Zhi-Wei Wang

List of Publications by Year
in descending order

84 papers	1,179 citations	361413 20 h-index	552781 26 g-index
86 all docs	86 docs citations	86 times ranked	780 citing authors

#	ARTICLE	IF	CITATIONS
1	Release of Thymol, Cinnamaldehyde and Vanillin from Soy Protein Isolate Films into Olive Oil. Packaging Technology and Science, 2012, 25, 97-106.	2.8	42
2	Study of the Migration of Stabilizer and Plasticizer from Polyethylene Terephthalate into Food Simulants. Journal of Chromatographic Science, 2016, 54, 939-951.	1.4	40
3	Experimental investigation into the cushioning properties of honeycomb paperboard. Packaging Technology and Science, 2008, 21, 309-316.	2.8	36
4	Three-Dimensional Shock Spectrum of Critical Component for Nonlinear Packaging System. Shock and Vibration, 2011, 18, 437-445.	0.6	36
5	Modelling the respiration rate of guava (Psidium guajava L.) fruit using enzyme kinetics, chemical kinetics and artificial neural network. European Food Research and Technology, 2009, 229, 495-503.	3.3	35
6	Determination of Polymer Additives-Antioxidants, Ultraviolet Stabilizers, Plasticizers and Photoinitiators in Plastic Food Package by Accelerated Solvent Extraction Coupled with High-Performance Liquid Chromatography. Journal of Chromatographic Science, 2015, 53, 1026-1035.	1.4	35
7	On evaluation of product dropping damage. Packaging Technology and Science, 2002, 15, 115-120.	2.8	27
8	Energy absorption diagrams of paper honeycomb sandwich structures. Packaging Technology and Science, 2009, 22, 63-67.	2.8	27
9	Dropping damage evaluation for a hyperbolic tangent cushioning system with a critical component. JVC/Journal of Vibration and Control, 2012, 18, 1417-1421.	2.6	27
10	Influence of factors on release of antimicrobials from antimicrobial packaging materials. Critical Reviews in Food Science and Nutrition, 2018, 58, 1108-1121.	10.3	26
11	Plateau stress of paper honeycomb as response to various relative humidities. Packaging Technology and Science, 2010, 23, 203-216.	2.8	25
12	Shock spectra and damage boundary curves for non-linear package cushioning systems. Packaging Technology and Science, 1999, 12, 207-217.	2.8	24
13	Measurement and analysis of vibration levels for express logistics transportation in South China. Packaging Technology and Science, 2018, 31, 665-678.	2.8	24
14	Critical buckling load of paper honeycomb under out-of-plane pressure. Packaging Technology and Science, 2005, 18, 141-150.	2.8	23
15	Effects of Temperature on Release of Eugenol and Isoeugenol from Soy Protein Isolate Films into Simulated Fatty Food. Packaging Technology and Science, 2012, 25, 485-492.	2.8	23
16	Dropping damage boundary curves for cubic and tangent package cushioning systems. Packaging Technology and Science, 2002, 15, 263-266.	2.8	22
17	Effect of antioxidants and light stabilisers on silver migration from nanosilver-polyethylene composite packaging films into food simulants. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2015, 32, 1561-1566.	2.3	22
18	Evaluation of product dropping damage based on key component. Packaging Technology and Science, 2010, 23, 227-238.	2.8	21

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19	Molecular dynamics simulation on diffusion of 13 kinds of small molecules in polyethylene terephthalate. Packaging Technology and Science, 2010, 23, 457-469.	2.8	21
20	Properties of low methoxyl pectinâ€carboxymethyl cellulose based on montmorillonite nanocomposite films. International Journal of Food Science and Technology, 2014, 49, 2592-2601.	2.7	21
21	Migration of styrene and ethylbenzene from virgin and recycled expanded polystyrene containers and discrimination of these two kinds of polystyrene by principal component analysis. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2017, 34, 126-132.	2.3	21
22	Dynamic Performance of Stacked Packaging Units. Packaging Technology and Science, 2016, 29, 491-511.	2.8	20
23	A systematic study on the stability of UV ink photoinitiators in food simulants using GC. Packaging Technology and Science, 2009, 22, 151-159.	2.8	19
24	Investigation in Influence of Types of Polypropylene Material on Diffusion by Using Molecular Dynamics Simulation. Packaging Technology and Science, 2012, 25, 329-339.	2.8	19
25	Dropping Damage Boundary Curves for Cubic and Hyperbolic Tangent Packaging Systems Based on Key Component. Packaging Technology and Science, 2012, 25, 397-411.	2.8	19
26	Effect of organic additives on silver release from nanosilverâ€"polyethylene composite films to acidic food simulant. Food Chemistry, 2017, 228, 560-566.	8.2	19
27	In-plane elasticity of the re-entrant auxetic hexagonal honeycomb with hollow-circle joint. Aerospace Science and Technology, 2022, 123, 107432.	4.8	19
28	Effect of relative humidity on energy absorption properties of honeycomb paperboards. Packaging Technology and Science, 2010, 23, 471-483.	2.8	18
29	Energy absorption properties of multi-layered corrugated paperboard in various ambient humidities. Materials & Design, 2011, 32, 3476-3485.	5.1	18
30	Mechanical damage of â€˜Huangguanâ€™ pear using different packaging under random vibration. Postharvest Biology and Technology, 2022, 187, 111847.	6.0	18
31	Shock spectra and damage boundary curves for hyperbolic tangent cushioning system and their important features. Packaging Technology and Science, 2001, 14, 149-157.	2.8	17
32	Accelerated Random Vibration Testing of Transport Packaging System Based on Acceleration PSD. Packaging Technology and Science, 2017, 30, 621-643.	2.8	17
33	Degradation of Irgafos 168 and migration of its degradation products from PPâ€R composite films. Packaging Technology and Science, 2018, 31, 679-688.	2.8	17
34	Application of the Inverse Substructure Method in the Investigation of Dynamic Characteristics of Product Transport System. Packaging Technology and Science, 2012, 25, 351-362.	2.8	16
35	Step-by-step decoupling method for inverse substructuring analysis of a three-component coupled packaging system. JVC/Journal of Vibration and Control, 2015, 21, 676-683.	2.6	16
36	Two-phase molecular dynamics model to simulate the migration of additives from polypropylene material to food. International Journal of Heat and Mass Transfer, 2018, 122, 694-706.	4.8	16

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37	On accelerated random vibration testing of product based on component acceleration RMS–life curve. JVC/Journal of Vibration and Control, 2018, 24, 3384-3399.	2.6	16
38	A mathematical modelling of inner-resonance of tangent nonlinear cushioning packaging system with critical components. Mathematical and Computer Modelling, 2011, 54, 2573-2576.	2.0	15
39	Homotopy perturbation method with an auxiliary term for the optimal design of a tangent nonlinear packaging system. Journal of Low Frequency Noise Vibration and Active Control, 2019, 38, 1075-1080.	2.9	15
40	Factors Affecting Migration of Contaminants from Paper through Polymer Coating into Food Simulants. Packaging Technology and Science, 2013, 26, 23-31.	2.8	14
41	Inverse Sub-Structuring Method for Multi-Coordinate Coupled Product Transport System. Packaging Technology and Science, 2014, 27, 385-408.	2.8	14
42	Stress Plateau of Multilayered Corrugated Paperboard in Various Ambient Humidities. Packaging Technology and Science, 2012, 25, 187-202.	2.8	13
43	Dropping shock response of corrugated paperboard cushioning packaging system. JVC/Journal of Vibration and Control, 2013, 19, 336-340.	2.6	12
44	Dynamic Characteristic Analysis of Refrigerator–Truck Transport System by Using Inverse Substructure Method. Packaging Technology and Science, 2014, 27, 883-900.	2.8	12
45	Release of Potassium SORBATE from Pectin- Carboxymethyl Cellulose Films into Food Simulant. Journal of Food Processing and Preservation, 2017, 41, e12860.	2.0	12
46	Molecular Dynamics Simulation on Diffusion of Five Kinds of Chemical Additives in Polypropylene. Packaging Technology and Science, 2018, 31, 277-295.	2.8	12
47	Determination of the partition and diffusion coefficients of five chemical additives from polyethylene terephthalate material in contact with food simulants. Food Packaging and Shelf Life, 2019, 21, 100332.	7.5	12
48	The Statistical Characteristics of Maxima of Contact Force in Stacked Packaging Units under Random Vibration. Packaging Technology and Science, 2018, 31, 261-276.	2.8	11
49	Influence of Low–Intensity Repeated Impacts on Energy Absorption and Vibration Transmissibility of Honeycomb Paperboard. Packaging Technology and Science, 2016, 29, 585-600.	2.8	10
50	Migration of Stabilizers from Polypropylene into Simulated Food. Analytical Letters, 2017, 50, 431-451.	1.8	10
51	Comparison of the ability of UV-Vis and UPLC-Q-TOF-MS combined with chemometrics to discriminate recycled and virgin polyethylene. Journal of Hazardous Materials, 2022, 423, 127165.	12.4	10
52	Energy–Absorbing Properties of Paper Honeycombs under Low and Intermediate Strain Rates. Packaging Technology and Science, 2012, 25, 173-185.	2.8	9
53	Isolation and Identification Carpaine in *Carica papaya* L. Leaf by HPLC-UV Method. International Journal of Food Properties, 2015, 18, 1505-1512.	3.0	9
54	A New Approach for Road–Vehicle Vibration Simulation. Packaging Technology and Science, 2018, 31, 246-260.	2.8	9

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55	Determination of Four Types of Hazardous Chemicals in Food Contact Materials by UHPLC-MS/MS. Packaging Technology and Science, 2015, 28, 461-474.	2.8	8
56	Experimental investigation on bending fatigue failure of corrugated paperboard. Packaging Technology and Science, 2018, 31, 601-609.	2.8	8
57	Comparison study on simulation effect of improved simulation methods for packaging random vibration test. Packaging Technology and Science, 2019, 32, 119-131.	2.8	8
58	Fatigue failure and Grmsâ€"N curve of corrugated paperboard box. JVC/Journal of Vibration and Control, 2020, 26, 1028-1041.	2.6	8
59	Modelling of Migration from Printing Inks on Paper Packaging. Packaging Technology and Science, 2015, 28, 357-366.	2.8	7
60	Influence of jumping phenomenon on response of package under random vibration. Packaging Technology and Science, 2018, 31, 585-599.	2.8	7
61	Investigation of Migration Model of Printing Inks on Paper Packaging. Journal of Food Process Engineering, 2014, 37, 146-159.	2.9	6
62	Study on rhomb shoulders in packaging machines. Packaging Technology and Science, 2004, 17, 287-294.	2.8	5
63	Development of a simple model based on chemical kinetics parameters for predicting respiration rate of carambola fruit. International Journal of Food Science and Technology, 2009, 44, 2153-2160.	2.7	5
64	Development and comparison of multivariate respiration models for fresh papaya (Carica papaya L.) based on regression method and artificial neural network. European Food Research and Technology, 2010, 231, 691-699.	3.3	5
65	Dynamical Behaviors of a Coupled Cushioning Packaging Model with Linear and Nonlinear Stiffness. Arabian Journal for Science and Engineering, 2013, 38, 1625-1629.	1.1	5
66	Investigation of Frequency Response Function of Product-Transport System Based on Multi-coordinate Coupled Inverse Substructure Method. Packaging Technology and Science, 2014, 27, 364-375.	2.8	5
67	Inverse Subâ€Structuring Theory for Coupled Product Transport System Based On the Dummy Masses Method. Packaging Technology and Science, 2016, 29, 189-200.	2.8	5
68	Modeling the Complex Interaction Between Packaged Product and Vehicle. Advanced Science Letters, 2011, 4, 2207-2212.	0.2	5
69	Molecular dynamics simulation of three plastic additivesâ€™ diffusion in polyethylene terephthalate. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2017, 34, 1086-1099.	2.3	4
70	Finite element analysis and experimental investigation of beer bottleâ€turnover boxes transport unit under random vibration excitation. Packaging Technology and Science, 2020, 33, 197-214.	2.8	4
71	Acceleration spectrum analysis of hyperbolic tangent package under random excitation. Packaging Technology and Science, 2021, 34, 579-587.	2.8	4
72	Determination of Titanium in Nano-Titanium(IV) Oxide Composite Food Packaging by Microwave Digestion and Inductively Coupled Plasma Atomic Emission Spectrometry and Inductively Coupled Plasma Mass Spectrometry. Analytical Letters, 2014, 47, 2095-2103.	1.8	3

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73	Investigation on vibration scuffing life curves. Packaging Technology and Science, 2018, 31, 523-531.	2.8	3
74	Modelling multiple impacts on the out‐of‐plane cushioning properties of honeycomb paperboard. Packaging Technology and Science, 2021, 34, 541-556.	2.8	3
75	Inverse Sub‐structuring Method for Rigidly Coupled Product Transport System based on Frequency Response Function Testing Probe Technique. Packaging Technology and Science, 2017, 30, 373-386.	2.8	2
76	Experimental Study of Dynamic Response of Two Layers Stacked Packaging Units of Computers. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2017, 53, 90.	0.5	2
77	Notice of Retraction: The Study of the Higher Education Tuition Fees Standard. , 2010, , .		1
78	He Chengtian's Inequalities for a Coupled Tangent Nonlinear System Arisen in Packaging System. Mathematical Problems in Engineering, 2013, 2013, 1-4.	1.1	1
79	Real-time monitoring system for containers in highway freight based on cloud computing and compressed sensing. , 2017, , .		1
80	Dynamic Response of Asymmetric and Nonlinear Packaging System under Random Excitation. Shock and Vibration, 2020, 2020, 1-17.	0.6	1
81	FEM verification of accelerated vibration test method based on G_{rms}-T curve. Advances in Mechanical Engineering, 2022, 14, 168781322210784.	1.6	1
82	Determination of product fragility and environment parameters based on mathematical statistics in cushioning package design. , 2011, , .		0
83	Inverse Sub-structuring Method for Multi-coordinate Rigidly Coupled Product Transport System based on a Novel Shearing Probe Technique. Packaging Technology and Science, 2017, 30, 601-618.	2.8	0
84	Bending fatigue of single-wall and double-wall corrugated paperboards under sinusoidal and random loads. Journal of Sandwich Structures and Materials, 0, , 109963622110204.	3.5	0