Katalin Solymosi

List of Publications by Year
in descending order

72 papers	1,942 citations	218381 26 h-index	264894 42 g-index
74 all docs	74 docs citations	74 times ranked	2499 citing authors

#	Article	IF	Citations
1	Etioplast and etio-chloroplast formation under natural conditions: the dark side of chlorophyll biosynthesis in angiosperms. Photosynthesis Research, 2010, 105, 143-166.	1.6	165
2	The tannosome is an organelle forming condensed tannins in the chlorophyllous organs of Tracheophyta. Annals of Botany, 2013, 112, 1003-1014.	1.4	128
3	Engineering salinity tolerance in plants: progress and prospects. Planta, 2020, 251, 76.	1.6	123
4	A voltage-dependent chloride channel fine-tunes photosynthesis in plants. Nature Communications, 2016, 7, 11654.	5.8	122
5	Chlorophylls and their Derivatives Used in Food Industry and Medicine. Mini-Reviews in Medicinal Chemistry, 2017, 17, 1194-1222.	1.1	72
6	The Arabidopsis Thylakoid Chloride Channel AtCLCe Functions in Chloride Homeostasis and Regulation of Photosynthetic Electron Transport. Frontiers in Plant Science, 2016, 7, 115.	1.7	67
7	Cannabis: A Treasure Trove or Pandora's Box?. Mini-Reviews in Medicinal Chemistry, 2017, 17, 1223-1291.	1.1	67
8	Carotenoids of Microalgae Used in Food Industry and Medicine. Mini-Reviews in Medicinal Chemistry, 2017, 17, 1140-1172.	1.1	62
9	Phycobilins and Phycobiliproteins Used in Food Industry and Medicine. Mini-Reviews in Medicinal Chemistry, 2017, 17, 1173-1193.	1.1	58
10	Soil metals, chloroplasts, and secure crop production: a review. Agronomy for Sustainable Development, 2012, 32, 245-272.	2.2	51
11	A novel chloroplast localized Rab GTPase protein CPRabA5e is involved in stress, development, thylakoid biogenesis and vesicle transport in Arabidopsis. Plant Molecular Biology, 2014, 84, 675-692.	2.0	50
12	The ultrastructure and flexibility of thylakoid membranes in leaves and isolated chloroplasts as revealed by small-angle neutron scattering. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 1572-1580.	0.5	45
13	Plastid differentiation and chlorophyll biosynthesis in different leaf layers of white cabbage (Brassica oleracea cv. capitata). Physiologia Plantarum, 2004, 121, 520-529.	2.6	43
14	High salt stress induces swollen prothylakoids in dark-grown wheat and alters both prolamellar body transformation and reformation after irradiation. Journal of Experimental Botany, 2007, 58, 2553-2564.	2.4	43
15	Role of Thylakoid ATP/ADP Carrier in Photoinhibition and Photoprotection of Photosystem II in Arabidopsis Â Â. Plant Physiology, 2010, 153, 666-677.	2.3	42
16	Fingerprinting the macro-organisation of pigmentâ€“protein complexes in plant thylakoid membranes in vivo by circular-dichroism spectroscopy. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1479-1489.	0.5	42
17	Plastid Structure, Diversification and Interconversions II. Land Plants. Current Chemical Biology, 2013, 6, 187-204.	0.2	38
18	Transient etiolation: protochlorophyll(ide) and chlorophyll forms in differentiating plastids of closed and breaking leaf buds of horse chestnut (Aesculus hippocastanum). Tree Physiology, 2006, 26, 1087-1096.	1.4	37

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19	Chloroparva pannonica gen. et sp. nov. (Trebouxiophyceae, Chlorophyta) â€“ a new picoplanktonic green alga from a turbid, shallow soda pan. Phycologia, 2011, 50, 1-10.	0.6	37
20	Food colour additives of natural origin. , 2015, , 3-34.		36
21	K+ and Clâ¯ channels/transporters independently fine-tune photosynthesis in plants. Scientific Reports, 2019, 9, 8639.	1.6	32
22	One step closer to eliminating the nomenclatural problems of minute coccoid green algae: Pseudochloris wilhelmii, gen. et sp. nov. (Trebouxiophyceae, Chlorophyta). European Journal of Phycology, 2013, 48, 427-436.	0.9	31
23	Plastid Structure, Diversification and Interconversions I. Algae. Current Chemical Biology, 2013, 6, 167-186.	0.2	31
24	Optical properties of bud scales and protochlorophyll(ide) forms in leaf primordia of closed and opened buds. Tree Physiology, 2006, 26, 1075-1085.	1.4	30
25	Mycorrhiza Symbiosis Increases the Surface for Sunlight Capture in Medicago truncatula for Better Photosynthetic Production. PLoS ONE, 2015, 10, e0115314.	1.1	28
26	Vesicles Are Persistent Features of Different Plastids. Traffic, 2016, 17, 1125-1138.	1.3	28
27	Photosystem II Function and Dynamics in Three Widely Used Arabidopsis thaliana Accessions. PLoS ONE, 2012, 7, e46206.	1.1	28
28	Transplastomic plants for innovations in agriculture. A review. Agronomy for Sustainable Development, 2015, 35, 1391-1430.	2.2	27
29	Etiolation Symptoms in Sunflower (Helianthus annuus) Cotyledons Partially Covered by the Pericarp of the Achene. Annals of Botany, 2007, 99, 857-867.	1.4	26
30	Solvent effects on fluorescence properties of protochlorophyll and its derivatives with various porphyrin side chains. European Biophysics Journal, 2008, 37, 1185-1193.	1.2	26
31	High biological variability of plastids, photosynthetic pigments and pigment forms of leaf primordia in buds. Planta, 2012, 235, 1035-1049.	1.6	25
32	Visualization and characterization of prolamellar bodies with atomic force microscopy. Journal of Plant Physiology, 2013, 170, 1217-1227.	1.6	25
33	Etioplasts and Their Significance in Chloroplast Biogenesis. Advances in Photosynthesis and Respiration, 2013, , 39-71.	1.0	24
34	Activation parameters of the blue shift (Shibata shift) subsequent to protochlorophyllide phototransformation. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1651, 130-138.	1.1	20
35	Iron in leaves: chemical forms, signalling, and in-cell distribution. Journal of Experimental Botany, 2022, 73, 1717-1734.	2.4	20
36	Reactive oxygen species from typeâ€Ⅰ photosensitized reactions contribute to the lightâ€induced wilting of darkâ€grown pea (Pisum sativum) epicotyls. Physiologia Plantarum, 2010, 138, 485-492.	2.6	18

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37	Etioplasts with protochlorophyll and protochlorophyllide forms in the underâ€soil epicotyl segments of pea (Pisum sativum) seedlings grown under natural light conditions. Physiologia Plantarum, 2013, 148, 307-315.	2.6	16
38	Molecular rearrangement in POR macrodomains as a reason for the blue shift of chlorophyllide fluorescence observed after phototransformation. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 1650-1658.	1.4	15
39	Similarities and Differences in the Effects of Toxic Concentrations of Cadmium and Chromium on the Structure and Functions of Thylakoid Membranes in Chlorella variabilis. Frontiers in Plant Science, 2020, 11, 1006.	1.7	15
40	Light and temperature regulation of greening in darkâ€grown ginkgo (Ginkgo biloba). Physiologia Plantarum, 2008, 134, 649-659.	2.6	14
41	Desiccoplastâ€“etioplastâ€“chloroplast transformation under rehydration of desiccated poikilochlorophyllous Xerophyta humilis leaves in the dark and upon subsequent illumination. Journal of Plant Physiology, 2013, 170, 583-590.	1.6	13
42	Salt Stress Affects Plastid Ultrastructure and Photosynthetic Activity but Not the Essential Oil Composition in Spearmint (Mentha spicata L. var. crispa â€œMoroccanâ€). Frontiers in Plant Science, 2021, 12, 739467.	1.7	12
43	The Effect of Light on Plastid Differentiation, Chlorophyll Biosynthesis, and Essential Oil Composition in Rosemary (Rosmarinus officinalis) Leaves and Cotyledons. Frontiers in Plant Science, 2020, 11, 196.	1.7	10
44	The Role of Membranes and Lipid-Protein Interactions in the Mg-Branch of Tetrapyrrole Biosynthesis. Frontiers in Plant Science, 2021, 12, 663309.	1.7	10
45	Changes in plastid proteome and structure in arbuscular mycorrhizal roots display a nutrient starvation signature. Physiologia Plantarum, 2017, 159, 13-29.	2.6	9
46	Qualitative and quantitative evaluation of thylakoid complexes separated by Blue Native PAGE. Plant Methods, 2022, 18, 23.	1.9	9
47	Transformation of plastids in soilâ€shaded lowermost hypocotyl segments of bean (Phaseolus) Tj ETQq1 1 0.784314 rgBT /Overlock	2.6	8
48	Diversity and Plasticity of Plastids in Land Plants. Methods in Molecular Biology, 2018, 1829, 55-72.	0.4	8
49	Why science needs a new reward and recognition system. Nature, 2021, 595, 751-753.	13.7	8
50	Activation volumes of processes linked to the phototransformation of protochlorophyllide determined by fluorescence spectroscopy at high pressure. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1554, 1-4.	0.5	7
51	Aggregation of the 636Ânm emitting monomeric protochlorophyllide form into flash-photoactive, oligomeric 644 and 655Ânm emitting forms in vitro. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 811-820.	0.5	7
52	Preferential regeneration of the NADPH: protochlorophyllide oxidoreductase oligomer complexes in pea epicotyls after bleaching. Physiologia Plantarum, 2010, 138, 102-112.	2.6	5
53	Six reasons to launch a Young Academy. Nature, 2021, 594, 599-601.	13.7	5
54	Salt Stress Induces Paramylon Accumulation and Fine-Tuning of the Macro-Organization of Thylakoid Membranes in Euglena gracilis Cells. Frontiers in Plant Science, 2021, 12, 725699.	1.7	5

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55	Protochlorophyll complexes with similar steady-state fluorescence characteristics can differ in fluorescence lifetimes. A model study in Triton X-100. Journal of Photochemistry and Photobiology B: Biology, 2007, 86, 262-271.	1.7	4
56	Recovery of functional enzyme from amyloid fibrils. FEBS Letters, 2010, 584, 1139-1142.	1.3	4
57	Plant cell compartments. Botany Letters, 2019, 166, 269-273.	0.7	4
58	Hidden diversity of Chlorococcum (Chlorophyta) in a shallow temporary freshwater lake: description of Chlorococcum szentendrense sp. nov. European Journal of Phycology, 2023, 58, 110-120.	0.9	3
59	Fiatal kutatÃ³k MagyarorszÃ¡gon â€“ felmÃ©rÃ©s a 45 Ã©v alatti kutatÃ³k helyzetÃ©rÅ‘l. Magyar TudomÃ¡ny, 0, , .	0.0	2
60	Elucidation of ligand binding and dimerization of NADPH :protochlorophyllide (Pchlide) oxidoreductase from pea (Pisum sativum L.) by structural analysis and simulations. Proteins: Structure, Function and Bioinformatics, 2021, 89, 1300-1314.	1.5	1
61	Fiatal kutatÃ³k nehÃ©zsÃ©gei a COVIDâ€“19 jÃ¡rvÃ¡ny alatt â€¢ Difficulties of Young Researchers during the Covid-19 Pandemic. Magyar TudomÃ¡ny, 0, , .	0.0	1
62	Rescuing Functional Protein from Amyloid-Like Structure. Biophysical Journal, 2009, 96, 79a.	0.2	0
63	Editorial: Plastid-derived Natural Products of Medicinal Use â€“ (Part I). Mini-Reviews in Medicinal Chemistry, 2017, 17, 986-987.	1.1	0
64	Editorial: Plastid-derived Natural Products of Medicinal Use (Part II). Mini-Reviews in Medicinal Chemistry, 2017, 17, 1126-1127.	1.1	0
65	NÃ¶vÃ©nyi mintÃ¡k fluoreszcencia lecsengÃ©si idejÃ©nek vizsgÃ¡latai. , 2021, , .		0
66	Chlorophyll Accumulation, Protochlorophyllide Formation and Prolamellar Body Conversion are Held Back in Wheat Leaves Exposed to High Salt Stress. , 2008, , 1133-1136.		0
67	A fÃ©ny hatÃ¡sa a rozmaring illÃ³olajtermelÃ©sÃ©re. , 2018, , .		0
68	MagyarorszÃ¡gi kutatÃ¡si pÃ¡lyÃ¡zatok Ã©s Ã¶sztÃ¶ndÃ¡jak fiatal kutatÃ³i szemmel. Ã‰talÃ¡nos irÃ¡nyelvek Ã©s ajÃ¡nlÃ¡sok a Fiatal KutatÃ³k AkadÃ©miÃ¡jÃ¡tÃ³l. Magyar TudomÃ¡ny, 0, , .	0.0	0
69	Data from a survey on the impact of the pandemic on early-stage academics. Open Research Europe, 0, 1, 138.	2.0	0
70	A felsÅ‘oktatÃ¡s diverzitÃ¡sÃ¡nak nÃ¶velÃ©sÃ©hez alapvetÅ‘ szemlÃ©letvÃ¡ltÃ¡sra van szÃ¼ksÃ©g â€¢ A Fundamental Change in Mindset Is Needed to Increase the Diversity in Higher Education. Magyar TudomÃ¡ny, 0, , .	0.0	0
71	Intakt Ã©s in vitro Mentha taxonok fÃ¶ld feletti Ã©s fÃ¶ld alatti szerveinek fitokÃ©miai vizsgÃ¡lata. , 2022, , .		0
72	Tannin phenotyping of the Vitaceae reveals a phylogenetic linkage of epigallocatechin in berries and leaves. Annals of Botany, 0, , .	1.4	0