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List of Publications by Year in descending order

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111
papers

3,243
citations

236833

25
h-index

189801

50
g-index

113
all docs

113
docs citations

113
times ranked

3328
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Prevalence of Diabetic Retinopathy and Projection of Burden through 2045. <i>Ophthalmology</i> , 2021, 128, 1580-1591.	2.5	680
2	Multi-categorical deep learning neural network to classify retinal images: A pilot study employing small database. <i>PLoS ONE</i> , 2017, 12, e0187336.	1.1	183
3	A deep-learning system for the assessment of cardiovascular disease risk via the measurement of retinal-vessel calibre. <i>Nature Biomedical Engineering</i> , 2021, 5, 498-508.	11.6	131
4	Prevalence of and Risk Factors Associated With Dry Eye: The Korea National Health and Nutrition Examination Survey 2010–2011. <i>American Journal of Ophthalmology</i> , 2014, 158, 1205-1214.e7.	1.7	128
5	Fully automated hybrid approach to predict the IDH1 mutation status of gliomas via deep learning and radiomics. <i>Neuro-Oncology</i> , 2021, 23, 304-313.	0.6	114
6	Artificial Intelligence Screening for Diabetic Retinopathy: the Real-World Emerging Application. <i>Current Diabetes Reports</i> , 2019, 19, 72.	1.7	107
7	Deep-learning-based cardiovascular risk stratification using coronary artery calcium scores predicted from retinal photographs. <i>The Lancet Digital Health</i> , 2021, 3, e306-e316.	5.9	93
8	Retinal Artery Occlusion and the Risk of Stroke Development. <i>Stroke</i> , 2016, 47, 376-382.	1.0	92
9	Prediction of systemic biomarkers from retinal photographs: development and validation of deep-learning algorithms. <i>The Lancet Digital Health</i> , 2020, 2, e526-e536.	5.9	83
10	Retinal Vein Occlusion and the Risk of Stroke Development. <i>Ophthalmology</i> , 2015, 122, 1187-1194.	2.5	81
11	Retinal photograph-based deep learning algorithms for myopia and a blockchain platform to facilitate artificial intelligence medical research: a retrospective multicohort study. <i>The Lancet Digital Health</i> , 2021, 3, e317-e329.	5.9	78
12	Refractive Errors in Koreans: The Korea National Health and Nutrition Examination Survey 2008-2012. <i>Korean Journal of Ophthalmology: KJO</i> , 2016, 30, 214.	0.5	68
13	Cataract subtype risk factors identified from the Korea National Health and Nutrition Examination survey 2008–2010. <i>BMC Ophthalmology</i> , 2014, 14, 4.	0.6	57
14	Deep learning in glaucoma with optical coherence tomography: a review. <i>Eye</i> , 2021, 35, 188-201.	1.1	53
15	Incremental Prognostic Value of ADC Histogram Analysis over MGMT Promoter Methylation Status in Patients with Glioblastoma. <i>Radiology</i> , 2016, 281, 175-184.	3.6	51
16	Retinal Vascular Signs and Cerebrovascular Diseases. <i>Journal of Neuro-Ophthalmology</i> , 2020, 40, 44-59.	0.4	48
17	Explainable Machine Learning Approach as a Tool to Understand Factors Used to Select the Refractive Surgery Technique on the Expert Level. <i>Translational Vision Science and Technology</i> , 2020, 9, 8.	1.1	47
18	Adopting machine learning to automatically identify candidate patients for corneal refractive surgery. <i>Npj Digital Medicine</i> , 2019, 2, 59.	5.7	42

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19	Incidence and prevalence of uveitis in South Korea: a nationwide cohort study. <i>British Journal of Ophthalmology</i> , 2018, 102, 79-83.	2.1	38
20	The Added Prognostic Value of Preoperative Dynamic Contrast-Enhanced MRI Histogram Analysis in Patients with Glioblastoma: Analysis of Overall and Progression-Free Survival. <i>American Journal of Neuroradiology</i> , 2015, 36, 2235-2241.	1.2	36
21	Artificial Intelligence for Cataract Detection and Management. <i>Asia-Pacific Journal of Ophthalmology</i> , 2020, 9, 88-95.	1.3	36
22	Retinal vessel structure measurement using spectral-domain optical coherence tomography. <i>Eye</i> , 2016, 30, 111-119.	1.1	34
23	Prevalence and Pattern of Geographic Atrophy in Asia. <i>Ophthalmology</i> , 2020, 127, 1371-1381.	2.5	34
24	Big Data in Ophthalmology. <i>Asia-Pacific Journal of Ophthalmology</i> , 2020, 9, 291-298.	1.3	33
25	Risk Factors Associated With Pterygium and Its Subtypes in Korea. <i>Cornea</i> , 2013, 32, 962-970.	0.9	32
26	Profiles of Ganglion Cell-Inner Plexiform Layer Thickness in a Multi-Ethnic Asian Population. <i>Ophthalmology</i> , 2020, 127, 1064-1076.	2.5	29
27	Efficacy of combined orbital radiation and systemic steroids in the management of Graves's orbitopathy. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2016, 254, 991-998.	1.0	27
28	Increased stroke risk among patients with open-angle glaucoma: a 10-year follow-up cohort study. <i>British Journal of Ophthalmology</i> , 2018, 102, 338-343.	2.1	27
29	Influence of visual acuity on suicidal ideation, suicide attempts and depression in South Korea. <i>British Journal of Ophthalmology</i> , 2015, 99, 1112-1119.	2.1	25
30	A nationwide cohort study of cigarette smoking and risk of neovascular age-related macular degeneration in East Asian men. <i>British Journal of Ophthalmology</i> , 2017, 101, 1367-1373.	2.1	23
31	Detection of features associated with neovascular age-related macular degeneration in ethnically distinct data sets by an optical coherence tomography: trained deep learning algorithm. <i>British Journal of Ophthalmology</i> , 2021, 105, 1133-1139.	2.1	23
32	Retinal vein occlusion and the risk of acute myocardial infarction development: a 12-year nationwide cohort study. <i>Scientific Reports</i> , 2016, 6, 22351.	1.6	22
33	Increased risk of open-angle glaucoma among patients with diabetes mellitus: a 10-year follow-up nationwide cohort study. <i>Acta Ophthalmologica</i> , 2018, 96, e1025-e1030.	0.6	22
34	Association of Corticosteroid Use With Incidence of Central Serous Chorioretinopathy in South Korea. <i>JAMA Ophthalmology</i> , 2018, 136, 1164.	1.4	21
35	Long-Term Regular Use of Low-Dose Aspirin and Neovascular Age-Related Macular Degeneration. <i>Ophthalmology</i> , 2019, 126, 274-282.	2.5	21
36	Referral for disease-related visual impairment using retinal photograph-based deep learning: a proof-of-concept, model development study. <i>The Lancet Digital Health</i> , 2021, 3, e29-e40.	5.9	20

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37	Global Incidence, Progression, and Risk Factors of Age-Related Macular Degeneration and Projection of Disease Statistics in 30 Years: A Modeling Study. <i>Gerontology</i> , 2022, 68, 721-735.	1.4	20
38	Factors Associated with Cataract in Korea: A Community Health Survey 2008-2012. <i>Yonsei Medical Journal</i> , 2015, 56, 1663.	0.9	19
39	Updates in deep learning research in ophthalmology. <i>Clinical Science</i> , 2021, 135, 2357-2376.	1.8	19
40	Glycated albumin and the risk of micro- and macrovascular complications in subjects with Type 1 Diabetes. <i>Cardiovascular Diabetology</i> , 2015, 14, 53.	2.7	18
41	INTRAVITREAL RANIBIZUMAB THERAPY FOR NEOVASCULAR AGE-RELATED MACULAR DEGENERATION AND THE RISK OF STROKE. <i>Retina</i> , 2016, 36, 2166-2174.	1.0	18
42	The incidence and prevalence of pterygium in South Korea: A 10-year population-based Korean cohort study. <i>PLoS ONE</i> , 2017, 12, e0171954.	1.1	18
43	Body Stature as an Age-Dependent Risk Factor for Myopia in a South Korean Population*. <i>Seminars in Ophthalmology</i> , 2017, 32, 326-336.	0.8	17
44	Association between Previous Cataract Surgery and Age-Related Macular Degeneration. <i>Seminars in Ophthalmology</i> , 2017, 32, 466-473.	0.8	16
45	High-Density Lipoprotein Cholesterol in Age-Related Ocular Diseases. <i>Biomolecules</i> , 2020, 10, 645.	1.8	16
46	Visual Acuity and Quality of Life: KNHANES IV. <i>Journal of Korean Ophthalmological Society</i> , 2013, 54, 46.	0.0	15
47	Association Between Starting Hemodialysis for End-Stage Renal Disease and Incident Cataract Surgery: A 12-Year Nationwide Cohort Study. , 2016, 57, 1112.		15
48	Artificial Intelligence in Predicting Systemic Parameters and Diseases From Ophthalmic Imaging. <i>Frontiers in Digital Health</i> , 0, 4, .	1.5	15
49	Factors Associated with Diabetic Retinopathy and Nephropathy Screening in Korea: The Third and Fourth Korea National Health and Nutrition Examination Survey (KNHANES III and IV). <i>Journal of Korean Medical Science</i> , 2013, 28, 814.	1.1	14
50	Evaluation of the Association Between Retinal Vein Occlusion and the Risk of Atrial Fibrillation Development: A 12-Year, Retrospective Nationwide Cohort Study. <i>Scientific Reports</i> , 2016, 6, 34708.	1.6	14
51	Association Between Osteoporosis and Age-Related Macular Degeneration: The Korea National Health and Nutrition Examination Survey. , 2018, 59, AMD132.		14
52	Deep learning algorithms for automatic detection of pterygium using anterior segment photographs from slit-lamp and hand-held cameras. <i>British Journal of Ophthalmology</i> , 2022, 106, 1642-1647.	2.1	14
53	Deep Learning for Automated Sorting of Retinal Photographs. <i>Ophthalmology Retina</i> , 2020, 4, 793-800.	1.2	14
54	Association between retinal vein occlusion and risk of heart failure: A 12-year nationwide cohort study. <i>International Journal of Cardiology</i> , 2016, 217, 122-127.	0.8	13

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55	Ten-year incidence and prevalence of clinically diagnosed blepharitis in South Korea: a nationwide population-based cohort study. <i>Clinical and Experimental Ophthalmology</i> , 2017, 45, 448-454.	1.3	13
56	A Nationwide Cohort Study on the Association Between Past Physical Activity and Neovascular Age-Related Macular Degeneration in an East Asian Population. <i>JAMA Ophthalmology</i> , 2018, 136, 132.	1.4	13
57	Is kidney function associated with primary open-angle glaucoma? Findings from the Asian Eye Epidemiology Consortium. <i>British Journal of Ophthalmology</i> , 2020, 104, bjophthalmol-2019-314890.	2.1	13
58	Association between body mass index and diabetic retinopathy in Asians: the Asian Eye Epidemiology Consortium (AEEC) study. <i>British Journal of Ophthalmology</i> , 2022, 106, 980-986.	2.1	13
59	Gender Prediction for a Multiethnic Population via Deep Learning Across Different Retinal Fundus Photograph Fields: Retrospective Cross-sectional Study. <i>JMIR Medical Informatics</i> , 2021, 9, e25165.	1.3	13
60	Association between Macular Thickness Profiles and Visual Function in Healthy Eyes: The Singapore Epidemiology of Eye Diseases (SEED) Study. <i>Scientific Reports</i> , 2020, 10, 6142.	1.6	12
61	Association between Body Mass Index and Chronic Kidney Disease in Asian Populations: A Participant-level Meta-Analysis. <i>Maturitas</i> , 2021, 154, 46-54.	1.0	12
62	Effect of Voriconazole and Ultraviolet-A Combination Therapy Compared to Voriconazole Single Treatment on <i>Fusarium solani</i> Fungal Keratitis. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2014, 30, 381-386.	0.6	11
63	Discrimination of Tumorous Intracerebral Hemorrhage from Benign Causes Using CT Densitometry. <i>American Journal of Neuroradiology</i> , 2015, 36, 886-892.	1.2	11
64	Stroke risk among adult patients with third, fourth or sixth cranial nerve palsy: a Nationwide Cohort Study. <i>Acta Ophthalmologica</i> , 2017, 95, e656-e661.	0.6	11
65	Trends of Pars Plana Vitrectomy Rates in South Korea: A Nationwide Cohort Study. <i>Korean Journal of Ophthalmology: KJO</i> , 2017, 31, 446.	0.5	11
66	Considerations for Artificial Intelligence Real-World Implementation in Ophthalmology: Providers' and Patients' Perspectives. <i>Asia-Pacific Journal of Ophthalmology</i> , 2021, 10, 299-306.	1.3	11
67	Incidence of exudative age-related macular degeneration and treatment load under the Korean national health insurance system in 2010-2015. <i>British Journal of Ophthalmology</i> , 2019, 103, 1361-1366.	2.1	9
68	Clinical Characteristics and Prognostic Factors in Ankylosing Spondylitis Associated Uveitis. <i>Ocular Immunology and Inflammation</i> , 2019, 27, 64-69.	1.0	9
69	Assessment of choroidal thickness before and after steep Trendelenburg position using swept-source optical coherence tomography. <i>British Journal of Ophthalmology</i> , 2015, 99, 493-499.	2.1	8
70	Four-year nationwide incidence of retinitis pigmentosa in South Korea: a population-based retrospective study from 2011 to 2014. <i>BMJ Open</i> , 2017, 7, e015531.	0.8	8
71	The Influence of Parental Myopia on Children's Myopia in Different Generations of Parent-Offspring Pairs in South Korea. <i>Seminars in Ophthalmology</i> , 2018, 33, 419-428.	0.8	8
72	Incidence, Comorbidity, and Mortality of Primary Congenital Glaucoma in Korea from 2001 to 2015: A Nationwide Population-based Study. <i>Korean Journal of Ophthalmology: KJO</i> , 2020, 34, 316.	0.5	8

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73	Sociodemographic and health behavioural factors associated with access to and utilisation of eye care in Korea: Korea Health and Nutrition Examination Survey 2008-2012. <i>BMJ Open</i> , 2015, 5, e007614.	0.8	7
74	Association of Cataract Surgery With Risk of Diabetic Retinopathy Among Asian Participants in the Singapore Epidemiology of Eye Diseases Study. <i>JAMA Network Open</i> , 2020, 3, e208035.	2.8	7
75	Epidemiological Survey Regarding Cataract Awareness in Korea: KNHANES IV. <i>Journal of Korean Ophthalmological Society</i> , 2013, 54, 72.	0.0	6
76	Nationwide incidence of blindness in South Korea: a 12-year study from 2002 to 2013. <i>Clinical and Experimental Ophthalmology</i> , 2017, 45, 773-778.	1.3	6
77	Prevalence of retinitis pigmentosa in Singapore: the Singapore Epidemiology of Eye Diseases Study. <i>Acta Ophthalmologica</i> , 2021, 99, e134-e135.	0.6	6
78	Ethnic differences in the incidence of pterygium in a multi-ethnic Asian population: the Singapore Epidemiology of Eye Diseases Study. <i>Scientific Reports</i> , 2021, 11, 501.	1.6	6
79	Automatic segmentation of corneal deposits from corneal stromal dystrophy images via deep learning. <i>Computers in Biology and Medicine</i> , 2021, 137, 104675.	3.9	6
80	Impact of Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) GFR Estimating Equations on CKD Prevalence and Classification Among Asians. <i>Frontiers in Medicine</i> , 0, 9, .	1.2	6
81	Current Status and Future Expectations of Cataract Surgery in Korea: KNHANES IV. <i>Journal of Korean Ophthalmological Society</i> , 2014, 55, 1772.	0.0	5
82	Design, implementation, and evaluation of a nurse-led intravitreal injection programme for retinal diseases in Singapore. <i>Eye</i> , 2020, 34, 2123-2130.	1.1	5
83	Visual Acuity and Falls in South Korea: Korean National Health and Nutrition Examination Survey 2008-2012. <i>Journal of Korean Ophthalmological Society</i> , 2016, 57, 1451.	0.0	4
84	Protective effect of smoking against pterygium development in men: a nationwide longitudinal cohort study in South Korea. <i>BMJ Open</i> , 2017, 7, e017014.	0.8	4
85	Prevalence of Exudative Age-related Macular Degeneration and Projections of the Cost of Ranibizumab in Korea. <i>Journal of Korean Ophthalmological Society</i> , 2019, 60, 253.	0.0	4
86	Relationship between Coronary Artery Calcification and Central Chorioretinal Thickness in Patients with Subclinical Atherosclerosis. <i>Ophthalmologica</i> , 2021, 244, 18-26.	1.0	4
87	Computer-aided detection and abnormality score for the outer retinal layer in optical coherence tomography. <i>British Journal of Ophthalmology</i> , 2022, 106, 1301-1307.	2.1	4
88	Emergence of non-AI digital health innovations in ophthalmology: A systematic review. <i>Clinical and Experimental Ophthalmology</i> , 2021, 49, 741-756.	1.3	4
89	Extracorporeal Membrane Oxygenation Bridge to Lung Transplantation in a Patient with Hermansky-Pudlak Syndrome and Progressive Pulmonary Fibrosis. <i>Acute and Critical Care</i> , 2019, 34, 95-98.	0.6	4
90	Disparities of Socio-Demographic Factors between Visually Disabled People and Other Disabled People: KNHANES III. <i>Journal of Korean Ophthalmological Society</i> , 2012, 53, 1857.	0.0	3

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91	Artificial Intelligence Using the Eye as a Biomarker of Systemic Risk. , 2021, , 243-255.		3
92	Six-year incidence of age-related macular degeneration and correlation to OCT-derived drusen volume measurements in a Chinese population. British Journal of Ophthalmology, 2023, 107, 392-398.	2.1	3
93	Detection of Systemic Diseases From Ocular Images Using Artificial Intelligence: A Systematic Review. Asia-Pacific Journal of Ophthalmology, 2022, 11, 126-139.	1.3	3
94	Factors Associated with Vision Screening in Children: The Korea National Health and Nutrition Examination Survey. Journal of Korean Ophthalmological Society, 2015, 56, 944.	0.0	2
95	Effect of Primary Intravitreal Bevacizumab Injection on Stage 3 Retinopathy of Prematurity with Plus Signs. Journal of Korean Ophthalmological Society, 2015, 56, 62.	0.0	2
96	Diagnostic Availability of Ultra-Wide-field Fundus Imaging in Korean Patient with Retinal Break. Journal of Korean Ophthalmological Society, 2016, 57, 1254.	0.0	2
97	Association Between Visual Acuity and the Corneal Area Occupied by Granular Lesions, Linear Lesions, or Diffuse Haze in Patients With Granular Corneal Dystrophy Type 2. Cornea, 2018, 37, 542-547.	0.9	2
98	Differences among Ophthalmology Patients Referred to Tertiary Medical Centers according to Referral Hospital. Korean Journal of Ophthalmology: KJO, 2018, 32, 190.	0.5	2
99	Normative profiles of neuroretinal rim area in a multiethnic Asian population: the Singapore Epidemiology of Eye Diseases study. British Journal of Ophthalmology, 2020, , bjophthalmol-2020-317323.	2.1	2
100	Factors Associated with Age-related Macular Degeneration: The Korea National Health and Nutrition Examination Survey 2008-2012. Journal of Retina, 2018, 3, 34-48.	0.1	2
101	Depression Risk among Patients with Open-angle Glaucoma: a 10-year Follow-up Nationwide Cohort Study. Journal of the Korean Glaucoma Society, 2019, 8, 44.	0.0	2
102	Prevalence and Risk Factors for Undercorrected Refractive Errors among South Korean: KNHANES 2008-2012. Journal of Korean Ophthalmological Society, 2016, 57, 1287.	0.0	1
103	Effect Analyses of a Health Information Exchange in Ophthalmology: Evidence from a Pilot Program. Journal of Korean Ophthalmological Society, 2019, 60, 261.	0.0	1
104	Lacrimal Drainage Obstruction and Gastroesophageal Reflux Disease. Journal of Clinical Gastroenterology, 2019, 53, 277-283.	1.1	1
105	Agreement in Measures of Macular Perfusion between Optical Coherence Tomography Angiography Machines. Scientific Reports, 2020, 10, 8345.	1.6	1
106	Normative data and associations of Optical Coherence Tomography Angiography measurements of the macula: The Singapore Malay Eye Study. Ophthalmology Retina, 2022, , .	1.2	1
107	Retinal Artery Occlusion and the Risk of Stroke Development: Twelve-Year Nationwide Cohort Study. Journal of Vascular Surgery, 2016, 64, 259-260.	0.6	0
108	Prevalence of and factors related with abnormal fundoscopic findings among the elderly population in a rural community in South Korea. Seminars in Ophthalmology, 2020, 35, 41-49.	0.8	0

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109	Response to: Revisiting the Problem of Optic Nerve Detection in a Retinal Image Using Automated Machine Learning. <i>Asia-Pacific Journal of Ophthalmology</i> , 2021, 10, 337.	1.3	0
110	Axial Myopia and Low HbA1c Level are Correlated and Have a Suppressive Effect on Diabetes and Diabetic Retinopathy. <i>Journal of Retina</i> , 2018, 3, 26-33.	0.1	0
111	X-linked Juvenile Retinoschisis with Rapid Progression to Retinal Detachment after Trauma. <i>Journal of Retina</i> , 2019, 4, 103-106.	0.1	0