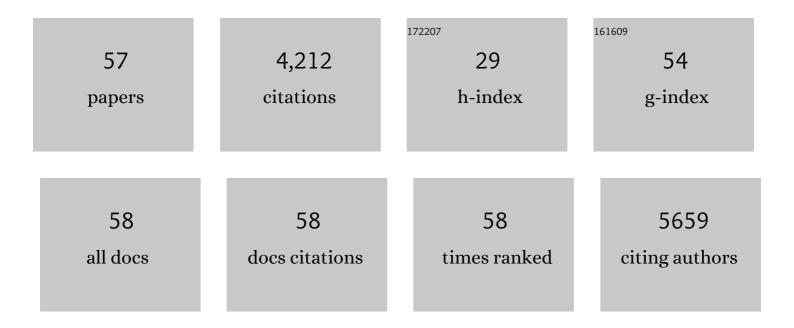
Rebecca L Carrier

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Cardiac tissue engineering: Cell seeding, cultivation parameters, and tissue construct characterization. , 1999, 64, 580-589.		473
2	The utility of cyclodextrins for enhancing oral bioavailability. Journal of Controlled Release, 2007, 123, 78-99.	4.8	464
3	Interconnected Microphysiological Systems for Quantitative Biology and Pharmacology Studies. Scientific Reports, 2018, 8, 4530.	1.6	341
4	Perfusion Improves Tissue Architecture of Engineered Cardiac Muscle. Tissue Engineering, 2002, 8, 175-188.	4.9	308
5	Barrier Properties of Gastrointestinal Mucus to Nanoparticle Transport. Macromolecular Bioscience, 2010, 10, 1473-1483.	2.1	244
6	Gas exchange is essential for bioreactor cultivation of tissue engineered cartilage. , 1999, 63, 197-205.		202
7	Impact of emulsion-based drug delivery systems on intestinal permeability and drug release kinetics. Journal of Controlled Release, 2010, 142, 22-30.	4.8	161
8	Integrated gut/liver microphysiological systems elucidates inflammatory interâ€ŧissue crosstalk. Biotechnology and Bioengineering, 2017, 114, 2648-2659.	1.7	151
9	Mucus models to evaluate the diffusion of drugs and particles. Advanced Drug Delivery Reviews, 2018, 124, 34-49.	6.6	146
10	Effects of oxygen on engineered cardiac muscle. Biotechnology and Bioengineering, 2002, 78, 617-625.	1.7	130
11	Hydrolysis in Pharmaceutical Formulations. Pharmaceutical Development and Technology, 2002, 7, 113-146.	1.1	121
12	Fully synthetic matrices for in vitro culture of primary human intestinal enteroids and endometrial organoids. Biomaterials, 2020, 254, 120125.	5.7	106
13	Size selectivity of intestinal mucus to diffusing particulates is dependent on surface chemistry and exposure to lipids. Journal of Drug Targeting, 2015, 23, 768-774.	2.1	94
14	Engineering the Mucus Barrier. Annual Review of Biomedical Engineering, 2018, 20, 197-220.	5.7	92
15	Influence of micro-well biomimetic topography on intestinal epithelial Caco-2 cell phenotype. Biomaterials, 2009, 30, 6825-6834.	5.7	81
16	Gastrointestinal contents in fasted state and post-lipid ingestion: In vivo measurements and in vitro models for studying oral drug delivery. Journal of Controlled Release, 2011, 151, 110-122.	4.8	74
17	Acute Exposure to Commonly Ingested Emulsifiers Alters Intestinal Mucus Structure and Transport Properties. Scientific Reports, 2018, 8, 10008.	1.6	68
18	Interactions of Microbicide Nanoparticles with a Simulated Vaginal Fluid. Molecular Pharmaceutics, 2012, 9, 3347-3356.	2.3	65

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19	Practical considerations in development of solid dosage forms that contain cyclodextrin. Journal of Pharmaceutical Sciences, 2007, 96, 1691-1707.	1.6	58
20	Synergic effects of crypt-like topography and ECM proteins on intestinal cell behavior in collagen based membranes. Biomaterials, 2010, 31, 7586-7598.	5.7	56
21	Primary Human Colonic Mucosal Barrier Crosstalk with Super Oxygen-Sensitive Faecalibacterium prausnitzii in Continuous Culture. Med, 2021, 2, 74-98.e9.	2.2	55
22	Altered Goblet Cell Differentiation and Surface Mucus Properties in Hirschsprung Disease. PLoS ONE, 2014, 9, e99944.	1.1	50
23	Decellularized retinal matrix: Natural platforms for human retinal progenitor cell culture. Acta Biomaterialia, 2016, 31, 61-70.	4.1	48
24	Food-associated stimuli enhance barrier properties of gastrointestinal mucus. Biomaterials, 2015, 54, 1-8.	5.7	47
25	Increased rate of chondrocyte aggregation in a wavy-walled bioreactor. Biotechnology and Bioengineering, 2004, 88, 767-777.	1.7	40
26	Lipid-associated oral delivery: Mechanisms and analysis of oral absorption enhancement. Journal of Controlled Release, 2016, 240, 544-560.	4.8	39
27	Characterization of colloidal structures during intestinal lipolysis using small-angle neutron scattering. Journal of Colloid and Interface Science, 2017, 499, 189-201.	5.0	39
28	Three dimensional human small intestine models for ADME-Tox studies. Drug Discovery Today, 2014, 19, 1587-1594.	3.2	36
29	Mucus Barriers to Microparticles and Microbes are Altered in Hirschsprung's Disease. Macromolecular Bioscience, 2015, 15, 712-718.	2.1	34
30	Spatially monitoring oxygen level in 3D microfabricated cell culture systems using optical oxygen sensing beads. Lab on A Chip, 2013, 13, 1586.	3.1	32
31	Approaches to Cell Delivery: Substrates and Scaffolds for Cell Therapy. Developments in Ophthalmology, 2014, 53, 143-154.	0.1	32
32	Crossâ€Linking and Degradation Properties of Plasma Enhanced Chemical Vapor Deposited Poly(2â€hydroxyethyl methacrylate). Macromolecular Rapid Communications, 2009, 30, 126-132.	2.0	30
33	Coculture of primary human colon monolayer with human gut bacteria. Nature Protocols, 2021, 16, 3874-3900.	5.5	28
34	Complex, multi-scale small intestinal topography replicated in cellular growth substrates fabricated via chemical vapor deposition of Parylene C. Biofabrication, 2016, 8, 035011.	3.7	25
35	A model predicting delivery of saquinavir in nanoparticles to human monocyte/macrophage (Mo/Mac) cells. Biotechnology and Bioengineering, 2008, 101, 1072-1082.	1.7	24
36	Predicting the Effect of Fed-State Intestinal Contents on Drug Dissolution. Pharmaceutical Research, 2010, 27, 2646-2656.	1.7	20

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37	Label-free Raman microspectral analysis for comparison of cellular uptake and distribution between nontargeted and EGFR-targeted biodegradable polymeric nanoparticles. Drug Delivery and Translational Research, 2013, 3, 575-586.	3.0	20
38	Biocompatibility of Plasma Enhanced Chemical Vapor Deposited Poly(2-hydroxyethyl methacrylate) Films for Biomimetic Replication of the Intestinal Basement Membrane. Biomacromolecules, 2010, 11, 1579-1584.	2.6	16
39	Effect of Ingested Lipids on Drug Dissolution and Release with Concurrent Digestion: A Modeling Approach. Pharmaceutical Research, 2013, 30, 3131-3144.	1.7	13
40	Interphotoreceptor matrix-poly(ϵ-caprolactone) composite scaffolds for human photoreceptor differentiation. Journal of Tissue Engineering, 2014, 5, 204173141455413.	2.3	13
41	Drug Salts and Solubilization: Modeling the Influence of Cyclodextrins on Oral Absorption. Annals of Biomedical Engineering, 2011, 39, 455-468.	1.3	12
42	Intestinal mucus is capable of stabilizing supersaturation of poorly water-soluble drugs. Journal of Controlled Release, 2019, 296, 107-113.	4.8	12
43	Impact of Developmental Age, Necrotizing Enterocolitis Associated Stress, and Oral Therapeutic Intervention on Mucus Barrier Properties. Scientific Reports, 2020, 10, 6692.	1.6	12
44	Precise, Biomimetic Replication of the Multiscale Structure of Intestinal Basement Membrane Using Chemical Vapor Deposition. Tissue Engineering - Part A, 2013, 19, 649-656.	1.6	11
45	Nanomaterial induction of oxidative stress in lung epithelial cells and macrophages. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	11
46	Photoinitiated chemical vapor deposition of cytocompatible poly(2â€hydroxyethyl methacrylate) films. Journal of Biomedical Materials Research - Part A, 2014, 102, 2375-2382.	2.1	10
47	Emulation of Colonic Oxygen Gradients in a Microdevice. SLAS Technology, 2018, 23, 164-171.	1.0	10
48	Materials and Microenvironments for Engineering the Intestinal Epithelium. Annals of Biomedical Engineering, 2020, 48, 1916-1940.	1.3	10
49	Interphotoreceptor matrix based biomaterial: Impact on human retinal progenitor cell attachment and differentiation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 891-899.	1.6	9
50	Lipids alter microbial transport through intestinal mucus. PLoS ONE, 2018, 13, e0209151.	1.1	9
51	Discovery of low mucus adhesion surfaces. Acta Biomaterialia, 2013, 9, 5201-5207.	4.1	8
52	Modeling the human intestinal Mucin (MUC2) C-terminal cystine knot dimer. Journal of Molecular Modeling, 2011, 17, 2953-2963.	0.8	6
53	Glycosaminoglycans compositional analysis of Urodele axolotl (Ambystoma mexicanum) and Porcine Retina. Glycoconjugate Journal, 2019, 36, 165-174.	1.4	6
54	Model predicting impact of complexation with cyclodextrins on oral absorption. Biotechnology and Bioengineering, 2013, 110, 2536-2547.	1.7	5

#	Article	IF	CITATIONS
55	An <i>in vitro</i> intestinal model captures immunomodulatory properties of the microbiota in inflammation. Gut Microbes, 2022, 14, 2039002.	4.3	3
56	Reactive oxygen species limit intestinal mucosa-bacteria homeostasis in vitro. Scientific Reports, 2021, 11, 23727.	1.6	2
57	Synergistic Action of Diclofenac with Endotoxin-Mediated Inflammation Exacerbates Intestinal Injury in Vitro. ACS Infectious Diseases, 2021, 7, 838-848.	1.8	0