

Imre Lengyel

List of Publications by Year in descending order

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93
papers

3,036
citations

147726

31
h-index

182361

51
g-index

97
all docs

97
docs citations

97
times ranked

3808
citing authors

#	ARTICLE	IF	CITATIONS
1	Prevalence of Age-Related Macular Degeneration in Europe. <i>Ophthalmology</i> , 2017, 124, 1753-1763.	2.5	337
2	A new perspective on lipid research in age-related macular degeneration. <i>Progress in Retinal and Eye Research</i> , 2018, 67, 56-86.	7.3	162
3	High concentration of zinc in sub-retinal pigment epithelial deposits. <i>Experimental Eye Research</i> , 2007, 84, 772-780.	1.2	117
4	Calcified nodules in retinal drusen are associated with disease progression in age-related macular degeneration. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1565-1570.	3.3	101
7	Systemic and ocular fluid compounds as potential biomarkers in age-related macular degeneration. <i>Survey of Ophthalmology</i> , 2018, 63, 9-39.	1.7	98
8	Autonomous activity of CaMKII is only transiently increased following the induction of long-term potentiation in the rat hippocampus. <i>European Journal of Neuroscience</i> , 2004, 20, 3063-3072.	1.2	92
9	The clinical relevance of visualising the peripheral retina. <i>Progress in Retinal and Eye Research</i> , 2019, 68, 83-109.	7.3	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. <i>Ophthalmology</i> , 2019, 126, 381-390.	2.5	89
12	Increased High-Density Lipoprotein Levels Associated with Age-Related Macular Degeneration. <i>Ophthalmology</i> , 2019, 126, 393-406.	2.5	88
13	On the origin of proteins in human drusen: The meet, greet and stick hypothesis. <i>Progress in Retinal and Eye Research</i> , 2019, 70, 55-84.	7.3	77
14	Modulation of the Phosphorylation and Activity of Calcium/Calmodulin-Dependent Protein Kinase II by Zinc. <i>Journal of Neurochemistry</i> , 2002, 75, 594-605.	2.1	75
15	Peripheral Retinal Imaging Biomarkers for Alzheimer's Disease: A Pilot Study. <i>Ophthalmic Research</i> , 2018, 59, 182-192.	1.0	64
16	Enhancement of NMDA responses by β^2 -amyloid peptides in the hippocampus in vivo. <i>NeuroReport</i> , 2004, 15, 1649-1652.	0.6	55
17	Phosphorylation of a New Brain-specific Septin, G-septin, by cGMP-dependent Protein Kinase. <i>Journal of Biological Chemistry</i> , 2000, 275, 10047-10056.	1.6	54
18	The Pyramid Model: Enhancing Regional Competitiveness in Hungary. <i>Acta Oeconomica</i> , 2004, 54, 323-342.	0.2	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. <i>European Journal of Nutrition</i> , 2017, 56, 2457-2466.	1.8	48
20	Uncontrolled Zinc- and Copper-Induced Oligomerisation of the Human Complement Regulator Factor H and Its Possible Implications for Function and Disease. <i>Journal of Molecular Biology</i> , 2008, 384, 1341-1352.	2.0	47
21	Zinc Nutrition and Inflammation in the Aging Retina. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1801049.	1.5	47
22	A Population-Based Ultra-Widefield Digital Image Grading Study for Age-Related Macular Degeneration-Like Lesions at the Peripheral Retina. <i>Ophthalmology</i> , 2015, 122, 1340-1347.	2.5	44
23	Integrating Metabolomics, Genomics, and Disease Pathways in Age-Related Macular Degeneration. <i>Ophthalmology</i> , 2020, 127, 1693-1709.	2.5	43
24	Zinc Binding to the Tyr402 and His402 Allotypes of Complement Factor H: Possible Implications for Age-Related Macular Degeneration. <i>Journal of Molecular Biology</i> , 2011, 408, 714-735.	2.0	42
25	Zinc-induced Self-association of Complement C3b and Factor H. <i>Journal of Biological Chemistry</i> , 2013, 288, 19197-19210.	1.6	41
26	Retinal thickness as potential biomarker in posterior cortical atrophy and typical Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2019, 11, 62.	3.0	40
27	Metabolomics and Age-Related Macular Degeneration. <i>Metabolites</i> , 2019, 9, 4.	1.3	40
28	Development of a Genotype Assay for Age-Related Macular Degeneration. <i>Ophthalmology</i> , 2021, 128, 1604-1617.	2.5	38
29	Pathological Phosphorylation Causes Neuronal Death: Effect of Okadaic Acid in Primary Culture of Cerebellar Granule Cells. <i>Journal of Neurochemistry</i> , 1992, 59, 1558-1561.	2.1	37
30	Side Chain Modifications Change the Binding and Agonist Properties of Endomorphin 2. <i>Biochemical and Biophysical Research Communications</i> , 2002, 290, 153-161.	1.0	37
31	Correlations in distribution and concentration of calcium, copper and iron with zinc in isolated extracellular deposits associated with age-related macular degeneration. <i>Metallomics</i> , 2014, 6, 1223-1228.	1.0	37
32	Receptor constants for endomorphin-1 and endomorphin-1-ol indicate differences in efficacy and receptor occupancy. <i>European Journal of Pharmacology</i> , 2001, 421, 61-67.	1.7	33
33	Calcium/Calmodulin-Stimulated Protein Kinase II Is Present in Primary Cultures of Cerebral Endothelial Cells. <i>Journal of Neurochemistry</i> , 1993, 60, 1960-1963.	2.1	31
34	S100B-Mediated Inhibition of the Phosphorylation of GFAP Is Prevented by TRTK-12. <i>Neurochemical Research</i> , 2004, 29, 735-740.	1.6	31
35	Kinetics of Protein Phosphorylation in Microvessels Isolated from Rat Brain: Modulation by Second Messengers. <i>Journal of Neurochemistry</i> , 1988, 51, 49-56.	2.1	30
36	Agreement between image grading of conventional (45°) and ultra wide-angle (200°) digital images in the macula in the Reykjavik eye study. <i>Eye</i> , 2010, 24, 1568-1575.	1.1	29

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37	Bruch's membrane changes in transgenic mice overexpressing the human biglycan and apolipoprotein b-100 genes. <i>Experimental Eye Research</i> , 2009, 89, 178-186.	1.2	28
38	Determination of Zn, Cu and Fe in human patients' serum using micro-sampling ICP-MS and sample dilution. <i>Talanta</i> , 2019, 204, 663-669.	2.9	27
39	Genotype- and Phenotype-Based Subgroups in Geographic Atrophy Secondary to Age-Related Macular Degeneration. <i>Ophthalmology Retina</i> , 2020, 4, 1129-1137.	1.2	26
40	Simultaneous measurement of tyrosine hydroxylase activity and phosphorylation in bovine adrenal chromaffin cells. <i>Journal of Neuroscience Methods</i> , 1999, 87, 167-174.	1.3	22
41	Partial and full agonism in endomorphin derivatives: Comparison by null and operational model. <i>Peptides</i> , 2006, 27, 1507-1513.	1.2	21
42	Influence of Degradation on Binding Properties and Biological Activity of Endomorphin 1. <i>Biochemical and Biophysical Research Communications</i> , 2001, 284, 771-776.	1.0	20
43	Preparation of specifically tritiated endomorphins. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2001, 44, 355-363.	0.5	20
44	Changes in zinc status and zinc transporters expression in whole blood of patients with Systemic Inflammatory Response Syndrome (SIRS). <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 49, 202-209.	1.5	20
45	Spatial differences of reindustrialization in a post-socialist economy: manufacturing in the Hungarian counties. <i>European Planning Studies</i> , 2017, 25, 1416-1434.	1.6	19
46	Multiplex bioimaging of proteins-related to neurodegenerative diseases in eye sections by laser ablation - Inductively coupled plasma " Mass spectrometry using metal nanoclusters as labels. <i>Talanta</i> , 2021, 221, 121489.	2.9	19
47	Deep and Frequent Phenotyping study protocol: an observational study in prodromal Alzheimer's disease. <i>BMJ Open</i> , 2019, 9, e024498.	0.8	18
48	Optic nerve thinning and neurosensory retinal degeneration in the rTg4510 mouse model of frontotemporal dementia. <i>Acta Neuropathologica Communications</i> , 2019, 7, 4.	2.4	17
49	The effects of zinc supplementation on primary human retinal pigment epithelium. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 49, 184-191.	1.5	15
50	A Multi-Omics Approach Identifies Key Regulatory Pathways Induced by Long-Term Zinc Supplementation in Human Primary Retinal Pigment Epithelium. <i>Nutrients</i> , 2020, 12, 3051.	1.7	15
51	Drivers of Regional Competitiveness in the Central European Countries. <i>Transition Studies Review</i> , 2013, 20, 421-435.	0.4	14
52	Cure or cause: opposing roles for zinc in age-related macular degeneration. <i>Expert Review of Ophthalmology</i> , 2008, 3, 1-4.	0.3	12
53	Auto-inhibition of Ca ²⁺ /calmodulin-dependent protein kinase II by its ATP-binding domain. <i>Journal of Neurochemistry</i> , 2001, 76, 1066-1072.	2.1	11
54	Characterization of protein kinase and phosphatase systems in chick ciliary ganglion. <i>Neuroscience</i> , 1996, 70, 577-588.	1.1	10

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55	Agglomeration, foreign firms and firm exit in regions under transition: the increasing importance of related variety in Hungary. <i>European Planning Studies</i> , 2019, 27, 2099-2122.	1.6	10
56	The Placental Growth Factor Pathway and Its Potential Role in Macular Degenerative Disease. <i>Current Eye Research</i> , 2019, 44, 813-822.	0.7	10
57	Autonomous activity and autophosphorylation of CAMPK-II in rat hippocampal slices: effects of tissue preparation. <i>Journal of Neurochemistry</i> , 2009, 76, 149-154.	2.1	9
58	Competitiveness of Metropolitan Regions in Visegrad Counties. <i>Procedia, Social and Behavioral Sciences</i> , 2016, 223, 357-362.	0.5	9
59	Fluorescent Arylphosphonic Acids: Synergic Interactions between Bone and the Fluorescent Core. <i>Chemistry - A European Journal</i> , 2020, 26, 11129-11134.	1.7	9
60	Enhanced G-protein activation by a mixture of Abeta(25-35), Abeta(1-40/42) and zinc. <i>Journal of Neurochemistry</i> , 2004, 89, 1215-1223.	2.1	8
61	Quantitative analysis of hydroxyapatite-binding plasma proteins in genotyped individuals with late-stage age-related macular degeneration. <i>Experimental Eye Research</i> , 2018, 172, 21-29.	1.2	8
62	Nuclear and cellular, micro and nano calcification in Alzheimer's disease patients and correlation to phosphorylated Tau. <i>Acta Biomaterialia</i> , 2022, 143, 138-144.	4.1	8
63	Characterization of Calcium Phosphate Spherical Particles in the Subretinal Pigment Epithelium's Basal Lamina Space in Aged Human Eyes. <i>Ophthalmology Science</i> , 2021, 1, 100053.	1.0	7
64	Regionális klaszterek és agglomerációk: Feldolgozóipar a magyar városokban. <i>Társadalom</i> , 2015, 29, 49-72.	0.0	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. <i>Molecular Immunology</i> , 2010, 47, 2263-2263.	1.0	6
66	Imaging hydroxyapatite in sub-retinal pigment epithelial deposits by fluorescence lifetime imaging microscopy with tetracycline staining. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	1.4	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. <i>Neuroscience</i> , 1999, 90, 607-619.	1.1	5
68	Molecular pathomechanisms of Alzheimer's disease. <i>Computational and Theoretical Chemistry</i> , 2003, 666-667, 507-513.	1.5	5
69	Retinal phenotyping of variants of Alzheimer's disease using ultra-widefield retinal images. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2021, 13, e12232.	1.2	5
70	The Catching up Processes of the Regions of the Visegrad Group Countries. <i>Comparative Economic Research</i> , 2018, 21, 5-24.	0.2	5
71	Localization of the zinc binding tubulin polymerization promoting protein in the mice and human eye. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 49, 222-230.	1.5	4
72	Î± and Î² subunits of CaM-kinase II are localized in different neurons in chick ciliary ganglion. <i>NeuroReport</i> , 1998, 9, 2753-2755.	0.6	3

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73	Felzárkás vagy tévolsígtartás kivetés? A visegrádi országok társaságainak fejlődéséről. Társasági Társadalom, 2018, 32, 5-26.	0,0	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.	1.8	3
75	CONVERGENCE CLUBS OF NUTS3 REGIONS OF THE V4 GROUP. E A M: Ékonómia É Management, 2021, 24, 22-38.	0.4	3
76	[P4033]: DEEP AND FREQUENT PHENOTYPING: A FEASIBILITY STUDY FOR EXPERIMENTAL MEDICINE IN DEMENTIA. Alzheimer's and Dementia, 2017, 13, P1268.	0.4	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.	0.4	2
78	Increased choroidal thickness in adults with Down syndrome. Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring, 2021, 13, e12170.	1.2	2
79	A regionális tudományi és természettudományi reális esélyek avagy csalfa dőlibok?. Társasági Társadalom, 2010, 24, 11-40.	0,0	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.	0.4	2
82	Obesity, diabetes and zinc: A workshop promoting knowledge and collaboration between the UK and Israel, november 28-30, 2016 - Israel. Journal of Trace Elements in Medicine and Biology, 2018, 49, 79-85.	1.5	1
83	Enyedi György, a tévolsígtartás Társasági Társadalom, 2010, 24, 3-6.	0.0	1
84	Re: Keenan et al.: 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.	1.2	1
85	Reply to "Comment on: High concentration of zinc in sub-retinal pigment epithelial deposits" (Lengyel) Tj. F. T. Q. 1 1 0.784314	1,2	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	O306: Retinal Imaging in Posterior Cortical Atrophy and Typical Alzheimer's Disease. Alzheimer's and Dementia, 2016, 12, P320.	0.4	0
89	Calcium, Diet, Imaging, and Age-Related Macular Degeneration. JAMA Ophthalmology, 2019, 137, 1333.	1.4	0
90	Fluorescence Lifetime Imaging of Tetracycline-Stained Retinal Hydroxyapatite: An Early Biomarker for Age-Related Macular Degeneration?. Biophysical Journal, 2019, 116, 566a.	0.2	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	Regionális Tudományi Műhely a Szegedi Tudományegyetem Gazdaságtudományi Karán. Társ Társadalom, 2012, 26, 153-157.	0.0	0
93	Towards early detection of age-related macular degeneration with tetracyclines and FLIM. , 2018, , .		0