

Dirk E Maier

List of Publications by Year in descending order

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46
papers

1,368
citations

361413

20
h-index

345221

36
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48
all docs

48
docs citations

48
times ranked

1150
citing authors

#	ARTICLE	IF	CITATIONS
1	Siloâ€“dryerâ€“aerator in fixed and thick layer conceptualized for high quality of grains applied in different social scales post-harvest: modeling and validation. <i>Drying Technology</i> , 2022, 40, 1369-1394.	3.1	13
2	Preliminary sampling of aflatoxin M1 contamination in raw milk from dairy farms using feed ingredients from Rwanda. <i>Mycotoxin Research</i> , 2022, , 1.	2.3	0
3	Effect of Temperature Sensor Numbers and Placement on Aeration Cooling of a Stored Grain Mass Using a 3D Finite Element Model. <i>Agriculture (Switzerland)</i> , 2021, 11, 231.	3.1	6
4	Cytotoxicity assessment of Aflatoxin B1 after high voltage atmospheric cold plasma treatment. <i>Toxicon</i> , 2021, 194, 17-22.	1.6	14
5	Techno-Economic Analysis of a Crossflow Column Dryer for Maize Drying in Ghana. <i>Agriculture (Switzerland)</i> , 2021, 11, 568.	3.1	4
6	Mango Postharvest Technologies: An Observational Study of the Yieldwise Initiative in Kenya. <i>Agriculture (Switzerland)</i> , 2021, 11, 623.	3.1	3
7	Toxigenic mycoflora, aflatoxin and fumonisin contamination of poultry feeds in Ghana. <i>Toxicon</i> , 2021, 198, 164-170.	1.6	12
8	Evaluation of stirring to suppress weevils in stored maize. <i>Journal of Stored Products Research</i> , 2021, 93, 101849.	2.6	0
9	Recent Innovations in Post-Harvest Preservation and Protection of Agricultural Products. <i>Agriculture (Switzerland)</i> , 2021, 11, 1275.	3.1	2
10	Assessment of Aflatoxin and Fumonisin Contamination and Associated Risk Factors in Feed and Feed Ingredients in Rwanda. <i>Toxins</i> , 2019, 11, 270.	3.4	25
11	Chilled Aeration to Control Pests and Maintain Grain Quality during Summer Storage of Wheat in the North Central Region of Kansas. <i>Applied Engineering in Agriculture</i> , 2019, 35, 657-688.	0.7	7
12	CFD simulation of corn drying in a natural convection solar dryer. <i>Drying Technology</i> , 2018, 36, 859-870.	3.1	70
13	Developing and verifying a fumigant loss model for bulk stored grain to predict phosphine concentrations by taking into account fumigant leakage and sorption. <i>Journal of Stored Products Research</i> , 2018, 77, 197-204.	2.6	11
14	Drying Temperature Effect on Kernel Damage and Viability of Maize Dried in a Solar Biomass Hybrid Dryer. <i>Open Journal of Applied Sciences</i> , 2018, 08, 506-517.	0.4	5
15	DON Occurrence in Grains: A North American Perspective. <i>Cereal Foods World</i> , 2015, 60, 32-56.	0.2	56
16	Applications of Discrete Element Method in Modeling of Grain Postharvest Operations. <i>Food Engineering Reviews</i> , 2014, 6, 128-149.	5.9	91
17	Half-life time of ozone as a function of air movement and conditions in a sealed container. <i>Journal of Stored Products Research</i> , 2013, 55, 41-47.	2.6	68
18	Impact of various storage conditions on enzymatic activity, biomass components and conversion to ethanol yields from sorghum biomass used as a bioenergy crop. <i>Bioresource Technology</i> , 2013, 132, 269-275.	9.6	15

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19	Development and validation of a headspace model for a stored grain silo filled to its eave. Journal of Stored Products Research, 2012, 49, 176-183.	2.6	4
20	Gas leakage and distribution characteristics of methyl bromide and sulfuryl fluoride during fumigations in a pilot flour mill. Journal of Stored Products Research, 2012, 50, 1-7.	2.6	12
21	Investigation of fumigant efficacy in flour mills under real-world fumigation conditions. Journal of Stored Products Research, 2011, 47, 179-184.	2.6	8
22	Ozone application in a modified screw conveyor to treat grain for insect pests, fungal contaminants, and mycotoxins. Journal of Stored Products Research, 2011, 47, 249-254.	2.6	69
23	Experimental and theoretical analysis of a novel deep-bed solid-state bioreactor for cellulolytic enzymes production. Biochemical Engineering Journal, 2011, 58-59, 110-123.	3.6	13
24	Three-dimensional airflow distribution in a maize silo with peaked, levelled and cored grain mass configurations. Biosystems Engineering, 2011, 110, 321-329.	4.3	30
25	Hybrid mixture theory based moisture transport and stress development in corn kernels during drying: Validation and simulation results. Journal of Food Engineering, 2011, 106, 275-282.	5.2	46
26	Use of a Stakeholder-Driven DACUM Process to Define Knowledge Areas for Food Protection and Defense. Journal of Homeland Security and Emergency Management, 2011, 8, .	0.5	4
27	Testing the performance and compatibility of degummed soybean heating oil blends for use in residential furnaces. Fuel, 2010, 89, 105-113.	6.4	14
28	The effect of process variables during drying on the physical and chemical characteristics of corn dried distillers grains with solubles (DDGS) – Plant scale experiments. Bioresource Technology, 2010, 101, 193-199.	9.6	85
29	Effects of weather conditions on sulfuryl fluoride and methyl bromide leakage during structural fumigation in a flour mill. Journal of Stored Products Research, 2009, 45, 1-9.	2.6	13
30	Modeling of moisture diffusivities for components of yellow-dent corn kernels. Journal of Cereal Science, 2009, 50, 82-90.	3.7	27
31	Development and validation of Computational Fluid Dynamics models for precision structural fumigation. Journal of Stored Products Research, 2008, 44, 11-20.	2.6	12
32	Does On-Farm Quality Assurance Pay? A Cost-Benefit Analysis of the <i>Grainsafe</i> Program. Journal of Agricultural & Applied Economics, 2007, 39, 541-556.	1.4	1
33	Evaluation of spinosad as a grain protectant on three Kansas farms. Crop Protection, 2007, 26, 1021-1030.	2.1	48
34	Evaluation of different temperature management strategies for suppression of Sitophilus zeamais (Motschulsky) in stored maize. Journal of Stored Products Research, 2007, 43, 480-488.	2.6	31
35	Effect of viscoelastic relaxation on moisture transport in foods. Part I: Solution of general transport equation. Journal of Mathematical Biology, 2004, 49, 1-19.	1.9	27
36	Effect of viscoelastic relaxation on moisture transport in foods. Part II: Sorption and drying of soybeans. Journal of Mathematical Biology, 2004, 49, 20-34.	1.9	35

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37	Thermomechanics of Swelling Biopolymeric Systems. <i>Transport in Porous Media</i> , 2003, 53, 1-24.	2.6	20
38	Multiscale fluid transport theory for swelling biopolymers. <i>Chemical Engineering Science</i> , 2003, 58, 2409-2419.	3.8	61
39	Three scale thermomechanical theory for swelling biopolymeric systems. <i>Chemical Engineering Science</i> , 2003, 58, 4017-4035.	3.8	34
40	Efficacy and fumigation characteristics of ozone in stored maize. <i>Journal of Stored Products Research</i> , 2001, 37, 371-382.	2.6	203
41	Impact of Aeration on Maize Weevil (Coleoptera: Curculionidae) Populations in Corn Stored in the Northern United States: Simulation Studies. <i>American Entomologist</i> , 2001, 47, 104-111.	0.2	25
42	Chilling of Grain by Refrigerated Air. , 2001, , .		1
43	A post-harvest economic model to evaluate grain chilling as an IPM technology. <i>Journal of Stored Products Research</i> , 1999, 35, 369-383.	2.6	20
44	Feasibility of Aeration for Management of Maize Weevil Populations in Corn Stored in the Southern United States: Model Simulations Based on Recorded Weather Data. <i>American Entomologist</i> , 1998, 44, 118-123.	0.2	34
45	Temperature management of the maize weevil, <i>Sitophilus zeamais</i> Motsch. (Coleoptera: Curculionidae), in three locations in the United States. <i>Journal of Stored Products Research</i> , 1996, 32, 255-273.	2.6	49
46	The counterflow cooling of feed pellets. <i>Biosystems Engineering</i> , 1992, 53, 305-319.	0.4	18