

Gabor Mark Somfai

List of Publications by Year in descending order

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65
papers

1,281
citations

394421

19
h-index

414414

32
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67
all docs

67
docs citations

67
times ranked

1824
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Automatic Segmentation of Optical Coherence Tomography Volume Data of the Macular Region. PLoS ONE, 2015, 10, e0133908.	2.5	93
2	Retinal microvascular network alterations: potential biomarkers of cerebrovascular and neural diseases. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H201-H212.	3.2	82
3	Performance evaluation of automated segmentation software on optical coherence tomography volume data. Journal of Biophotonics, 2016, 9, 478-489.	2.3	71
4	Macular morphology assessed by optical coherence tomography image segmentation after femtosecond laser-assisted and standard cataract surgery. Journal of Cataract and Refractive Surgery, 2012, 38, 941-946.	1.5	66
5	Intraocular lens power calculation for combined cataract surgery, vitrectomy and peeling of epiretinal membranes for macular oedema. Acta Ophthalmologica, 2007, 85, 88-91.	0.3	58
6	Reliability and reproducibility of macular segmentation using a custom-built optical coherence tomography retinal image analysis software. Journal of Biomedical Optics, 2009, 14, 064023.	2.6	57
7	Early detection of retinal thickness changes in diabetes using Optical Coherence Tomography. Medical Science Monitor, 2010, 16, MT15-21.	1.1	57
8	Functional Assessment of the Possible Toxicity of Indocyanine Green Dye in Macular Hole Surgery. American Journal of Ophthalmology, 2006, 142, 765-770.e1.	3.3	51
9	In Vivo Evaluation of Retinal Neurodegeneration in Patients with Multiple Sclerosis. PLoS ONE, 2012, 7, e30922.	2.5	48
10	The Structure and Function of the Macula in Patients with Advanced Retinitis Pigmentosa. , 2011, 52, 8425.		46
11	Correlation of Clinical and Genetic Findings in Hungarian Patients with Stargardt Disease. , 2005, 46, 4402.		44
12	Investigating Multimodal Diagnostic Eye Biomarkers of Cognitive Impairment by Measuring Vascular and Neurogenic Changes in the Retina. Frontiers in Physiology, 2018, 9, 1721.	2.8	44
13	Soluble semicarbazide-sensitive amine oxidase (SSAO) activity is related to oxidative stress and subchronic inflammation in streptozotocin-induced diabetic rats. Neurochemistry International, 2006, 48, 746-752.	3.8	42
14	Relationship between the morphology of the foveal avascular zone, retinal structure, and macular circulation in patients with diabetes mellitus. Scientific Reports, 2018, 8, 5355.	3.3	34
15	Imaging Lid-Parallel Conjunctival Folds with OCT and Comparing Its Grading with the Slit Lamp Classification in Dry Eye Patients and Normal Subjects. , 2011, 52, 2945.		33
16	Histological Evaluation of Diabetic Neurodegeneration in the Retina of Zucker Diabetic Fatty (ZDF) Rats. Scientific Reports, 2017, 7, 8891.	3.3	33
17	Optical Coherence Tomography of the Macula in Congenital Achromatopsia. , 2007, 48, 2249.		32
18	A Morphological Study of Retinal Changes in Unilateral Amblyopia Using Optical Coherence Tomography Image Segmentation. PLoS ONE, 2014, 9, e88363.	2.5	31

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19	Diagnosis of Serous Neuroretinal Detachments of the Macula in Severe Preeclamptic Patients with Optical Coherence Tomography. <i>Hypertension in Pregnancy</i> , 2006, 25, 11-20.	1.1	26
20	Evaluation of potential image acquisition pitfalls during optical coherence tomography and their influence on retinal image segmentation. <i>Journal of Biomedical Optics</i> , 2007, 12, 041209.	2.6	25
21	Automated classifiers for early detection and diagnosis of retinopathy in diabetic eyes. <i>BMC Bioinformatics</i> , 2014, 15, 106.	2.6	24
22	The Effect of Axial Length on the Thickness of Intraretinal Layers of the Macula. <i>PLoS ONE</i> , 2015, 10, e0142383.	2.5	24
23	Improving image segmentation performance and quantitative analysis via a computer-aided grading methodology for optical coherence tomography retinal image analysis. <i>Journal of Biomedical Optics</i> , 2010, 15, 046015.	2.6	19
24	Fractal-based analysis of optical coherence tomography data to quantify retinal tissue damage. <i>BMC Bioinformatics</i> , 2014, 15, 295.	2.6	19
25	The Role of Intravitreal Corticosteroids in the Treatment of DME: Predictive OCT Biomarkers. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7585.	4.1	19
26	OCT Imaging of Lid-Parallel Conjunctival Folds in Soft Contact Lens Wearers. <i>Optometry and Vision Science</i> , 2011, 88, 1206-1213.	1.2	18
27	Comparison of retinal thickness by Fourier-domain optical coherence tomography and OCT retinal image analysis software segmentation analysis derived from Stratus optical coherence tomography images. <i>Journal of Biomedical Optics</i> , 2011, 16, 056004.	2.6	18
28	Investigating the Fractal Dimension of the Foveal Microvasculature in Relation to the Morphology of the Foveal Avascular Zone and to the Macular Circulation in Patients With Type 2 Diabetes Mellitus. <i>Frontiers in Physiology</i> , 2018, 9, 1233.	2.8	17
29	Investigating Tissue Optical Properties and Texture Descriptors of the Retina in Patients with Multiple Sclerosis. <i>PLoS ONE</i> , 2015, 10, e0143711.	2.5	17
30	Investigation of changes in thickness and reflectivity from layered retinal structures of healthy and diabetic eyes with optical coherence tomography. <i>Journal of Biomedical Science and Engineering</i> , 2011, 04, 657-665.	0.4	16
31	Telemedical diabetic retinopathy screening in Hungary: a pilot programme. <i>Journal of Telemedicine and Telecare</i> , 2015, 21, 167-173.	2.7	14
32	Spectral domain optical coherence tomography in patients after successful management of postoperative endophthalmitis following cataract surgery by pars plana vitrectomy. <i>BMC Ophthalmology</i> , 2014, 14, 76.	1.4	12
33	Retinal Layer Thickness Changes in Eyes with Preserved Visual Acuity and Diffuse Diabetic Macular Edema on Optical Coherence Tomography. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2010, 41, 593-597.	0.7	11
34	Interactive retinal blood flow analysis of the macular region. <i>Microvascular Research</i> , 2016, 104, 1-10.	2.5	9
35	Assessment of potential vessel segmentation pitfalls in the analysis of blood flow velocity using the Retinal Function Imager. <i>Graefes' Archive for Clinical and Experimental Ophthalmology</i> , 2016, 254, 1075-1081.	1.9	8
36	The Use of Optical Coherence Tomography for the Detection of Early Diabetic Retinopathy. <i>Klinische Monatsblätter Fur Augenheilkunde</i> , 2018, 235, 377-384.	0.5	7

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37	The effect of incorrect scanning distance on boundary detection errors and macular thickness measurements by spectral domain optical coherence tomography: a cross sectional study. BMC Ophthalmology, 2014, 14, 148.	1.4	6
38	Investigating Vascular Complexity and Neurogenic Alterations in Sectoral Regions of the Retina in Patients With Cognitive Impairment. Frontiers in Physiology, 2020, 11, 570412.	2.8	6
39	Distinguishing cognitive impairment by using singularity spectrum and lacunarity analysis of the retinal vascular network. Neurophotonics, 2019, 6, 1.	3.3	5
40	Truncation of retinoschisin protein associated with a novel splice site mutation in the RS1 gene. Molecular Vision, 2008, 14, 1549-58.	1.1	5
41	Layer extraction in rodent retinal images acquired by optical coherence tomography. Machine Vision and Applications, 2012, 23, 1129-1139.	2.7	4
42	Detailed Evaluation of Possible Ganglion Cell Loss in the Retina of Zucker Diabetic Fatty (ZDF) Rats. Scientific Reports, 2019, 9, 10463.	3.3	4
43	The effect of ranibizumab and aflibercept treatment on the prevalence of outer retinal tubulation and its influence on retreatment in neovascular age-related macular degeneration. BMC Ophthalmology, 2018, 18, 298.	1.4	3
44	The Assessment of Blood Flow Velocities in Retinal Collaterals in Diabetic Retinopathy. Klinische Monatsblätter Fur Augenheilkunde, 2019, 236, 530-535.	0.5	3
45	The Effect of Physical Exercise on the Retina and Choroid. Klinische Monatsblätter Fur Augenheilkunde, 2020, 237, 446-449.	0.5	3
46	Noninvasive, High-Resolution Functional Macular Imaging in Subjects With Retinal Vein Occlusion. Ophthalmic Surgery Lasers and Imaging Retina, 2017, 48, 799-809.	0.7	3
47	Branch Retinal Vein Occlusion in Ipsilateral Harlequin Syndrome. Klinische Monatsblätter Fur Augenheilkunde, 2019, 236, 587-589.	0.5	2
48	The Predictive Role of Thyroid Hormone Levels for Early Diabetic Retinal Changes in Experimental Rat and Human Diabetes. , 2021, 62, 20.		2
49	Inter-session repeatability of retinal layer thickness in optical coherence tomography. Proceedings of SPIE, 2017, , .	0.8	2
50	Seeing the Brain Through the Eye: What Is Next for Neuroimaging and Neurology Applications. , 2020, , 55-82.		2
51	The assessment of acute chorioretinal changes due to intensive physical exercise in young adults. PLoS ONE, 2022, 17, e0268770.	2.5	2
52	Extracting Diagnostic Information from Optical Coherence Tomography Images of Diabetic Retinal Tissues Using Depth-dependent Attenuation rate and Fractal Analysis. , 2012, , .		1
53	Closure of an Intraoperatively Enlarged Macular Hole by Revision Surgery with Free ILM Flaps. Klinische Monatsblätter Fur Augenheilkunde, 2018, 235, 504-506.	0.5	1
54	P3â€079: INVESTIGATING DIAGNOSTIC BIOMARKERS OF COGNITIVE IMPAIRMENT BY UTILIZING VASCULAR AND NEUROGENIC CHANGES IN THE RETINA. Alzheimer's and Dementia, 2018, 14, P1095.	0.8	1

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55	A Simple, Inexpensive, and Precise Photographic Method for Intraoperative Toric IOL Alignment. <i>Klinische Monatsblätter Fur Augenheilkunde</i> , 2019, 236, 391-397.	0.5	1
56	Reply: Comparison of macular morphology between femtosecond laser-assisted and traditional cataract surgery. <i>Journal of Cataract and Refractive Surgery</i> , 2013, 39, 657-659.	1.5	0
57	Directional OCT Scans of the Macula Reveal Henle Fibre Layer-Related Imaging Patterns. <i>Klinische Monatsblätter Fur Augenheilkunde</i> , 2017, 234, 534-535.	0.5	0
58	Masking Artefact Indicates that Photoreceptor Bleaching May Enhance Fundus Autofluorescence. <i>Klinische Monatsblätter Fur Augenheilkunde</i> , 2017, 234, 536-537.	0.5	0
59	Spectral Domain Optical Coherence Tomography (SD-OCT) Findings in Refsum's Disease. <i>Klinische Monatsblätter Fur Augenheilkunde</i> , 2017, 234, 527-529.	0.5	0
60	Investigating predictive models for earlier diagnosis of cognitive impairment using multimodal eye biomarkers. <i>Alzheimer's and Dementia</i> , 2020, 16, e040000.	0.8	0
61	Exploratory study of non-invasive, high-resolution functional macular imaging in subjects with diabetic retinopathy. <i>International Journal of Ophthalmology</i> , 2021, 14, 57-63.	1.1	0
62	Optical Coherence Tomography of the Optic Disc and the Macula in Neurodegenerative Diseases. , 2016, , 157-170.		0
63	Diagnostic Capability of Optical Coherence Tomography Based Quantitative Analysis for Various Eye Diseases and Additional Factors Affecting Morphological Measurements. <i>Biological and Medical Physics Series</i> , 2019, , 131-167.	0.4	0
64	Hypothetical Switch of Anti-Vascular Endothelial Growth Factor in Neovascular Age-Related Macular Degeneration: An ARIES Post Hoc Analysis. <i>Ophthalmology and Therapy</i> , 2022, 11, 613.	2.3	0
65	Car accident leading to "traumatic" macular hole formation proven by optical coherence tomography. <i>Oftalmologia</i> , 2009, 53, 37-40.	0.8	0