

# Andrea Gazzaniga

## List of Publications by Year in descending order

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74  
papers

3,343  
citations

117625

34  
h-index

144013

57  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2901  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hot-melt extruded filaments based on pharmaceutical grade polymers for 3D printing by fused deposition modeling. <i>International Journal of Pharmaceutics</i> , 2016, 509, 255-263.	5.2	309
2	3D printing by fused deposition modeling (FDM) of a swellable/erodible capsular device for oral pulsatile release of drugs. <i>Journal of Drug Delivery Science and Technology</i> , 2015, 30, 360-367.	3.0	230
3	Drug/polymer matrix swelling and dissolution. <i>Pharmaceutical Research</i> , 1988, 05, 488-494.	3.5	222
4	In vitro and in vivo evaluation of an oral system for time and/or site-specific drug delivery. <i>Journal of Controlled Release</i> , 2001, 73, 103-110.	9.9	130
5	Expandable drug delivery system for gastric retention based on shape memory polymers: Development via 4D printing and extrusion. <i>International Journal of Pharmaceutics</i> , 2019, 571, 118700.	5.2	126
6	Injection Molding and its application to drug delivery. <i>Journal of Controlled Release</i> , 2012, 159, 324-331.	9.9	114
7	Oral colon delivery of insulin with the aid of functional adjuvants. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 540-556.	13.7	98
8	Film coatings for oral colon delivery. <i>International Journal of Pharmaceutics</i> , 2013, 457, 372-394.	5.2	86
9	Physical properties of parabens and their mixtures: Solubility in water, thermal behavior, and crystal structures. <i>Journal of Pharmaceutical Sciences</i> , 1999, 88, 1210-1216.	3.3	85
10	Assessment of Solubility of Ketoprofen and Vanillic Acid in Supercritical CO <sub>2</sub> under Dynamic Conditions. <i>Journal of Chemical &amp; Engineering Data</i> , 2000, 45, 161-165.	1.9	81
11	Time-controlled oral delivery systems for colon targeting. <i>Expert Opinion on Drug Delivery</i> , 2006, 3, 583-597.	5.0	81
12	3D printing by fused deposition modeling of single- and multi-compartment hollow systems for oral delivery – A review. <i>International Journal of Pharmaceutics</i> , 2020, 579, 119155.	5.2	78
13	Different HPMC viscosity grades as coating agents for an oral time and/or site-controlled delivery system: a study on process parameters and in vitro performances. <i>European Journal of Pharmaceutical Sciences</i> , 2004, 22, 469-476.	4.0	65
14	Solubility and conversion of carbamazepine polymorphs in supercritical carbon dioxide. <i>European Journal of Pharmaceutical Sciences</i> , 2001, 13, 281-286.	4.0	63
15	Shape memory materials and 4D printing in pharmaceutics. <i>Advanced Drug Delivery Reviews</i> , 2021, 173, 216-237.	13.7	62
16	Quality considerations on the pharmaceutical applications of fused deposition modeling 3D printing. <i>International Journal of Pharmaceutics</i> , 2021, 592, 119901.	5.2	61
17	Thermal behaviour and dissolution properties of naproxen in combinations with chemically modified $\beta$ -Cyclodextrins. <i>Drug Development and Industrial Pharmacy</i> , 1992, 18, 39-53.	2.0	53
18	Oral pulsatile delivery: Rationale and chronopharmaceutical formulations. <i>International Journal of Pharmaceutics</i> , 2010, 398, 1-8.	5.2	53

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19	Coated pellets for oral colon delivery. <i>Journal of Drug Delivery Science and Technology</i> , 2015, 25, 1-15.	3.0	51
20	Oral pulsatile delivery systems based on swellable hydrophilic polymers. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 68, 11-18.	4.3	50
21	Film coatings for oral pulsatile release. <i>International Journal of Pharmaceutics</i> , 2013, 457, 362-371.	5.2	49
22	Industrial Development of a 3D-Printed Nutraceutical Delivery Platform in the Form of a Multicompartment HPC Capsule. <i>AAPS PharmSciTech</i> , 2018, 19, 3343-3354.	3.3	49
23	The effect of poly(ethylene glycol)-poly(D,L-lactic acid) diblock copolymers on peptide acylation. <i>Journal of Controlled Release</i> , 2002, 80, 157-168.	9.9	48
24	A Novel Injection-Molded Capsular Device for Oral Pulsatile Delivery Based on Swellable/Erodible Polymers. <i>AAPS PharmSciTech</i> , 2011, 12, 295-303.	3.3	45
25	Evaluation of Hot-Melt Extrusion and Injection Molding for Continuous Manufacturing of Immediate-Release Tablets. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 1971-1980.	3.3	45
26	Enteric coatings for colonic drug delivery: state of the art. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 1027-1029.	5.0	44
27	Evaluation of hot-melt extrusion technique in the preparation of HPC matrices for prolonged release. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 52, 77-85.	4.0	42
28	Feasibility, stability and release performance of a time-dependent insulin delivery system intended for oral colon release. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 72, 246-251.	4.3	40
29	Oral Delivery System for Two-pulse Colonic Release of Protein Drugs and Protease Inhibitor/Absorption Enhancer Compounds. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 3251-3259.	3.3	40
30	In vitro and human pharmacoscintigraphic evaluation of an oral 5-ASA delivery system for colonic release. <i>International Journal of Pharmaceutics</i> , 2019, 572, 118723.	5.2	39
31	Solid-state characterization of paracetamol metastable polymorphs formed in binary mixtures with hydroxypropylmethylcellulose. <i>Thermochimica Acta</i> , 2003, 406, 55-67.	2.7	38
32	Erodible drug delivery systems for time-controlled release into the gastrointestinal tract. <i>Journal of Drug Delivery Science and Technology</i> , 2016, 32, 229-235.	3.0	38
33	Influence of betacyclodextrin on the release of poorly soluble drugs from inert and hydrophilic heterogeneous polymeric matrices. <i>Biomaterials</i> , 2001, 22, 2647-2651.	11.4	35
34	Modeling of drug release from partially coated matrices made of a high viscosity HPMC. <i>International Journal of Pharmaceutics</i> , 2004, 276, 107-114.	5.2	35
35	A physical analysis of the phenomenon of tablet disintegration. <i>International Journal of Pharmaceutics</i> , 1988, 44, 177-186.	5.2	33
36	Extrusion-spheronisation of highly loaded 5-ASA multiparticulate dosage forms. <i>International Journal of Pharmaceutics</i> , 2010, 402, 153-164.	5.2	33

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37	The Chronotropicâ„¢ System for Pulsatile and Colonic Delivery of Active Molecules in the Era of Precision Medicine: Feasibility by 3D Printing via Fused Deposition Modeling (FDM). <i>Pharmaceutics</i> , 2021, 13, 759.	4.5	33
38	Enteric-coating of pulsatile-release HPC capsules prepared by injection molding. <i>European Journal of Pharmaceutical Sciences</i> , 2015, 70, 1-11.	4.0	32
39	Preparation and evaluation of an oral delivery system for time-dependent colon release of insulin and selected protease inhibitor and absorption enhancer compounds. <i>Journal of Pharmaceutical Sciences</i> , 2009, 98, 4661-4669.	3.3	31
40	Injection-Molded Capsular Device for Oral Pulsatile Release: Development of a Novel Mold. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 489-499.	3.3	31
41	In vitro and in vivo evaluation of an oral multiple-unit formulation for colonic delivery of insulin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 108, 76-82.	4.3	31
42	Comparison of the <i>In Vivo</i> Pharmacokinetics and <i>In Vitro</i> Dissolution of Raltegravir in HIV Patients Receiving the Drug by Swallowing or by Chewing. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 6132-6136.	3.2	30
43	Different HPMC Viscosity Grades as Coating Agents for an Oral Time and/or Siteâ„¢Controlled Delivery System: An Investigation into the Mechanisms Governing Drug Release. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 1527-1536.	3.3	29
44	Retentive drug delivery systems based on shape memory materials. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48798.	2.6	28
45	Lego-Inspired Capsular Devices for the Development of Personalized Dietary Supplements: Proof of Concept With Multimodal Release of Caffeine. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 1990-1999.	3.3	25
46	Gastroresistant capsular device prepared by injection molding. <i>International Journal of Pharmaceutics</i> , 2013, 440, 264-272.	5.2	23
47	Polymeric coatings for a multiple-unit pulsatile delivery system: Preliminary study on free and applied films. <i>International Journal of Pharmaceutics</i> , 2013, 440, 256-263.	5.2	22
48	Erodible Timeâ„¢Dependent Colon Delivery Systems with Improved Efficiency in Delaying the Onset of Drug Release. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 3585-3593.	3.3	22
49	Dry coating of solid dosage forms: an overview of processes and applications. <i>Drug Development and Industrial Pharmacy</i> , 2017, 43, 1919-1931.	2.0	21
50	Crystal Forms of Piroxicam Pivalate: Preparation and Characterization of Two Polymorphs. <i>Journal of Pharmaceutical Sciences</i> , 1998, 87, 333-337.	3.3	19
51	Active packaging for topical cosmetic/drug products: A hot-melt extruded preservative delivery device. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2010, 75, 291-296.	4.3	18
52	Influence of temperature and relative humidity conditions on the pan coating of hydroxypropyl cellulose molded capsules. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 100, 47-57.	4.3	18
53	Structural characterization of two polymorphic forms of piroxicam pivalate. <i>Journal of Pharmaceutical Sciences</i> , 1998, 87, 1608-1614.	3.3	14
54	Injection Molded Capsules for Colon Delivery Combining Time-Controlled and Enzyme-Triggered Approaches. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1917.	4.1	13

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55	Polymorphism of rac-5,6-diisobutyryloxy-2-methylamino-1,2,3,4-tetrahydro-naphthalene hydrochloride (CHF 1035). I. Thermal, spectroscopic, and X-ray diffraction properties. <i>Journal of Pharmaceutical Sciences</i> , 2001, 90, 1154-1163.	3.3	12
56	Novel hydrophilic matrix system with non-uniform drug distribution for zero-order release kinetics. <i>Journal of Controlled Release</i> , 2018, 287, 247-256.	9.9	12
57	Erodible coatings based on HPMC and cellulase for oral time-controlled release of drugs. <i>International Journal of Pharmaceutics</i> , 2020, 585, 119425.	5.2	12
58	Administration strategies and smart devices for drug release in specific sites of the upper GI tract. <i>Journal of Controlled Release</i> , 2022, 348, 537-552.	9.9	12
59	Dataset on a Small-Scale Film-Coating Process Developed for Self-Expanding 4D Printed Drug Delivery Devices. <i>Coatings</i> , 2021, 11, 1252.	2.6	11
60	A study on the release mechanism of drugs from hydrophilic partially coated perforated matrices. <i>Il Farmaco</i> , 2003, 58, 971-976.	0.9	10
61	Evaluation of powder-layering vs. spray-coating techniques in the manufacturing of a swellable/erodible pulsatile delivery system. <i>Drug Development and Industrial Pharmacy</i> , 2020, 46, 1230-1237.	2.0	10
62	Solid-State Chemistry of Ambroxol Theophylline-7-Acetate. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 1139-1146.	3.3	9
63	Non-uniform drug distribution matrix system (NUDDMat) for zero-order release of drugs with different solubility. <i>International Journal of Pharmaceutics</i> , 2020, 581, 119217.	5.2	9
64	Oral hydrophilic matrices having non uniform drug distribution for zero-order release: A literature review. <i>Journal of Controlled Release</i> , 2020, 325, 72-83.	9.9	9
65	Drug- $\beta$ -Cyclodextrin Containing Pellets Prepared with a High-Shear Mixer. <i>Drug Development and Industrial Pharmacy</i> , 2004, 30, 1061-1068.	2.0	8
66	Effect of Polyethylene Glycol Content and Molar Mass on Injection Molding of Hydroxypropyl Methylcellulose Acetate Succinate-Based Gastroresistant Capsular Devices for Oral Drug Delivery. <i>Polymers</i> , 2019, 11, 517.	4.5	7
67	Oral colon delivery platform based on a novel combination approach: Design concept and preliminary evaluation. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 66, 102919.	3.0	7
68	The Use of $\beta$ -Cyclodextrin in the Manufacturing of Disintegrating Pellets with Improved Dissolution Performances. <i>AAPS PharmSciTech</i> , 2008, 9, 708-17.	3.3	6
69	The mechanisms of disintegration of compressed particulate systems. <i>Polymer Bulletin</i> , 1987, 18, 541-544.	3.3	5
70	Optimisation and scale-up of a highly-loaded 5-ASA multi-particulate dosage form using a factorial approach. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 45, 158-168.	4.0	4
71	Cellulase as an "active" excipient in prolonged-release HPMC matrices: A novel strategy towards zero-order release kinetics. <i>International Journal of Pharmaceutics</i> , 2021, 607, 121005.	5.2	4
72	A Physicochemical Approach to the Investigation of the Stability of Trimethoprim-Sulfamethoxazole (Co-Trimoxazole) Mixtures for Injectables. <i>Journal of Pharmaceutical Sciences</i> , 1995, 84, 1254-1258.	3.3	3

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73	Polymorphism of rac-5,6-Diisobutyryloxy-2-methylamino-1,2,3,4-tetrahydro-naphthalene Hydrochloride (CHF 1035). I. Thermal, spectroscopic, and X-ray diffraction properties. Journal of Pharmaceutical Sciences, 2002, 91, 2466.	3.3	1
74	Impact of needle-like crystals on wet and solid-lipid extrusion processes. Powder Technology, 2015, 270, 476-483.	4.2	1