

# Todd J Cooke

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,706  
citations

361413

20  
h-index

330143

37  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1065  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of Indole-3-Acetic Acid Biosynthetic Pathways in Carrot Cell Cultures. <i>Plant Physiology</i> , 1992, 100, 1346-1353.	4.8	198
2	Auxin levels at different stages of carrot somatic embryogenesis. <i>Phytochemistry</i> , 1992, 31, 1097-1103.	2.9	192
3	Unusual patterns of somatic embryogenesis in the domesticated carrot: developmental effects of exogenous auxins and auxin transport inhibitors. <i>Cell Differentiation</i> , 1987, 21, 53-62.	0.4	162
4	Evolutionary patterns in auxin action. <i>Plant Molecular Biology</i> , 2002, 49, 319-338.	3.9	157
5	Auxin metabolism in representative land PLANTS. <i>American Journal of Botany</i> , 1995, 82, 1514-1521.	1.7	72
6	An auxin surge following fertilization in carrots: a mechanism for regulating plant totipotency. <i>Planta</i> , 2002, 214, 505-509.	3.2	67
7	Evolutionary patterns in auxin action. <i>Plant Molecular Biology</i> , 2002, 49, 319-38.	3.9	65
8	Auxin regulation of axial growth in bryophyte sporophytes: its potential significance for the evolution of early land plants. <i>American Journal of Botany</i> , 2003, 90, 1405-1415.	1.7	62
9	Evolutionary Patterns in the Auxin Metabolism of Green Plants. <i>International Journal of Plant Sciences</i> , 2000, 161, 849-859.	1.3	61
10	Auxin metabolism in mosses and liverworts. <i>American Journal of Botany</i> , 1999, 86, 1544-1555.	1.7	60
11	A geometric analysis of somatic embryo formation in carrot cell cultures. <i>Canadian Journal of Botany</i> , 1985, 63, 1573-1578.	1.1	54
12	Disciplinary authenticity: Enriching the reforms of introductory physics courses for life-science students. <i>Physical Review Physics Education Research</i> , 2012, 8, .	1.7	51
13	Title is missing!. <i>Plant Growth Regulation</i> , 2002, 36, 201-207.	3.4	47
14	CAUSAL MECHANISMS OF LEAF DIMORPHISM IN THE AQUATIC ANGIOSPERM CALLITRICHE HETEROPHYLLA. <i>American Journal of Botany</i> , 1984, 71, 319-329.	1.7	32
15	A microtechnique for the analysis of free and conjugated indole-3-acetic acid in milligram amounts of plant tissue using a benchtop gas chromatograph-mass spectrometer. <i>Planta</i> , 1997, 204, 1-7.	3.2	31
16	The genius of Wilhelm Hofmeister: the origin of causal-analytical research in plant development. <i>American Journal of Botany</i> , 1996, 83, 1647-1660.	1.7	30
17	Auxin Metabolism in Representative Land Plants. <i>American Journal of Botany</i> , 1995, 82, 1514.	1.7	30
18	LEAF DIMORPHISM IN THE AQUATIC ANGIOSPERM CALLITRICHE HETEROPHYLLA. <i>American Journal of Botany</i> , 1985, 72, 1377-1387.	1.7	27

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19	Infusing quantitative approaches throughout the biological sciences curriculum. <i>International Journal of Mathematical Education in Science and Technology</i> , 2013, 44, 817-833.	1.4	24
20	Causal Mechanisms of Leaf Dimorphism in the Aquatic Angiosperm <i>Callitriche heterophylla</i> . <i>American Journal of Botany</i> , 1984, 71, 319.	1.7	23
21	Morphological kinetics and distribution in somatic embryo cultures. <i>Biotechnology and Bioengineering</i> , 1994, 44, 368-378.	3.3	21
22	Uptake and metabolism of benzyladenine during shoot organogenesis in <i>Petunia</i> leaf explants. <i>Plant Growth Regulation</i> , 1992, 11, 105-114.	3.4	19
23	Genetic analysis of somatic embryogenesis in carrot cell culture: Initial characterization of six classes of temperature-sensitive variants. <i>Genesis</i> , 1988, 9, 49-67.	2.1	18
24	The Characterization of Axenic Culture Systems Suitable for Plant Propagation and Experimental Studies of the Submersed Aquatic Angiosperm <i>Potamogeton pectinatus</i> (Sago Pondweed). <i>Estuaries and Coasts</i> , 1991, 14, 57.	1.7	16
25	Effect of cultivation age and embryo size on specific oxygen uptake rate in developing somatic embryos of <i>Daucus carota</i> L.. <i>Biotechnology Letters</i> , 1992, 14, 701-706.	2.2	16
26	Population and biomass kinetics in fed-batch cultures of <i>Daucus carota</i> L. somatic embryos. <i>Biotechnology and Bioengineering</i> , 1993, 41, 811-818.	3.3	16
27	Did auxin play a crucial role in the evolution of novel body plans during the Late Silurian-Early Devonian radiation of land plants?. , 2004, , 85-107.		16
28	Leaf Dimorphism in the Aquatic Angiosperm <i>Callitriche heterophylla</i> . <i>American Journal of Botany</i> , 1985, 72, 1377.	1.7	16
29	PHOTOBIOLOGICAL CHARACTERIZATION OF A SPORE GERMINATION MUTANT <i>dkgl</i> WITH REVERSED PHOTOREGULATION IN THE FERN <i>Ceratopteris richardii</i> . <i>Photochemistry and Photobiology</i> , 1993, 57, 1032-1041.	2.5	14
30	The Role of Auxin in Plant Embryogenesis. <i>Plant Cell</i> , 1993, 5, 1494.	6.6	14
31	Do Fibonacci numbers reveal the involvement of geometrical imperatives or biological interactions in phyllotaxis?. <i>Botanical Journal of the Linnean Society</i> , 2006, 150, 3-24.	1.6	13
32	An evaluation of gene expression during somatic embryogenesis of two temperature-sensitive carrot variants unable to complete embryo development. <i>Physiologia Plantarum</i> , 1991, 82, 498-504.	5.2	12
33	An advanced image analysis system for evaluation of somatic embryo development. , 1996, 50, 65-72.		10
34	The Genius of Wilhelm Hofmeister: The Origin of Causal-Analytical Research in Plant Development. <i>American Journal of Botany</i> , 1996, 83, 1647.	1.7	10
35	Initial events in the tip-swelling response of the filamentous gametophyte of <i>Onoclea sensibilis</i> L. to blue light. <i>Planta</i> , 1983, 159, 300-307.	3.2	8
36	Evolutionary patterns in auxin action. , 2002, , 319-338.		8

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37	Formulation of a morphogenetic model for embryo development in dicotyledonous plants. Journal of Theoretical Biology, 1992, 157, 221-241.	1.7	5
38	Spectral approach to population dynamics of carrot somatic embryos. Journal of Bioscience and Bioengineering, 1996, 81, 445-452.	0.9	5
39	Application of image analysis to fed-batch cultures of somatic embryos. In Vitro Cellular and Developmental Biology - Plant, 1996, 32, 190-198.	2.1	4
40	Probing the morphological developmental path of plant embryos by image tracking. , 1998, 60, 425-433.		3
41	Understanding How Students Use Physical Ideas in Introductory Biology Courses. , 2010, , .		2
42	Stable isotope techniques for the analysis of indole auxin metabolism in normal and mutant plants. Current Plant Science and Biotechnology in Agriculture, 1992, , 859-873.	0.0	0