

Alireza Abbaspourrad

List of Publications by Year in descending order

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Version: 2024-02-01

193
papers

6,858
citations

66315

42
h-index

85498

71
g-index

201
all docs

201
docs citations

201
times ranked

7863
citing authors

#	ARTICLE	IF	CITATIONS
1	Flavor components, precursors, formation mechanisms, production and characterization methods: garlic, onion, and chili pepper flavors. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 8265-8287.	5.4	15
2	The influence of the female reproductive tract and sperm features on the design of microfluidic sperm-sorting devices. <i>Journal of Assisted Reproduction and Genetics</i> , 2022, 39, 19-36.	1.2	6
3	Non-contact ultrasound oocyte denudation. <i>Lab on A Chip</i> , 2022, 22, 777-792.	3.1	3
4	Rheotaxis quality index: a new parameter that reveals male mammalian <i>in vivo</i> fertility and low sperm DNA fragmentation. <i>Lab on A Chip</i> , 2022, 22, 1486-1497.	3.1	7
5	Granulation and encapsulation of N-Acetylcysteine (NAC) by internal phase separation. <i>Food Hydrocolloids</i> , 2022, 130, 107699.	5.6	3
6	Physicochemical interactions between mucin and low-calorie sweeteners: Real-time characterization and rheological analyses. <i>LWT - Food Science and Technology</i> , 2022, 159, 113252.	2.5	2
7	pH-responsive delivery of rebaudioside a sweetener via mucoadhesive whey protein isolate core-shell nanocapsules. <i>Food Hydrocolloids</i> , 2022, 129, 107657.	5.6	7
8	Synthesis, Stability, and Bioavailability of Nicotinamide Riboside Trioleate Chloride. <i>Nutrients</i> , 2022, 14, 113.	1.7	10
9	Improvement of lactoferrin thermal stability by complex coacervation using soy soluble polysaccharides. <i>Food Hydrocolloids</i> , 2022, 131, 107736.	5.6	15
10	Impact of protein/peptide templates on metallic nanoparticle synthesis and applications. <i>Nano Structures Nano Objects</i> , 2022, 30, 100864.	1.9	2
11	Prevention of the Retrogradation of Glutinous Rice Gel and Sweetened Glutinous Rice Cake Utilizing Pulsed Electric Field during Refrigerated Storage. <i>Foods</i> , 2022, 11, 1306.	1.9	7
12	Fabrication of Charged Self-Assembling Patchy Particles Templated with Partially Gelatinized Starch. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24955-24963.	4.0	4
13	Solid phase wax coating of N-acetylcysteine (NAC) to decrease its solubility profile as a ready to mix supplement. <i>RSC Advances</i> , 2022, 12, 17550-17558.	1.7	2
14	Food and cosmetic applications of the avocado seed: a review. <i>Food and Function</i> , 2022, 13, 6894-6901.	2.1	8
15	Sheathless inertial microfluidic cell separation via a serpentine “contraction” expansion device coupled with a combinatorial extraction regulator. <i>Microfluidics and Nanofluidics</i> , 2022, 26, .	1.0	4
16	Heat and shear reversible networks in food: A review. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2022, 21, 3405-3435.	5.9	2
17	Improvement of the storage stability of C-phycocyanin in beverages by high-pressure processing. <i>Food Hydrocolloids</i> , 2021, 110, 106055.	5.6	35
18	Application of granular cold-water-swelling starch as a clean-label oil structurant. <i>Food Hydrocolloids</i> , 2021, 112, 106311.	5.6	5

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19	Improvement of vitamin C stability in vitamin gummies by encapsulation in casein gel. Food Hydrocolloids, 2021, 113, 106414.	5.6	56
20	Whey protein improves the stability of C-phycoerythrin in acidified conditions during light storage. Food Chemistry, 2021, 344, 128642.	4.2	28
21	Dihydropyridine riboside: synthesis from nicotinamide riboside chloride, purification and stability studies. RSC Advances, 2021, 11, 21036-21047.	1.7	2
22	Progressive bovine sperm separation using parallelized microchamber-based microfluidics. Lab on A Chip, 2021, 21, 2791-2804.	3.1	12
23	Nature-Derived Amphiphilic Polymers Crosslinked by Calcium Ions for Microencapsulation Applications. ACS Applied Polymer Materials, 2021, 3, 1415-1425.	2.0	4
24	Changes in the Glutinous Rice Grain and Physicochemical Properties of Its Starch upon Moderate Treatment with Pulsed Electric Field. Foods, 2021, 10, 395.	1.9	26
25	Nutritional and Bioactive Components of Pomegranate Waste Used in Food and Cosmetic Applications: A Review. Foods, 2021, 10, 657.	1.9	66
26	Diffusion-Driven Convection Hybrid Microfluidic Platform for Rapid Antibiotic Susceptibility Testing. Analytical Chemistry, 2021, 93, 5789-5796.	3.2	13
27	Biological small-molecule assays using gradient-based microfluidics. Biosensors and Bioelectronics, 2021, 178, 113038.	5.3	9
28	Gradient-Based Microfluidic Platform for One Single Rapid Antimicrobial Susceptibility Testing. ACS Sensors, 2021, 6, 1560-1571.	4.0	14
29	Antimicrobial Susceptibility Testing in a Rapid Single Test via an Egg-like Multivolume Microchamber-Based Microfluidic Platform. ACS Applied Materials & Interfaces, 2021, 13, 19581-19592.	4.0	7
30	Elucidating the Interaction Mechanism of Folic Acid with Ovalbumin by Multispectroscopic and Molecular Simulation Methods. ACS Food Science & Technology, 2021, 1, 660-668.	1.3	5
31	Engineered Microbial Routes for Human Milk Oligosaccharides Synthesis. ACS Synthetic Biology, 2021, 10, 923-938.	1.9	29
32	Electrolytic transesterification of waste frying oil using Na+/zeolite-chitosan biocomposite for biodiesel production. Waste Management, 2021, 127, 48-62.	3.7	33
33	Improved photostability of folic acid by the radical-scavenging effect of tannic acid. LWT - Food Science and Technology, 2021, 142, 111050.	2.5	2
34	Xylose-rich Horse Manure Hydrolysate as the Sole Carbon Source for Bacterial Production of Polyhydroxy Butyrate Using Engineered <i>Escherichia coli</i> . ACS Sustainable Chemistry and Engineering, 2021, 9, 8946-8950.	3.2	3
35	Combination of copigmentation and encapsulation strategies for the synergistic stabilization of anthocyanins. Comprehensive Reviews in Food Science and Food Safety, 2021, 20, 3164-3191.	5.9	58
36	Cationic Covalent Organic Framework as an Ion Exchange Material for Efficient Adsorptive Separation of Biomolecules. ACS Applied Materials & Interfaces, 2021, 13, 35019-35025.	4.0	20

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37	O-124 Contact-free oocyte denudation in a chip-scale ultrasonic microfluidic device. Human Reproduction, 2021, 36, .	0.4	3
38	Development and characterization of probiotic mucilage based edible films for the preservation of fruits and vegetables. Scientific Reports, 2021, 11, 16608.	1.6	21
39	Rolling controls sperm navigation in response to the dynamic rheological properties of the environment. ELife, 2021, 10, .	2.8	18
40	Synthesis of arylhydrazone-based molecular switches using aryl diazonium silica sulfate nanocomposites and analysis of their isomerization. Dyes and Pigments, 2021, 194, 109544.	2.0	5
41	Improved thermal stability of phycocyanin under acidic conditions by forming soluble complexes with polysaccharides. Food Hydrocolloids, 2021, 119, 106852.	5.6	26
42	Monitoring the heme iron state in horseradish peroxidase to detect ultratrace amounts of hydrogen peroxide in alcohols. RSC Advances, 2021, 11, 9901-9910.	1.7	6
43	Physico-mechanical, Antimicrobial, and Antioxidant Properties of Gelatin Edible Films Incorporated with Olibanum Essential Oil and Sodium Hexametaphosphate on the Rainbow Trout Fillet Under Refrigerated Conditions. Journal of Polymers and the Environment, 2021, 29, 2174-2184.	2.4	6
44	Purification technology for renewable production of fuel from methanolysis of waste sunflower oil in the presence of high silica zeolite beta. Green Chemistry Letters and Reviews, 2021, 14, 2-14.	2.1	18
45	Peptide-directed Pd-decorated Au and PdAu nanocatalysts for degradation of nitrite in water. RSC Advances, 2021, 11, 32615-32621.	1.7	2
46	Bioactives in bovine milk: chemistry, technology, and applications. Nutrition Reviews, 2021, 79, 48-69.	2.6	29
47	Mammalian sperm hyperactivation regulates navigation via physical boundaries and promotes pseudo-chemotaxis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	19
48	Tuning C-Phycocyanin Photoactivity via pH-Mediated Assembly–Disassembly. Biomacromolecules, 2021, 22, 5128-5138.	2.6	11
49	Synergistic effects of ascorbic acid, low methoxy pectin, and EDTA on stabilizing the natural red colors in acidified beverages. Current Research in Food Science, 2021, 4, 873-881.	2.7	5
50	High water content, maltose and sodium dodecyl sulfate were effective in preventing the long-term retrogradation of glutinous rice grains - A comparative study. Food Hydrocolloids, 2020, 98, 105247.	5.6	20
51	Ultrasonic encapsulation of cinnamon flavor to impart heat stability for baking applications. Food Hydrocolloids, 2020, 99, 105316.	5.6	42
52	Instantaneous interaction of mucin with pectin- and carrageenan-coated nanoemulsions. Food Chemistry, 2020, 309, 125795.	4.2	13
53	The Impact of High-Pressure Processing on the Structure and Sensory Properties of Egg White-Whey Protein Mixture at Acidic Conditions. Food and Bioprocess Technology, 2020, 13, 379-389.	2.6	10
54	Development and Characterization of <i>Salvia macrosiphon</i>/Chitosan Edible Films. ACS Sustainable Chemistry and Engineering, 2020, 8, 1487-1496.	3.2	34

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55	Fabrication of chitosan/agarose scaffolds containing extracellular matrix for tissue engineering applications. International Journal of Biological Macromolecules, 2020, 143, 533-545.	3.6	93
56	Covalent polybenzimidazole-based triazine frameworks: A robust carrier for non-steroidal anti-inflammatory drugs. Materials Science and Engineering C, 2020, 108, 110482.	3.8	19
57	A digital imaging method for evaluating the kinetics of vapochromic response. Talanta, 2020, 209, 120520.	2.9	7
58	EMBRYOLOGY LAB-ON-A-CHIP: AUTOMATED OOCYTE DENUDATION MICROFLUIDIC DEVICE. Fertility and Sterility, 2020, 114, e76.	0.5	2
59	Fabrication of chitosan/polyvinylpyrrolidone hydrogel scaffolds containing PLGA microparticles loaded with dexamethasone for biomedical applications. International Journal of Biological Macromolecules, 2020, 164, 356-370.	3.6	70
60	Green synthesis of pyrano [3,2-b]pyran derivatives using nano SiO ₂ -MgO-fluorapatite catalyst and the evaluation of their antibacterial and antioxidant properties. Medicinal Chemistry Research, 2020, 29, 1792-1803.	1.1	9
61	Nanoperlite effect on thermal, rheological, surface and cellular properties of poly lactic acid/nanoperlite nanocomposites for multipurpose applications. Polymer Testing, 2020, 91, 106779.	2.3	16
62	The molecular mechanism of the photocatalytic oxidation reactions by horseradish peroxidase in the presence of histidine. Green Chemistry, 2020, 22, 6105-6114.	4.6	5
63	Investigation of the Interaction between N-Acetyl-L-Cysteine and Ovalbumin by Spectroscopic Studies, Molecular Docking Simulation, and Real-Time Quartz Crystal Microbalance with Dissipation. Journal of Agricultural and Food Chemistry, 2020, 68, 10184-10190.	2.4	14
64	Mitigating the Astringency of Acidified Whey Protein in Proteinaceous High Internal Phase Emulsions. ACS Applied Bio Materials, 2020, 3, 8438-8445.	2.3	6
65	Photo-crosslinked gelatin-polyvinyl alcohol composite films: UV-riboflavin treatment for improving functional properties. Journal of Food Processing and Preservation, 2020, 44, e14550.	0.9	8
66	2,4-D adsorption from agricultural subsurface drainage by canola stalk-derived activated carbon: insight into the adsorption kinetics models under batch and column conditions. Environmental Science and Pollution Research, 2020, 27, 16983-16997.	2.7	30
67	Core-Shell Nanohydrogels with Programmable Swelling for Conformance Control in Porous Media. ACS Applied Materials & Interfaces, 2020, 12, 34217-34225.	4.0	16
68	Preparation and characterization of polylactic-co-glycolic acid/insulin nanoparticles encapsulated in methacrylate coated gelatin with sustained release for specific medical applications. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 910-937.	1.9	8
69	Generation of ironized and multivitamin-loaded liposomes using venturi-based rapid expansion of a supercritical solution (Vent-RESS). Green Chemistry, 2020, 22, 1618-1629.	4.6	10
70	A Spiderweb-Like Metal-Organic Framework Multifunctional Foam. Angewandte Chemie - International Edition, 2020, 59, 9506-9513.	7.2	41
71	A Spiderweb-Like Metal-Organic Framework Multifunctional Foam. Angewandte Chemie, 2020, 132, 9593-9600.	1.6	3
72	Improvement of the colloidal stability of phycocyanin in acidified conditions using whey protein-phycocyanin interactions. Food Hydrocolloids, 2020, 105, 105747.	5.6	30

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73	Protein content of amaranth and quinoa starch plays a key role in their ability as Pickering emulsifiers. Food Chemistry, 2020, 315, 126246.	4.2	44
74	Extraction of phycocyaninâ€”A natural blue colorant from dried spirulina biomass: Influence of processing parameters and extraction techniques. Journal of Food Science, 2020, 85, 727-735.	1.5	54
75	Structural Chemistry Enables Fluorescence of Amino Acids in the Crystalline Solid State. Crystal Growth and Design, 2020, 20, 1673-1680.	1.4	15
76	Synthesis of Cross-Linked Spherical Polycationic Adsorbents for Enhanced Heparin Recovery. ACS Biomaterials Science and Engineering, 2020, 6, 2822-2831.	2.6	9
77	Exceptional colloidal stability of acidified whey protein beverages stabilized by soybean soluble polysaccharide. Journal of Food Science, 2020, 85, 989-997.	1.5	17
78	Quantitative comparison of adsorption and desorption of commonly used sweeteners in the oral cavity. Food Chemistry, 2019, 271, 577-580.	4.2	6
79	The effect of nanoperlite and its silane treatment on the crystallinity, rheological, optical, and surface properties of polypropylene/nanoperlite nanocomposite films. Composites Part B: Engineering, 2019, 175, 107088.	5.9	26
80	A Robust Aqueous Coreâ€”Shellâ€”Shell Coconut-like Nanostructure for Stimuli-Responsive Delivery of Hydrophilic Cargo. ACS Nano, 2019, 13, 9016-9027.	7.3	74
81	A versatile, cost-effective, and flexible wearable biosensor for <i>in situ</i> and <i>ex situ</i> sweat analysis, and personalized nutrition assessment. Lab on A Chip, 2019, 19, 3448-3460.	3.1	55
82	Enhanced compatibility of starch with poly(lactic acid) and poly(É-caprolactone) by incorporation of POSS nanoparticles: Study on thermal properties. International Journal of Biological Macromolecules, 2019, 141, 578-584.	3.6	29
83	L-Histidine Crystals as Efficient Vehicles to Deliver Hydrophobic Molecules. ACS Applied Materials & Interfaces, 2019, 11, 39376-39384.	4.0	8
84	Starch-based Janus particles: Proof-of-concept heterogeneous design via a spin-coating spray approach. Food Hydrocolloids, 2019, 91, 301-310.	5.6	15
85	A supported dendrimer with terminal symmetric primary amine sites for adsorption of salicylic acid. Journal of Colloid and Interface Science, 2019, 540, 501-514.	5.0	20
86	A novel electrochemical epinine sensor using amplified CuO nanoparticles and a<i>n</i>-hexyl-3-methylimidazolium hexafluorophosphate electrode. New Journal of Chemistry, 2019, 43, 2362-2367.	1.4	246
87	A simple route to renewable high internal phase emulsions (HIPes) strengthened by successive cross-linking and electrostatics of polysaccharides. Chemical Communications, 2019, 55, 1225-1228.	2.2	46
88	Catalyzed Oxidation of Carotenoids by Lactoperoxidase in the Presence of Ethanol. Journal of Agricultural and Food Chemistry, 2019, 67, 1742-1748.	2.4	1
89	One-Pot Synthesis of Cross-Linked Polymer Networks as a Hydrophilic Super-Adsorbent for Efficient Recovery of Heparin. ACS Applied Polymer Materials, 2019, 1, 230-238.	2.0	3
90	Ultrastable Water-in-Oil High Internal Phase Emulsions Featuring Interfacial and Biphasic Network Stabilization. ACS Applied Materials & Interfaces, 2019, 11, 26433-26441.	4.0	81

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91	Water-Triggered Rapid Release of Biocide with Enhanced Antimicrobial Activity in Biodiesel. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1900156.	1.7	4
92	Selective Electrochemical Capture and Release of Heparin Based on Amine-Functionalized Carbon/Titanium Dioxide Nanotube Arrays. <i>ACS Applied Bio Materials</i> , 2019, 2, 2685-2697.	2.3	3
93	Determination of ferulic acid in the presence of butylated hydroxytoluene as two phenolic antioxidants using a highly conductive food nanostructure electrochemical sensor. <i>Chemical Papers</i> , 2019, 73, 2441-2447.	1.0	19
94	Pathogenic Bacteria Detection Using RNA-Based Loop-Mediated Isothermal-Amplification-Assisted Nucleic Acid Amplification via Droplet Microfluidics. <i>ACS Sensors</i> , 2019, 4, 841-848.	4.0	82
95	Carbon dioxide absorption in water/nanofluid by a symmetric amine-based nanodendritic adsorbent. <i>Applied Energy</i> , 2019, 242, 1562-1572.	5.1	55
96	Microencapsulation of vitamin D using gelatin and cress seed mucilage: Production, characterization and in vivo study. <i>International Journal of Biological Macromolecules</i> , 2019, 129, 972-979.	3.6	46
97	Mechanistic investigation via QCM-D into the color stability imparted to betacyanins by the presence of food grade anionic polysaccharides. <i>Food Hydrocolloids</i> , 2019, 93, 226-234.	5.6	20
98	Strictures of a microchannel impose fierce competition to select for highly motile sperm. <i>Science Advances</i> , 2019, 5, eaav2111.	4.7	51
99	Robust, sustainable and multifunctional nanofibers with smart switchability for water-in-oil and oil-in-water emulsion separation and liquid marble preparation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26456-26468.	5.2	21
100	Synthesis of lactose lauryl ester in organic solvents using aluminosilicate zeolite as a catalyst. <i>Food Chemistry</i> , 2019, 279, 401-407.	4.2	11
101	Solvent-mediated pressure-treated bixin-casein complexation for targeted color delivery. <i>Food Chemistry</i> , 2019, 278, 434-442.	4.2	6
102	High-Throughput, Green, Low-Cost, and Efficient Recovery of Heparin from a Biological Mixture Using Bio-Originated Magnetic Nanofibers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3895-3908.	3.2	10
103	The Influence of Water Composition on Flavor and Nutrient Extraction in Green and Black Tea. <i>Nutrients</i> , 2019, 11, 80.	1.7	36
104	Study of the Physicochemical Properties of Fish Oil Solid Lipid Nanoparticle in the Presence of Palmitic Acid and Quercetin. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 671-679.	2.4	44
105	Generation of liposomes using a supercritical carbon dioxide eductor vacuum system: Optimization of process variables. <i>Journal of CO2 Utilization</i> , 2019, 29, 163-171.	3.3	21
106	A new epirubicin biosensor based on amplifying DNA interactions with polypyrrole and nitrogen-doped reduced graphene: Experimental and docking theoretical investigations. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 568-574.	4.0	246
107	Combination of internal structuring and external coating in an oleogel-based delivery system for fish oil stabilization. <i>Food Chemistry</i> , 2019, 277, 213-221.	4.2	41
108	Microfluidic-Based Cell-Embedded Microgels Using Nonfluorinated Oil as a Model for the Gastrointestinal Niche. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9235-9246.	4.0	37

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109	Copigment-polyelectrolyte complexes (PECs) composite systems for anthocyanin stabilization. Food Hydrocolloids, 2018, 81, 371-379.	5.6	41
110	Water-in-oil-in-water emulsion obtained by glass microfluidic device for protection and heat-triggered release of natural pigments. Food Research International, 2018, 106, 945-951.	2.9	42
111	Multi-porous quaternized chitosan/polystyrene microbeads for scalable, efficient heparin recovery. Chemical Engineering Journal, 2018, 348, 399-408.	6.6	30
112	Shape-controlled fabrication of TiO ₂ hollow shells toward photocatalytic application. Applied Catalysis B: Environmental, 2018, 227, 519-529.	10.8	42
113	Anatto-entrapped casein-chitosan complexes improve whey color quality after acid coagulation of milk. Food Chemistry, 2018, 255, 268-274.	4.2	25
114	Tailoring Delivery System Functionality Using Microfluidics. Annual Review of Food Science and Technology, 2018, 9, 481-501.	5.1	23
115	Synergistic Bathochromic and Hyperchromic Shifts of Anthocyanin Spectra Observed Following Complexation with Iron Salts and Chondroitin Sulfate. Food and Bioprocess Technology, 2018, 11, 991-1001.	2.6	10
116	Controlling the Release from Enzyme-Responsive Microcapsules with a Smart Natural Shell. ACS Applied Materials & Interfaces, 2018, 10, 6046-6053.	4.0	29
117	Formation of shelf stable Pickering high internal phase emulsions (HIPE) through the inclusion of whey protein microgels. Food and Function, 2018, 9, 982-990.	2.1	100
118	A novel paper based colorimetric assay for the detection of TiO ₂ nanoparticles. Analytical Methods, 2018, 10, 275-280.	1.3	6
119	Production of galacto-oligosaccharides from whey permeate using β -galactosidase immobilized on functionalized glass beads. Food Chemistry, 2018, 251, 115-124.	4.2	72
120	Polyelectrolyte Complex Inclusive Biohybrid Microgels for Tailoring Delivery of Copigmented Anthocyanins. Biomacromolecules, 2018, 19, 1517-1527.	2.6	40
121	Thermoresponsive, water-dispersible microcapsules with a lipid-polysaccharide shell to protect heat-sensitive colorants. Food Hydrocolloids, 2018, 81, 419-428.	5.6	20
122	Modulation of whey protein-kappa carrageenan hydrogel properties <i>via</i> enzymatic protein modification. Food and Function, 2018, 9, 2313-2319.	2.1	9
123	Bioactive whey peptide particles: An emerging class of nutraceutical carriers. Critical Reviews in Food Science and Nutrition, 2018, 58, 1468-1477.	5.4	30
124	Protection of blue color in a spirulina derived phycocyanin extract from proteolytic and thermal degradation via complexation with beet-pectin. Food Hydrocolloids, 2018, 74, 46-52.	5.6	39
125	In situ H ₂ O ₂ generation for de-emulsification of fine stable bilge water emulsions. Chemical Engineering Journal, 2018, 335, 434-442.	6.6	26
126	Influence of the protein type on the stability of fish oil in water emulsion obtained by glass microfluidic device. Food Hydrocolloids, 2018, 77, 96-106.	5.6	38

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127	Anthocyanin stabilization by chitosan-chondroitin sulfate polyelectrolyte complexation integrating catechin co-pigmentation. Carbohydrate Polymers, 2018, 181, 124-131.	5.1	77
128	Optimization of microcapsules shell structure to preserve labile compounds: A comparison between microfluidics and conventional homogenization method. Food Chemistry, 2018, 241, 460-467.	4.2	43
129	Improvement of physicochemical properties of encapsulated echium oil using nanostructured lipid carriers. Food Chemistry, 2018, 246, 448-456.	4.2	54
130	Enhancing the physicochemical stability of β -carotene solid lipid nanoparticle (SLNP) using whey protein isolate. Food Research International, 2018, 105, 962-969.	2.9	94
131	Polyelectrolyte microcapsules built on CaCO ₃ scaffolds for the integration, encapsulation, and controlled release of copigmented anthocyanins. Food Chemistry, 2018, 246, 305-312.	4.2	29
132	Highly water-dispersible and antibacterial magnetic clay nanotubes functionalized with polyelectrolyte brushes: high adsorption capacity and selectivity toward heparin in batch and continuous system. Green Chemistry, 2018, 20, 5491-5508.	4.6	26
133	Oleogel-structured composite for the stabilization of ω -3 fatty acids in fish oil. Food and Function, 2018, 9, 5598-5606.	2.1	20
134	Nanoliter-Sized Microchamber/Microarray Microfluidic Platform for Antibiotic Susceptibility Testing. Analytical Chemistry, 2018, 90, 14137-14144.	3.2	51
135	Microbiome within a Membrane: A Microfluidic-Based Model for Spatially Constrained Culture of Intestinal Microbiota (Adv. Funct. Mater. 48/2018). Advanced Functional Materials, 2018, 28, 1870339.	7.8	0
136	A Microfluidic-Based Model for Spatially Constrained Culture of Intestinal Microbiota. Advanced Functional Materials, 2018, 28, 1805568.	7.8	15
137	Highly Efficient Recovery of Heparin Using a Green and Low-Cost Quaternary Ammonium Functionalized Halloysite Nanotube. ACS Sustainable Chemistry and Engineering, 2018, 6, 15349-15360.	3.2	25
138	Facile Synthesis of Sustainable High Internal Phase Emulsions by a Universal and Controllable Route. ACS Sustainable Chemistry and Engineering, 2018, 6, 16657-16664.	3.2	34
139	Sonochemically Synthesized Ultrastable High Internal Phase Emulsions via a Permanent Interfacial Layer. ACS Sustainable Chemistry and Engineering, 2018, 6, 14374-14382.	3.2	40
140	Cu(0)-mediated reversible-deactivation radical polymerization of n-butyl acrylate in suspension. Polymer, 2018, 153, 464-473.	1.8	5
141	Magnetic Dendritic Halloysite Nanotube for Highly Selective Recovery of Heparin Digested from Porcine Intestinal Mucosa. ACS Sustainable Chemistry and Engineering, 2018, 6, 14561-14573.	3.2	22
142	GBR membrane of novel poly (butylene succinate-co-glycolate) co-polyester co-polymer for periodontal application. Scientific Reports, 2018, 8, 7513.	1.6	28
143	Encapsulation of copigmented anthocyanins within polysaccharide microcapsules built upon removable CaCO ₃ templates. Food Hydrocolloids, 2018, 84, 200-209.	5.6	29
144	Facile preparation of superhydrophobic and oleophobic surfaces via the combination of Cu(0)-mediated reversible-deactivation radical polymerization and click chemistry. Journal of Polymer Science Part A, 2018, 56, 1684-1694.	2.5	12

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145	How Much Bean Hemagglutinin Is Safe for Human Consumption?. Journal of Agricultural and Food Chemistry, 2018, 66, 6937-6939.	2.4	1
146	Rheotaxis-based separation of sperm with progressive motility using a microfluidic corral system. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8272-8277.	3.3	83
147	Synthesis of Highly Monodispersed, Stable, and Spherical NZVI of 20â€“30 nm on Filter Paper for the Removal of Phosphate from Wastewater: Batch and Column Study. ACS Sustainable Chemistry and Engineering, 2018, 6, 11662-11676.	3.2	33
148	Catechin modulates the copigmentation and encapsulation of anthocyanins in polyelectrolyte complexes (PECs) for natural colorant stabilization. Food Chemistry, 2018, 264, 342-349.	4.2	36
149	A Biocompatible Nanodendrimer for Efficient Adsorption and Reduction of Hg(II). ACS Sustainable Chemistry and Engineering, 2018, 6, 13332-13348.	3.2	33
150	Effect of surfactant addition on particle properties of whey proteins and their subsequent complexation with salivary proteins. International Dairy Journal, 2018, 87, 107-113.	1.5	2
151	Synthesis and characterization of lactose fatty acid ester biosurfactants using free and immobilized lipases in organic solvents. Food Chemistry, 2018, 266, 508-513.	4.2	44
152	Microfluidic Fabrication of Colloidal Nanomaterials-Encapsulated Microcapsules for Biomolecular Sensing. Nano Letters, 2017, 17, 2015-2020.	4.5	78
153	Improving oxidative stability of echium oil emulsions fabricated by Microfluidics: Effect of ionic gelation and phenolic compounds. Food Chemistry, 2017, 233, 125-134.	4.2	50
154	Osmotic Pressure Triggered Rapid Release of Encapsulated Enzymes with Enhanced Activity. Advanced Functional Materials, 2017, 27, 1700975.	7.8	34
155	Adsorption of mercury ions from wastewater by a hyperbranched and multi-functionalized dendrimer modified mixed-oxides nanoparticles. Journal of Colloid and Interface Science, 2017, 505, 293-306.	5.0	52
156	Emulsion-based systems for fabrication of electrospun nanofibers: food, pharmaceutical and biomedical applications. RSC Advances, 2017, 7, 28951-28964.	1.7	167
157	Preparation of microparticles through co-flowing of partially miscible liquids. Chemical Engineering Journal, 2017, 320, 144-150.	6.6	13
158	Glass surface modification via Cu(0)-mediated living radical polymerization of fluorinated and non-fluorinated acrylates. Polymer Chemistry, 2017, 8, 7457-7468.	1.9	13
159	Nano- and micromotors for cleaning polluted waters: focused review on pollutant removal mechanisms. Nanoscale, 2017, 9, 13850-13863.	2.8	71
160	Microfluidics: Osmotic Pressure Triggered Rapid Release of Encapsulated Enzymes with Enhanced Activity (Adv. Funct. Mater. 29/2017). Advanced Functional Materials, 2017, 27, .	7.8	0
161	Light-harvesting synthetic nano- and micromotors: a review. Nanoscale, 2017, 9, 12218-12230.	2.8	68
162	Dispersing hydrophobic natural colourant β -carotene in shellac particles for enhanced stability and tunable colour. Royal Society Open Science, 2017, 4, 170919.	1.1	16

#	ARTICLE	IF	CITATIONS
163	A mix-and-read drop-based in vitro two-hybrid method for screening high-affinity peptide binders. Scientific Reports, 2016, 6, 22575.	1.6	12
164	Droplet microfluidics: A tool for biology, chemistry and nanotechnology. TrAC - Trends in Analytical Chemistry, 2016, 82, 118-125.	5.8	280
165	Engineered emulsions for obesity treatment. Trends in Food Science and Technology, 2016, 52, 90-97.	7.8	28
166	Fluorocarbon Oil Reinforced Triple Emulsion Drops. Advanced Materials, 2016, 28, 8425-8430.	11.1	37
167	Triple Emulsion Drops with An Ultrathin Water Layer: High Encapsulation Efficiency and Enhanced Cargo Retention in Microcapsules. Advanced Materials, 2016, 28, 3340-3344.	11.1	55
168	Encapsulation and Enhanced Retention of Fragrance in Polymer Microcapsules. ACS Applied Materials & Interfaces, 2016, 8, 4007-4013.	4.0	115
169	Label-free single-cell protein quantification using a drop-based mix-and-read system. Scientific Reports, 2015, 5, 12756.	1.6	26
170	Fabrication of Shape Controllable Janus Alginate/pNIPAAm Microgels via Microfluidics Technique and Off-Chip Ionic Cross-Linking. Langmuir, 2015, 31, 1885-1891.	1.6	38
171	Microcapsules for Enhanced Cargo Retention and Diversity. Small, 2015, 11, 2903-2909.	5.2	39
172	Preparation of iron nanoparticles-loaded Spondias purpurea seed waste as an excellent adsorbent for removal of phosphate from synthetic and natural waters. Journal of Colloid and Interface Science, 2015, 452, 69-77.	5.0	42
173	Perforated Microcapsules with Selective Permeability Created by Confined Phase Separation of Polymer Blends. Chemistry of Materials, 2014, 26, 7166-7171.	3.2	36
174	25th Anniversary Article: Double Emulsion Templated Solid Microcapsules: Mechanics And Controlled Release. Advanced Materials, 2014, 26, 2205-2218.	11.1	226
175	Expansion and rupture of charged microcapsules. Materials Horizons, 2014, 1, 92-95.	6.4	4
176	Nonspherical Double Emulsions with Multiple Distinct Cores Enveloped by Ultrathin Shells. ACS Applied Materials & Interfaces, 2014, 6, 1294-1300.	4.0	42
177	Fabrication of solid lipid microcapsules containing ascorbic acid using a microfluidic technique. Food Chemistry, 2014, 152, 271-275.	4.2	78
178	Stimuli-Responsive Core-Shell Microcapsules with Tunable Rates of Release by Using a Depolymerizable Poly(phthalaldehyde) Membrane. Macromolecules, 2013, 46, 3309-3313.	2.2	77
179	Microfluidic Fabrication of Stable Gas-Filled Microcapsules for Acoustic Contrast Enhancement. Langmuir, 2013, 29, 12352-12357.	1.6	37
180	Controlling Release From pH-Responsive Microcapsules. Langmuir, 2013, 29, 12697-12702.	1.6	120

#	ARTICLE	IF	CITATIONS
181	Polymer Microcapsules with Programmable Active Release. Journal of the American Chemical Society, 2013, 135, 7744-7750.	6.6	149
182	Surface Functionalized Hydrophobic Porous Particles Toward Water Treatment Application. Advanced Materials, 2013, 25, 3215-3221.	11.1	45
183	Microfluidic synthesis of monodisperse porous microspheres with size-tunable pores. Soft Matter, 2012, 8, 10636.	1.2	62
184	Delayed Buckling and Guided Folding of Inhomogeneous Capsules. Physical Review Letters, 2012, 109, 134302.	2.9	130
185	Monodisperse Gas-Filled Microparticles from Reactions in Double Emulsions. Langmuir, 2012, 28, 6742-6745.	1.6	37
186	Protein Expression, Aggregation, and Triggered Release from Polymersomes as Artificial Cell-like Structures. Angewandte Chemie - International Edition, 2012, 51, 6416-6420.	7.2	162
187	A novel catalyst containing palladium nanoparticles supported on poly(2-hydroxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 50 nanocomposite. Applied Catalysis A: General, 2012, 423-424, 78-90.	2.2	18
188	Palladium nanoparticles supported on a poly(N-vinyl-2-pyrrolidone)-modified mesoporous carbon nanocage as a novel heterogeneous catalyst for the Heck reaction in water. Tetrahedron Letters, 2012, 53, 3763-3766.	0.7	22
189	Amphiphilic Crescent-Moon-Shaped Microparticles Formed by Selective Adsorption of Colloids. Journal of the American Chemical Society, 2011, 133, 5516-5524.	6.6	159
190	Highly Selective Vapor-Phase Acylation of Veratrole over $\text{H}_{3}\text{PO}_{4}/\text{TiO}_{2}-\text{ZrO}_{2}$: Using Ethyl Acetate as a Green and Efficient Acylating Agent. Chinese Journal of Chemistry, 2010, 28, 273-284.	2.6	7
191	Highly Selective Aldol Condensation Using Amine-functionalized $\text{SiO}_{2}-\text{Al}_{2}\text{O}_{3}$ Mixed-oxide under Solvent-free Condition. Chinese Journal of Chemistry, 2010, 28, 2074-2082.	2.6	9
192	Effect of TiO_{2} nanoparticles on the thermal properties of decorated multiwall carbon nanotubes: A Raman investigation. Journal of Applied Physics, 2010, 108, 083501.	1.1	9
193	Developing a Rational Approach to Designing Recombinant Proteins for Peptide-Directed Nanoparticle Synthesis. Nanoscale Advances, 0, , .	2.2	4