## Giovanni Traverso

## List of Publications by Year in descending order

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61857 33814 10,449 124 43 99 citations h-index g-index papers 131 131 131 12508 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Genes Expressed in Human Tumor Endothelium. Science, 2000, 289, 1197-1202.	6.0	1,733
2	Transforming single DNA molecules into fluorescent magnetic particles for detection and enumeration of genetic variations. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 8817-8822.	3 <b>.</b> 3	744
3	Germline mutations of the gene encoding bone morphogenetic protein receptor 1A in juvenile polyposis. Nature Genetics, 2001, 28, 184-187.	9.4	591
4	Bioplastics for a circular economy. Nature Reviews Materials, 2022, 7, 117-137.	23.3	550
5	An ingestible bacterial-electronic system to monitor gastrointestinal health. Science, 2018, 360, 915-918.	6.0	380
6	Detection of APCM utations in Fecal DNA from Patients with Colorectal Tumors. New England Journal of Medicine, 2002, 346, 311-320.	13.9	320
7	Top-down morphogenesis of colorectal tumors. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 2640-2645.	3.3	319
8	An inflammation-targeting hydrogel for local drug delivery in inflammatory bowel disease. Science Translational Medicine, 2015, 7, 300ra128.	5.8	288
9	An ingestible self-orienting system for oral delivery of macromolecules. Science, 2019, 363, 611-615.	6.0	287
10	A pH-responsive supramolecular polymer gel as an enteric elastomer for use in gastric devices. Nature Materials, 2015, 14, 1065-1071.	13.3	268
11	Evolution of macromolecular complexity in drug delivery systems. Nature Reviews Chemistry, 2017, $1, .$	13.8	233
12	Nanotechnology approaches for global infectious diseases. Nature Nanotechnology, 2021, 16, 369-384.	15.6	232
13	Whole-Exome Sequencing Analyses of Inflammatory Bowel Diseaseâ^'Associated Colorectal Cancers. Gastroenterology, 2016, 150, 931-943.	0.6	208
14	Oral, ultra–long-lasting drug delivery: Application toward malaria elimination goals. Science Translational Medicine, 2016, 8, 365ra157.	5.8	181
15	Development of an oral once-weekly drug delivery system for HIV antiretroviral therapy. Nature Communications, 2018, 9, 2.	5.8	180
16	Three Classes of Genes Mutated In Colorectal Cancers with Chromosomal Instability. Cancer Research, 2004, 64, 2998-3001.	0.4	174
17	Ingestible hydrogel device. Nature Communications, 2019, 10, 493.	5.8	168
18	A luminal unfolding microneedle injector for oral delivery of macromolecules. Nature Medicine, 2019, 25, 1512-1518.	15.2	167

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19	Prolonged energy harvesting for ingestible devices. Nature Biomedical Engineering, 2017, 1, .	11.6	148
20	Ingestible electronics for diagnostics and therapy. Nature Reviews Materials, 2019, 4, 83-98.	23.3	146
21	Detection of proximal colorectal cancers through analysis of faecal DNA. Lancet, The, 2002, 359, 403-404.	6.3	142
22	Nanoparticulate drug delivery systems targeting inflammation for treatment of inflammatory bowel disease. Nano Today, 2017, 16, 82-96.	6.2	136
23	Microneedles for Drug Delivery via the Gastrointestinal Tract. Journal of Pharmaceutical Sciences, 2015, 104, 362-367.	1.6	133
24	Flexible piezoelectric devices for gastrointestinal motility sensing. Nature Biomedical Engineering, 2017, 1, 807-817.	11.6	127
25	Triggerable tough hydrogels for gastric resident dosage forms. Nature Communications, 2017, 8, 124.	5.8	106
26	Ultrasound-mediated gastrointestinal drug delivery. Science Translational Medicine, 2015, 7, 310ra168.	5.8	95
27	3Dâ€Printed Gastric Resident Electronics. Advanced Materials Technologies, 2019, 4, 1800490.	3.0	72
28	Light-degradable hydrogels as dynamic triggers for gastrointestinal applications. Science Advances, 2020, 6, eaay0065.	4.7	71
29	A microneedle platform for buccal macromolecule delivery. Science Advances, 2021, 7, .	4.7	70
30	"Inactive―ingredients in oral medications. Science Translational Medicine, 2019, 11, .	5.8	68
31	Foundations of gastrointestinal-based drug delivery and future developments. Nature Reviews Gastroenterology and Hepatology, 2022, 19, 219-238.	8.2	66
32	Computationally guided high-throughput design of self-assembling drug nanoparticles. Nature Nanotechnology, 2021, 16, 725-733.	15.6	64
33	Oral delivery of systemic monoclonal antibodies, peptides and small molecules using gastric auto-injectors. Nature Biotechnology, 2022, 40, 103-109.	9.4	64
34	Bioinspired kirigami metasurfaces as assistive shoe grips. Nature Biomedical Engineering, 2020, 4, 778-786.	11.6	61
35	Ultrahigh speed en face OCT capsule for endoscopic imaging. Biomedical Optics Express, 2015, 6, 1146.	1.5	60
36	Perspective: Special delivery for the gut. Nature, 2015, 519, S19-S19.	13.7	59

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37	Enabling deep-tissue networking for miniature medical devices. , 2018, , .		59
38	Microbial therapeutics: New opportunities for drug delivery. Journal of Experimental Medicine, 2019, 216, 1005-1009.	4.2	57
39	Powering Implantable and Ingestible Electronics. Advanced Functional Materials, 2021, 31, 2009289.	7.8	57
40	Dynamic omnidirectional adhesive microneedle system for oral macromolecular drug delivery. Science Advances, 2022, 8, eabk1792.	4.7	54
41	Kirigami-inspired stents for sustained local delivery of therapeutics. Nature Materials, 2021, 20, 1085-1092.	13.3	52
42	Temperature-responsive biometamaterials for gastrointestinal applications. Science Translational Medicine, 2019, $11$ , .	5.8	51
43	Oral mRNA delivery using capsule-mediated gastrointestinal tissue injections. Matter, 2022, 5, 975-987.	5.0	48
44	Endoscopically Injectable Shearâ€Thinning Hydrogels Facilitating Polyp Removal. Advanced Science, 2019, 6, 1901041.	5.6	47
45	Ultrasound-Mediated Delivery of RNA to Colonic Mucosa of LiveÂMice. Gastroenterology, 2017, 152, 1151-1160.	0.6	46
46	Wireless Power Transfer to Millimeter-Sized Gastrointestinal Electronics Validated in a Swine Model. Scientific Reports, 2017, 7, 46745.	1.6	45
47	Oral delivery of biologics using drug-device combinations. Current Opinion in Pharmacology, 2017, 36, 8-13.	1.7	41
48	Genotype-targeted local therapy of glioma. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8388-E8394.	3.3	40
49	Clinical Opportunities for Continuous Biosensing and Closed-Loop Therapies. Trends in Chemistry, 2020, 2, 319-340.	4.4	39
50	Changing the pill: developments toward the promise of an ultra-long-acting gastroretentive dosage form. Expert Opinion on Drug Delivery, 2018, 15, 1189-1198.	2.4	38
51	A gastric resident drug delivery system for prolonged gram-level dosing of tuberculosis treatment. Science Translational Medicine, 2019, 11, .	5.8	38
52	Oral Biologic Delivery: Advances Toward Oral Subunit, DNA, and mRNA Vaccines and the Potential for Mass Vaccination During Pandemics. Annual Review of Pharmacology and Toxicology, 2021, 61, 517-540.	4.2	38
53	Hyper-recombination and genetic instability in BLM-deficient epithelial cells. Cancer Research, 2003, 63, 8578-81.	0.4	38
54	Machine Learning Uncovers Food- and Excipient-Drug Interactions. Cell Reports, 2020, 30, 3710-3716.e4.	2.9	37

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55	Photometric stereo endoscopy. Journal of Biomedical Optics, 2013, 18, 1.	1.4	36
56	Gastrointestinal synthetic epithelial linings. Science Translational Medicine, 2020, 12, .	5.8	36
57	Ingestible transiently anchoring electronics for microstimulation and conductive signaling. Science Advances, 2020, 6, eaaz0127.	4.7	35
58	Robotically handled whole-tissue culture system for the screening of oral drug formulations. Nature Biomedical Engineering, 2020, 4, 544-559.	11.6	35
59	Simple battery armor to protect against gastrointestinal injury from accidental ingestion. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16490-16495.	3.3	33
60	A once-a-month oral contraceptive. Science Translational Medicine, 2019, 11, .	5.8	33
61	Low-cost gastrointestinal manometry via silicone–liquid-metal pressure transducers resembling a quipu. Nature Biomedical Engineering, 2022, 6, 1092-1104.	11.6	30
62	Local Targeting of NAD+ Salvage Pathway Alters the Immune Tumor Microenvironment and Enhances Checkpoint Immunotherapy in Glioblastoma. Cancer Research, 2020, 80, 5024-5034.	0.4	28
63	Physiologic Status Monitoring via the Gastrointestinal Tract. PLoS ONE, 2015, 10, e0141666.	1.1	28
64	Circumferential optical coherence tomography angiography imaging of the swine esophagus using a micromotor balloon catheter. Biomedical Optics Express, 2016, 7, 2927.	1.5	27
65	A Janus Mucoadhesive and Omniphobic Device for Gastrointestinal Retention. Advanced Healthcare Materials, 2016, 5, 1141-1146.	3.9	27
66	Low-frequency ultrasound for drug delivery in the gastrointestinal tract. Expert Opinion on Drug Delivery, 2016, 13, 1045-1048.	2.4	27
67	Devices for drug delivery in the gastrointestinal tract: A review of systems physically interacting with the mucosa for enhanced delivery. Advanced Drug Delivery Reviews, 2021, 177, 113926.	6.6	26
68	Residency Training and International Medical Graduates. JAMA - Journal of the American Medical Association, 2012, 308, 2193.	3.8	25
69	Multicolor in vitro translation. Nature Biotechnology, 2003, 21, 1093-1097.	9.4	24
70	Past, Present, and Future Drug Delivery Systems for Antiretrovirals. Journal of Pharmaceutical Sciences, 2016, 105, 3471-3482.	1.6	23
71	A rapidly deployable individualized system for augmenting ventilator capacity. Science Translational Medicine, 2020, 12, .	5.8	23
72	Quantifying the Value of Orally Delivered Biologic Therapies: AÂCost-Effectiveness Analysis of Oral Semaglutide. Journal of Pharmaceutical Sciences, 2019, 108, 3138-3145.	1.6	21

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73	Delivery of therapeutic carbon monoxide by gas-entrapping materials. Science Translational Medicine, 2022, 14, .	5.8	21
74	Mobile Robotic Platform for Contactless Vital Sign Monitoring. Cyborg and Bionic Systems, 2022, 2022, .	3.7	20
75	Development of oil-based gels as versatile drug delivery systems for pediatric applications. Science Advances, 2022, 8, .	4.7	19
76	Of microneedles and ultrasound: Physical modes of gastrointestinal macromolecule delivery. Tissue Barriers, 2016, 4, e1150235.	1.6	18
77	Electroceuticals in the Gastrointestinal Tract. Trends in Pharmacological Sciences, 2020, 41, 960-976.	4.0	18
78	Multi-MHz MEMS-VCSEL swept-source optical coherence tomography for endoscopic structural and angiographic imaging with miniaturized brushless motor probes. Biomedical Optics Express, 2021, 12, 2384.	1.5	18
79	Injection Molded Autoclavable, Scalable, Conformable (iMASC) system for aerosol-based protection: a prospective single-arm feasibility study. BMJ Open, 2020, 10, e039120.	0.8	17
80	Heparinâ€Coated Albumin Nanoparticles for Drug Combination in Targeting Inflamed Intestine. Advanced Healthcare Materials, 2020, 9, e2000536.	3.9	17
81	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
82	Challenges in IBD Research: Novel Technologies. Inflammatory Bowel Diseases, 2019, 25, S24-S30.	0.9	14
83	Assessment of the Acceptability and Feasibility of Using Mobile Robotic Systems for Patient Evaluation. JAMA Network Open, 2021, 4, e210667.	2.8	13
84	Prevention of diabetes-associated fibrosis: Strategies in FcRn-targeted nanosystems for oral drug delivery. Advanced Drug Delivery Reviews, 2021, 175, 113778.	6.6	13
85	Defining optimal permeant characteristics for ultrasound-mediated gastrointestinal delivery. Journal of Controlled Release, 2017, 268, 113-119.	4.8	12
86	Ultra-rapid drug delivery in the oral cavity using ultrasound. Journal of Controlled Release, 2019, 304, 1-6.	4.8	12
87	Thinking green: modelling respirator reuse strategies to reduce cost and waste. BMJ Open, 2021, 11, e048687.	0.8	12
88	Towards wireless capsule endoscopic ultrasound (WCEU). , 2014, , .		10
89	Engineering precision. Science Translational Medicine, 2015, 7, 289ed6.	5.8	10
90	Making the case: developing innovative adherence solutions for the treatment of tuberculosis. BMJ Global Health, 2019, 4, e001323.	2.0	10

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91	Caffeine-catalyzed gels. Biomaterials, 2018, 170, 127-135.	5.7	9
92	Implantable system for chronotherapy. Science Advances, 2021, 7, eabj4624.	4.7	9
93	Convergence for Translation: Drugâ€Delivery Research in Multidisciplinary Teams. Angewandte Chemie - International Edition, 2018, 57, 4156-4163.	7.2	8
94	Scalable Gastric Resident Systems for Veterinary Application. Scientific Reports, 2018, 8, 11816.	1.6	8
95	Patient and Health Care Worker Perceptions of Communication and Ability to Identify Emotion When Wearing Standard and Transparent Masks. JAMA Network Open, 2021, 4, e2135386.	2.8	7
96	Prospective Evaluation of the Transparent, Elastomeric, Adaptable, Long-Lasting (TEAL) Respirator. ACS Pharmacology and Translational Science, 2020, 3, 1076-1082.	2.5	6
97	An automated all-in-one system for carbohydrate tracking, glucose monitoring, and insulin delivery. Journal of Controlled Release, 2022, 343, 31-42.	4.8	6
98	Closed-Loop Region of Interest Enabling High Spatial and Temporal Resolutions in Object Detection and Tracking via Wireless Camera. IEEE Access, 2021, 9, 87340-87350.	2.6	5
99	Dynamic Monitoring of Systemic Biomarkers with Gastric Sensors. Advanced Science, 2021, 8, e2102861.	5.6	5
100	Preferences of Persons With or at Risk for Hepatitis C for Long-Acting Treatments. Clinical Infectious Diseases, 2022, 75, 3-10.	2.9	4
101	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
102	Transmitting location. Nature Biomedical Engineering, 2017, 1, 684-685.	11.6	3
103	From Molecule to Patient: A Biotech Perspective. Clinical Pharmacology and Therapeutics, 2020, 107, 65-67.	2.3	3
104	Personalized Radiation Attenuating Materials for Gastrointestinal Mucosal Protection. Advanced Science, 2021, 8, 2100510.	5.6	3
105	Zero-Crossing-Based Bio-Engineered Sensor. , 2021, , .		3
106	Identification of bile acid and fatty acid species as candidate rapidly bactericidal agents for topical treatment of gonorrhoea. Journal of Antimicrobial Chemotherapy, 2021, 76, 2569-2577.	1.3	3
107	System for clinical photometric stereo endoscopy. Proceedings of SPIE, 2014, , .	0.8	2
108	Translation durch Konvergenz: Drugâ€Deliveryâ€Forschung in multidisziplinÃÆn Teams. Angewandte Chemie, 2018, 130, 4226-4234.	1.6	2

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109	The potential of porcine ex vivo platform for intestinal permeability screening of FcRn-targeted drugs. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 162, 99-104.	2.0	2
110	Why some fish don't tan. Science Translational Medicine, 2015, 7, .	5.8	1
111	Platform for the Delivery of Unformulated RNA In Vivo. Journal of Pharmaceutical Sciences, 2021, , .	1.6	1
112	Respirators in Healthcare: Material, Design, Regulatory, Environmental, and Economic Considerations for Clinical Efficacy. Global Challenges, 2022, 6, .	1.8	1
113	Drug Delivery: Heparinâ€Coated Albumin Nanoparticles for Drug Combination in Targeting Inflamed Intestine (Adv. Healthcare Mater. 16/2020). Advanced Healthcare Materials, 2020, 9, 2070052.	3.9	0
114	Historical Evolution and Provider Awareness of Inactive Ingredients in Oral Medications. Pharmaceutical Research, 2020, 37, 234.	1.7	0
115	A sticky situation helps colitis. Science Translational Medicine, 2015, 7, .	5 <b>.</b> 8	0
116	<i>AIRE</i> ing out the gut. Science Translational Medicine, 2015, 7, .	5.8	0
117	A soothing MSC-based ulcer treatment. Science Translational Medicine, 2015, 7, .	<b>5.</b> 8	0
118	A self-propelled colon scope. Science Translational Medicine, 2015, 7, .	<b>5.</b> 8	0
119	Protease inhibitor passes oral exam. Science Translational Medicine, 2015, 7, .	<b>5.</b> 8	0
120	Eating at the right time. Science Translational Medicine, 2016, 8, .	5 <b>.</b> 8	0
121	Linked in: Cholesterol connects oligos to liver. Science Translational Medicine, 2016, 8, .	<b>5.</b> 8	0
122	Abstract 127: The genomic landscapes of inflammatory bowel disease-associated colorectal cancers. , 2016, , .		0
123	Thinking Green: Respirator Reuse Strategies to Reduce Cost and Waste. SSRN Electronic Journal, 0, , .	0.4	0
124	A Retractable Six-Prong Laparoscopic Grasper for Laparoscopic Myomectomy. Journal of Medical Devices, Transactions of the ASME, 2022, $16$ , .	0.4	0