

# Giovanni Traverso

## List of Publications by Year in descending order

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Version: 2024-02-01

124  
papers

10,449  
citations

71004

43  
h-index

38517

99  
g-index

131  
all docs

131  
docs citations

131  
times ranked

14104  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oral delivery of systemic monoclonal antibodies, peptides and small molecules using gastric auto-injectors. <i>Nature Biotechnology</i> , 2022, 40, 103-109.	9.4	64
2	Preferences of Persons With or at Risk for Hepatitis C for Long-Acting Treatments. <i>Clinical Infectious Diseases</i> , 2022, 75, 3-10.	2.9	4
3	Foundations of gastrointestinal-based drug delivery and future developments. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2022, 19, 219-238.	8.2	66
4	Oral mRNA delivery using capsule-mediated gastrointestinal tissue injections. <i>Matter</i> , 2022, 5, 975-987.	5.0	48
5	Bioplastics for a circular economy. <i>Nature Reviews Materials</i> , 2022, 7, 117-137.	23.3	550
6	Dynamic omnidirectional adhesive microneedle system for oral macromolecular drug delivery. <i>Science Advances</i> , 2022, 8, eabk1792.	4.7	54
7	An automated all-in-one system for carbohydrate tracking, glucose monitoring, and insulin delivery. <i>Journal of Controlled Release</i> , 2022, 343, 31-42.	4.8	6
8	Low-cost gastrointestinal manometry via silicone liquid-metal pressure transducers resembling a quipu. <i>Nature Biomedical Engineering</i> , 2022, 6, 1092-1104.	11.6	30
9	A Retractable Six-Prong Laparoscopic Grasper for Laparoscopic Myomectomy. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2022, 16, .	0.4	0
10	Respirators in Healthcare: Material, Design, Regulatory, Environmental, and Economic Considerations for Clinical Efficacy. <i>Global Challenges</i> , 2022, 6, .	1.8	1
11	Mobile Robotic Platform for Contactless Vital Sign Monitoring. <i>Cyborg and Bionic Systems</i> , 2022, .	3.7	20
12	Development of oil-based gels as versatile drug delivery systems for pediatric applications. <i>Science Advances</i> , 2022, 8, .	4.7	19
13	Delivery of therapeutic carbon monoxide by gas-entrapping materials. <i>Science Translational Medicine</i> , 2022, 14, .	5.8	21
14	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.	4.2	38
15	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.	2.6	5
16	A microneedle platform for buccal macromolecule delivery. <i>Science Advances</i> , 2021, 7, .	4.7	70
17	Powering Implantable and Ingestible Electronics. <i>Advanced Functional Materials</i> , 2021, 31, 2009289.	7.8	57
18	Nanotechnology approaches for global infectious diseases. <i>Nature Nanotechnology</i> , 2021, 16, 369-384.	15.6	232

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19	Computationally guided high-throughput design of self-assembling drug nanoparticles. <i>Nature Nanotechnology</i> , 2021, 16, 725-733.	15.6	64
20	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.	1.5	18
21	Assessment of the Acceptability and Feasibility of Using Mobile Robotic Systems for Patient Evaluation. <i>JAMA Network Open</i> , 2021, 4, e210667.	2.8	13
22	Personalized Radiation Attenuating Materials for Gastrointestinal Mucosal Protection. <i>Advanced Science</i> , 2021, 8, 2100510.	5.6	3
23	Zero-Crossing-Based Bio-Engineered Sensor. , 2021, , .		3
24	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.	2.0	2
25	Kirigami-inspired stents for sustained local delivery of therapeutics. <i>Nature Materials</i> , 2021, 20, 1085-1092.	13.3	52
26	Thinking green: modelling respirator reuse strategies to reduce cost and waste. <i>BMJ Open</i> , 2021, 11, e048687.	0.8	12
27	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.	1.3	3
28	Prevention of diabetes-associated fibrosis: Strategies in FcRn-targeted nanosystems for oral drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2021, 175, 113778.	6.6	13
29	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.	6.6	26
30	Dynamic Monitoring of Systemic Biomarkers with Gastric Sensors. <i>Advanced Science</i> , 2021, 8, e2102861.	5.6	5
31	Implantable system for chronotherapy. <i>Science Advances</i> , 2021, 7, eabj4624.	4.7	9
32	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.	2.8	7
33	Platform for the Delivery of Unformulated RNA In Vivo. <i>Journal of Pharmaceutical Sciences</i> , 2021, , .	1.6	1
34	From Molecule to Patient: A Biotech Perspective. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 107, 65-67.	2.3	3
35	Injection Molded Autoclavable, Scalable, Conformable (iMASC) system for aerosol-based protection: a prospective single-arm feasibility study. <i>BMJ Open</i> , 2020, 10, e039120.	0.8	17
36	Prospective Evaluation of the Transparent, Elastomeric, Adaptable, Long-Lasting (TEAL) Respirator. <i>ACS Pharmacology and Translational Science</i> , 2020, 3, 1076-1082.	2.5	6

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37	Electroceuticals in the Gastrointestinal Tract. Trends in Pharmacological Sciences, 2020, 41, 960-976.	4.0	18
38	Ingestible transiently anchoring electronics for microstimulation and conductive signaling. Science Advances, 2020, 6, eaaz0127.	4.7	35
39	Drug Delivery: Heparin-Coated Albumin Nanoparticles for Drug Combination in Targeting Inflamed Intestine (Adv. Healthcare Mater. 16/2020). Advanced Healthcare Materials, 2020, 9, 2070052.	3.9	0
40	Gastrointestinal synthetic epithelial linings. Science Translational Medicine, 2020, 12, .	5.8	36
41	Historical Evolution and Provider Awareness of Inactive Ingredients in Oral Medications. Pharmaceutical Research, 2020, 37, 234.	1.7	0
42	Development of a long-acting direct-acting antiviral system for hepatitis C virus treatment in swine. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11987-11994.	3.3	15
43	A rapidly deployable individualized system for augmenting ventilator capacity. Science Translational Medicine, 2020, 12, .	5.8	23
44	Bioinspired kirigami metasurfaces as assistive shoe grips. Nature Biomedical Engineering, 2020, 4, 778-786.	11.6	61
45	Machine Learning Uncovers Food- and Excipient-Drug Interactions. Cell Reports, 2020, 30, 3710-3716.e4.	2.9	37
46	Heparin-Coated Albumin Nanoparticles for Drug Combination in Targeting Inflamed Intestine. Advanced Healthcare Materials, 2020, 9, e2000536.	3.9	17
47	Light-degradable hydrogels as dynamic triggers for gastrointestinal applications. Science Advances, 2020, 6, eaay0065.	4.7	71
48	Robotically handled whole-tissue culture system for the screening of oral drug formulations. Nature Biomedical Engineering, 2020, 4, 544-559.	11.6	35
49	Clinical Opportunities for Continuous Biosensing and Closed-Loop Therapies. Trends in Chemistry, 2020, 2, 319-340.	4.4	39
50	Local Targeting of NAD <sup>+</sup> Salvage Pathway Alters the Immune Tumor Microenvironment and Enhances Checkpoint Immunotherapy in Glioblastoma. Cancer Research, 2020, 80, 5024-5034.	0.4	28
51	Ex Vivo and In Vivo Imaging Study of Ultrasound Capsule Endoscopy. Journal of Medical Devices, Transactions of the ASME, 2020, 14, 021005.	0.4	4
52	Endoscopically Injectable Shear-Thinning Hydrogels Facilitating Polyp Removal. Advanced Science, 2019, 6, 1901041.	5.6	47
53	A luminal unfolding microneedle injector for oral delivery of macromolecules. Nature Medicine, 2019, 25, 1512-1518.	15.2	167
54	Ingestible hydrogel device. Nature Communications, 2019, 10, 493.	5.8	168

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55	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.	1.6	21
56	Challenges in IBD Research: Novel Technologies. <i>Inflammatory Bowel Diseases</i> , 2019, 25, S24-S30.	0.9	14
57	Temperature-responsive biometamaterials for gastrointestinal applications. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	51
58	Ultra-rapid drug delivery in the oral cavity using ultrasound. <i>Journal of Controlled Release</i> , 2019, 304, 1-6.	4.8	12
59	Microbial therapeutics: New opportunities for drug delivery. <i>Journal of Experimental Medicine</i> , 2019, 216, 1005-1009.	4.2	57
60	A gastric resident drug delivery system for prolonged gram-level dosing of tuberculosis treatment. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	38
61	“Inactive” ingredients in oral medications. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	68
62	Making the case: developing innovative adherence solutions for the treatment of tuberculosis. <i>BMJ Global Health</i> , 2019, 4, e001323.	2.0	10
63	An ingestible self-orienting system for oral delivery of macromolecules. <i>Science</i> , 2019, 363, 611-615.	6.0	287
64	A once-a-month oral contraceptive. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	33
65	Ingestible electronics for diagnostics and therapy. <i>Nature Reviews Materials</i> , 2019, 4, 83-98.	23.3	146
66	3D-Printed Gastric Resident Electronics. <i>Advanced Materials Technologies</i> , 2019, 4, 1800490.	3.0	72
67	Convergence for Translation: Drug Delivery Research in Multidisciplinary Teams. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4156-4163.	7.2	8
68	Translation durch Konvergenz: Drug Delivery-Forschung in multidisziplinären Teams. <i>Angewandte Chemie</i> , 2018, 130, 4226-4234.	1.6	2
69	Caffeine-catalyzed gels. <i>Biomaterials</i> , 2018, 170, 127-135.	5.7	9
70	Development of an oral once-weekly drug delivery system for HIV antiretroviral therapy. <i>Nature Communications</i> , 2018, 9, 2.	5.8	180
71	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.	2.4	38
72	Enabling deep-tissue networking for miniature medical devices. , 2018, , .		59

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73	An ingestible bacterial-electronic system to monitor gastrointestinal health. <i>Science</i> , 2018, 360, 915-918.	6.0	380
74	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.	3.3	40
75	Scalable Gastric Resident Systems for Veterinary Application. <i>Scientific Reports</i> , 2018, 8, 11816.	1.6	8
76	Ultrasound-Mediated Delivery of RNA to Colonic Mucosa of Live Mice. <i>Gastroenterology</i> , 2017, 152, 1151-1160.	0.6	46
77	Prolonged energy harvesting for ingestible devices. <i>Nature Biomedical Engineering</i> , 2017, 1, .	11.6	148
78	Wireless Power Transfer to Millimeter-Sized Gastrointestinal Electronics Validated in a Swine Model. <i>Scientific Reports</i> , 2017, 7, 46745.	1.6	45
79	Flexible piezoelectric devices for gastrointestinal motility sensing. <i>Nature Biomedical Engineering</i> , 2017, 1, 807-817.	11.6	127
80	Nanoparticulate drug delivery systems targeting inflammation for treatment of inflammatory bowel disease. <i>Nano Today</i> , 2017, 16, 82-96.	6.2	136
81	Defining optimal permeant characteristics for ultrasound-mediated gastrointestinal delivery. <i>Journal of Controlled Release</i> , 2017, 268, 113-119.	4.8	12
82	Transmitting location. <i>Nature Biomedical Engineering</i> , 2017, 1, 684-685.	11.6	3
83	Evolution of macromolecular complexity in drug delivery systems. <i>Nature Reviews Chemistry</i> , 2017, 1, .	13.8	233
84	Oral delivery of biologics using drug-device combinations. <i>Current Opinion in Pharmacology</i> , 2017, 36, 8-13.	1.7	41
85	Triggerable tough hydrogels for gastric resident dosage forms. <i>Nature Communications</i> , 2017, 8, 124.	5.8	106
86	Circumferential optical coherence tomography angiography imaging of the swine esophagus using a micromotor balloon catheter. <i>Biomedical Optics Express</i> , 2016, 7, 2927.	1.5	27
87	Oral, ultra-long-lasting drug delivery: Application toward malaria elimination goals. <i>Science Translational Medicine</i> , 2016, 8, 365ra157.	5.8	181
88	Past, Present, and Future Drug Delivery Systems for Antiretrovirals. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 3471-3482.	1.6	23
89	A Janus Mucoadhesive and Omniphobic Device for Gastrointestinal Retention. <i>Advanced Healthcare Materials</i> , 2016, 5, 1141-1146.	3.9	27
90	Low-frequency ultrasound for drug delivery in the gastrointestinal tract. <i>Expert Opinion on Drug Delivery</i> , 2016, 13, 1045-1048.	2.4	27

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91	Of microneedles and ultrasound: Physical modes of gastrointestinal macromolecule delivery. <i>Tissue Barriers</i> , 2016, 4, e1150235.	1.6	18
92	Whole-Exome Sequencing Analyses of Inflammatory Bowel Disease-Associated Colorectal Cancers. <i>Gastroenterology</i> , 2016, 150, 931-943.	0.6	208
93	Eating at the right time. <i>Science Translational Medicine</i> , 2016, 8, .	5.8	0
94	Linked in: Cholesterol connects oligos to liver. <i>Science Translational Medicine</i> , 2016, 8, .	5.8	0
95	Abstract 127: The genomic landscapes of inflammatory bowel disease-associated colorectal cancers. , 2016, , .		0
96	A pH-responsive supramolecular polymer gel as an enteric elastomer for use in gastric devices. <i>Nature Materials</i> , 2015, 14, 1065-1071.	13.3	268
97	Engineering precision. <i>Science Translational Medicine</i> , 2015, 7, 289ed6.	5.8	10
98	Perspective: Special delivery for the gut. <i>Nature</i> , 2015, 519, S19-S19.	13.7	59
99	Ultrahigh speed en face OCT capsule for endoscopic imaging. <i>Biomedical Optics Express</i> , 2015, 6, 1146.	1.5	60
100	Ultrasound-mediated gastrointestinal drug delivery. <i>Science Translational Medicine</i> , 2015, 7, 310ra168.	5.8	95
101	An inflammation-targeting hydrogel for local drug delivery in inflammatory bowel disease. <i>Science Translational Medicine</i> , 2015, 7, 300ra128.	5.8	288
102	Microneedles for Drug Delivery via the Gastrointestinal Tract. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 362-367.	1.6	133
103	Why some fish don't tan. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	1
104	Physiologic Status Monitoring via the Gastrointestinal Tract. <i>PLoS ONE</i> , 2015, 10, e0141666.	1.1	28
105	A sticky situation helps colitis. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	0
106	AIRE-ing out the gut. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	0
107	A soothing MSC-based ulcer treatment. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	0
108	A self-propelled colon scope. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	0

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109	Protease inhibitor passes oral exam. <i>Science Translational Medicine</i> , 2015, 7, .	5.8	0
110	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, 16490-16495.	3.3	33
111	System for clinical photometric stereo endoscopy. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
112	Towards wireless capsule endoscopic ultrasound (WCEU). , 2014, , .		10
113	Photometric stereo endoscopy. <i>Journal of Biomedical Optics</i> , 2013, 18, 1.	1.4	36
114	Residency Training and International Medical Graduates. <i>JAMA - Journal of the American Medical Association</i> , 2012, 308, 2193.	3.8	25
115	Three Classes of Genes Mutated In Colorectal Cancers with Chromosomal Instability. <i>Cancer Research</i> , 2004, 64, 2998-3001.	0.4	174
116	Multicolor in vitro translation. <i>Nature Biotechnology</i> , 2003, 21, 1093-1097.	9.4	24
117	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, 8817-8822.	3.3	744
118	Hyper-recombination and genetic instability in BLM-deficient epithelial cells. <i>Cancer Research</i> , 2003, 63, 8578-81.	0.4	38
119	Detection of APC Mutations in Fecal DNA from Patients with Colorectal Tumors. <i>New England Journal of Medicine</i> , 2002, 346, 311-320.	13.9	320
120	Detection of proximal colorectal cancers through analysis of faecal DNA. <i>Lancet, The</i> , 2002, 359, 403-404.	6.3	142
121	Germline mutations of the gene encoding bone morphogenetic protein receptor 1A in juvenile polyposis. <i>Nature Genetics</i> , 2001, 28, 184-187.	9.4	591
122	Top-down morphogenesis of colorectal tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 2640-2645.	3.3	319
123	Genes Expressed in Human Tumor Endothelium. <i>Science</i> , 2000, 289, 1197-1202.	6.0	1,733
124	Thinking Green: Respirator Reuse Strategies to Reduce Cost and Waste. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0