

Giovanni Traverso

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

7,009
citations

35
h-index

83
g-index

131
ext. papers

8,500
ext. citations

15.7
avg, IF

5.76
L-index

#	Paper	IF	Citations
106	Oral mRNA delivery using capsule-mediated gastrointestinal tissue injections. <i>Matter</i> , 2022 ,	12.7	4
105	Bioplastics for a circular economy.. <i>Nature Reviews Materials</i> , 2022 , 1-21	73.3	49
104	Dynamic omnidirectional adhesive microneedle system for oral macromolecular drug delivery.. <i>Science Advances</i> , 2022 , 8, eabk1792	14.3	5
103	An automated all-in-one system for carbohydrate tracking, glucose monitoring, and insulin delivery.. <i>Journal of Controlled Release</i> , 2022 ,	11.7	3
102	Low-cost gastrointestinal manometry via silicone-liquid-metal pressure transducers resembling a quipu.. <i>Nature Biomedical Engineering</i> , 2022 ,	19	3
101	Delivery Systems and Noncarrier Formulations 2022 , 195-202		
100	Implantable system for chronotherapy. <i>Science Advances</i> , 2021 , 7, eabj4624	14.3	1
99	Foundations of gastrointestinal-based drug delivery and future developments. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2021 ,	24.2	4
98	Patient and Health Care Worker Perceptions of Communication and Ability to Identify Emotion When Wearing Standard and Transparent Masks. <i>JAMA Network Open</i> , 2021 , 4, e2135386	10.4	1
97	Dynamic Monitoring of Systemic Biomarkers with Gastric Sensors. <i>Advanced Science</i> , 2021 , e2102861	13.6	1
96	Nanotechnology approaches for global infectious diseases. <i>Nature Nanotechnology</i> , 2021 , 16, 369-384	28.7	58
95	Computationally guided high-throughput design of self-assembling drug nanoparticles. <i>Nature Nanotechnology</i> , 2021 , 16, 725-733	28.7	21
94	Multi-MHz MEMS-VCSEL swept-source optical coherence tomography for endoscopic structural and angiographic imaging with miniaturized brushless motor probes. <i>Biomedical Optics Express</i> , 2021 , 12, 2384-2403	3.5	5
93	Assessment of the Acceptability and Feasibility of Using Mobile Robotic Systems for Patient Evaluation. <i>JAMA Network Open</i> , 2021 , 4, e210667	10.4	5
92	Personalized Radiation Attenuating Materials for Gastrointestinal Mucosal Protection. <i>Advanced Science</i> , 2021 , 8, 2100510	13.6	1
91	The potential of porcine ex vivo platform for intestinal permeability screening of FcRn-targeted drugs. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 162, 99-104	5.7	
90	Kirigami-inspired stents for sustained local delivery of therapeutics. <i>Nature Materials</i> , 2021 , 20, 1085-1092		18

89	Thinking green: modelling respirator reuse strategies to reduce cost and waste. <i>BMJ Open</i> , 2021 , 11, e048687	3	4
88	Oral Biologic Delivery: Advances Toward Oral Subunit, DNA, and mRNA Vaccines and the Potential for Mass Vaccination During Pandemics. <i>Annual Review of Pharmacology and Toxicology</i> , 2021 , 61, 517-540	17.9	13
87	Closed-Loop Region of Interest Enabling High Spatial and Temporal Resolutions in Object Detection and Tracking via Wireless Camera. <i>IEEE Access</i> , 2021 , 9, 87340-87350	3.5	1
86	A microneedle platform for buccal macromolecule delivery. <i>Science Advances</i> , 2021 , 7,	14.3	21
85	Powering Implantable and Ingestible Electronics. <i>Advanced Functional Materials</i> , 2021 , 31, 2009289	15.6	18
84	Identification of bile acid and fatty acid species as candidate rapidly bactericidal agents for topical treatment of gonorrhoea. <i>Journal of Antimicrobial Chemotherapy</i> , 2021 , 76, 2569-2577	5.1	0
83	Prevention of diabetes-associated fibrosis: Strategies in FcRn-targeted nanosystems for oral drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2021 , 175, 113778	18.5	3
82	Oral delivery of systemic monoclonal antibodies, peptides and small molecules using gastric auto-injectors. <i>Nature Biotechnology</i> , 2021 ,	44.5	10
81	Devices for drug delivery in the gastrointestinal tract: A review of systems physically interacting with the mucosa for enhanced delivery. <i>Advanced Drug Delivery Reviews</i> , 2021 , 177, 113926	18.5	7
80	Historical Evolution and Provider Awareness of Inactive Ingredients in Oral Medications. <i>Pharmaceutical Research</i> , 2020 , 37, 234	4.5	
79	Development of a long-acting direct-acting antiviral system for hepatitis C virus treatment in swine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 11987-11994	11.5	5
78	A rapidly deployable individualized system for augmenting ventilator capacity. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	14
77	Bioinspired kirigami metasurfaces as assistive shoe grips. <i>Nature Biomedical Engineering</i> , 2020 , 4, 778-786	6.9	35
76	Machine Learning Uncovers Food- and Excipient-Drug Interactions. <i>Cell Reports</i> , 2020 , 30, 3710-3716.e4	10.6	17
75	Heparin-Coated Albumin Nanoparticles for Drug Combination in Targeting Inflamed Intestine. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000536	10.1	7
74	Light-degradable hydrogels as dynamic triggers for gastrointestinal applications. <i>Science Advances</i> , 2020 , 6, eaay0065	14.3	36
73	Robotically handled whole-tissue culture system for the screening of oral drug formulations. <i>Nature Biomedical Engineering</i> , 2020 , 4, 544-559	19	21
72	Clinical Opportunities for Continuous Biosensing and Closed-Loop Therapies. <i>Trends in Chemistry</i> , 2020 , 2, 319-340	14.8	25

71	Local Targeting of NAD Salvage Pathway Alters the Immune Tumor Microenvironment and Enhances Checkpoint Immunotherapy in Glioblastoma. <i>Cancer Research</i> , 2020 , 80, 5024-5034	10.1	8
70	Ex Vivo and In Vivo Imaging Study of Ultrasound Capsule Endoscopy. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2020 , 14, 021005	1.3	1
69	From Molecule to Patient: A Biotech Perspective. <i>Clinical Pharmacology and Therapeutics</i> , 2020 , 107, 65-67	6.1	2
68	Injection Molded Autoclavable, Scalable, Conformable (iMASC) system for aerosol-based protection: a prospective single-arm feasibility study. <i>BMJ Open</i> , 2020 , 10, e039120	3	13
67	Prospective Evaluation of the Transparent, Elastomeric, Adaptable, Long-Lasting (TEAL) Respirator. <i>ACS Pharmacology and Translational Science</i> , 2020 , 3, 1076-1082	5.9	4
66	Electroceuticals in the Gastrointestinal Tract. <i>Trends in Pharmacological Sciences</i> , 2020 , 41, 960-976	13.2	6
65	Ingestible transiently anchoring electronics for microstimulation and conductive signaling. <i>Science Advances</i> , 2020 , 6, eaaz0127	14.3	16
64	Gastrointestinal synthetic epithelial linings. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	10
63	A luminal unfolding microneedle injector for oral delivery of macromolecules. <i>Nature Medicine</i> , 2019 , 25, 1512-1518	50.5	88
62	Ingestible hydrogel device. <i>Nature Communications</i> , 2019 , 10, 493	17.4	97
61	Quantifying the Value of Orally Delivered Biologic Therapies: A Cost-Effectiveness Analysis of Oral Semaglutide. <i>Journal of Pharmaceutical Sciences</i> , 2019 , 108, 3138-3145	3.9	16
60	Challenges in IBD Research: Novel Technologies. <i>Inflammatory Bowel Diseases</i> , 2019 , 25, S24-S30	4.5	8
59	Temperature-responsive biometamaterials for gastrointestinal applications. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	28
58	Ultra-rapid drug delivery in the oral cavity using ultrasound. <i>Journal of Controlled Release</i> , 2019 , 304, 1-6	11.7	7
57	Microbial therapeutics: New opportunities for drug delivery. <i>Journal of Experimental Medicine</i> , 2019 , 216, 1005-1009	16.6	41
56	A gastric resident drug delivery system for prolonged gram-level dosing of tuberculosis treatment. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	20
55	"Inactive" ingredients in oral medications. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	40
54	An ingestible self-orienting system for oral delivery of macromolecules. <i>Science</i> , 2019 , 363, 611-615	33.3	164

53	Endoscopically Injectable Shear-Thinning Hydrogels Facilitating Polyp Removal. <i>Advanced Science</i> , 2019 , 6, 1901041	13.6	27
52	A once-a-month oral contraceptive. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	16
51	Ingestible electronics for diagnostics and therapy. <i>Nature Reviews Materials</i> , 2019 , 4, 83-98	73.3	85
50	3D-Printed Gastric Resident Electronics. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800490	6.8	43
49	Convergence for Translation: Drug-Delivery Research in Multidisciplinary Teams. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4156-4163	16.4	5
48	Translation durch Konvergenz: Drug-Delivery-Forschung in multidisziplinären Teams. <i>Angewandte Chemie</i> , 2018 , 130, 4226-4234	3.6	0
47	Caffeine-catalyzed gels. <i>Biomaterials</i> , 2018 , 170, 127-135	15.6	5
46	Development of an oral once-weekly drug delivery system for HIV antiretroviral therapy. <i>Nature Communications</i> , 2018 , 9, 2	17.4	120
45	Genotype-targeted local therapy of glioma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8388-E8394	11.5	29
44	Scalable Gastric Resident Systems for Veterinary Application. <i>Scientific Reports</i> , 2018 , 8, 11816	4.9	3
43	Changing the pill: developments toward the promise of an ultra-long-acting gastroretentive dosage form. <i>Expert Opinion on Drug Delivery</i> , 2018 , 15, 1189-1198	8	16
42	Enabling deep-tissue networking for miniature medical devices 2018 ,		32
41	An ingestible bacterial-electronic system to monitor gastrointestinal health. <i>Science</i> , 2018 , 360, 915-918	33.3	232
40	Ultrasound-Mediated Delivery of RNA to Colonic Mucosa of Live Mice. <i>Gastroenterology</i> , 2017 , 152, 1151-1160	11.6	35
39	Prolonged energy harvesting for ingestible devices. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	98
38	Wireless Power Transfer to Millimeter-Sized Gastrointestinal Electronics Validated in a Swine Model. <i>Scientific Reports</i> , 2017 , 7, 46745	4.9	32
37	Flexible piezoelectric devices for gastrointestinal motility sensing. <i>Nature Biomedical Engineering</i> , 2017 , 1, 807-817	19	81
36	Nanoparticulate Drug Delivery Systems Targeting Inflammation for Treatment of Inflammatory Bowel Disease. <i>Nano Today</i> , 2017 , 16, 82-96	17.9	78

35	Defining optimal permeant characteristics for ultrasound-mediated gastrointestinal delivery. <i>Journal of Controlled Release</i> , 2017 , 268, 113-119	11.7	10
34	Transmitting location. <i>Nature Biomedical Engineering</i> , 2017 , 1, 684-685	19	2
33	Evolution of macromolecular complexity in drug delivery systems. <i>Nature Reviews Chemistry</i> , 2017 , 1,	34.6	174
32	Oral delivery of biologics using drug-device combinations. <i>Current Opinion in Pharmacology</i> , 2017 , 36, 8-13	5.1	24
31	Triggerable tough hydrogels for gastric resident dosage forms. <i>Nature Communications</i> , 2017 , 8, 124	17.4	74
30	Oral, ultra-long-lasting drug delivery: Application toward malaria elimination goals. <i>Science Translational Medicine</i> , 2016 , 8, 365ra157	17.5	125
29	Past, Present, and Future Drug Delivery Systems for Antiretrovirals. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 3471-3482	3.9	19
28	A Janus Mucoadhesive and Omniphobic Device for Gastrointestinal Retention. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1141-6	10.1	20
27	Of microneedles and ultrasound: Physical modes of gastrointestinal macromolecule delivery. <i>Tissue Barriers</i> , 2016 , 4, e1150235	4.3	13
26	Whole-Exome Sequencing Analyses of Inflammatory Bowel Disease-Associated Colorectal Cancers. <i>Gastroenterology</i> , 2016 , 150, 931-43	13.3	156
25	Circumferential optical coherence tomography angiography imaging of the swine esophagus using a micromotor balloon catheter. <i>Biomedical Optics Express</i> , 2016 , 7, 2927-42	3.5	23
24	A pH-responsive supramolecular polymer gel as an enteric elastomer for use in gastric devices. <i>Nature Materials</i> , 2015 , 14, 1065-71	27	218
23	Perspective: Special delivery for the gut. <i>Nature</i> , 2015 , 519, S19	50.4	45
22	Ultrahigh speed en face OCT capsule for endoscopic imaging. <i>Biomedical Optics Express</i> , 2015 , 6, 1146-63	3.5	48
21	Ultrasound-mediated gastrointestinal drug delivery. <i>Science Translational Medicine</i> , 2015 , 7, 310ra168	17.5	64
20	An inflammation-targeting hydrogel for local drug delivery in inflammatory bowel disease. <i>Science Translational Medicine</i> , 2015 , 7, 300ra128	17.5	196
19	Microneedles for drug delivery via the gastrointestinal tract. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 362-7	3.9	90
18	Physiologic Status Monitoring via the Gastrointestinal Tract. <i>PLoS ONE</i> , 2015 , 10, e0141666	3.7	19

17	Simple battery armor to protect against gastrointestinal injury from accidental ingestion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16490-5	11.5	25
16	System for clinical photometric stereo endoscopy 2014 ,		2
15	Towards wireless capsule endoscopic ultrasound (WCEU) 2014 ,		7
14	Photometric stereo endoscopy. <i>Journal of Biomedical Optics</i> , 2013 , 18, 076017	3.5	28
13	Residency training and international medical graduates: coming to America no more. <i>JAMA - Journal of the American Medical Association</i> , 2012 , 308, 2193-4	27.4	20
12	Three classes of genes mutated in colorectal cancers with chromosomal instability. <i>Cancer Research</i> , 2004 , 64, 2998-3001	10.1	165
11	Multicolor in vitro translation. <i>Nature Biotechnology</i> , 2003 , 21, 1093-7	44.5	24
10	Transforming single DNA molecules into fluorescent magnetic particles for detection and enumeration of genetic variations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 8817-22	11.5	637
9	Hyper-recombination and genetic instability in BLM-deficient epithelial cells. <i>Cancer Research</i> , 2003 , 63, 8578-81	10.1	36
8	Detection of APC mutations in fecal DNA from patients with colorectal tumors. <i>New England Journal of Medicine</i> , 2002 , 346, 311-20	59.2	267
7	Detection of proximal colorectal cancers through analysis of faecal DNA. <i>Lancet, The</i> , 2002 , 359, 403-4	40	122
6	Germline mutations of the gene encoding bone morphogenetic protein receptor 1A in juvenile polyposis. <i>Nature Genetics</i> , 2001 , 28, 184-7	36.3	524
5	Top-down morphogenesis of colorectal tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 2640-5	11.5	272
4	Genes expressed in human tumor endothelium. <i>Science</i> , 2000 , 289, 1197-202	33.3	1583
3	Individualized System for Augmenting Ventilator Efficacy (iSAVE): A Rapidly deployable system to expand ventilator capacity		4
2	Prophylaxis with tetracyclines in ARDS: Potential therapy for COVID-19-induced ARDS?		5
1	Respirators in Healthcare: Material, Design, Regulatory, Environmental, and Economic Considerations for Clinical Efficacy. <i>Global Challenges</i> , 2200001	4.3	