Imre Lengyel

List of Publications by Year
in descending order

93	3,036	147801	182427
papers	citations	31 h-index	51 g-index

97	97	97	3808
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Prevalence of Age-Related Macular Degeneration in Europe. Ophthalmology, 2017, 124, 1753-1763.	5.2	337
2	A new perspective on lipid research in age-related macular degeneration. Progress in Retinal and Eye Research, 2018, 67, 56-86.	15.5	162
3	High concentration of zinc in sub-retinal pigment epithelial deposits. Experimental Eye Research, 2007, 84, 772-780.	2.6	117
4	Calcified nodules in retinal drusen are associated with disease progression in age-related macular degeneration. Science Translational Medicine, 2018, 10, .	12.4	111
5	Subretinal Pigment Epithelial Deposition of Drusen Components Including Hydroxyapatite in a Primary Cell Culture Model. , 2017, 58, 708.		105
6	Identification of hydroxyapatite spherules provides new insight into subretinal pigment epithelial deposit formation in the aging eye. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1565-1570.	7.1	101
7	Systemic and ocular fluid compounds as potential biomarkers in age-related macular degeneration. Survey of Ophthalmology, 2018, 63, 9-39.	4.0	98
8	Autonomous activity of CaMKII is only transiently increased following the induction of long-term potentiation in the rat hippocampus. European Journal of Neuroscience, 2004, 20, 3063-3072.	2.6	92
9	The clinical relevance of visualising the peripheral retina. Progress in Retinal and Eye Research, 2019, 68, 83-109.	15.5	91
10	Association of Drusen Deposition with Choroidal Intercapillary Pillars in the Aging Human Eye. , 2004, 45, 2886.		90
11	Mediterranean Diet and Incidence of Advanced Age-Related Macular Degeneration. Ophthalmology, 2019, 126, 381-390.	5.2	89
12	Increased High-Density Lipoprotein Levels Associated with Age-Related Macular Degeneration. Ophthalmology, 2019, 126, 393-406.	5.2	88
13	On the origin of proteins in human drusen: The meet, greet and stick hypothesis. Progress in Retinal and Eye Research, 2019, 70, 55-84.	15.5	77
14	Modulation of the Phosphorylation and Activity of Calcium/Calmodulin-Dependent Protein Kinase II by Zinc. Journal of Neurochemistry, 2002, 75, 594-605.	3.9	75
15	Peripheral Retinal Imaging Biomarkers for Alzheimerâ€™s Disease: A Pilot Study. Ophthalmic Research, 2018, 59, 182-192.	1.9	64
16	Enhancement of NMDA responses by Î²-amyloid peptides in the hippocampus in vivo. NeuroReport, 2004, 15, 1649-1652.	1.2	55
17	Phosphorylation of a New Brain-specific Septin, G-septin, by cGMP-dependent Protein Kinase. Journal of Biological Chemistry, 2000, 275, 10047-10056.	3.4	54
18	The Pyramid Model: Enhancing Regional Competitiveness in Hungary. Acta Oeconomica, 2004, 54, 323-342.	0.5	51

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19	Main biomarkers associated with age-related plasma zinc decrease and copper/zinc ratio in healthy elderly from ZincAge study. European Journal of Nutrition, 2017, 56, 2457-2466.	3.9	48
20	Uncontrolled Zinc- and Copper-Induced Oligomerisation of the Human Complement Regulator Factor H and Its Possible Implications for Function and Disease. Journal of Molecular Biology, 2008, 384, 1341-1352.	4.2	47
21	Zinc Nutrition and Inflammation in the Aging Retina. Molecular Nutrition and Food Research, 2019, 63, e1801049.	3.3	47
22	A Population-Based Ultra-Widefield DigitalÂImage Grading Study for Age-RelatedÂMacular Degenerationâ€“Like Lesions at the Peripheral Retina. Ophthalmology, 2015, 122, 1340-1347.	5.2	44
23	Integrating Metabolomics, Genomics, and Disease Pathways in Age-Related Macular Degeneration. Ophthalmology, 2020, 127, 1693-1709.	5.2	43
24	Zinc Binding to the Tyr402 and His402 Allotypes of Complement Factor H: Possible Implications for Age-Related Macular Degeneration. Journal of Molecular Biology, 2011, 408, 714-735.	4.2	42
25	Zinc-induced Self-association of Complement C3b and Factor H. Journal of Biological Chemistry, 2013, 288, 19197-19210.	3.4	41
26	Retinal thickness as potential biomarker in posterior cortical atrophy and typical Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2019, 11, 62.	6.2	40
27	Metabolomics and Age-Related Macular Degeneration. Metabolites, 2019, 9, 4.	2.9	40
28	Development of a Genotype Assay for Age-Related Macular Degeneration. Ophthalmology, 2021, 128, 1604-1617.	5.2	38
29	Pathological Phosphorylation Causes Neuronal Death: Effect of Okadaic Acid in Primary Culture of Cerebellar Granule Cells. Journal of Neurochemistry, 1992, 59, 1558-1561.	3.9	37
30	Side Chain Modifications Change the Binding and Agonist Properties of Endomorphin 2. Biochemical and Biophysical Research Communications, 2002, 290, 153-161.	2.1	37
31	Correlations in distribution and concentration of calcium, copper and iron with zinc in isolated extracellular deposits associated with age-related macular degeneration. Metallomics, 2014, 6, 1223-1228.	2.4	37
32	Receptor constants for endomorphin-1 and endomorphin-1-ol indicate differences in efficacy and receptor occupancy. European Journal of Pharmacology, 2001, 421, 61-67.	3.5	33
33	Calcium/Calmodulin-Stimulated Protein Kinase II Is Present in Primary Cultures of Cerebral Endothelial Cells. Journal of Neurochemistry, 1993, 60, 1960-1963.	3.9	31
34	S100B-Mediated Inhibition of the Phosphorylation of GFAP Is Prevented by TRTK-12. Neurochemical Research, 2004, 29, 735-740.	3.3	31
35	Kinetics of Protein Phosphorylation in Microvessels Isolated from Rat Brain: Modulation by Second Messengers. Journal of Neurochemistry, 1988, 51, 49-56.	3.9	30
36	Agreement between image grading of conventional (45Â°) and ultra wide-angle (200Â°) digital images in the macula in the Reykjavik eye study. Eye, 2010, 24, 1568-1575.	2.1	29

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37	Bruch's membrane changes in transgenic mice overexpressing the human biglycan and apolipoprotein b-100 genes. Experimental Eye Research, 2009, 89, 178-186.	2.6	28
38	Determination of Zn, Cu and Fe in human patients' serum using micro-sampling ICP-MS and sample dilution. Talanta, 2019, 204, 663-669.	5.5	27
39	Genotype- and Phenotype-Based Subgroups in Geographic Atrophy Secondary to Age-Related Macular Degeneration. Ophthalmology Retina, 2020, 4, 1129-1137.	2.4	26
40	Simultaneous measurement of tyrosine hydroxylase activity and phosphorylation in bovine adrenal chromaffin cells. Journal of Neuroscience Methods, 1999, 87, 167-174.	2.5	22
41	Partial and full agonism in endomorphin derivatives: Comparison by null and operational model. Peptides, 2006, 27, 1507-1513.	2.4	21
42	Influence of Degradation on Binding Properties and Biological Activity of Endomorphin 1. Biochemical and Biophysical Research Communications, 2001, 284, 771-776.	2.1	20
43	Preparation of specifically tritiated endomorphins. Journal of Labelled Compounds and Radiopharmaceuticals, 2001, 44, 355-363.	1.0	20
44	Changes in zinc status and zinc transporters expression in whole blood of patients with Systemic Inflammatory Response Syndrome (SIRS). Journal of Trace Elements in Medicine and Biology, 2018, 49, 202-209.	3.0	20
45	Spatial differences of reindustrialization in a post-socialist economy: manufacturing in the Hungarian counties. European Planning Studies, 2017, 25, 1416-1434.	2.9	19
46	Multiplex bioimaging of proteins-related to neurodegenerative diseases in eye sections by laser ablation - Inductively coupled plasma â€“ Mass spectrometry using metal nanoclusters as labels. Talanta, 2021, 221, 121489.	5.5	19
47	Deep and Frequent Phenotyping study protocol: an observational study in prodromal Alzheimerâ€™s disease. BMJ Open, 2019, 9, e024498.	1.9	18
48	Optic nerve thinning and neurosensory retinal degeneration in the rTg4510 mouse model of frontotemporal dementia. Acta Neuropathologica Communications, 2019, 7, 4.	5.2	17
49	The effects of zinc supplementation on primary human retinal pigment epithelium. Journal of Trace Elements in Medicine and Biology, 2018, 49, 184-191.	3.0	15
50	A Multi-Omics Approach Identifies Key Regulatory Pathways Induced by Long-Term Zinc Supplementation in Human Primary Retinal Pigment Epithelium. Nutrients, 2020, 12, 3051.	4.1	15
51	Drivers of Regional Competitiveness in the Central European Countries. Transition Studies Review, 2013, 20, 421-435.	0.4	14
52	Cure or cause: opposing roles for zinc in age-related macular degeneration. Expert Review of Ophthalmology, 2008, 3, 1-4.	0.6	12
53	Auto-inhibition of Ca2+/calmodulin-dependent protein kinase II by its ATP-binding domain. Journal of Neurochemistry, 2001, 76, 1066-1072.	3.9	11
54	Characterization of protein kinase and phosphatase systems in chick ciliary ganglion. Neuroscience, 1996, 70, 577-588.	2.3	10

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55	Agglomeration, foreign firms and firm exit in regions under transition: the increasing importance of related variety in Hungary. European Planning Studies, 2019, 27, 2099-2122.	2.9	10
56	The Placental Growth Factor Pathway and Its Potential Role in Macular Degenerative Disease. Current Eye Research, 2019, 44, 813-822.	1.5	10
57	Autonomous activity and autophosphorylation of CAMPK-II in rat hippocampal slices: effects of tissue preparation. Journal of Neurochemistry, 2009, 76, 149-154.	3.9	9
58	Competitiveness of Metropolitan Regions in Visegrad Counties. Procedia, Social and Behavioral Sciences, 2016, 223, 357-362.	0.5	9
59	Fluorescent Arylphosphonic Acids: Synergic Interactions between Bone and the Fluorescent Core. Chemistry - A European Journal, 2020, 26, 11129-11134.	3.3	9
60	Enhanced G-protein activation by a mixture of Abeta(25-35), Abeta(1-40/42) and zinc. Journal of Neurochemistry, 2004, 89, 1215-1223.	3.9	8
61	Quantitative analysis of hydroxyapatite-binding plasma proteins in genotyped individuals with late-stage age-related macular degeneration. Experimental Eye Research, 2018, 172, 21-29.	2.6	8
62	Nuclear and cellular, micro and nano calcification in Alzheimer's disease patients and correlation to phosphorylated Tau. Acta Biomaterialia, 2022, 143, 138-144.	8.3	8
63	Characterization of Calcium Phosphate Spherical Particles in the Subretinal Pigment Epitheliumâ€“Basal Lamina Space in Aged Human Eyes. Ophthalmology Science, 2021, 1, 100053.	2.5	7
64	RegionÃ¡lis klaszterek Ã©s agglomerÃ¡ciÃ³s elÅ‘nyÃ¶k: FeldolgozÃ³ipar a magyar vÃ¡rosrÃ©giÃ³kban. TÃ©r Ã©s TÃ¡rsadalom, 2015, 29, 49-72.	0.2	7
65	The His402 allotype of complement factor H show similar self-association to the Tyr402 allotype but exhibits greater self-association in the presence of zinc. Molecular Immunology, 2010, 47, 2263-2263.	2.2	6
66	Imaging hydroxyapatite in sub-retinal pigment epithelial deposits by fluorescence lifetime imaging microscopy with tetracycline staining. Journal of Biomedical Optics, 2020, 25, 1.	2.6	6
67	Phosphorylation of proteins in chick ciliary ganglion under conditions that induce long-lasting changes in synaptic transmission: phosphoprotein targets for nitric oxide action. Neuroscience, 1999, 90, 607-619.	2.3	5
68	Molecular pathomechanisms of Alzheimer's disease. Computational and Theoretical Chemistry, 2003, 666-667, 507-513.	1.5	5
69	Retinal phenotyping of variants of Alzheimer's disease using ultraâ€widefield retinal images. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2021, 13, e12232.	2.4	5
70	The Catching up Processes of the Regions of the Visegrad Group Countries. Comparative Economic Research, 2018, 21, 5-24.	0.5	5
71	Localization of the zinc binding tubulin polymerization promoting protein in the mice and human eye. Journal of Trace Elements in Medicine and Biology, 2018, 49, 222-230.	3.0	4
72	Î± and Î² subunits of CaM-kinase II are localized in different neurons in chick ciliary ganglion. NeuroReport, 1998, 9, 2753-2755.	1.2	3

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73	FelzÃ¡rkÃ³zÃ¡s Ã©s/vagy tÃ¡volsÃ¡gtartÃ³ kÃ¶vetÃ©s? A visegrÃ¡di országok tÃ©rsÃ©geinek fejlÅ‘dÃ©sÃ©rÅ‘l. TÃ©r Ã©s TÃ¡rsadalom, 2018, 32, 5-26.	0.2	3
74	A Potential New Role for Zinc in Age-Related Macular Degeneration through Regulation of Endothelial Fenestration. International Journal of Molecular Sciences, 2021, 22, 11974.	4.1	3
75	CONVERGENCE CLUBS OF NUTS3 REGIONS OF THE V4 GROUP. E A M: Ekonomie A Management, 2021, 24, 22-38.	1.0	3
76	[P4â€“033]: DEEP AND FREQUENT PHENOTYPING: A FEASIBILITY STUDY FOR EXPERIMENTAL MEDICINE IN DEMENTIA. Alzheimer's and Dementia, 2017, 13, P1268.	0.8	2
77	Precision medicine for age-related macular degeneration: current developments and prospects. Expert Review of Precision Medicine and Drug Development, 2018, 3, 249-263.	0.7	2
78	Increased choroidal thickness in adults with Down syndrome. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2021, 13, e12170.	2.4	2
79	A regionÃ¡lis tudomÃ¡ny â€žtÃ©rnyerÃ©seâ€• reÃ¡lis esÃ©lyek avagy csalfa dÃ©libÃ¡bok?. TÃ©r Ã©s TÃ¡rsadalom, 2010, 24, 11-40.	0.2	2
80	The Internationalization of Hungarian SMEs. , 2008, , .		2
81	Territorial distribution of highly educated individuals in Hungary after 1990. Regional Statistics, 2017, 7, 171-189.	0.8	2
82	Obesity, diabetes and zinc: A workshop promoting knowledge and collaboration between the UK and Israel, november 28â€“30, 2016 â€“ Israel. Journal of Trace Elements in Medicine and Biology, 2018, 49, 79-85.	3.0	1
83	Enyedi GyÃ¶rgy, a â€žmesterâ€• TÃ©r Ã©s TÃ¡rsadalom, 2010, 24, 3-6.	0.2	1
84	Re: Keenan etÂal.: Cluster Analysis and Genotype-Phenotype Assessment of Geographic Atrophy in Age-Related Macular Degeneration: AREDS2 Report 25 (Ophthalmology. 2021;5(11):1061-1073). Ophthalmology Retina, 2022, 6, 333-334.	2.4	1
85	Reply to â€œComment on: â€œHigh concentration of zinc in sub-retinal pigment epithelial depositsâ€•(Lengyel) Tj ETQq1 1 0.784314	2.6	0
86	P2-084: Retinal nerve fibre layer (RNFL) thinning in genetic ftd. , 2015, 11, P515-P516.		0
87	P2-145: Retinal imaging in early-onset Alzheimer's disease. , 2015, 11, P541-P542.		0
88	O3â€12â€06: Retinal Imaging in Posterior Cortical Atrophy and Typical Alzheimer's Disease. Alzheimer's and Dementia, 2016, 12, P320.	0.8	0
89	Calcium, Diet, Imaging, and Age-Related Macular Degeneration. JAMA Ophthalmology, 2019, 137, 1333.	2.5	0
90	Fluorescence Lifetime Imaging of Tetracycline-Stained Retinal Hydroxyapatite: An Early Biomarker for Age-Related Macular Degeneration?. Biophysical Journal, 2019, 116, 566a.	0.5	0

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91	THU0663â€...DO ANTIBODIES DIRECTED AGAINST HUMAN CILIARY BODY TISSUE PREDICT THE DEVELOPMENT OF UVEITIS IN JIA- A PRELIMINARY STUDY. , 2019, , .		0
92	RegionÃ¡lis TudomÃ¡nyi MÅ±hely a Szegedi TudomÃ¡nyegyetem GazdasÃ¡gtudomÃ¡nyi KarÃ¡n. TÃ©r Ã©s TÃ¡rsadalom, 2012, 26, 153-157.	0.2	0
93	Towards early detection of age-related macular degeneration with tetracyclines and FLIM. , 2018, , .		0