

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	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
2	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
3	Understanding How Students Use Physical Ideas in Introductory Biology Courses. , 2010, , .		2
4	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
5	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
6	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
7	An auxin surge following fertilization in carrots: a mechanism for regulating plant totipotency. <i>Planta</i> , 2002, 214, 505-509.	3.2	67
8	Evolutionary patterns in auxin action. <i>Plant Molecular Biology</i> , 2002, 49, 319-338.	3.9	157
9	Title is missing!. <i>Plant Growth Regulation</i> , 2002, 36, 201-207.	3.4	47
10	Evolutionary patterns in auxin action. , 2002, , 319-338.		8
11	Evolutionary patterns in auxin action. <i>Plant Molecular Biology</i> , 2002, 49, 319-38.	3.9	65
12	Evolutionary Patterns in the Auxin Metabolism of Green Plants. <i>International Journal of Plant Sciences</i> , 2000, 161, 849-859.	1.3	61
13	Auxin metabolism in mosses and liverworts. <i>American Journal of Botany</i> , 1999, 86, 1544-1555.	1.7	60
14	Probing the morphological developmental path of plant embryos by image tracking. , 1998, 60, 425-433.		3
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	Spectral approach to population dynamics of carrot somatic embryos. <i>Journal of Bioscience and Bioengineering</i> , 1996, 81, 445-452.	0.9	5
18	Application of image analysis to fed-batch cultures of somatic embryos. <i>In Vitro Cellular and Developmental Biology - Plant</i> , 1996, 32, 190-198.	2.1	4

#	ARTICLE	IF	CITATIONS
19	An advanced image analysis system for evaluation of somatic embryo development. , 1996, 50, 65-72.		10
20	The Genius of Wilhelm Hofmeister: The Origin of Causal-Analytical Research in Plant Development. American Journal of Botany, 1996, 83, 1647.	1.7	10
21	Auxin metabolism in representative land PLANTS. American Journal of Botany, 1995, 82, 1514-1521.	1.7	72
22	Auxin Metabolism in Representative Land Plants. American Journal of Botany, 1995, 82, 1514.	1.7	30
23	Morphological kinetics and distribution in somatic embryo cultures. Biotechnology and Bioengineering, 1994, 44, 368-378.	3.3	21
24	Population and biomass kinetics in fed-batch cultures of <i>Daucus carota</i> L. somatic embryos. Biotechnology and Bioengineering, 1993, 41, 811-818.	3.3	16
25	PHOTOBIOLOGICAL CHARACTERIZATION OF A SPORE GERMINATION MUTANT <i>dkg1</i> WITH REVERSED PHOTOREGULATION IN THE FERN <i>Ceratopteris richardii</i> . Photochemistry and Photobiology, 1993, 57, 1032-1041.	2.5	14
26	The Role of Auxin in Plant Embryogenesis. Plant Cell, 1993, 5, 1494.	6.6	14
27	Regulation of Indole-3-Acetic Acid Biosynthetic Pathways in Carrot Cell Cultures. Plant Physiology, 1992, 100, 1346-1353.	4.8	198
28	Uptake and metabolism of benzyladenine during shoot organogenesis in <i>Petunia</i> leaf explants. Plant Growth Regulation, 1992, 11, 105-114.	3.4	19
29	Formulation of a morphogenetic model for embryo development in dicotyledonous plants. Journal of Theoretical Biology, 1992, 157, 221-241.	1.7	5
30	Effect of cultivation age and embryo size on specific oxygen uptake rate in developing somatic embryos of <i>Daucus carota</i> L.. Biotechnology Letters, 1992, 14, 701-706.	2.2	16
31	Auxin levels at different stages of carrot somatic embryogenesis. Phytochemistry, 1992, 31, 1097-1103.	2.9	192
32	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
33	An evaluation of gene expression during somatic embryogenesis of two temperature-sensitive carrot variants unable to complete embryo development. Physiologia Plantarum, 1991, 82, 498-504.	5.2	12
34	The Characterization of Axenic Culture Systems Suitable for Plant Propagation and Experimental Studies of the Submersed Aquatic Angiosperm <i>Potamogeton pectinatus</i> (Sago Pondweed). Estuaries and Coasts, 1991, 14, 57.	1.7	16
35	Genetic analysis of somatic embryogenesis in carrot cell culture: Initial characterization of six classes of temperature-sensitive variants. Genesis, 1988, 9, 49-67.	2.1	18
36	Unusual patterns of somatic embryogenesis in the domesticated carrot: developmental effects of exogenous auxins and auxin transport inhibitors. Cell Differentiation, 1987, 21, 53-62.	0.4	162

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37	LEAF DIMORPHISM IN THE AQUATIC ANGIOSPERM CALLITRICHE HETEROPHYLLA. American Journal of Botany, 1985, 72, 1377-1387.	1.7	27
38	A geometric analysis of somatic embryo formation in carrot cell cultures. Canadian Journal of Botany, 1985, 63, 1573-1578.	1.1	54
39	Leaf Dimorphism in the Aquatic Angiosperm Callitriche heterophylla. American Journal of Botany, 1985, 72, 1377.	1.7	16
40	CAUSAL MECHANISMS OF LEAF DIMORPHISM IN THE AQUATIC ANGIOSPERM CALLITRICHE HETEROPHYLLA. American Journal of Botany, 1984, 71, 319-329.	1.7	32
41	Causal Mechanisms of Leaf Dimorphism in the Aquatic Angiosperm Callitriche heterophylla. American Journal of Botany, 1984, 71, 319.	1.7	23
42	Initial events in the tip-swelling response of the filamentous gametophyte of <i>Onoclea sensibilis</i> L. to blue light. Planta, 1983, 159, 300-307.	3.2	8