

# Mirko Koziolk

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

2,396  
citations

236925

25  
h-index

206112

48  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1866  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of pH and Temperature Profiles in the GI Tract of Fasted Human Subjects Using the Intellipac® System. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 2855-2863.	3.3	324
2	The mechanisms of pharmacokinetic food-drug interactions – A perspective from the UNGAP group. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 134, 31-59.	4.0	224
3	Impact of regional differences along the gastrointestinal tract of healthy adults on oral drug absorption: An UNGAP review. <i>European Journal of Pharmaceutical Sciences</i> , 2019, 134, 153-175.	4.0	146
4	Impact of gastrointestinal tract variability on oral drug absorption and pharmacokinetics: An UNGAP review. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 162, 105812.	4.0	137
5	Navigating the human gastrointestinal tract for oral drug delivery: Uncharted waters and new frontiers. <i>Advanced Drug Delivery Reviews</i> , 2016, 101, 75-88.	13.7	125
6	Intragastric Volume Changes after Intake of a High-Caloric, High-Fat Standard Breakfast in Healthy Human Subjects Investigated by MRI. <i>Molecular Pharmaceutics</i> , 2014, 11, 1632-1639.	4.6	92
7	In vitro models for the prediction of in vivo performance of oral dosage forms: Recent progress from partnership through the IMI OrBiTo collaboration. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 136, 70-83.	4.3	91
8	Interindividual and intraindividual variability of fasted state gastric fluid volume and gastric emptying of water. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 127, 309-317.	4.3	86
9	Current challenges and future perspectives in oral absorption research: An opinion of the UNGAP network. <i>Advanced Drug Delivery Reviews</i> , 2021, 171, 289-331.	13.7	84
10	Exploring gastrointestinal variables affecting drug and formulation behavior: Methodologies, challenges and opportunities. <i>International Journal of Pharmaceutics</i> , 2017, 519, 79-97.	5.2	81
11	Simulating the Postprandial Stomach: Physiological Considerations for Dissolution and Release Testing. <i>Molecular Pharmaceutics</i> , 2013, 10, 1610-1622.	4.6	76
12	Resolving the physiological conditions in bioavailability and bioequivalence studies: Comparison of fasted and fed state. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 108, 214-219.	4.3	71
13	Gastric Water Emptying under Fed State Clinical Trial Conditions Is as Fast as under Fasted Conditions. <i>Molecular Pharmaceutics</i> , 2017, 14, 4262-4271.	4.6	63
14	A dynamic system for the simulation of fasting luminal pH-gradients using hydrogen carbonate buffers for dissolution testing of ionisable compounds. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 51, 224-231.	4.0	60
15	Gastric Emptying and Small Bowel Water Content after Administration of Grapefruit Juice Compared to Water and Isocaloric Solutions of Glucose and Fructose: A Four-Way Crossover MRI Pilot Study in Healthy Subjects. <i>Molecular Pharmaceutics</i> , 2018, 15, 548-559.	4.6	58
16	Development of a bio-relevant dissolution test device simulating mechanical aspects present in the fed stomach. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 57, 250-256.	4.0	47
17	Lipids in the Stomach – Implications for the Evaluation of Food Effects on Oral Drug Absorption. <i>Pharmaceutical Research</i> , 2018, 35, 55.	3.5	47
18	Simulating the Postprandial Stomach: Biorelevant Test Methods for the Estimation of Intragastric Drug Dissolution. <i>Molecular Pharmaceutics</i> , 2013, 10, 2211-2221.	4.6	43

#	ARTICLE	IF	CITATIONS
19	Characterization of the GI transit conditions in Beagle dogs with a telemetric motility capsule. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 136, 221-230.	4.3	42
20	An Automated System for Monitoring and Regulating the pH of Bicarbonate Buffers. AAPS PharmSciTech, 2013, 14, 517-522.	3.3	40
21	In Vitro and In Vivo Test Methods for the Evaluation of Gastroretentive Dosage Forms. Pharmaceutics, 2019, 11, 416.	4.5	39
22	Characterization of gastrointestinal transit and luminal conditions in pigs using a telemetric motility capsule. European Journal of Pharmaceutical Sciences, 2021, 156, 105627.	4.0	31
23	Design and characterization of a novel 3D printed pressure-controlled drug delivery system. European Journal of Pharmaceutical Sciences, 2019, 140, 105060.	4.0	28
24	Application of the GastroDuo as an in Vitro Dissolution Tool To Simulate the Gastric Emptying of the Postprandial Stomach. Molecular Pharmaceutics, 2019, 16, 4651-4660.	4.6	28
25	Release Characteristics of Quetiapine Fumarate Extended Release Tablets Under Biorelevant Stress Test Conditions. AAPS PharmSciTech, 2014, 15, 230-236.	3.3	26
26	In vitro simulation of realistic gastric pressure profiles. European Journal of Pharmaceutical Sciences, 2017, 107, 71-77.	4.0	25
27	Low dose caffeine as a salivary tracer for the determination of gastric water emptying in fed and fasted state: A MRI validation study. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 127, 443-452.	4.3	23
28	Combined Application of MRI and the Salivary Tracer Technique to Determine the <i>in Vivo</i> Disintegration Time of Immediate Release Formulation Administered to Healthy, Fasted Subjects. Molecular Pharmaceutics, 2019, 16, 1782-1786.	4.6	22
29	Dissolution of mesalazine modified release tablets under standard and bio-relevant test conditions. Journal of Pharmacy and Pharmacology, 2015, 67, 199-208.	2.4	20
30	Physiological Considerations and In Vitro Strategies for Evaluating the Influence of Food on Drug Release from Extended-Release Formulations. AAPS PharmSciTech, 2018, 19, 2885-2897.	3.3	20
31	Application of the GastroDuo to study the interplay of drug release and gastric emptying in case of immediate release Aspirin formulations. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 151, 9-17.	4.3	18
32	In Vitro Biopredictive Methods: A Workshop Summary Report. Journal of Pharmaceutical Sciences, 2021, 110, 567-583.	3.3	18
33	Ingestible devices for studying the gastrointestinal physiology and their application in oral biopharmaceutics. Advanced Drug Delivery Reviews, 2021, 176, 113853.	13.7	18
34	Improved Prediction of in Vivo Supersaturation and Precipitation of Poorly Soluble Weakly Basic Drugs Using a Biorelevant Bicarbonate Buffer in a Gastrointestinal Transfer Model. Molecular Pharmaceutics, 2019, 16, 3938-3947.	4.6	17
35	Comparison of In Vitro and In Vivo Results Using the GastroDuo and the Salivary Tracer Technique: Immediate Release Dosage Forms under Fasting Conditions. Pharmaceutics, 2019, 11, 659.	4.5	16
36	Effect of obesity on gastrointestinal transit, pressure and pH using a wireless motility capsule. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 167, 1-8.	4.3	16

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37	Influence of Postprandial Intragastic Pressures on Drug Release from Gastroretentive Dosage Forms. <i>AAPS PharmSciTech</i> , 2018, 19, 2843-2850.	3.3	14
38	In vivo characterization of enteric drug delivery technology capsule after intake in fed state: A cross-validation approach using salivary tracer technique in comparison to MRI. <i>Journal of Controlled Release</i> , 2019, 313, 24-32.	9.9	14
39	A novel mechanical antrum model for the prediction of the gastroretentive potential of dosage forms. <i>International Journal of Pharmaceutics</i> , 2017, 530, 63-70.	5.2	12
40	Integration of advanced methods and models to study drug absorption and related processes: An UNGAP perspective. <i>European Journal of Pharmaceutical Sciences</i> , 2022, 172, 106100.	4.0	12
41	Effect of Coadministered Water on the <i>In Vivo</i> Performance of Oral Formulations Containing N-Acetylcysteine: An <i>In Vitro</i> Approach Using the Dynamic Open Flow-Through Test Apparatus. <i>Molecular Pharmaceutics</i> , 2017, 14, 4272-4280.	4.6	9
42	Automated small-scale in vitro transfer model as screening tool for the prediction of in vivo-dissolution and precipitation of poorly solubles. <i>International Journal of Pharmaceutics</i> , 2019, 556, 150-158.	5.2	9
43	Mucin-Protected Caco-2 Assay to Study Drug Permeation in the Presence of Complex Biorelevant Media. <i>Pharmaceutics</i> , 2022, 14, 699.	4.5	6
44	Application of tiny-TIM as a mechanistic tool to investigate the in vitro performance of different itraconazole formulations under physiologically relevant conditions. <i>European Journal of Pharmaceutical Sciences</i> , 2022, 173, 106165.	4.0	5
45	Application of an automated small-scale in vitro transfer model to predict in vivo precipitation inhibition. <i>International Journal of Pharmaceutics</i> , 2019, 565, 458-471.	5.2	4
46	Development of a furosemide-containing expandable system for gastric retention. <i>Journal of Controlled Release</i> , 2021, 338, 105-118.	9.9	4
47	Application of In Vivo Imaging Techniques and Diagnostic Tools in Oral Drug Delivery Research. <i>Pharmaceutics</i> , 2022, 14, 801.	4.5	4
48	Design and Optimization of a Novel Strategy for the Local Treatment of Helicobacter pylori Infections. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 1302-1309.	3.3	1