

# Edouard Pesquet

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

2,984  
citations

218677

26  
h-index

223800

46  
g-index

54  
all docs

54  
docs citations

54  
times ranked

3862  
citing authors

#	ARTICLE	IF	CITATIONS
1	The cell biology of lignification in higher plants. <i>Annals of Botany</i> , 2015, 115, 1053-1074.	2.9	505
2	AspWood: High-Spatial-Resolution Transcriptome Profiles Reveal Uncharacterized Modularity of Wood Formation in <i>Populus tremula</i> . <i>Plant Cell</i> , 2017, 29, 1585-1604.	6.6	219
3	New members of the tomato ERF family show specific expression pattern and diverse DNA-binding capacity to the GCC box element. <i>FEBS Letters</i> , 2003, 550, 149-154.	2.8	205
4	The Microtubule-Associated Protein AtMAP70-5 Regulates Secondary Wall Patterning in Arabidopsis Wood Cells. <i>Current Biology</i> , 2010, 20, 744-749.	3.9	195
5	Non-Cell-Autonomous Postmortem Lignification of Tracheary Elements in <i>Zinnia elegans</i> . <i>Plant Cell</i> , 2013, 25, 1314-1328.	6.6	158
6	A unique program for cell death in xylem fibers of <i>Populus</i> stem. <i>Plant Journal</i> , 2009, 58, 260-274.	5.7	147
7	ACAULIS5 controls <i>Arabidopsis</i> xylem specification through the prevention of premature cell death. <i>Development (Cambridge)</i> , 2008, 135, 2573-2582.	2.5	140
8	In Vivo Visualization of Mg-ProtoporphyrinIX, a Coordinator of Photosynthetic Gene Expression in the Nucleus and the Chloroplast. <i>Plant Cell</i> , 2007, 19, 1964-1979.	6.6	115
9	The different fates of mitochondria and chloroplasts during dark-induced senescence in <i>Arabidopsis</i> leaves. <i>Plant, Cell and Environment</i> , 2007, 30, 1523-1534.	5.7	114
10	Novel Markers of Xylogenesis in <i>Zinnia</i> Are Differentially Regulated by Auxin and Cytokinin. <i>Plant Physiology</i> , 2005, 139, 1821-1839.	4.8	89
11	Ethylene stimulates tracheary element differentiation in <i>Zinnia elegans</i> cell cultures. <i>New Phytologist</i> , 2011, 190, 138-149.	7.3	69
12	Endopolyploidy as a potential alternative adaptive strategy for <i>Arabidopsis</i> leaf size variation in response to UV-B. <i>Journal of Experimental Botany</i> , 2014, 65, 2757-2766.	4.8	59
13	Two Complementary Mechanisms Underpin Cell Wall Patterning during Xylem Vessel Development. <i>Plant Cell</i> , 2017, 29, 2433-2449.	6.6	59
14	METACASPASE9 modulates autophagy to confine cell death to the target cells during <i>Arabidopsis</i> vascular xylem differentiation. <i>Biology Open</i> , 2016, 5, 122-129.	1.2	56
15	Leaf Senescence Is Accompanied by an Early Disruption of the Microtubule Network in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2010, 154, 1710-1720.	4.8	55
16	Proteomic Analysis of Microtubule Interacting Proteins over the Course of Xylem Tracheary Element Formation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2015, 27, tpc.15.00314.	6.6	55
17	Identifying New Components Participating in the Secondary Cell Wall Formation of Vessel Elements in <i>Zinnia</i> and <i>Arabidopsis</i> . <i>Plant Cell</i> , 2009, 21, 1155-1165.	6.6	53
18	Establishment of Photosynthesis through Chloroplast Development Is Controlled by Two Distinct Regulatory Phases. <i>Plant Physiology</i> , 2018, 176, 1199-1214.	4.8	49

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19	Cell culture systems: invaluable tools to investigate lignin formation and cell wall properties. <i>Current Opinion in Biotechnology</i> , 2019, 56, 215-222.	6.6	49
20	Galactoglucomannans Increase Cell Population Density and Alter the Protoxylem/Metaxylem Tracheary Element Ratio in Xylogenic Cultures of <i>Zinnia</i> . <i>Plant Physiology</i> , 2006, 142, 696-709.	4.8	47
21	The <i>Eucalyptus</i> linker histone variant EgH1.3 cooperates with the transcription factor EgMYB1 to control lignin biosynthesis during wood formation. <i>New Phytologist</i> , 2017, 213, 287-299.	7.3	46
22	Functional Dissection of Sugar Signals Affecting Gene Expression in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2014, 9, e100312.	2.5	45
23	Molecular changes associated with the setting up of secondary growth in aspen. <i>Journal of Experimental Botany</i> , 2005, 56, 2211-2227.	4.8	43
24	Hexokinase 1 is required for glucose-induced repression of bZIP63, At5g22920, and BT2 in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 525.	3.6	36
25	Multiple gene detection by in situ RT-PCR in isolated plant cells and tissues. <i>Plant Journal</i> , 2004, 39, 947-959.	5.7	31
26	Microtubule Dynamics in Plant Cells. <i>Methods in Cell Biology</i> , 2010, 97, 373-400.	1.1	27
27	Phenoloxidasases in Plants – How Structural Diversity Enables Functional Specificity. <i>Frontiers in Plant Science</i> , 2021, 12, 754601.	3.6	27
28	Chemical Genetics Uncovers Novel Inhibitors of Lignification, Including <i>p</i> -Iodobenzoic Acid Targeting CINNAMATE-4-HYDROXYLASE. <i>Plant Physiology</i> , 2016, 172, 198-220.	4.8	26
29	Cellular and Genetic Regulation of Coniferaldehyde Incorporation in Lignin of Herbaceous and Woody Plants by Quantitative Wiesner Staining. <i>Frontiers in Plant Science</i> , 2020, 11, 109.	3.6	25
30	Cellular interactions during tracheary elements formation and function. <i>Current Opinion in Plant Biology</i> , 2015, 23, 109-115.	7.1	23
31	<i>Zinnia elegans</i> : the missing link from in vitro tracheary elements to xylem. <i>Physiologia Plantarum</i> , 2003, 119, 463-468.	5.2	20
32	The Woody-Preferential Gene EgMYB88 Regulates the Biosynthesis of Phenylpropanoid-Derived Compounds in Wood. <i>Frontiers in Plant Science</i> , 2016, 7, 1422.	3.6	20
33	Cooperative lignification of xylem tracheary elements. <i>Plant Signaling and Behavior</i> , 2015, 10, e1003753.	2.4	20
34	Analysis of Lignin Composition and Distribution Using Fluorescence Laser Confocal Microspectroscopy. <i>Methods in Molecular Biology</i> , 2017, 1544, 233-247.	0.9	18
35	Plant proteases – from detection to function. <i>Physiologia Plantarum</i> , 2012, 145, 1-4.	5.2	17
36	Transient transformation and RNA silencing in <i>Zinnia</i> tracheary element differentiating cell cultures. <i>Plant Journal</i> , 2008, 53, 864-875.	5.7	16

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37	Determining the Genetic Regulation and Coordination of Lignification in Stem Tissues of <i>Arabidopsis</i> Using Semiquantitative Raman Microspectroscopy. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4900-4909.	6.7	16
38	Mechanisms for shaping, orienting, positioning and patterning plant secondary cell walls. <i>Plant Signaling and Behavior</i> , 2011, 6, 843-849.	2.4	15
39	Light affects tissue patterning of the hypocotyl in the shade-avoidance response. <i>PLoS Genetics</i> , 2020, 16, e1008678.	3.5	15
40	Importance of Lignin Coniferaldehyde Residues for Plant Properties and Sustainable Uses. <i>ChemSusChem</i> , 2020, 13, 4400-4408.	6.8	14
41	Microtubules, MAPs and Xylem Formation. <i>Advances in Plant Biology</i> , 2011, , 277-306.	0.8	8
42	Life Beyond Death: The Formation of Xylem Sap Conduits. , 2015, , 55-76.		6
43	Establishment and Utilization of Habituated Cell Suspension Cultures for Hormone-Inducible Xylogenesis. <i>Methods in Molecular Biology</i> , 2017, 1544, 37-57.	0.9	6
44	Selection on Accessible Chromatin Regions in <i>Capsella grandiflora</i> . <i>Molecular Biology and Evolution</i> , 2021, 38, 5563-5575.	8.9	6
45	Unravelling ethylene biosynthesis and its role during tracheary element formation in <i>Zinnia elegans</i> . , 2007, , 147-149.		5
46	New insights into the physical processes that underpin cell division and the emergence of different cellular and multicellular structures. <i>Progress in Biophysics and Molecular Biology</i> , 2020, 150, 13-42.	2.9	4
47	Xylem Formation and Lignification in Trees and Model Species. <i>Progress in Biotechnology</i> , 2001, , 11-18.	0.2	2
48	Overexpression of EgrIAA20 from <i>Eucalyptus grandis</i> , a Non-Canonical Aux/IAA Gene, Specifically Decouples Lignification of the Different Cell-Types in <i>Arabidopsis</i> Secondary Xylem. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5068.	4.1	2
49	The COST action FP1105 “ a research network to understand wood cell wall structure, biopolymer interaction and composition. <i>Holzforschung</i> , 2016, 70, 1103-1104.	1.9	0