Steffen Schmitz-Valckenberg

List of Publications by Year
in descending order

117 papers	7,644 citations	101543 36 h-index	79698 73 g-index
120 all docs	120 docs citations	120 times ranked	3992 citing authors

#	Article	IF	Citations
1	Progression of Geographic Atrophy and Impact of Fundus Autofluorescence Patterns in Age-related Macular Degeneration. American Journal of Ophthalmology, 2007, 143, 463-472.e2.	3.3	509
2	FUNDUS AUTOFLUORESCENCE IMAGING. Retina, 2008, 28, 385-409.	1.7	492
3	Consensus Definition for Atrophy Associated with Age-Related Macular Degeneration on OCT. Ophthalmology, 2018, 125, 537-548.	5.2	485
4	Consensus Nomenclature for Reporting Neovascular Age-Related Macular Degeneration Data. Ophthalmology, 2020, 127, 616-636.	5.2	417
5	Age-related macular degeneration. Nature Reviews Disease Primers, 2021, 7, 31.	30.5	340
6	Geographic Atrophy. Ophthalmology, 2014, 121, 1079-1091.	5.2	320
7	High-Resolution Spectral Domain-OCT Imaging in Geographic Atrophy Associated with Age-Related Macular Degeneration. , 2008, 49, 4137.		266
8	Fundus Autofluorescence and Progression of Age-related Macular Degeneration. Survey of Ophthalmology, 2009, 54, 96-117.	4.0	182
9	Correlation between the Area of Increased Autofluorescence Surrounding Geographic Atrophy and Disease Progression in Patients with AMD. , 2006, 47, 2648.		179
10	Recent developments in the treatment of age-related macular degeneration. Journal of Clinical Investigation, 2014, 124, 1430-1438.	8.2	171
11	Fundus Autofluorescence and Fundus Perimetry in the Junctional Zone of Geographic Atrophy in Patients with Age-Related Macular Degeneration. , 2004, 45, 4470.		165
12	Reticular Drusen Associated with Geographic Atrophy in Age-Related Macular Degeneration. , 2011, 52, 5009.		165
13	Imaging Protocols in Clinical Studies in Advanced Age-Related Macular Degeneration. Ophthalmology, 2017, 124, 464-478.	5.2	164
14	Semiautomated Image Processing Method for Identification and Quantification of Geographic Atrophy in Age-Related Macular Degeneration. , 2011, 52, 7640.		162
15	Incomplete Retinal Pigment Epithelial and Outer Retinal Atrophy in Age-Related Macular Degeneration. Ophthalmology, 2020, 127, 394-409.	5.2	153
16	Natural History of Geographic Atrophy Progression Secondary to Age-Related Macular Degeneration (Geographic Atrophy Progression Study). Ophthalmology, 2016, 123, 361-368.	5.2	152
17	Combined Confocal Scanning Laser Ophthalmoscopy and Spectral-Domain Optical Coherence Tomography Imaging of Reticular Drusen Associated with Age-Related Macular Degeneration. Ophthalmology, 2010, 117, 1169-1176.	5.2	146
18	Tracking Progression with Spectral-Domain Optical Coherence Tomography in Geographic Atrophy Caused by Age-Related Macular Degeneration. , 2010, 51, 3846.		118

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19	Directional Kinetics of Geographic Atrophy Progression in Age-Related Macular Degeneration with Foveal Sparing. Ophthalmology, 2015, 122, 1356-1365.	5.2	104
20	Optical Coherence Tomography and Autofluorescence Findings in Areas with Geographic Atrophy Due to Age-Related Macular Degeneration. , 2011, 52, 1.		86
21	Choroidal Thickness in Geographic Atrophy Secondary to Age-Related Macular Degeneration. Investigative Ophthalmology and Visual Science, 2015, 56, 875-882.	3.3	82
22	In Vivo Imaging of Foveal Sparing in Geographic Atrophy Secondary to Age-Related Macular Degeneration. , 2009, 50, 3915.		78
23	Scotopic and Photopic Microperimetry in Patients With Reticular Drusen and Age-Related Macular Degeneration. JAMA Ophthalmology, 2015, 133, 690.	2.5	75
24	Macular dystrophies mimicking age-related macular degeneration. Progress in Retinal and Eye Research, 2014, 39, 23-57.	15.5	74
25	MACUSTAR: Development and Clinical Validation of Functional, Structural, and Patient-Reported Endpoints in Intermediate Age-Related Macular Degeneration. Ophthalmologica, 2019, 241, 61-72.	1.9	71
26	Imaging Features Associated with Progression to Geographic Atrophy in Age-Related Macular Degeneration. Ophthalmology Retina, 2021, 5, 855-867.	2.4	70
27	Evaluation of Autofluorescence Imaging with the Scanning Laser Ophthalmoscope and the Fundus Camera in Age-related Geographic Atrophy. American Journal of Ophthalmology, 2008, 146, 183-192.	3.3	69
28	Clinical Efficacy and Safety of Ranibizumab Versus Dexamethasone for Central Retinal Vein Occlusion (COMRADE C): A European Label Study. American Journal of Ophthalmology, 2016, 169, 258-267.	3.3	66
29	Central Areolar Choroidal Dystrophy (CACD) and Age-Related Macular Degeneration (AMD): Differentiating Characteristics in Multimodal Imaging. , 2011, 52, 8908.		61
30	Clinical and Genetic Factors Associated with Progression of Geographic Atrophy Lesions in Age-Related Macular Degeneration. PLoS ONE, 2015, 10, e0126636.	2.5	61
31	Progression of Photoreceptor Degeneration in Geographic Atrophy Secondary to Age-related Macular Degeneration. JAMA Ophthalmology, 2020, 138, 1026.	2.5	58
32	Progression of Late-Onset Stargardt Disease. , 2016, 57, 5186.		57
33	GEOGRAPHIC ATROPHY. Retina, 2016, 36, 2250-2264.	1.7	57
34	Fundus autofluorescence imaging. Progress in Retinal and Eye Research, 2021, 81, 100893.	15.5	57
35	Fundus-controlled perimetry (microperimetry): Application as outcome measure in clinical trials. Progress in Retinal and Eye Research, 2021, 82, 100907.	15.5	55
36	Randomized Trial to Evaluate Tandospirone in Geographic Atrophy Secondary to Age-Related Macular Degeneration: The GATE Study. American Journal of Ophthalmology, 2015, 160, 1226-1234.	3.3	53

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37	Correlation of Functional Impairment and Morphological Alterations in Patients With Group 2A Idiopathic Juxtafoveal Retinal Telangiectasia. JAMA Ophthalmology, 2008, 126, 330.	2.4	52
38	Real-Time In Vivo Imaging of Retinal Cell Apoptosis after Laser Exposure. , 2008, 49, 2773.		50
39	Green-Light Autofluorescence Versus Combined Blue-Light Autofluorescence and Near-Infrared Reflectance Imaging in Geographic Atrophy Secondary to Age-Related Macular Degeneration. , 2017, 58, BIO121.		50
40	Natural History of Geographic Atrophy Secondary to Age-Related Macular Degeneration. Ophthalmology, 2020, 127, 769-783.	5.2	49
41	Headâ€toâ€head comparison of ranibizumab PRN versus singleâ€dose dexamethasone for branch retinal vein occlusion (COMRADEâ€B). Acta Ophthalmologica, 2018, 96, e10-e18.	1.1	48
42	Type 1 Choroidal Neovascularization Is Associated with Reduced Localized Progression of Atrophy in Age-Related Macular Degeneration. Ophthalmology Retina, 2020, 4, 238-248.	2.4	46
43	Mesopic and dark-adapted two-color fundus-controlled perimetry in patients with cuticular, reticular, and soft drusen. Eye, 2018, 32, 1819-1830.	2.1	44
44	PROGNOSTIC VALUE OF SHAPE-DESCRIPTIVE FACTORS FOR THE PROGRESSION OF GEOGRAPHIC ATROPHY SECONDARY TO AGE-RELATED MACULAR DEGENERATION. Retina, 2019, 39, 1527-1540.	1.7	44
45	Intravitreal Ranibizumab Therapy for Diabetic Macular Edema in Routine Practice: Two-Year Real-Life Data from a Non-interventional, Multicenter Study in Germany. Diabetes Therapy, 2018, 9, 2271-2289.	2.5	41
46	STRUCTURAL AND FUNCTIONAL CHANGES OVER TIME IN MacTel PATIENTS. Retina, 2009, 29, 1314-1320.	1.7	40
47	Reticular drusen in eyes with high-risk characteristics for progression to late-stage age-related macular degeneration. British Journal of Ophthalmology, 2015, 99, 1289-1294.	3.9	40
48	Effective Dynamic Range and Retest Reliability of Dark-Adapted Two-Color Fundus-Controlled Perimetry in Patients With Macular Diseases. , 2017, 58, BIO158.		40
49	Progression of Age-Related Geographic Atrophy: Role of the Fellow Eye. , 2011, 52, 6552.		39
50	Choroidal Flow Signal in Late-Onset Stargardt Disease and Age-Related Macular Degeneration: An OCT-Angiography Study. , 2018, 59, AMD122.		38
51	Evaluation of Two Systems for Fundus-Controlled Scotopic and Mesopic Perimetry in Eye with Age-Related Macular Degeneration. Translational Vision Science and Technology, 2017, 6, 7.	2.2	37
52	Artificial intelligence for morphology-based function prediction in neovascular age-related macular degeneration. Scientific Reports, 2019, 9, 11132.	3.3	37
53	MESOPIC AND DARK-ADAPTED TWO-COLOR FUNDUS-CONTROLLED PERIMETRY IN GEOGRAPHIC ATROPHY SECONDARY TO AGE-RELATED MACULAR DEGENERATION. Retina, 2020, 40, 169-180.	1.7	37
54	Combined Fundus Autofluorescence and Near Infrared Reflectance as Prognostic Biomarkers for Visual Acuity in Foveal-Sparing Geographic Atrophy. , 2017, 58, BIO61.		36

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55	Determinants of Cone and Rod Functions in Geographic Atrophy: AI-Based Structure-Function Correlation. American Journal of Ophthalmology, 2020, 217, 162-173.	3.3	35
56	OCT Signs of Early Atrophy in Age-Related Macular Degeneration: Interreader Agreement. Ophthalmology Retina, 2022, 6, 4-14.	2.4	35
57	Test-Retest Reliability of Scotopic and Mesopic Fundus-Controlled Perimetry Using a Modified MAIA (Macular Integrity Assessment) in Normal Eyes. Ophthalmologica, 2017, 237, 42-54.	1.9	34
58	The European Eye Epidemiology spectralâ€domain optical coherence tomography classification of macular diseases for epidemiological studies. Acta Ophthalmologica, 2019, 97, 364-371.	1.1	34
59	OCT Angiographyâ€“Based Detection and Quantification of the Neovascular Network in Exudative AMD. , 2016, 57, 6342.		33
60	Correlation of Partial Outer Retinal Thickness With Scotopic and Mesopic Fundus-Controlled Perimetry in Patients With Reticular Drusen. American Journal of Ophthalmology, 2016, 168, 52-61.	3.3	32
61	Ophthalmic epidemiology in Europe: the â€œEuropean Eye Epidemiologyâ€•(E3) consortium. European Journal of Epidemiology, 2016, 31, 197-210.	5.7	32
62	Algorithms for the Automated Analysis of Age-Related Macular Degeneration Biomarkers on Optical Coherence Tomography: A Systematic Review. Translational Vision Science and Technology, 2017, 6, 10.	2.2	31
63	Retest Reliability of Mesopic and Dark-Adapted Microperimetry in Patients With Intermediate Age-Related Macular Degeneration and Age-Matched Controls. , 2018, 59, AMD152.		30
64	Structure-Function Analysis in Patients With Intermediate Age-Related Macular Degeneration. , 2018, 59, 1599.		30
65	Determinants of Quality of Life in Geographic Atrophy Secondary to Age-Related Macular Degeneration. , 2020, 61, 63.		30
66	Efficacy and Safety of Biosimilar FYB201 Compared with Ranibizumab in Neovascular Age-Related Macular Degeneration. Ophthalmology, 2022, 129, 54-63.	5.2	30
67	Prevalence, Natural Course, and Prognostic Role of Refractile Drusen in Age-Related Macular Degeneration. , 2017, 58, 2198.		29
68	Comparison of Green Versus Blue Fundus Autofluorescence inABCA4-Related Retinopathy. Translational Vision Science and Technology, 2018, 7, 13.	2.2	29
69	Assessment of Novel Genome-Wide Significant Gene Loci and Lesion Growth in Geographic Atrophy Secondary to Age-Related Macular Degeneration. JAMA Ophthalmology, 2019, 137, 867.	2.5	28
70	Real-World Data: Ranibizumab Treatment For Retinal Vein Occlusion In The OCEAN Study . Clinical Ophthalmology, 2019, Volume 13, 2167-2179.	1.8	27
71	Differential Disease Progression in Atrophic Age-Related Macular Degeneration and Late-Onset Stargardt Disease. , 2017, 58, 1001.		26
72	Mesopic and Dark-Adapted Two-Color Fundus-Controlled Perimetry in Choroidal Neovascularization Secondary to Age-Related Macular Degeneration. Translational Vision Science and Technology, 2019, 8, 7.	2.2	25

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73	Distinct Genetic Risk Profile of the Rapidly Progressing Diffuse-Trickling Subtype of Geographic Atrophy in Age-Related Macular Degeneration (AMD). , 2016, 57, 2463.		22
74	Modeling Visual Acuity in Geographic Atrophy Secondary to Age-Related Macular Degeneration. Ophthalmologica, 2016, 235, 215-224.	1.9	22
75	Comparison of ranibizumab versus dexamethasone for macular oedema following retinal vein occlusion: 1â€year results of the <scp>COMRADE</scp> extension study. Acta Ophthalmologica, 2018, 96, e933-e941.	1.1	22
76	Visual field indices and patterns of visual field deficits in mesopic and dark-adapted two-colour fundus-controlled perimetry in macular diseases. British Journal of Ophthalmology, 2018, 102, 1054-1059.	3.9	22
77	Anatomical and functional outcomes following switching from aflibercept to ranibizumab in neovascular age-related macular degeneration in Europe: SAFARI study. British Journal of Ophthalmology, 2020, 104, 493-499.	3.9	22
78	Assessment of Exudative Activity of Choroidal Neovascularization in Age-Related Macular Degeneration by OCT Angiography. Ophthalmologica, 2020, 243, 120-128.	1.9	22
79	Longitudinal Analysis of Structural and Functional Changes in Presence of Reticular Pseudodrusen Associated With Age-Related Macular Degeneration. , 2020, 61, 19.		22
80	Multimodal Imaging Patterns for Development of Central Atrophy Secondary to Age-Related Macular Degeneration. , 2018, 59, AMD1.		19
81	In-vivo mapping of drusen by fundus autofluorescence and spectral-domain optical coherence tomography imaging. Graefe's Archive for Clinical and Experimental Ophthalmology, 2016, 254, 59-67.	1.9	18
82	Determinants of Reading Performance in Eyes with Foveal-Sparing Geographic Atrophy. Ophthalmology Retina, 2019, 3, 201-210.	2.4	18
83	Automated Retinal Image Analysis for Evaluation of Focal Hyperpigmentary Changes in Intermediate Age-Related Macular Degeneration. Translational Vision Science and Technology, 2016, 5, 3.	2.2	17
84	In Vivo Imaging of Fluorescent Probes Linked to Antibodies Against Human and Rat Vascular Endothelial Growth Factor. , 2016, 57, 759.		17
85	Light Sensitivity Within Areas of Geographic Atrophy Secondary to Age-Related Macular Degeneration. , 2019, 60, 3992.		17
86	Prognostic value of intermediate age-related macular degeneration phenotypes for geographic atrophy progression. British Journal of Ophthalmology, 2021, 105, 239-245.	3.9	17
87	Longitudinal Analysis of Retinal Thickness and Retinal Function in Eyes with Large Drusen Secondary to Intermediate Age-Related Macular Degeneration. Ophthalmology Retina, 2021, 5, 241-250.	2.4	16
88	In Vivo Imaging of a New Indocyanine Green Micelle Formulation in an Animal Model of Laser-Induced Choroidal Neovascularization. , 2014, 55, 6204.		14
89	Probabilistic Forecasting of Anti-VEGF Treatment Frequency in Neovascular Age-Related Macular Degeneration. Translational Vision Science and Technology, 2021, 10, 30.	2.2	14
90	Optical coherence tomography angiography (OCT-A) in an animal model of laser-induced choroidal neovascularization. Experimental Eye Research, 2019, 184, 162-171.	2.6	13

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91	Association of Reading Performance in Geographic Atrophy Secondary to Age-Related Macular Degeneration With Visual Function and Structural Biomarkers. JAMA Ophthalmology, 2021, 139, 1191.	2.5	13
92	Progression of Age-Related Macular Degeneration Among Individuals Homozygous for Risk Alleles on Chromosome 1 (CFH-CFHR5) or Chromosome 10 (ARMS2/HTRA1) or Both. JAMA Ophthalmology, 2022, 140, 252.	2.5	13
93	The Journey of â€œGeographic Atrophyâ€•through Past, Present, and Future. Ophthalmologica, 2017, 237, 11-20.	1.9	12
94	Longitudinal Analysis of Drusen Volume in Intermediate Age-Related Macular Degeneration Using Two Spectral-Domain Optical Coherence Tomography Scan Patterns. Ophthalmologica, 2018, 239, 110-120.	1.9	11
95	Prognostic Value of Retinal Layers in Comparison with Other Risk Factors for Conversion of Intermediate Age-related Macular Degeneration. Ophthalmology Retina, 2020, 4, 31-40.	2.4	11
96	ORCA study: real-world versus reading centre assessment of disease activity of neovascular age-related macular degeneration (nAMD). British Journal of Ophthalmology, 2020, 104, bjophthalmol-2019-315717.	3.9	11
97	Local Progression Kinetics of Geographic Atrophy in Age-Related Macular Degeneration Are Associated With Atrophy Border Morphology. , 2018, 59, AMD12.		10
98	Structural Changes in Optical Coherence Tomography Underlying Spots of Increased Autofluorescence in the Perilesional Zone of Geographic Atrophy. , 2017, 58, 3303.		9
99	Validation of an Automated Quantification of Relative Ellipsoid Zone Reflectivity on Spectral Domain-Optical Coherence Tomography Images. Translational Vision Science and Technology, 2020, 9, 17.	2.2	9
100	AI-based structure-function correlation in age-related macular degeneration. Eye, 2021, 35, 2110-2118.	2.1	8
101	Optical Coherence Tomography-Angiography in Geographic Atrophy. Ophthalmologica, 2021, 244, 42-50.	1.9	7
102	Estimation of current and post-treatment retinal function in chronic central serous chorioretinopathy using artificial intelligence. Scientific Reports, 2021, 11, 20446.	3.3	7
103	Inhibition of Vascular Growth by Modulation of the Anandamide/Fatty Acid Amide Hydrolase Axis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 2974-2989.	2.4	6
104	Intersession Repeatability of Structural Biomarkers in Early and Intermediate Age-Related Macular Degeneration: A MACUSTAR Study Report. Translational Vision Science and Technology, 2022, 11, 27.	2.2	6
105	The predictability of ocriplasmin treatment effects: is there consensus among retinal experts? Results from the EXPORT study. Graefe's Archive for Clinical and Experimental Ophthalmology, 2017, 255, 1359-1367.	1.9	5
106	A randomized, open-label, multicenter study of switching to brolucizumab with or without a loading dose for patients with suboptimal anatomically controlled neovascular age-related macular degenerationâ€”the FALCON study. Graefe's Archive for Clinical and Experimental Ophthalmology, 2022, , 1.	1.9	5
107	Use of Imaging Modalities in Real Life: Impact on Visual Acuity Outcomes of Ranibizumab Treatment for Neovascular Age-Related Macular Degeneration in Germany. Journal of Ophthalmology, 2020, 2020, 1-11.	1.3	4
108	Ranibizumab Pro Re nata versus Dexamethasone in the Management of Ischemic Retinal Vein Occlusion: Post-hoc Analysis from the COMRADE Trials. Current Eye Research, 2020, 45, 604-614.	1.5	3

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109	Conversion from Intermediate Age-Related Macular Degeneration to Geographic Atrophy in a Proxima B Subcohort Using a Multimodal Approach. Ophthalmologica, 2021, 244, 523-534.	1.9	3
110	Design and Baseline Characteristics of the HELP Study: An Extended and Long-Term Observation of Pathological Myopia in Caucasians. Ophthalmologica, 2018, 240, 167-178.	1.9	3
111	The STArgardt Remofuscin Treatment Trial (STARTT): design and baseline characteristics of enrolled Stargardt patients. Open Research Europe, 0, 1, 96.	2.0	2
112	Modeling of atrophy size trajectories: variable transformation, prediction and age-of-onset estimation. BMC Medical Research Methodology, 2021, 21, 170.	3.1	2
113	Author Response: Geographic Atrophy and Cardiovascular Disease. , 2014, 55, 6263.		1
114	Imaging of Therapeutic Effects of Anti-Vascular Endothelial Growth Factor Inhibitors by Optical Coherence Tomography Angiography in a Rat Model. Translational Vision Science and Technology, 2020, 9, 29.	2.2	0
115	Re: Trivizki et al. Local Geographic Atrophy Growth Rates Not Influenced by Close Proximity to Non-Exudative Type 1 Macular Neovascularization. , 2022, 63, 10.		0
116	Blue-light fundus autofluorescence imaging of pigment epithelial detachments. Eye, 2023, 37, 1191-1201.	2.1	0
117	From Genes, Proteins and Clinical Manifestation: Why Do We Need to Better Understand Age-Related Macular Degeneration?. Ophthalmology Science, 2022, , 100174.	2.5	0