

Frank Welle

List of Publications by Year in descending order

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55
papers

1,862
citations

218677

26
h-index

265206

42
g-index

57
all docs

57
docs citations

57
times ranked

1473
citing authors

#	ARTICLE	IF	CITATIONS
19	A blob model to parameterize polymer hole free volumes and solute diffusion. <i>Soft Matter</i> , 2019, 15, 8912-8932.	2.7	10
20	Migration Testing of Polyethylene Terephthalate: Comparison of Regulated Test Conditions with Migration into Real Food at the End of Shelf Life. <i>Packaging Technology and Science</i> , 2018, 31, 771-780.	2.8	20
21	Microplastic in bottled natural mineral water – literature review and considerations on exposure and risk assessment. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2018, 35, 2482-2492.	2.3	78
22	Migration of Acetaldehyde From PET Bottles Into Natural Mineral Water. , 2018, , .		2
23	Migration of Acetaldehyde Scavengers From PET Bottles. , 2017, , .		1
24	Food Package Testing Authorities and Regulations. , 2017, , 303-332.		0
25	Functional Barrier Performance of a Polyamide-6 Membrane Towards <i>n</i> -Alkanes and 1-Alcohols. <i>Packaging Technology and Science</i> , 2016, 29, 277-287.	2.8	11
26	Investigation into cross-contamination during cleaning efficiency testing in PET recycling. <i>Resources, Conservation and Recycling</i> , 2016, 112, 65-72.	10.8	26
27	Diffusion behaviour of the acetaldehyde scavenger 2-aminobenzamide in polyethylene terephthalate for beverage bottles. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2016, 33, 1-9.	2.3	9
28	How to determine functional barrier performance towards mineral oil contaminants from recycled cardboard. <i>Food Packaging and Shelf Life</i> , 2015, 5, 41-49.	7.5	18
29	Food Law Compliance of Poly(ethylene Terephthalate) (PET) Food Packaging Materials. <i>ACS Symposium Series</i> , 2014, , 167-195.	0.5	16
30	Activation energies of diffusion of organic migrants in cyclo olefin polymer. <i>International Journal of Pharmaceutics</i> , 2014, 473, 510-517.	5.2	13
31	Simulation of the Decontamination Efficiency of PET Recycling Processes based on Solid-State Polycondensation. <i>Packaging Technology and Science</i> , 2014, 27, 141-148.	2.8	10
32	Determination and Prediction of the Lag Times of Hydrocarbons through a Polyethylene Terephthalate Film. <i>Packaging Technology and Science</i> , 2014, 27, 963-974.	2.8	19
33	Is PET bottle-to-bottle recycling safe? Evaluation of post-consumer recycling processes according to the EFSA guidelines. <i>Resources, Conservation and Recycling</i> , 2013, 73, 41-45.	10.8	35
34	Permeation of Mineral Oil Components from Cardboard Packaging Materials through Polymer Films. <i>Packaging Technology and Science</i> , 2013, 26, 423-434.	2.8	31
35	A new method for the prediction of diffusion coefficients in poly(ethylene terephthalate). <i>Journal of Applied Polymer Science</i> , 2013, 129, 1845-1851.	2.6	50
36	Determination of the activation energies of diffusion of organic molecules in poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	2.6	29

#	ARTICLE	IF	CITATIONS
37	Quantification of the Sorption Behavior of Polyethylene Terephthalate Polymer versus PET/PA Polymer Blends towards Organic Compounds. <i>Packaging Technology and Science</i> , 2012, 25, 341-349.	2.8	9
38	Diffusion coefficients and activation energies of diffusion of low molecular weight migrants in Poly(ethylene terephthalate) bottles. <i>Polymer Testing</i> , 2012, 31, 93-101.	4.8	51
39	Migration of antimony from PET bottles into beverages: determination of the activation energy of diffusion and migration modelling compared with literature data. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2011, 28, 115-126.	2.3	92
40	Twenty years of PET bottle to bottle recycling – An overview. <i>Resources, Conservation and Recycling</i> , 2011, 55, 865-875.	10.8	430
41	Investigation into the sorption of nitroglycerin and diazepam into PVC tubes and alternative tube materials during application. <i>International Journal of Pharmaceutics</i> , 2009, 369, 30-37.	5.2	47
42	Migration measurement and modelling from poly(ethylene terephthalate) (PET) into soft drinks and fruit juices in comparison with food simulants. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2008, 25, 1033-1046.	2.3	60
43	SiO ₂ layer as functional barrier in polyethylene terephthalate (PET) bottles against potential contaminants from post-consumer recycled PET. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2008, 25, 788-794.	2.3	15
44	Decontamination efficiency of a new post-consumer poly(ethylene terephthalate) (PET) recycling concept. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2008, 25, 123-131.	2.3	27
45	Recycled plastics and chemical migration into food. , 2007, , 205-227.		2
46	Post-consumer contamination in high-density polyethylene (HDPE) milk bottles and the design of a bottle-to-bottle recycling process. <i>Food Additives and Contaminants</i> , 2005, 22, 999-1011.	2.0	46
47	Intra-oral detection of potent odorants using a modified stir-bar sorptive extraction system in combination with HRGC-O, known as the buccal odour screening system (BOSS). <i>Flavour and Fragrance Journal</i> , 2004, 19, 505-514.	2.6	38
48	Migration and sensory evaluation of irradiated polymers. <i>Radiation Physics and Chemistry</i> , 2004, 71, 205-208.	2.8	28
49	European survey on post-consumer poly(ethylene terephthalate) (PET) materials to determine contamination levels and maximum consumer exposure from food packages made from recycled PET. <i>Food Additives and Contaminants</i> , 2004, 21, 265-286.	2.0	75
50	Effect of Ionizing Radiation on the Migration Behavior and Sensory Properties of Plastic Packaging Materials. <i>ACS Symposium Series</i> , 2004, , 236-261.	0.5	7
51	Recycled poly(ethylene terephthalate) for direct food contact applications: challenge test of an inline recycling process. <i>Food Additives and Contaminants</i> , 2002, 19, 502-511.	2.0	50
52	Migration and sensory changes of packaging materials caused by ionising radiation. <i>Radiation Physics and Chemistry</i> , 2002, 63, 841-844.	2.8	46
53	Moisture management for a successful analysis of polymers with chemical sensor systems. <i>Sensors and Actuators B: Chemical</i> , 2000, 69, 372-378.	7.8	1
54	The effects of ⁶⁰ Co-irradiation on compositional changes in plastic packaging films. <i>Packaging Technology and Science</i> , 1999, 12, 119-130.	2.8	73

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55	Substituenteneffekte auf die C ₁ ;C ₂ -Bindungsstärke, 14. Kinetische und thermodynamische Stabilität von 2,3-Bis(dialkylamino)-1,4-diketonen – Stabilisierungsenergie captodativ substituierter α-Dialkylamino-Carbonylalkyl-Radikale. Chemische Berichte, 1994, 127, 697-710.	0.2	31