Anna Kulma

List of Publications by Year
in descending order

46 papers	2,742 citations	257101 24 h-index	223531 46 g-index
46 all docs	46 docs citations	46 times ranked	4499 citing authors

#	Article	IF	Citations
1	Flavonoids as Important Molecules of Plant Interactions with the Environment. Molecules, 2014, 19, 16240-16265.	1.7	813
2	The Potential of Plant Phenolics in Prevention and Therapy of Skin Disorders. International Journal of Molecular Sciences, 2016, 17, 160.	1.8	434
3	Catecholamines are active compounds in plants. Plant Science, 2007, 172, 433-440.	1.7	198
4	The local treatment and available dressings designed for chronic wounds. Journal of the American Academy of Dermatology, 2013, 68, e117-e126.	0.6	131
5	Phosphorylation and 14-3-3 binding of Arabidopsis 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase. Plant Journal, 2004, 37, 654-667.	2.8	97
6	Pleiotropic Effect of Phenolic Compounds Content Increases in Transgenic Flax Plant. Journal of Agricultural and Food Chemistry, 2005, 53, 3685-3692.	2.4	68
7	Characteristics of rose hip (Rosa canina L.) cold-pressed oil and its oxidative stability studied by the differential scanning calorimetry method. Food Chemistry, 2015, 188, 459-466.	4.2	66
8	Engineering Flax with the GT Family 1 Solanum sogarandinum Glycosyltransferase SsGT1 Confers Increased Resistance to Fusarium Infection. Journal of Agricultural and Food Chemistry, 2009, 57, 6698-6705.	2.4	65
9	Genes of phenylpropanoid pathway are activated in early response to Fusarium attack in flax plants. Plant Science, 2012, 190, 103-115.	1.7	53
10	Characteristics and Antioxidant Potential of Cold-Pressed Oilsâ€"Possible Strategies to Improve Oil Stability. Foods, 2020, 9, 1630.	1.9	45
11	New dressing materials derived from transgenic flax products to treat long-standing venous ulcers-a pilot study. Wound Repair and Regeneration, 2010, 18, 168-179.	1.5	43
12	Cannabinoid-like anti-inflammatory compounds from flax fiber. Cellular and Molecular Biology Letters, 2012, 17, 479-99.	2.7	43
13	Chemical composition and molecular structure of fibers from transgenic flax producing polyhydroxybutyrate, and mechanical properties and platelet aggregation of composite materials containing these fibers. Composites Science and Technology, 2009, 69, 2438-2446.	3.8	41
14	The expression of 14-3-3 isoforms in potato is developmentaly regulated. Journal of Plant Physiology, 1998, 153, 118-126.	1.6	39
15	New flax producing bioplastic fibers for medical purposes. Industrial Crops and Products, 2015, 68, 80-89.	2.5	39
16	Polyamine metabolism in flax in response to treatment with pathogenic and nonâ€"pathogenic Fusarium strains. Frontiers in Plant Science, 2015, 6, 291.	1.7	38
17	Flavonoid C-glucosides Derived from Flax Straw Extracts Reduce Human Breast Cancer Cell Growth In vitro and Induce Apoptosis. Frontiers in Pharmacology, 2016, 7, 282.	1.6	38
18	Profile of Polyphenolic and Essential Oil Composition of Polish Propolis, Black Poplar and Aspens Buds. Molecules, 2018, 23, 1262.	1.7	38

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19	Fusarium oxysporum infection activates the plastidial branch of the terpenoid biosynthesis pathway in flax, leading to increased ABA synthesis. Planta, 2020, 251, 50.	1.6	38
20	The cinnamyl alcohol dehydrogenase family in flax: Differentiation during plant growth and under stress conditions. Journal of Plant Physiology, 2018, 221, 132-143.	1.6	34
21	The influence of carotenoid biosynthesis modification on the Fusarium culmorum and Fusarium oxysporum resistance in flax. Physiological and Molecular Plant Pathology, 2011, 76, 39-47.	1.3	33
22	New biocomposites based on bioplastic flax fibers and biodegradable polymers. Biotechnology Progress, 2012, 28, 1336-1346.	1.3	32
23	Crossbreeding of transgenic flax plants overproducing flavonoids and glucosyltransferase results in progeny with improved antifungal and antioxidative properties. Molecular Breeding, 2014, 34, 1917-1932.	1.0	31
24	Improving retting of fibre through genetic modification of flax to express pectinases. Transgenic Research, 2008, 17, 133-147.	1.3	28
25	The changes in pectin metabolism in flax infected with Fusarium. Plant Physiology and Biochemistry, 2011, 49, 862-872.	2.8	27
26	Up-regulation of key glycolysis proteins in cancer development. Open Life Sciences, 2018, 13, 569-581.	0.6	27
27	Influence of the Bioactive Diet Components on the Gene Expression Regulation. Nutrients, 2021, 13, 3673.	1.7	27
28	Biotechnology of fibrous flax in Europe and China. Industrial Crops and Products, 2015, 68, 50-59.	2.5	22
29	Affinity purification of diverse plant and human 14-3-3-binding partners. Biochemical Society Transactions, 2002, 30, 379-381.	1.6	20
30	Chemistry, oxidative stability and bioactivity of oil extracted from Rosa rugosa (Thunb.) seeds by supercritical carbon dioxide. Food Chemistry, 2021, 335, 127649.	4.2	17
31	Celastrol and Resveratrol Modulate SIRT Genes Expression and Exert Anticancer Activity in Colon Cancer Cells and Cancer Stem-like Cells. Cancers, 2022, 14, 1372.	1.7	16
32	Transgenic Potato Plants with Overexpression of Dihydroflavonol Reductase Can Serve as Efficient Nutrition Sources. Journal of Agricultural and Food Chemistry, 2013, 61, 6743-6753.	2.4	11
33	3-Hydroxybutyrate Is Active Compound in Flax that Upregulates Genes Involved in DNA Methylation. International Journal of Molecular Sciences, 2020, 21, 2887.	1.8	11
34	Transcriptomic profiling of susceptible and resistant flax seedlings after Fusarium oxysporum lini infection. PLoS ONE, 2021, 16, e0246052.	1.1	11
35	DNA Methylation Profile of Î²-1,3-Glucanase and Chitinase Genes in Flax Shows Specificity Towards Fusarium Oxysporum Strains Differing in Pathogenicity. Microorganisms, 2019, 7, 589.	1.6	10
36	Spectroscopic characterization of genetically modified flax fibers. Journal of Molecular Structure, 2014, 1074, 321-329.	1.8	9

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37	Does biopolymers composition in seeds contribute to the flax resistance against the Fusarium infection?. Biotechnology Progress, 2014, 30, 992-1004.	1.3	8
38	Expression of heterologous lycopene Î²-cyclase gene in flax can cause silencing of its endogenous counterpart by changes in gene-body methylation and in ABA homeostasis mechanism. Plant Physiology and Biochemistry, 2018, 127, 143-151.	2.8	8
39	Chemical profiling and cytotoxic activity of 150-year old original sample of Jerusalem Balsam. Food and Chemical Toxicology, 2020, 138, 111183.	1.8	8
40	The Effects of Newly Developed Linen Dressings on Decubitus Ulcers. Journal of Palliative Medicine, 2012, 15, 146-148.	0.6	6
41	Expression of the Tyrosine Hydroxylase Gene from Rat Leads to Oxidative Stress in Potato Plants. Antioxidants, 2020, 9, 717.	2.2	5
42	V79 Fibroblasts Are Protected Against Reactive Oxygen Species by Flax Fabric. Applied Biochemistry and Biotechnology, 2018, 184, 366-385.	1.4	4
43	Abscisic Acidâ€"Defensive Player in Flax Response to Fusarium culmorum Infection. Molecules, 2022, 27, 2833.	1.7	4
44	Rearrangement of cell wall polymers in flax infected with a pathogenic strain of Fusarium culmorum. Physiological and Molecular Plant Pathology, 2020, 110, 101461.	1.3	3
45	Use of Natural Components Derived from Oil Seed Plants for Treatment of Inflammatory Skin Diseases. Current Pharmaceutical Design, 2019, 25, 2241-2263.	0.9	2
46	Modulation of carbohydrate metabolism in transgenic potato through genetic engineering and analysis of rabbits fed on wild type and transgenic potato tubers. Progress in Biotechnology, 2000, 17, 19-33.	0.2	1