Frank Boury

List of Publications by Year
in descending order

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89 papers	2,800 citations	185998 28 h-index	197535 49 g-index
93 all docs	93 docs citations	93 times ranked	3289 citing authors

#	Article	IF	Citations
1	Eco-friendly processes for the synthesis of amorphous calcium carbonate nanoparticles in ethanol and their stabilisation in aqueous media. Green Chemistry, 2022, 24, 1270-1284.	4.6	14
2	Curdlanâ€“Chitosan Electrospun Fibers as Potential Scaffolds for Bone Regeneration. Polymers, 2021, 13, 526.	2.0	19
3	Impact of the physico-chemical properties of polymeric microspheres functionalized with cell adhesion molecules on the behavior of mesenchymal stromal cells. Materials Science and Engineering C, 2021, 121, 111852.	3.8	9
4	Nanoparticle-containing electrospun nanofibrous scaffolds for sustained release of SDF-1Î±. International Journal of Pharmaceutics, 2021, 610, 121205.	2.6	13
5	Relating polymeric microparticle formulation to prevalence or distribution of fibronectin and poly-<scp>d</scp>-lysine to support mesenchymal stem cell growth. Biointerphases, 2020, 15, 041008.	0.6	4
6	Synthesis, Characterization, and In Vitro Studies of an Reactive Oxygen Species (ROS)-Responsive Methoxy Polyethylene Glycol-Thioketal-Melphalan Prodrug for Glioblastoma Treatment. Frontiers in Pharmacology, 2020, 11, 574.	1.6	21
7	Aerogel sponges of silk fibroin, hyaluronic acid and heparin for soft tissue engineering: Composition-properties relationship. Carbohydrate Polymers, 2020, 237, 116107.	5.1	24
8	Comparative whole corona fingerprinting and protein adsorption thermodynamics of PLGA and PCL nanoparticles in human serum. Colloids and Surfaces B: Biointerfaces, 2020, 188, 110816.	2.5	19
9	Rapamycin-Loaded Lipid Nanocapsules Induce Selective Inhibition of the mTORC1-Signaling Pathway in Glioblastoma Cells. Frontiers in Bioengineering and Biotechnology, 2020, 8, 602998.	2.0	7
10	Reversing the Tumor Target: Establishment of a Tumor Trap. Frontiers in Pharmacology, 2019, 10, 887.	1.6	15
11	PLA scaffolds production from Thermally Induced Phase Separation: Effect of process parameters and development of an environmentally improved route assisted by supercritical carbon dioxide. Journal of Supercritical Fluids, 2018, 136, 123-135.	1.6	38
12	Development of a non-toxic and non-denaturing formulation process for encapsulation of SDF-1Î± into PLGA/PEG-PLGA nanoparticles to achieve sustained release. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 125, 38-50.	2.0	39
13	Synchrotron X-ray In Situ Tomography of Thermally Induced Phase Separation of Polylactic Acid in 1,4-Dioxane Solution. Crystal Growth and Design, 2018, 18, 7496-7503.	1.4	2
14	Hybrid Gd³⁺/cisplatin cross-linked polymer nanoparticles enhance platinum accumulation and formation of DNA adducts in glioblastoma cell lines. Biomaterials Science, 2018, 6, 2386-2409.	2.6	28
15	Proteinâ€“polysaccharide complexes for enhanced protein delivery in hyaluronic acid templated calcium carbonate microparticles. Journal of Materials Chemistry B, 2017, 5, 7360-7368.	2.9	14
16	Mild synthesis of poly(HEMA)-networks as well-defined nanoparticles in supercritical carbon dioxide. Journal of Materials Chemistry B, 2017, 5, 5806-5815.	2.9	7
17	Protein encapsulation and release from PEO-b-polyphosphoester templated calcium carbonate particles. International Journal of Pharmaceutics, 2016, 513, 130-137.	2.6	14
18	Monolayer kinetic model of formation of Î²-cyclodextrinâ€“Î²-carotene inclusion complex. Colloids and Surfaces B: Biointerfaces, 2015, 135, 542-548.	2.5	6

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19	Sustained release of TGF-Î²1 from biodegradable microparticles prepared by a new green process in CO2 medium. International Journal of Pharmaceutics, 2015, 493, 357-365.	2.6	6
20	Preparation of polymeric particles in CO₂ medium using non-toxic solvents: discussions on the mechanism of particle formation. Journal of Materials Chemistry B, 2015, 3, 1573-1582.	2.9	4
21	Synthesis and characterization of CaCO 3 â€"biopolymer hybrid nanoporous microparticles for controlled release of doxorubicin. Colloids and Surfaces B: Biointerfaces, 2014, 123, 158-169.	2.5	50
22	Quantification of the Dissolved Inorganic Carbon Species and of the pH of Alkaline Solutions Exposed to CO2 under Pressure: A Novel Approach by Raman Scattering. Analytical Chemistry, 2014, 86, 9895-9900.	3.2	12
23	Macroporous poly(ionic liquid) and poly(acrylamide) monoliths from CO2-in-water emulsion templates stabilized by sugar-based surfactants. Journal of Materials Chemistry A, 2013, 1, 8479.	5.2	36
24	Fluorescent Self-Assembled Monolayers of Umbelliferone: A Relationship between Contact Angle and Fluorescence. Langmuir, 2013, 29, 10423-10431.	1.6	9
25	Lysozyme encapsulation within PLGA and CaCO3 microparticles using supercritical CO2 medium. Journal of Supercritical Fluids, 2013, 79, 159-169.	1.6	27
26	Lysozyme encapsulation into nanostructured CaCO3 microparticles using a supercritical CO2 process and comparison with the normal route. Journal of Materials Chemistry B, 2013, 1, 4011.	2.9	40
27	Surface activity of a fluorinated carbohydrate ester in water/carbon dioxide emulsions. Journal of Colloid and Interface Science, 2013, 398, 273-275.	5.0	4
28	Phase transformations in CaCO₃/iron oxide composite induced by thermal treatment and laser irradiation. Journal of Raman Spectroscopy, 2013, 44, 489-495.	1.2	16
29	Small-angle X-ray scattering analysis of porous powders of CaCO₃. Journal of Applied Crystallography, 2012, 45, 881-889.	1.9	39
30	Interfacial and emulsifying properties of amaranth (Amaranthus hypochondriacus) protein isolates under different conditions of pH. LWT - Food Science and Technology, 2012, 45, 1-7.	2.5	22
31	Preparation of polymeric particles in CO2 medium using non-toxic solvents: Formulation and comparisons with a phase separation method. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 82, 498-507.	2.0	17
32	Dynamical and Rheological Properties of Fluorinated Surfactant Films Adsorbed at the Pressurized CO₂â€"H₂O Interface. Langmuir, 2011, 27, 8144-8152.	1.6	16
33	Synthesis of hollow vaterite CaCO3 microspheres in supercritical carbon dioxide medium. Journal of Materials Chemistry, 2011, 21, 9757.	6.7	71
34	New trends in encapsulation of liposoluble vitamins. Journal of Controlled Release, 2010, 146, 276-290.	4.8	280
35	Enzymatic proteolysis of alpha gliadin monolayer spread at the airâ€"water interface. Journal of Colloid and Interface Science, 2010, 347, 69-73.	5.0	5
36	Interactions between poly(ethylene glycol) and protein in dichloromethane/water emulsions. 2. Conditions required to obtain spontaneous emulsification allowing the formation of bioresorbable poly(d,l lactic acid) microparticles. European Journal of Pharmaceutics and Biopharmaceutics, 2009, 73, 66-73.	2.0	3

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37	Self-Assembled Monolayers of Bisphosphonates: Influence of Side Chain Steric Hindrance. Langmuir, 2009, 25, 7828-7835.	1.6	33
38	Dilational rheology and relaxation properties of the adsorption layers of electrostatic complexes between Eudragit RS and chitosan sulfate at the methylene chlorideâ€“water interface. Mendeleev Communications, 2008, 18, 35-37.	0.6	5
39	Dilational viscoelasticity and relaxation properties of interfacial electrostatic complexes between oppositely charged hydrophobic and hydrophilic polyelectrolytes. Colloids and Surfaces B: Biointerfaces, 2008, 65, 43-49.	2.5	28
40	1H NMR relaxation studies of proteinâ€“polysaccharide mixtures. International Journal of Biological Macromolecules, 2008, 43, 359-366.	3.6	26
41	Interactions between poly(ethylene glycol) and protein in dichloromethane/water emulsions: A study of interfacial properties. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 69, 835-843.	2.0	18
42	Impact of bulk and surface properties of some biocompatible hydrophobic polymers on the stability of methylene chloride-in-water mini-emulsions used to prepare nanoparticles by emulsificationâ€“solvent evaporation. Colloids and Surfaces B: Biointerfaces, 2007, 59, 194-207.	2.5	25
43	The influence of headgroup structure and fatty acyl chain saturation of phospholipids on monolayer behavior: a comparative rheological study. Chemistry and Physics of Lipids, 2007, 150, 167-175.	1.5	15
44	Conformational Modifications of Î± Gliadin and Globulin Proteins upon Complex Coacervates Formation with Gum Arabic as Studied by Raman Microspectroscopy. Biomacromolecules, 2006, 7, 2616-2623.	2.6	83
45	Dynamic and rheological properties of classic and macromolecular surfactant at the supercritical CO2â€“H2O interface. Journal of Supercritical Fluids, 2006, 37, 375-383.	1.6	5
46	Plant proteinâ€“polysaccharide interactions in solutions: application of soft particle analysis and light scattering measurements. Colloids and Surfaces B: Biointerfaces, 2005, 41, 95-102.	2.5	34
47	Interactions between hen egg-white lysozyme, PEG2,000, and PLA50 at the airâ€“water interface. Colloids and Surfaces B: Biointerfaces, 2005, 42, 97-106.	2.5	8
48	Characterization and biocompatibility of organogels based on l-alanine for parenteral drug delivery implants. Biomaterials, 2005, 26, 6242-6253.	5.7	135
49	Oil/water â€œhand-bag like structuresâ€: how interfacial rheology can help to understand their formation?. Journal of Drug Delivery Science and Technology, 2005, 15, 3-9.	1.4	2
50	Rheological Interfacial Properties of Plant Proteinâ^'Arabic Gum Coacervates at the Oilâ^'Water Interface. Biomacromolecules, 2005, 6, 790-796.	2.6	55
51	Effect of H2Oâ^'CO2Organization on Ovalbumin Adsorption at the Supercritical CO2â^'Water Interface. Journal of Physical Chemistry B, 2005, 109, 1874-1881.	1.2	15
52	Formation and Rheological Properties of the Supercritical CO2â^'Water Pure Interface. Journal of Physical Chemistry B, 2005, 109, 3990-3997.	1.2	50
53	Adsorption Kinetics and Rheological Interfacial Properties of Plant Proteins at the Oilâ^'Water Interface. Biomacromolecules, 2004, 5, 2088-2093.	2.6	56
54	Adsorption kinetics of hydrophobic polysoaps at the methylene chlorideâ€“water interface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 243, 33-42.	2.3	26

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55	Evidence and characterization of complex coacervates containing plant proteins: application to the microencapsulation of oil droplets. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 232, 239-247.	2.3	120
56	Thermodynamic and Dynamic Interfacial Properties of Binary Carbon Dioxideâˆ’Water Systems. Journal of Physical Chemistry B, 2004, 108, 2405-2412.	1.2	64
57	Enzymatic hydrolysis by cutinase of PEG-co PLA copolymers spread monolayers. Colloids and Surfaces B: Biointerfaces, 2003, 32, 307-320.	2.5	17
58	Interfacial properties of adsorbed films made of a PEG2000 and PLA50 mixture or a copolymer at the dichloromethaneâ€“water interface. Journal of Colloid and Interface Science, 2003, 259, 398-407.	5.0	14
59	Spectroscopic studies on poly(ethylene glycol)â€“lysozyme interactions. International Journal of Pharmaceutics, 2003, 260, 175-186.	2.6	17
60	Rheological Study of Lysozyme and PEG2000 at the Airâˆ’Water and Dichloromethaneâˆ’Water Interfaces under Ramp Type or Sinusoidal Perturbations. Langmuir, 2002, 18, 10248-10254.	1.6	15
61	A Quantitative Method for the Determination of Amphiphilic Drug Release Kinetics from Nanoparticles Using a Langmuir Balance. Analytical Chemistry, 2002, 74, 3416-3420.	3.2	10
62	Basic and enzymatic hydrolysis in mixed polyethylene glycol/poly(d,l-lactide-co-glycolide) films spread at the air-water interface. Colloids and Surfaces B: Biointerfaces, 2002, 23, 7-21.	2.5	6
63	Influence of some formulation parameters on lysozyme adsorption and on its stability in solution. International Journal of Pharmaceutics, 2002, 242, 405-409.	2.6	24
64	Rheological Model for the Study of Dilational Properties of Monolayers. Comportment of Dipalmitoylphosphatidylcholine (DPPC) at the Dichloromethane (DCM)/Water Interface under Ramp Type or Sinusoidal Perturbations. Langmuir, 2001, 17, 8104-8111.	1.6	70
65	Interfacial Properties of a PEG2000âˆ’PLA50 Diblock Copolymer at the Air/Water Interface. Langmuir, 2001, 17, 7837-7841.	1.6	19
66	Interfacial properties of amiodarone: the stabilizing effect of phosphate anions. Colloids and Surfaces B: Biointerfaces, 2001, 20, 219-227.	2.5	23
67	Role of the electrostatic interactions on the basic or acidic hydrolysis kinetics of poly-(d,l-lactide) monolayers. Colloids and Surfaces B: Biointerfaces, 2000, 17, 241-254.	2.5	6
68	Adsorption of CETP on monolayers formed from HDL extracted lipids. Colloids and Surfaces B: Biointerfaces, 2000, 17, 1-9.	2.5	4
69	Interfacial Properties of Mixed Polyethylene Glycol/Poly(d,l-lactide-co-glycolide) Films Spread at the Air/Water Interface. Langmuir, 2000, 16, 1861-1867.	1.6	24
70	The lyotropic polymorphism of two pharmacologically active molecules. Liquid Crystals, 1999, 26, 1281-1293.	0.9	4
71	Characterization of the morphology of poly(Î±-hydroxy acid)s Langmuirâ€“Blodgett films by atomic force microscopy measurements. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 155, 117-129.	2.3	7
72	Interfacial behavior of HDL3 spread at air/water interface. I. Dynamic properties. Colloids and Surfaces B: Biointerfaces, 1999, 13, 221-231.	2.5	5

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73	Interfacial behavior of HDL3 spread at air/water interface. II. Structural analysis by AFM. Colloids and Surfaces B: Biointerfaces, 1999, 13, 233-240.	2.5	2
74	Why does PEG 400 co-encapsulation improve NGF stability and release from PLGA biodegradable microspheres?. Pharmaceutical Research, 1999, 16, 1294-1299.	1.7	125
75	Direct qualitative and quantitative characterization of a radiosensitizer, 5-iodo-2â€²-deoxyuridine within biodegradable polymeric microspheres by FT-Raman spectroscopy. Analyst, The, 1999, 124, 37-42.	1.7	19
76	NGF release from poly(d,l-lactide-co-glycolide) microspheres. Effect of some formulation parameters on encapsulated NGF stability. Journal of Controlled Release, 1998, 56, 175-187.	4.8	150
77	Liquid Crystals and Colloids in Waterâˆ'Amiodarone Systems. Langmuir, 1998, 14, 542-546.	1.6	19
78	Bovine serum albumin release from poly(Î±-hydroxy acid) microspheres: effects of polymer molecular weight and surface properties. Journal of Controlled Release, 1997, 45, 75-86.	4.8	79
79	Enzymatic hydrolysis of poly(D, L-lactide) spread monolayers by cutinase. Colloid and Polymer Science, 1997, 275, 449-457.	1.0	22
80	Hydrolysis kinetics of poly(d,l-lactide) monolayers spread on basic or acidic aqueous subphases. Colloids and Surfaces B: Biointerfaces, 1997, 8, 217-225.	2.5	45
81	Effect of hydrophobic protein SP-C on structure and dilatational properties of the model monolayers of pulmonary surfactant. Colloids and Surfaces B: Biointerfaces, 1996, 6, 243-260.	2.5	40
82	Dynamic Properties of Poly(DL-lactide) and Polyvinyl Alcohol Monolayers at the Air/Water and Dichloromethane/Water Interfaces. Journal of Colloid and Interface Science, 1995, 169, 380-392.	5.0	106
83	Dilatational Properties of Poly(DL-lactic acid) and Bovine Serum Albumin Monolayers Spread at the Air/Water Interface. Langmuir, 1995, 11, 599-606.	1.6	30
84	Dilatational Properties of Adsorbed Poly(D,L-lactide) and Bovine Serum Albumin Monolayers at the Dichloromethane/Water Interface. Langmuir, 1995, 11, 1636-1644.	1.6	50
85	Dilatational Properties of Poly(D,L-lactic acid) and Bovine Serum Albumin Monolayers Formed from Spreading an Oil-in-Water Emulsion at the Air/Water Interface. Langmuir, 1995, 11, 2131-2136.	1.6	14
86	Interactions of Poly (Î±-hydroxy Acid)s with Poly (vinyl Alcohol) at the Air/Water and at the Dichloromethane/Water Interfaces. Journal of Colloid and Interface Science, 1994, 163, 37-48.	5.0	17
87	First-Order Transition in a Polymer Monolayer: Structural Analysis by Transmission Electronic Microscopy and Atomic Force Microscopy. Langmuir, 1994, 10, 1654-1656.	1.6	28
88	A Study of Poly(Î±-hydroxy acid)s Monolayers Spread at the Air/Water Interface: Influence of the D,L-Lactic Acid/Glycolic Acid Ratio. Journal of Colloid and Interface Science, 1993, 160, 1-9.	5.0	25
89	Modification of the surface free energy components of a polymer by adsorption of poly(oxyethylene)-poly(oxypropylene) block co-polymers. Journal of Adhesion Science and Technology, 1992, 6, 1359-1369.	1.4	3