina, 2018, 2, 900-905.	2.4	6
86	Comparison of Color Light-Emitting Diode Corneal Topographer and Dual Rotating Scheimpflugâ€“Placido Topographer. Journal of Ophthalmology, 2018, 2018, 1-7.	1.3	6
87	Central and mid-peripheral corneal astigmatism in an elderly population: a retrospective analysis of Scheimpflug topography results. Scientific Reports, 2021, 11, 7968.	3.3	6
88	Clinical Outcomes of Combined Implantation of an Extended Depth of Focus IOL and a Trifocal IOL in a Korean Population. Journal of Ophthalmology, 2021, 2021, 1-9.	1.3	6
89	Infrared- and white-light retinal sensitivity in glaucomatous neuropathy. Scientific Reports, 2022, 12, 1961.	3.3	6
90	Development of a standardized in vitro model to reproduce hydrophilic acrylic intraocular lens calcification. Scientific Reports, 2022, 12, 7685.	3.3	6

#	Article	IF	Citations
91	Impact of Indocyanine Green Concentration, Exposure Time, and Degree of Dissolution in Creating Toxic Anterior Segment Syndrome: Evaluation in a Rabbit Model. Journal of Ophthalmology, 2016, 2016, 1-9.	1.3	5
92	Distribution of pseudoexfoliation material on anterior segment structures in human autopsy eyes after cataract surgery with intraocular lens implantation. International Ophthalmology, 2016, 36, 341-346.	1.4	5
93	Laboratory analysis and ray visualization of diffractive optics with enhanced intermediate vision. BMC Ophthalmology, 2021, 21, 197.	1.4	5
94	Visualization of Forward Light Scatter in Opacified Intraocular Lenses and Straylight Assessment. Diagnostics, 2021, 11, 1512.	2.6	5
95	Simulations of Decentration and Tilt of a Supplementary Sulcus-Fixated Intraocular Lens in a Polypseudophakic Combination Using Ray-Tracing Software. Photonics, 2021, 8, 309.	2.0	5
96	A laboratory evaluation of nozzle tip damage in four generations of intraocular lens injector systems using a self-developed damage scale. Scientific Reports, 2022, 12, 2723.	3.3	5
97	Clinical Outcomes in Patients After Duet Procedure for Reversible Trifocality Using a Supplementary Trifocal Intraocular Lens. American Journal of Ophthalmology, 2022, 241, 217-226.	3.3	5
98	Reply : Reliability of peripheral corneal pachymetry with the Oculus Pentacam. Journal of Cataract and Refractive Surgery, 2008, 34, 8.	1.5	4
99	Influence on intraocular lens power calculation of corneal radii measurement using an image-guided system. Journal of Cataract and Refractive Surgery, 2016, 42, 1588-1594.	1.5	4
100	Progressive-toric IOL design reduces residual astigmatism with increasing pupil size: a ray-tracing simulation based on corneal topography data. Biomedical Optics Express, 2021, 12, 1568.	2.9	4
101	Duet procedure to achieve reversible trifocality in a young patient with hereditary hyperferritinemia-cataract syndrome. American Journal of Ophthalmology Case Reports, 2021, 21, 101026.	0.7	4
102	Laboratory evaluation of higher-order aberrations and light scattering in explanted opacified intraocular lenses. Eye and Vision (London, England), 2021, 8, 14.	3.0	4
103	Biomarkers to Predict the Success of Treatment with the Intravitreal 0.19 mg Fluocinolone Acetonide Implant in Uveitic Macular Edema. Pharmaceutics, 2022, 14, 688.	4.5	4
104	In Vivo Assessment of Pharmacologic Vitreolysis in Rabbits With the Digital Fluoroscopy System. , 2015, 56, 4817.		3
105	Bilateral implantation of +56 and +58 diopter custom-made intraocular lenses in patient with extreme nanophthalmos. American Journal of Ophthalmology Case Reports, 2020, 20, 100963.	0.7	3
106	Laboratory and Clinical Experience With a Diffractive Trifocal Intraocular Lens Sutured to an Artificial Iris. Journal of Refractive Surgery, 2022, 38, 61-68.	2.3	3
107	Two-Photon Vision in Age-Related Macular Degeneration: A Translational Study. Diagnostics, 2022, 12, 760.	2.6	3
108	The Predictive Value of Potential Acuity Meter Results in Patients with Cataracts. European Journal of Implant and Refractive Surgery, 1993, 5, 196-199.	0.3	2

#	Article	IF	Citations
109	Cataract surgical problem: response #6. Journal of Cataract and Refractive Surgery, 2000, 26, 1709.	1.5	2
110	Opacification of hydrophilic acrylic intraocular lens following vitreoretinal surgery: a clinicopathological report. Canadian Journal of Ophthalmology, 2021, 56, e9-e11.	0.7	2
111	Injection time related to intraocular pressure using a CO2 driven preloaded injector: An experimental laboratory study. PLoS ONE, 2021, 16, e0254901.	2.5	2
112	Pupil dynamics after in-the-bag versus anterior and retropupillary iris-fixated intraocular lens implantation. Scientific Reports, 2021, 11, 21436.	3.3	2
113	Development and Verification of an Adjustment Factor for Determining the Axial Length Using Optical Biometry in Silicone Oil-Filled Eyes. Diagnostics, 2022, 12, 163.	2.6	2
114	Presbyopia correction after previous Intracor treatment: Combined implantation of a small-aperture and a non-diffractive extended-depth-of-focus lens. American Journal of Ophthalmology Case Reports, 2022, 25, 101398.	0.7	2
115	Monofocal intraocular lens with enhanced intermediate function as substitute for multifocal intraocular lens in positive dysphotopsia. American Journal of Ophthalmology Case Reports, 2022, 26, 101511.	0.7	2
116	OkulÃre OberflÃche â€“ infektiÃ¶s. , 2014, , 71-116.		1
117	Lights and darks of a picture. The life of Giovanni Francesco Barbieri, â€œil Guercinoâ€•â€“ the squinter. Strabismus, 2019, 27, 39-42.	0.7	1
118	Comparative analysis of in vitro accelerated glistening formation in foldable hydrophobic intraocular lenses. International Ophthalmology, 2021, 41, 3073-3080.	1.4	1
119	High-addition segmented refractive bifocal intraocular lens in inactive age-related macular degeneration: A multicenter pilot study. PLoS ONE, 2021, 16, e0256985.	2.5	1
120	Silicone Oil Adhesion to Hydrophobic Acrylic Intraocular Lenses: A Comparative Laboratory Study of a New versus an Established Hydrophobic Acrylic Intraocular Lens Material. Journal of Ophthalmology, 2021, 2021, 1-6.	1.3	1
121	Intravitreal Application: Physicochemical Properties of Drugs Dissolved in Silicone Oils of Different Density in Comparison to the Porcine Vitreous Body. Pharmaceutics, 2022, 14, 1364.	4.5	1
122	Cataract surgical problem: Reply #5. Journal of Cataract and Refractive Surgery, 2002, 28, 212.	1.5	0
123	Selection of Intraocular Lenses: Materials, Contraindications, Secondary Implants. , 2008, , 121-129.		0
124	Lenticular Imaging: A New Experimental and Quantitative Analysis of Capsular Dynamics, â€œChoi-Apple Viewâ€• Translational Vision Science and Technology, 2019, 8, 22.	2.2	0
125	Influence of Biometry on Modern Intraocular Lens Surgery. European Ophthalmic Review, 2009, 02, 30.	0.3	0
126	Special Lenses. , 2010, , 235-243.		0

#	Article	IF	Citations
127	Cataract surgery in a patient with cystic macular edema after central retinal vein occlusion? Combination with intravitreal dexamethasone implant. Scandinavian Journal of Optometry and Visual Science, 2012, 5, 1-4.	0.5	0
128	Sealed Capsule Irrigation Device. , 2018, , 1600-1601.		0
129	Capsular Bend. , 2018, , 309-310.		0
130	Lens Epithelial Cells. , 2018, , 1050-1051.		0
131	Capsular Bag Opacification. , 2018, , 307-309.		0
132	Diagnostic imaging techniques in patient with liquefied aftercataract imitating intraocular lens opacification. American Journal of Ophthalmology Case Reports, 2022, 25, 101262.	0.7	0