

Benedetta Mattei

List of Publications by Year in descending order

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52
papers

2,674
citations

218592

26
h-index

197736

49
g-index

54
all docs

54
docs citations

54
times ranked

2871
citing authors

#	ARTICLE	IF	CITATIONS
1	Binding of 14-3-3 Protein to the Plasma Membrane H ⁺ -ATPase AHA2 Involves the Three C-terminal Residues Tyr946-Thr-Val and Requires Phosphorylation of Thr947. <i>Journal of Biological Chemistry</i> , 1999, 274, 36774-36780.	1.6	311
2	The specificity of polygalacturonase-inhibiting protein (PGIP): a single amino acid substitution in the solvent-exposed Î²-strand/Î²-turn region of the leucine-rich repeats (LRRs) confers a new recognition capability. <i>EMBO Journal</i> , 1999, 18, 2352-2363.	3.5	214
3	The crystal structure of polygalacturonase-inhibiting protein (PGIP), a leucine-rich repeat protein involved in plant defense. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10124-10128.	3.3	195
4	Polygalacturonases, polygalacturonase-inhibiting proteins and pectic oligomers in plantâ€“pathogen interactions. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1696, 237-244.	1.1	180
5	Structural requirements of endopolygalacturonase for the interaction with PGIP (polygalacturonase-inhibiting protein). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 13425-13430.	3.3	131
6	Four Arabidopsis berberine bridge enzymeâ€“like proteins are specific oxidases that inactivate the elicitorâ€“active oligogalacturonides. <i>Plant Journal</i> , 2018, 94, 260-273.	2.8	114
7	Polygalacturonase-Inhibiting Proteins (PGIPs) with Different Specificities Are Expressed in <i>Phaseolus vulgaris</i> . <i>Molecular Plant-Microbe Interactions</i> , 1997, 10, 852-860.	1.4	112
8	Cell wall traits that influence plant development, immunity, and bioconversion. <i>Plant Journal</i> , 2019, 97, 134-147.	2.8	106
9	Two Arabidopsis thaliana genes encode functional pectin methylesterase inhibitors1. <i>FEBS Letters</i> , 2004, 557, 199-203.	1.3	97
10	Polygalacturonase-Inhibiting Protein Interacts with Pectin through a Binding Site Formed by Four Clustered Residues of Arginine and Lysine. <i>Plant Physiology</i> , 2006, 141, 557-564.	2.3	88
11	Manipulation of Î²-carotene levels in tomato fruits results in increased ABA content and extended shelf life. <i>Plant Biotechnology Journal</i> , 2020, 18, 1185-1199.	4.1	81
12	An Arabidopsis berberine bridge enzymeâ€“like protein specifically oxidizes cellulose oligomers and plays a role in immunity. <i>Plant Journal</i> , 2019, 98, 540-554.	2.8	80
13	No Evidence for Binding Between Resistance Gene Product Cf-9 of Tomato and Avirulence Gene Product AVR9 of <i>Cladosporium fulvum</i> . <i>Molecular Plant-Microbe Interactions</i> , 2001, 14, 867-876.	1.4	78
14	Mutagenesis of Endopolygalacturonase from <i>Fusarium moniliforme</i> : Histidine Residue 234 Is Critical for Enzymatic and Macerating Activities and Not for Binding to Polygalacturonase-Inhibiting Protein (PGIP). <i>Molecular Plant-Microbe Interactions</i> , 1996, 9, 617.	1.4	69
15	Identification by 2â€“D DIGE of apoplastic proteins regulated by oligogalacturonides in <i>Arabidopsis thaliana</i> . <i>Proteomics</i> , 2008, 8, 1042-1054.	1.3	63
16	Secondary Structure and Post-Translational Modifications of the Leucine-Rich Repeat Protein PGIP (Polygalacturonase-Inhibiting Protein) from <i>Phaseolus vulgaris</i> . <i>Biochemistry</i> , 2001, 40, 569-576.	1.2	62
17	Targeted Modification of Homogalacturonan by Transgenic Expression of a Fungal Polygalacturonase Alters Plant Growth. <i>Plant Physiology</i> , 2004, 135, 1294-1304.	2.3	59
18	Functional expression in bacteria and plants of an scFv antibody fragment against tospoviruses. <i>Immunotechnology: an International Journal of Immunological Engineering</i> , 1999, 4, 189-201.	2.4	57

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19	Industrial Use of Cell Wall Degrading Enzymes: The Fine Line Between Production Strategy and Economic Feasibility. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 356.	2.0	49
20	The sorcin-annexin VII calcium-dependent interaction requires the sorcin N-terminal domain. <i>FEBS Letters</i> , 2000, 471, 197-200.	1.3	45
21	A family 11 xylanase from the pathogen <i>Botrytis cinerea</i> is inhibited by plant endoxylanase inhibitors XIP-I and TAXI-I. <i>Biochemical and Biophysical Research Communications</i> , 2005, 337, 160-166.	1.0	43
22	Comprehensive Analysis of the Membrane Phosphoproteome Regulated by Oligogalacturonides in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1107.	1.7	43
23	Pectin Methylesterase from Kiwi and Kaki Fruits: Purification, Characterization, and Role of pH in the Enzyme Regulation and Interaction with the Kiwi Proteinaceous Inhibitor. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 7700-7703.	2.4	30
24	A proteomic approach to verify <i>in vivo</i> expression of a novel β -gliadin containing an extra cysteine residue. <i>Proteomics</i> , 2006, 6, 1908-1914.	1.3	29
25	The Grapevine VvPME1 Gene Encodes a Novel Functional Pectin Methylesterase Inhibitor Associated to Grape Berry Development. <i>PLoS ONE</i> , 2015, 10, e0133810.	1.1	29
26	Exploring the potential of microalgae in the recycling of dairy wastes. <i>Bioresource Technology Reports</i> , 2020, 12, 100604.	1.5	27
27	Sensitive detection and measurement of oligogalacturonides in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2015, 06, 258.	1.7	26
28	The Interaction between Endopolygalacturonase from <i>Fusarium moniliforme</i> and PGIP from <i>Phaseolus vulgaris</i> Studied by Surface Plasmon Resonance and Mass Spectrometry. <i>Comparative and Functional Genomics</i> , 2001, 2, 359-364.	2.0	23
29	Three aspartic acid residues of polygalacturonase-inhibiting protein (PGIP) from <i>Phaseolus vulgaris</i> are critical for inhibition of <i>Fusarium phyllophilum</i> PG. <i>Plant Biology</i> , 2009, 11, 738-743.	1.8	18
30	The COP9 signalosome is involved in the regulation of lipid metabolism and of transition metals uptake in <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , 2014, 281, 175-190.	2.2	17
31	Changes in the microsomal proteome of tomato fruit during ripening. <i>Scientific Reports</i> , 2019, 9, 14350.	1.6	17
32	Peer Reviewed: Biomolecular Interaction Analysis and MS. <i>Analytical Chemistry</i> , 2004, 76, 18 A-25 A.	3.2	16
33	Cell wall hydrolases act in concert during aerenchyma development in sugarcane roots. <i>Annals of Botany</i> , 2019, 124, 1067-1089.	1.4	15
34	Characterization of a membrane-associated apoplastic lipoxygenase in <i>Phaseolus vulgaris</i> L.. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1748, 9-19.	1.1	14
35	A Combined Proteomics, Metabolomics and <i>In Vivo</i> Analysis Approach for the Characterization of Probiotics in Large-Scale Production. <i>Biomolecules</i> , 2020, 10, 157.	1.8	14
36	Recognition and signalling in the cell wall: The case of endopolygalacturonase, PGIP and oligogalacturonides. <i>Plant Biosystems</i> , 2005, 139, 24-27.	0.8	12

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37	The plasma membrane-associated Ca ²⁺ -binding protein, PCaP1, is required for oligogalacturonide and flagellin-induced priming and immunity. <i>Plant, Cell and Environment</i> , 2021, 44, 3078-3093.	2.8	12
38	Camalexin Quantification in <i>Arabidopsis thaliana</i> Leaves Infected with <i>Botrytis cinerea</i> . <i>Bio-protocol</i> , 2015, 5, .	0.2	11
39	Oligogalacturonide-induced changes in the nuclear proteome of <i>Arabidopsis thaliana</i> . <i>International Journal of Mass Spectrometry</i> , 2007, 268, 277-283.	0.7	10
40	Variability in Probiotic Formulations Revealed by Proteomics and Physico-chemistry Approach in Relation to the Gut Permeability. <i>Probiotics and Antimicrobial Proteins</i> , 2020, 12, 1193-1202.	1.9	10
41	Ectopic suicide inhibition of thioredoxin glutathione reductase. <i>Free Radical Biology and Medicine</i> , 2020, 147, 200-211.	1.3	10
42	A molecular dynamics-guided mutagenesis identifies two aspartic acid residues involved in the pH-dependent activity of OG-OXIDASE 1. <i>Plant Physiology and Biochemistry</i> , 2021, 169, 171-182.	2.8	9
43	Berberine Bridge Enzyme-like Oligosaccharide Oxidases Act as Enzymatic Transducers Between Microbial Glycoside Hydrolases and Plant Peroxidases. <i>Molecular Plant-Microbe Interactions</i> , 2022, 35, 881-886.	1.4	9
44	The role of polygalacturonase, PGIP and pectin oligomers in fungal infection. <i>Progress in Biotechnology</i> , 1996, , 191-205.	0.2	8
45	Proteomics in Deciphering the Auxin Commitment in the <i>Arabidopsis thaliana</i> Root Growth. <i>Journal of Proteome Research</i> , 2013, 12, 4685-4701.	1.8	8
46	Methods of Isolation and Characterization of Oligogalacturonide Elicitors. <i>Methods in Molecular Biology</i> , 2017, 1578, 25-38.	0.4	8
47	Crystallization and preliminary X-ray diffraction study of the endo-polygalacturonase from <i>Fusarium moniliforme</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 1359-1361.	2.5	4
48	Preliminary X-ray crystallographic analysis of a plant defence protein, the polygalacturonase-inhibiting protein from <i>Phaseolus vulgaris</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000, 56, 98-100.	2.5	4
49	A role for oxidative stress in the <i>Citrus limon</i> / <i>Phoma tracheiphila</i> interaction. <i>Plant Pathology</i> , 2007, 57, 070924013950005-???	1.2	4
50	Studies on plant inhibitors of pectin modifying enzymes: Polygalacturonase-inhibiting protein (PGIP) and pectin methylesterase inhibitor (PMEI). <i>Special Publication - Royal Society of Chemistry</i> , 0, , 160-168.	0.0	2
51	Analysis of the Interaction between <i>Phaseolus</i> PGIP and fungal Endopolygalacturonases Using Biosensor Technology. <i>Giornale Botanico Italiano (Florence, Italy: 1962)</i> , 1995, 129, 1118-1119.	0.0	0
52	Analysis of the interaction between PGIP from <i>Phaseolus vulgaris</i> L. and fungal endopolygalacturonases using biosensor technology. <i>Progress in Biotechnology</i> , 1996, 14, 775-782.	0.2	0