

Udo Blum

List of Publications by Year in descending order

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79
papers

3,146
citations

101543

36
h-index

168389

53
g-index

79
all docs

79
docs citations

79
times ranked

1263
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial populations and phenolic acids in soil. <i>Soil Biology and Biochemistry</i> , 1988, 20, 793-800.	8.8	193
2	Title is missing!. <i>Journal of Chemical Ecology</i> , 1998, 24, 685-708.	1.8	174
3	Evidence for Inhibitory Allelopathic Interactions Involving Phenolic Acids in Field Soils: Concepts vs. an Experimental Model. <i>Critical Reviews in Plant Sciences</i> , 1999, 18, 673-693.	5.7	171
4	Allelopathic Potential of Legume Debris and Aqueous Extracts. <i>Weed Science</i> , 1989, 37, 674-679.	1.5	151
5	Evidence for Inhibitory Allelopathic Interactions Involving Phenolic Acids in Field Soils: Concepts vs. an Experimental Model. <i>Critical Reviews in Plant Sciences</i> , 1999, 18, 673-693.	5.7	144
6	Title is missing!. <i>Journal of Chemical Ecology</i> , 2000, 26, 2059-2078.	1.8	103
7	Short-term Effects of Ferulic Acid on Ion Uptake and Water Relations in Cucumber Seedlings. <i>Journal of Experimental Botany</i> , 1992, 43, 649-655.	4.8	80
8	Effects of ferulic acid, an allelopathic compound, on net P, K, and water uptake by cucumber seedlings in a split-root system. <i>Journal of Chemical Ecology</i> , 1990, 16, 2429-2439.	1.8	78
9	Modification of allelopathic effects of p-coumaric acid on morning-glory seedling biomass by glucose, methionine, and nitrate. <i>Journal of Chemical Ecology</i> , 1993, 19, 2791-2811.	1.8	74
10	Allelopathic substances in ecosystems. <i>Journal of Chemical Ecology</i> , 1983, 9, 1185-1201.	1.8	73
11	Relationships between Phenolic Acid Concentrations, Transpiration, Water Utilization, Leaf Area Expansion, and Uptake of Phenolic Acids: Nutrient Culture Studies. <i>Journal of Chemical Ecology</i> , 2005, 31, 1907-1932.	1.8	72
12	Effects of various mixtures of ferulic acid and some of its microbial metabolic products on cucumber leaf expansion and dry matter in nutrient culture. <i>Journal of Chemical Ecology</i> , 1985, 11, 619-641.	1.8	69
13	Effects of exogenously applied ferulic acid, a potential allelopathic compound, on leaf growth, water utilization, and endogenous abscisic acid levels of tomato, cucumber, and bean. <i>Journal of Chemical Ecology</i> , 1991, 17, 865-886.	1.8	69
14	Inhibition and recovery of cucumber roots given multiple treatments of ferulic acid in nutrient culture. <i>Journal of Chemical Ecology</i> , 1989, 15, 917-928.	1.8	67
15	Differential Sorption of Exogenously Applied Ferulic, p-Coumaric, p-Hydroxybenzoic, and Vanillic Acids in Soil. <i>Soil Science Society of America Journal</i> , 1989, 53, 757-762.	2.2	66
16	Effects of ferulic acid, an allelopathic compound, on leaf expansion of cucumber seedlings grown in nutrient culture. <i>Journal of Chemical Ecology</i> , 1985, 11, 279-301.	1.8	65
17	Effects of mixtures of four phenolic acids on leaf area expansion of cucumber seedlings grown in Portsmouth B1 soil materials. <i>Journal of Chemical Ecology</i> , 1991, 17, 29-40.	1.8	64
18	Plant Phenolic Acids in Soils: A Comparison of Extraction Procedures. <i>Soil Science Society of America Journal</i> , 1987, 51, 1515-1521.	2.2	62

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19	Effects of mixtures of phenolic acids on phosphorus uptake by cucumber seedlings. <i>Journal of Chemical Ecology</i> , 1990, 16, 2559-2567.	1.8	62
20	Influence of Phenolic acids on microbial populations in the rhizosphere of cucumber. <i>Journal of Chemical Ecology</i> , 1991, 17, 369-389.	1.8	62
21	Effects of ferulic acid and some of its microbial metabolic products on radicle growth of cucumber. <i>Journal of Chemical Ecology</i> , 1984, 10, 1169-1191.	1.8	60
22	Effects of ferulic and p-coumaric acids in nutrient culture of cucumber leaf expansion as influenced by pH. <i>Journal of Chemical Ecology</i> , 1985, 11, 1567-1582.	1.8	60
23	Differential Inhibition by Ferulic Acid of Nitrate and Ammonium Uptake in <i>Zea mays</i> L. <i>Plant Physiology</i> , 1992, 98, 639-645.	4.8	60
24	Evaluation of Ferulic Acid Uptake as a Measurement of Allelochemical Dose: Effective Concentration. <i>Journal of Chemical Ecology</i> , 1999, 25, 2585-2600.	1.8	57
25	Allelopathic activity in wheat-conventional and wheat-no-till soils: Development of soil extract bioassays. <i>Journal of Chemical Ecology</i> , 1992, 18, 2191-2221.	1.8	56
26	Inhibition of Symbiotic Nitrogen-Fixation by Gallic and Tannic Acid, and Possible Roles in Old-Field Succession. <i>Bulletin of the Torrey Botanical Club</i> , 1969, 96, 531.	0.6	55
27	The uptake of ferulic and p-hydroxybenzoic acids by <i>Cucumis sativus</i> . <i>Phytochemistry</i> , 1987, 26, 2959-2964.	2.9	55
28	Influence of various soil factors on the effects of ferulic acid on leaf expansion of cucumber seedlings. <i>Plant and Soil</i> , 1987, 98, 111-130.	3.7	52
29	Effects of clover and small grain cover crops and tillage techniques on seedling emergence of some dicotyledonous weed species. <i>Renewable Agriculture and Food Systems</i> , 1997, 12, 146-161.	0.5	49
30	Effects of Ozone on Soybean Nodules. <i>Journal of Environmental Quality</i> , 1973, 2, 341-342.	2.0	45
31	STRESS MODIFICATION OF ALLELOPATHY OF <i>HELIANTHUS ANNUUS</i> L. DEBRIS ON SEED GERMINATION. <i>American Journal of Botany</i> , 1982, 69, 776-783.	1.7	45
32	Benefits of Citrate Over EDTA for Extracting Phenolic Acids from Soils and Plant Debris. <i>Journal of Chemical Ecology</i> , 1997, 23, 347-362.	1.8	45
33	Effects of mixtures of phenolic acids on leaf area expansion of cucumber seedlings grown in different pH portsmouth A1 soil materials. <i>Journal of Chemical Ecology</i> , 1989, 15, 2413-2423.	1.8	44
34	Stress modification of allelopathy of <i>Helianthus annuus</i> L. debris on seedling biomass production of <i>Amaranthus retroflexus</i> L.. <i>Journal of Chemical Ecology</i> , 1983, 9, 1213-1222.	1.8	42
35	Simultaneous effects of ferulic and p-coumaric acids on cucumber leaf expansion in split-root experiments. <i>Journal of Chemical Ecology</i> , 1994, 20, 1773-1782.	1.8	41
36	Inhibition of cucumber leaf expansion by ferulic acid in split-root experiments. <i>Journal of Chemical Ecology</i> , 1990, 16, 455-463.	1.8	39

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37	Interrelationships between p-Coumaric Acid, Evapotranspiration, Soil Water Content, and Leaf Expansion. <i>Journal of Chemical Ecology</i> , 2006, 32, 1817-1834.	1.8	36
38	Plant-Plant Allelopathic Interactions. , 2011, , .		36
39	The utilization of exogenously supplied ferulic acid in lignin biosynthesis. <i>Phytochemistry</i> , 1987, 26, 2977-2982.	2.9	34
40	Can simultaneous inhibition of seedling growth and stimulation of rhizosphere bacterial populations provide evidence for phytotoxin transfer from plant residues in the bulk soil to the rhizosphere of sensitive species?. <i>Journal of Chemical Ecology</i> , 2001, 27, 807-829.	1.8	34
41	SEX RATIO OF <i>RUMEX HASTATULUS</i> : THE EFFECT OF ENVIRONMENTAL FACTORS AND CERTATION. Evolution; <i>International Journal of Organic Evolution</i> , 1981, 35, 1108-1116.	2.3	33
42	Stress Modification of Allelopathy of <i>Helianthus annuus</i> L. Debris on Seed Germination. <i>American Journal of Botany</i> , 1982, 69, 776.	1.7	31
43	Effects of O ₃ and (or) fescue on ladino clover: interactions. <i>Canadian Journal of Botany</i> , 1980, 58, 241-249.	1.1	27
44	Statistical analysis of the joint inhibitory action of similar compounds. <i>Journal of Chemical Ecology</i> , 1989, 15, 2403-2412.	1.8	26
45	Effects of soil nitrogen level on ferulic acid inhibition of cucumber leaf expansion. <i>Journal of Chemical Ecology</i> , 1990, 16, 1371-1383.	1.8	24
46	The Value of Model Plant-Microbe-Soil Systems for Understanding Processes Associated with Allelopathic Interaction. <i>ACS Symposium Series</i> , 1994, , 127-131.	0.5	21
47	Title is missing!. <i>Journal of Chemical Ecology</i> , 1999, 25, 1517-1529.	1.8	21
48	Photosynthesis and Respiration of <i>Spartina</i> and <i>Juncus</i> Salt Marshes in North Carolina: Some Models. <i>Estuaries and Coasts</i> , 1978, 1, 228.	1.7	20
49	Plant-Plant Allelopathic Interactions II. , 2014, , .		18
50	The effects of ozone and nitrogen fertilizer on tall fescue, ladino clover, and a fescue-clover mixture. I. Growth, regrowth, and forage production. <i>Canadian Journal of Botany</i> , 1982, 60, 2745-2752.	1.1	15
51	RESPONSE TO PHOTOPERIOD AND TEMPERATURE BY <i>SPARTINA ALTERNIFLORA</i> (POACEAE) FROM NORTH CAROLINA AND <i>SPARTINA FOLIOSA</i> FROM CALIFORNIA. <i>American Journal of Botany</i> , 1984, 71, 91-99.	1.7	15
52	Modification of an inhibition curve to account for effects of a second compound. <i>Journal of Chemical Ecology</i> , 1993, 19, 2783-2790.	1.8	14
53	EFFECTS OF SINGLE AND MULTIPLE EXPOSURES OF FERULIC ACID ON THE VEGETATIVE AND REPRODUCTIVE GROWTH OF <i>PHASEOLUS VULGARIS</i> BBL. <i>American Journal of Botany</i> , 1987, 74, 1635-1645.	1.7	12
54	Plant-Plant Allelopathic Interaction. Phase II: Field/Laboratory Experiments. , 2011, , 85-149.		5

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55	Response to Photoperiod and Temperature by <i>Spartina alterniflora</i> (Poaceae) from North Carolina and <i>Spartina folisa</i> from California. <i>American Journal of Botany</i> , 1984, 71, 91.	1.7	3
56	Simple Phenolic Acids in Solution Culture II: Log P, Log D and Molecular Structure. , 2019, , 115-153.		2
57	Background for Designing Laboratory Bioassays. , 2014, , 1-29.		2
58	Some Issues and Challenges When Designing Laboratory Bioassays. , 2014, , 77-129.		2
59	Hypothetical Cause and Effect Bioassays. , 2014, , 237-272.		2
60	Characterization of Vacuolar Bodies in <i>Spartina alterniflora</i> : I. Formation, Development, Morphology, and Ultrastructure. <i>American Journal of Botany</i> , 1977, 64, 635.	1.7	1
61	Plant-Plant Allelopathic Interactions. Phase I: The Laboratory. , 2011, , 9-84.		1
62	Effects, Modifiers, and Modes of Action of Allelopathic Compounds Using Phenolic Acids as Model Compounds. , 2014, , 185-235.		1
63	Simple Phenolic Acids in Solution Culture I: pH and pKa. , 2019, , 71-113.		1
64	Hypothetical Solution-Culture System Sub-Models. , 2019, , 239-280.		1
65	Simple Phenolic Acids in Soil Culture I: Sorption, Kd and Koc. , 2019, , 155-196.		1
66	Quantitative Hypothetical System Models for Cecil Soil-Sand Systems. , 2019, , 345-405.		1
67	Quantitative Hypothetical System Model for a Portsmouth B Horizon Soil-Sand System. , 2019, , 407-449.		1
68	Simple Phenolic Acids in Soil Culture II: Biological Processes in Soil. , 2019, , 197-238.		1
69	CHARACTERIZATION OF VACUOLAR BODIES IN SPARTINA ALTERNIFLORA: I. FORMATION, DEVELOPMENT, MORPHOLOGY, AND ULTRASTRUCTURE. <i>American Journal of Botany</i> , 1977, 64, 635-640.	1.7	0
70	CHARACTERIZATION OF VACUOLAR BODIES IN SPARTINA ALTERNIFLORA: II. SOME PHYSICAL AND CHEMICAL PROPERTIES. <i>American Journal of Botany</i> , 1977, 64, 641-648.	1.7	0
71	Hypothetical Standard Screening Bioassays. , 2014, , 131-184.		0
72	General Background for Plant-Plant Allelopathic Interactions. , 2019, , 27-48.		0

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73	Reflections Regarding Plant-Plant Interactions, Communications and Allelopathic Interactions with an Emphasis on Allelopathic Interactions. , 2019, , 1-26.		0
74	Phase III: Summing Up. , 2011, , 151-190.		0
75	Introduction to the Fundamentals of Laboratory Bioassays. , 2014, , 31-76.		0
76	Laboratory Model Systems and Field Systems: Some Final Thoughts. , 2014, , 273-300.		0
77	Conceptual Models for the Input and Partitioning of Organic Compounds in Seedling-Microbe-Soil Systems and Physicochemical Properties of Organic Compounds with an Emphasis on Phenolic Acids. , 2019, , 49-70.		0
78	Epilog: Assumptions, Models, Hypotheses and Conclusions. , 2019, , 451-485.		0
79	Hypothetical Soil-Culture System Sub-Models. , 2019, , 281-343.		0