

Claire C Berton-Carabin

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,566
citations

126708

33
h-index

143772

57
g-index

81
all docs

81
docs citations

81
times ranked

2935
citing authors

#	ARTICLE	IF	CITATIONS
1	Pickering Emulsions for Food Applications: Background, Trends, and Challenges. <i>Annual Review of Food Science and Technology</i> , 2015, 6, 263-297.	5.1	524
2	Lipid Oxidation in Oil-in-Water Emulsions: Involvement of the Interfacial Layer. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2014, 13, 945-977.	5.9	418
3	Interfacial properties of whey protein and whey protein hydrolysates and their influence on O/W emulsion stability. <i>Food Hydrocolloids</i> , 2017, 73, 129-140.	5.6	181
4	Formation, Structure, and Functionality of Interfacial Layers in Food Emulsions. <i>Annual Review of Food Science and Technology</i> , 2018, 9, 551-587.	5.1	160
5	Coalescence stability of Pickering emulsions produced with lipid particles: A microfluidic study. <i>Journal of Food Engineering</i> , 2018, 234, 63-72.	2.7	92
6	Physical bonding between sunflower proteins and phenols: Impact on interfacial properties. <i>Food Hydrocolloids</i> , 2017, 73, 326-334.	5.6	74
7	Emulsion-alginate beads designed to control in vitro intestinal lipolysis: Towards appetite control. <i>Journal of Functional Foods</i> , 2017, 34, 319-328.	1.6	70
8	Nonlinear interfacial rheology and atomic force microscopy of air-water interfaces stabilized by whey protein beads and their constituents. <i>Food Hydrocolloids</i> , 2020, 101, 105466.	5.6	68
9	Microfluidic emulsification devices: from micrometer insights to large-scale food emulsion production. <i>Current Opinion in Food Science</i> , 2015, 3, 33-40.	4.1	64
10	Food-grade micro-encapsulation systems that may induce satiety via delayed lipolysis: A review. <i>Critical Reviews in Food Science and Nutrition</i> , 2017, 57, 2218-2244.	5.4	64
11	Synergistic stabilisation of emulsions by blends of dairy and soluble pea proteins: Contribution of the interfacial composition. <i>Food Hydrocolloids</i> , 2019, 97, 105206.	5.6	63
12	Physicochemical stability of lycopene-loaded emulsions stabilized by plant or dairy proteins. <i>Food Structure</i> , 2017, 12, 34-42.	2.3	62
13	Towards new food emulsions: designing the interface and beyond. <i>Current Opinion in Food Science</i> , 2019, 27, 74-81.	4.1	57
14	Encapsulation of the therapeutic microbe <i>Akkermansia muciniphila</i> in a double emulsion enhances survival in simulated gastric conditions. <i>Food Research International</i> , 2017, 102, 372-379.	2.9	56
15	Coalescence of protein-stabilised emulsions studied with microfluidics. <i>Food Hydrocolloids</i> , 2017, 70, 96-104.	5.6	52
16	Behavior of plant-dairy protein blends at air-water and oil-water interfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 192, 111015.	2.5	52
17	Dynamic heterogeneity in complex interfaces of soft interface-dominated materials. <i>Scientific Reports</i> , 2019, 9, 2938.	1.6	50
18	Protein and lipid oxidation affect the viscoelasticity of whey protein layers at the oil-water interface. <i>European Journal of Lipid Science and Technology</i> , 2016, 118, 1630-1643.	1.0	49

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19	Maillard reaction products as functional components in oil-in-water emulsions: A review highlighting interfacial and antioxidant properties. <i>Trends in Food Science and Technology</i> , 2022, 121, 129-141.	7.8	48
20	Tailored microstructure of colloidal lipid particles for Pickering emulsions with tunable properties. <i>Soft Matter</i> , 2017, 13, 3190-3198.	1.2	46
21	Effect of the lipophilicity of model ingredients on their location and reactivity in emulsions and solid lipid nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 431, 9-17.	2.3	43
22	Protein Oxidation and In Vitro Gastric Digestion of Processed Soy-Based Matrices. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 9591-9600.	2.4	43
23	Spruce galactoglucomannans in rapeseed oil-in-water emulsions: Efficient stabilization performance and structural partitioning. <i>Food Hydrocolloids</i> , 2016, 52, 615-624.	5.6	42
24	Can we prevent lipid oxidation in emulsions by using fat-based Pickering particles?. <i>Food Research International</i> , 2019, 120, 352-363.	2.9	42
25	Cross-flow microfluidic emulsification from a food perspective. <i>Trends in Food Science and Technology</i> , 2016, 49, 51-63.	7.8	41
26	Functionality of whey proteins covalently modified by allyl isothiocyanate. Part 1 physicochemical and antibacterial properties of native and modified whey proteins at pH 2 to 7. <i>Food Hydrocolloids</i> , 2017, 65, 130-143.	5.6	41
27	Physical and oxidative stability of food emulsions prepared with pea protein fractions. <i>LWT - Food Science and Technology</i> , 2021, 146, 111424.	2.5	41
28	Tayloring W/O/W emulsion composition for effective encapsulation: The role of PGPR in water transfer-induced swelling. <i>Food Research International</i> , 2018, 106, 722-728.	2.9	40
29	Microfluidic investigation of the coalescence susceptibility of pea protein-stabilised emulsions: Effect of protein oxidation level. <i>Food Hydrocolloids</i> , 2020, 102, 105610.	5.6	38
30	The structure, viscoelasticity and charge of potato peptides adsorbed at the oil-water interface determine the physicochemical stability of fish oil-in-water emulsions. <i>Food Hydrocolloids</i> , 2021, 115, 106605.	5.6	38
31	Destabilization of multilayered interfaces in digestive conditions limits their ability to prevent lipolysis in emulsions. <i>Food Structure</i> , 2017, 12, 54-63.	2.3	36
32	Air-water interfacial and foaming properties of whey protein - sinapic acid mixtures. <i>Food Hydrocolloids</i> , 2021, 112, 106467.	5.6	36
33	Rethinking plant protein extraction: Albuminâ€™From side stream to an excellent foaming ingredient. <i>Food Structure</i> , 2022, 31, 100254.	2.3	36
34	Interfacial tension measured at high expansion rates and within milliseconds using microfluidics. <i>Journal of Colloid and Interface Science</i> , 2016, 470, 71-79.	5.0	34
35	Foams and air-water interfaces stabilised by mildly purified rapeseed proteins after defatting. <i>Food Hydrocolloids</i> , 2021, 112, 106270.	5.6	34
36	Synergistic and antagonistic effects of plant and dairy protein blends on the physicochemical stability of lycopene-loaded emulsions. <i>Food Hydrocolloids</i> , 2018, 81, 180-190.	5.6	33

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37	Pickering particles as interfacial reservoirs of antioxidants. <i>Journal of Colloid and Interface Science</i> , 2020, 575, 489-498.	5.0	33
38	Conformational Changes of Whey and Pea Proteins upon Emulsification Approached by Front-Surface Fluorescence. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 6601-6612.	2.4	30
39	Droplet Microfluidics for Food and Nutrition Applications. <i>Micromachines</i> , 2021, 12, 863.	1.4	30
40	The Importance of Interfacial Tension in Emulsification: Connecting Scaling Relations Used in Large Scale Preparation with Microfluidic Measurement Methods. <i>ChemEngineering</i> , 2020, 4, 63.	1.0	29
41	Sequential adsorption and interfacial displacement in emulsions stabilized with plant-dairy protein blends. <i>Journal of Colloid and Interface Science</i> , 2021, 583, 704-713.	5.0	29
42	Interfacial behaviour of biopolymer multilayers: Influence of in vitro digestive conditions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 153, 199-207.	2.5	28
43	Glycation of soy proteins leads to a range of fractions with various supramolecular assemblies and surface activities. <i>Food Chemistry</i> , 2021, 343, 128556.	4.2	28
44	Protein Oxidation in Plant Protein-Based Fibrous Products: Effects of Encapsulated Iron and Process Conditions. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 11105-11112.	2.4	27
45	Emulsion encapsulation in calcium-alginate beads delays lipolysis during dynamic in vitro digestion. <i>Journal of Functional Foods</i> , 2018, 46, 394-402.	1.6	27
46	Antioxidant potential of non-modified and glycated soy proteins in the continuous phase of oil-in-water emulsions. <i>Food Hydrocolloids</i> , 2021, 114, 106564.	5.6	26
47	Oxidative stability of soy proteins: From ground soybeans to structured products. <i>Food Chemistry</i> , 2020, 318, 126499.	4.2	25
48	Double emulsions for iron encapsulation: is a high concentration of lipophilic emulsifier ideal for physical and chemical stability?. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 4540-4549.	1.7	22
49	Legume Protein Isolates for Stable Acidic Emulsions Prepared by Premix Membrane Emulsification. <i>Food Biophysics</i> , 2017, 12, 119-128.	1.4	20
50	Oxidative stability of emulsions fortified with iron: the role of liposomal phospholipids. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 2957-2965.	1.7	20
51	Early film formation in protein-stabilised emulsions: Insights from a microfluidic approach. <i>Food Hydrocolloids</i> , 2021, 118, 106785.	5.6	20
52	Air-water interfacial behaviour of whey protein and rapeseed oleosome mixtures. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 207-221.	5.0	20
53	Amadori products formation in emulsified systems. <i>Food Chemistry</i> , 2016, 199, 51-58.	4.2	19
54	Functionality of whey proteins covalently modified by allyl isothiocyanate. Part 2: Influence of the protein modification on the surface activity in an O/W system. <i>Food Hydrocolloids</i> , 2018, 81, 286-299.	5.6	18

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55	Convective mass transport dominates surfactant adsorption in a microfluidic Y-junction. <i>Soft Matter</i> , 2016, 12, 9025-9029.	1.2	17
56	Natural particles can armor emulsions against lipid oxidation and coalescence. <i>Food Chemistry</i> , 2021, 347, 129003.	4.2	17
57	Reactivity of a model lipophilic ingredient in surfactant-stabilized emulsions: Effect of droplet surface charge and ingredient location. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 418, 68-75.	2.3	16
58	Reactivity of a lipophilic ingredient solubilized in anionic or cationic surfactant micelles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 412, 135-142.	2.3	14
59	A unifying approach to lipid oxidation in emulsions: Modelling and experimental validation. <i>Food Research International</i> , 2022, 160, 111621.	2.9	14
60	Effect of interfacial properties on the reactivity of a lipophilic ingredient in multilayered emulsions. <i>Food Hydrocolloids</i> , 2014, 42, 56-65.	5.6	13
61	Alkyl chain length modulates antioxidant activity of gallic acid esters in spray-dried emulsions. <i>Food Chemistry</i> , 2022, 387, 132880.	4.2	13
62	Encapsulation of lipids as emulsion-alginate beads reduces food intake: a randomized placebo-controlled cross-over human trial in overweight adults. <i>Nutrition Research</i> , 2019, 63, 86-94.	1.3	12
63	Lipid Oxidation in Emulsions Fortified with Iron-Loaded Alginate Beads. <i>Foods</i> , 2019, 8, 361.	1.9	11
64	Interrelated Routes between the Maillard Reaction and Lipid Oxidation in Emulsion Systems. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 12107-12115.	2.4	11
65	Competition of rapeseed proteins and oleosomes for the air-water interface and its effect on the foaming properties of protein-oleosome mixtures. <i>Food Hydrocolloids</i> , 2022, 122, 107078.	5.6	11
66	Effect of lipophilization on the distribution and reactivity of ingredients in emulsions. <i>Journal of Colloid and Interface Science</i> , 2015, 459, 36-43.	5.0	10
67	Carvacrol release from PLA to a model food emulsion: Impact of oil droplet size. <i>Food Control</i> , 2020, 114, 107247.	2.8	10
68	Evaluation of oxygen partial pressure, temperature and stripping of antioxidants for accelerated shelf-life testing of oil blends using 1H NMR. <i>Food Research International</i> , 2021, 147, 110555.	2.9	10
69	Microtechnological Tools to Achieve Sustainable Food Processes, Products, and Ingredients. <i>Food Engineering Reviews</i> , 2020, 12, 101-120.	3.1	9
70	Chemical Stability of α -Tocopherol in Colloidal Lipid Particles with Various Morphologies. <i>European Journal of Lipid Science and Technology</i> , 2020, 122, 2000012.	1.0	9
71	Combining plant and dairy proteins in food colloid design. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 56, 101507.	3.4	9
72	Interfacial protein-protein displacement at fluid interfaces. <i>Advances in Colloid and Interface Science</i> , 2022, 305, 102691.	7.0	7

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73	Towards Oxidatively Stable Emulsions Containing Iron-Loaded Liposomes: The Key Role of Phospholipid-to-Iron Ratio. <i>Foods</i> , 2021, 10, 1293.	1.9	6
74	How microfluidic methods can lead to better emulsion products. <i>Lipid Technology</i> , 2015, 27, 234-236.	0.3	5
75	Dynamic fluid interface formation in microfluidics: Effect of emulsifier structure and oil viscosity. <i>Innovative Food Science and Emerging Technologies</i> , 2018, 45, 215-219.	2.7	5
76	Formation of Taste-Active Pyridinium Betaine Derivatives Is Promoted in Thermally Treated Oil-in-Water Emulsions and Alkaline pH. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 5180-5188.	2.4	4
77	Emulsification: Established and Future Technologies. <i>Particle Technology Series</i> , 2016, , 257-289.	0.5	3
78	Lipid oxidation in Pickering emulsions. , 2021, , 275-293.		2
79	Lipid Oxidation in Food Emulsions: Analytical Challenges and Recent Developments. , 2022, , 3-29.		2
80	Ionic Liquids in the Synthesis of Antioxidant Targeted Compounds. , 2016, , 317-346.		0