

Thomas D Wang

List of Publications by Citations

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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.

105
papers

3,223
citations

32
h-index

54
g-index

114
ext. papers

3,864
ext. citations

7.2
avg, IF

5.11
L-index

#	Paper	IF	Citations
105	Detection of colonic dysplasia in vivo using a targeted heptapeptide and confocal microendoscopy. <i>Nature Medicine</i> , 2008 , 14, 454-8	50.5	374
104	In vivo imaging using fluorescent antibodies to tumor necrosis factor predicts therapeutic response in Crohn's disease. <i>Nature Medicine</i> , 2014 , 20, 313-8	50.5	258
103	Targeted imaging of esophageal neoplasia with a fluorescently labeled peptide: first-in-human results. <i>Science Translational Medicine</i> , 2013 , 5, 184ra61	17.5	134
102	Neonatal acquisition of species protects against colonization by bacterial pathogens. <i>Science</i> , 2017 , 356, 315-319	33.3	122
101	Molecular imaging in gastrointestinal endoscopy. <i>Gastroenterology</i> , 2010 , 138, 828-33.e1	13.3	115
100	Dual-axis confocal microscope for high-resolution in vivo imaging. <i>Optics Letters</i> , 2003 , 28, 414-6	3	110
99	Iron Uptake via DMT1 Integrates Cell Cycle with JAK-STAT3 Signaling to Promote Colorectal Tumorigenesis. <i>Cell Metabolism</i> , 2016 , 24, 447-461	24.6	108
98	Functional imaging of colonic mucosa with a fibered confocal microscope for real-time in vivo pathology. <i>Clinical Gastroenterology and Hepatology</i> , 2007 , 5, 1300-5	6.9	97
97	Detection of endogenous biomolecules in Barrett's esophagus by Fourier transform infrared spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15864-9	11.5	81
96	Miniature near-infrared dual-axes confocal microscope utilizing a two-dimensional microelectromechanical systems scanner. <i>Optics Letters</i> , 2007 , 32, 256-8	3	79
95	Affinity peptide for targeted detection of dysplasia in Barrett's esophagus. <i>Gastroenterology</i> , 2010 , 139, 1472-80	13.3	78
94	Exogenous Molecular Probes for Targeted Imaging in Cancer: Focus on Multi-modal Imaging. <i>Cancers</i> , 2010 , 2, 1251-87	6.6	63
93	Targeted detection of murine colonic dysplasia in vivo with flexible multispectral scanning fiber endoscopy. <i>Journal of Biomedical Optics</i> , 2012 , 17, 021103	3.5	60
92	Three-dimensional in vivo imaging by a handheld dual-axes confocal microscope. <i>Optics Express</i> , 2008 , 16, 7224-32	3.3	60
91	In vivo fluorescence-based endoscopic detection of colon dysplasia in the mouse using a novel peptide probe. <i>PLoS ONE</i> , 2011 , 6, e17384	3.7	58
90	In vivo targeting of colonic dysplasia on fluorescence endoscopy with near-infrared octapeptide. <i>Gut</i> , 2013 , 62, 395-403	19.2	56
89	Emerging optical methods for surveillance of Barrett's oesophagus. <i>Gut</i> , 2015 , 64, 1816-23	19.2	54

88	Confocal fluorescence microscope with dual-axis architecture and biaxial postobjective scanning. <i>Journal of Biomedical Optics</i> , 2004 , 9, 735-42	3.5	54
87	Dual-axes confocal microscopy with post-objective scanning and low-coherence heterodyne detection. <i>Optics Letters</i> , 2003 , 28, 1915-7	3	50
86	Large displacement vertical translational actuator based on piezoelectric thin films. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20,	2	48
85	Targeted Optical Imaging Agents in Cancer: Focus on Clinical Applications. <i>Contrast Media and Molecular Imaging</i> , 2018 , 2018, 2015237	3.2	47
84	Dual-axes confocal reflectance microscope for distinguishing colonic neoplasia. <i>Journal of Biomedical Optics</i> , 2006 , 11, 054019	3.5	41
83	Efficient rejection of scattered light enables deep optical sectioning in turbid media with low-numerical-aperture optics in a dual-axis confocal architecture. <i>Journal of Biomedical Optics</i> , 2008 , 13, 034020	3.5	40
82	Multimodal endoscope can quantify wide-field fluorescence detection of Barrett's neoplasia. <i>Endoscopy</i> , 2016 , 48, A1-A13	3.4	38
81	Detection of Sessile Serrated Adenomas in the Proximal Colon Using Wide-Field Fluorescence Endoscopy. <i>Gastroenterology</i> , 2017 , 152, 1002-1013.e9	13.3	36
80	Fibered confocal microscopy of bladder tumors: an ex vivo study. <i>Journal of Endourology</i> , 2009 , 23, 197-201	20.1	36
79	EGFR Overexpressed in Colonic Neoplasia Can be Detected on Wide-Field Endoscopic Imaging. <i>Clinical and Translational Gastroenterology</i> , 2015 , 6, e101	4.2	35
78	Osteopontin (OPN/SPP1) isoforms collectively enhance tumor cell invasion and dissemination in esophageal adenocarcinoma. <i>Oncotarget</i> , 2015 , 6, 22239-57	3.3	35
77	Near-infrared-labeled peptide multimer functions as phage mimic for high affinity, specific targeting of colonic adenomas in vivo (with videos). <i>Gastrointestinal Endoscopy</i> , 2012 , 76, 1197-206.e1-5	5.2	33
76	Molecular endoscopy for targeted imaging in the digestive tract. <i>The Lancet Gastroenterology and Hepatology</i> , 2016 , 1, 147-155	18.8	33
75	Design and Synthesis of Near-Infrared Peptide for in Vivo Molecular Imaging of HER2. <i>Bioconjugate Chemistry</i> , 2016 , 27, 481-94	6.3	32
74	Multispectral endoscopic imaging of colorectal dysplasia in vivo. <i>Gastroenterology</i> , 2012 , 143, 1435-7	13.3	32
73	Overexpressed Claudin-1 Can Be Visualized Endoscopically in Colonic Adenomas In Vivo. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2016 , 2, 222-237	7.9	30
72	Integrated monolithic 3D MEMS scanner for switchable real time vertical/horizontal cross-sectional imaging. <i>Optics Express</i> , 2016 , 24, 2145-55	3.3	29
71	MEMS-based multiphoton endomicroscope for repetitive imaging of mouse colon. <i>Biomedical Optics Express</i> , 2015 , 6, 3074-83	3.5	27

70	Better health, less spending: Redesigning the transition from pediatric to adult healthcare for youth with chronic illness. <i>Healthcare</i> , 2016 , 4, 57-68	1.8	26
69	Modeling and Simulation of a Parametrically Resonant Micromirror With Duty-Cycled Excitation. <i>Journal of Microelectromechanical Systems</i> , 2014 , 23, 1440-1453	2.5	25
68	In vivo molecular imaging of Barrett's esophagus with confocal laser endomicroscopy. <i>Gastroenterology</i> , 2013 , 145, 56-58	13.3	25
67	Improved rejection of multiply scattered photons in confocal microscopy using dual-axes architecture. <i>Optics Letters</i> , 2007 , 32, 1674-6	3	25
66	Multimodal laser-based angioscopy for structural, chemical and biological imaging of atherosclerosis. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	23
65	Targeted vertical cross-sectional imaging with handheld near-infrared dual axes confocal fluorescence endomicroscope. <i>Biomedical Optics Express</i> , 2013 , 4, 322-30	3.5	22
64	Targeted endoscopic imaging. <i>Gastrointestinal Endoscopy Clinics of North America</i> , 2009 , 19, 283-98	3.3	22
63	A CD44 specific peptide developed by phage display for targeting gastric cancer. <i>Biotechnology Letters</i> , 2015 , 37, 2311-20	3	20
62	Vertical cross-sectional imaging of colonic dysplasia in vivo with multi-spectral dual axes confocal endomicroscopy. <i>Gastroenterology</i> , 2014 , 146, 615-7	13.3	19
61	Use of an endoscope-compatible probe to detect colonic dysplasia with Fourier transform infrared spectroscopy. <i>Journal of Biomedical Optics</i> , 2009 , 14, 044006	3.5	18
60	A three-degree-of-freedom thin-film PZT-actuated microactuator with large out-of-plane displacement. <i>Journal of Micromechanics and Microengineering</i> , 2014 , 24,	2	17
59	Advancing the translation of optical imaging agents for clinical imaging. <i>Biomedical Optics Express</i> , 2013 , 4, 160-70	3.5	15
58	Gastrointestinal imaging in 2015: Emerging trends in endoscopic imaging. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2016 , 13, 72-3	24.2	14
57	Multimodal Video Colonoscope for Targeted Wide-Field Detection of Nonpolypoid Colorectal Neoplasia. <i>Gastroenterology</i> , 2016 , 150, 1084-1086	13.3	14
56	TGM2: a cell surface marker in esophageal adenocarcinomas. <i>Journal of Thoracic Oncology</i> , 2014 , 9, 872-819	8.19	14
55	Use of Appropriate Surveillance for Patients With Nondysplastic Barrett's Esophagus. <i>Clinical Gastroenterology and Hepatology</i> , 2018 , 16, 862-869.e3	6.9	13
54	Targeted therapy of colorectal neoplasia with rapamycin in peptide-labeled pegylated octadecyl lithocholate micelles. <i>Journal of Controlled Release</i> , 2015 , 199, 114-21	11.7	12
53	Identification and validation of FGFR2 peptide for detection of early Barrett's neoplasia. <i>Oncotarget</i> , 2017 , 8, 87095-87106	3.3	12

52	Large Stroke Vertical PZT Microactuator With High-Speed Rotational Scanning. <i>Journal of Microelectromechanical Systems</i> , 2014 , 23, 256-258	2.5	12
51	Dual-modal in vivo fluorescence and photoacoustic imaging using a heterodimeric peptide. <i>Chemical Communications</i> , 2018 , 54, 13196-13199	5.8	11
50	An Electrostatic MEMS Translational Scanner with Large Out-of-Plane Stroke for Remote Axial-Scanning in Multi-Photon Microscopy. <i>Micromachines</i> , 2017 , 8, 159	3.3	10
49	Targeted imaging of colorectal dysplasia in living mice with fluorescence microendoscopy. <i>Biomedical Optics Express</i> , 2011 , 2, 981-6	3.5	10
48	Detection of colonic inflammation with Fourier transform infrared spectroscopy using a flexible silver halide fiber. <i>Biomedical Optics Express</i> , 2010 , 1, 1014-1025	3.5	10
47	Improved Extended Kalman Filter Estimation using Threshold Signal Detection with a MEMS Electrostatic Microscanner. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 1328-1336	8.9	10
46	Multiplexed Targeting of Barrett's Neoplasia with a Heterobivalent Ligand: Imaging Study on Mouse Xenograft in Vivo and Human Specimens ex Vivo. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 5323-5331	8.3	9
45	A CD44-specific peptide, RP-1, exhibits capacities of assisting diagnosis and predicting prognosis of gastric cancer. <i>Oncotarget</i> , 2017 , 8, 30063-30076	3.3	9
44	Axial beam scanning in multiphoton microscopy with MEMS-based actuator. <i>Optics Express</i> , 2017 , 25, 2195-2205	3.3	9
43	In vivo photoacoustic tomography of EGFR overexpressed in hepatocellular carcinoma mouse xenograft. <i>Photoacoustics</i> , 2016 , 4, 43-54	9	9
42	Toward real-time quantification of fluorescence molecular probes using target/background ratio for guiding biopsy and endoscopic therapy of esophageal neoplasia. <i>Journal of Medical Imaging</i> , 2017 , 4, 024502	2.6	8
41	Ultrasmall Paramagnetic Iron Oxide Nanoprobe Targeting Epidermal Growth Factor Receptor for In Vivo Magnetic Resonance Imaging of Hepatocellular Carcinoma. <i>Bioconjugate Chemistry</i> , 2017 , 28, 2794-2803	6.3	8
40	AGA White Paper: Roadmap for the Future of Colorectal Cancer Screening in the United States. <i>Clinical Gastroenterology and Hepatology</i> , 2020 , 18, 2667-2678.e2	6.9	8
39	Visualizing epithelial expression of EGFR in vivo with distal scanning side-viewing confocal endomicroscope. <i>Scientific Reports</i> , 2016 , 6, 37315	4.9	8
38	Mathematical model of fluorescence endoscopic image formation. <i>Applied Optics</i> , 1998 , 37, 8103-11	1.7	8
37	Genomic similarity between gastroesophageal junction and esophageal Barrett's adenocarcinomas. <i>Oncotarget</i> , 2016 , 7, 54867-54882	3.3	8
36	Visualizing Epithelial Expression in Vertical and Horizontal Planes With Dual Axes Confocal Endomicroscope Using Compact Distal Scanner. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 1482-1490	11.7	7
35	Ultra-Compact Microsystems-Based Confocal Endomicroscope. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2406-2414	11.7	7

34	Sorafenib encapsulated in nanocarrier functionalized with glypican-3 specific peptide for targeted therapy of hepatocellular carcinoma. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 184, 110498	6	6
33	Identification of Tumor Specific Peptide as EpCAM Ligand and Its Potential Diagnostic and Therapeutic Clinical Application. <i>Molecular Pharmaceutics</i> , 2019 , 16, 2199-2213	5.6	6
32	Motion Estimation for a Compact Electrostatic Microscanner via Shared Driving and Sensing Electrodes in Endomicroscopy. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 661-672	5.5	6
31	Three-dimensional side-view endomicroscope for tracking individual cells. <i>Biomedical Optics Express</i> , 2017 , 8, 5533-5545	3.5	6
30	Multimodal imaging of growth and rapamycin-induced regression of colonic adenomas in apc mutation-dependent mouse. <i>Translational Oncology</i> , 2012 , 5, 313-20	4.9	6
29	Targeted imaging of flat and depressed colonic neoplasms. <i>Gastrointestinal Endoscopy Clinics of North America</i> , 2010 , 20, 579-83	3.3	6
28	Multiplexed endoscopic imaging of Barrett's neoplasia using targeted fluorescent heptapeptides in a phase 1 proof-of-concept study. <i>Gut</i> , 2021 , 70, 1010-1013	19.2	6
27	Large-Displacement Vertical Electrostatic Microactuator Dynamics using Duty-Cycled Softening/Stiffening Parametric Resonance. <i>Journal of Microelectromechanical Systems</i> , 2019 , 28, 351-361 ⁵		5
26	Constitutively Higher Level of GSTT2 in Esophageal Tissues From African Americans Protects Cells Against DNA Damage. <i>Gastroenterology</i> , 2019 , 156, 1404-1415	13.3	5
25	In vivo near-infrared imaging of ErbB2 expressing breast tumors with dual-axes confocal endomicroscopy using a targeted peptide. <i>Scientific Reports</i> , 2017 , 7, 14404	4.9	5
24	Molecular imaging for guiding oncologic prognosis and therapy in esophageal adenocarcinoma. <i>Hospital Practice (1995)</i> , 2011 , 39, 97-106	2.2	5
23	In vivo biomarkers for targeting colorectal neoplasms. <i>Cancer Biomarkers</i> , 2008 , 4, 329-40	3.8	5
22	Detection of colonic neoplasia in vivo using near-infrared-labeled peptide targeting cMet. <i>Scientific Reports</i> , 2019 , 9, 17917	4.9	5
21	Dynamics of Thin-film Piezoelectric Microactuators with Large Vertical Stroke Subject to Multi-axis Coupling and Fabrication Asymmetries. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28,	2	4
20	Diagnostic and Interventional Optical Angioscopy in Ex Vivo Carotid Arteries. <i>Operative Neurosurgery</i> , 2017 , 13, 36-46	1.6	4
19	Integrated Imaging Methodology Detects Claudin-1 Expression in Premalignant Nonpolypoid and Polypoid Colonic Epithelium in Mice. <i>Clinical and Translational Gastroenterology</i> , 2020 , 11, e00089	4.2	3
18	2D resonant microscanner for dual axes confocal fluorescence endomicroscope 2014 ,		3
17	Imaging: Dynamic imaging of gut function--allowing the blind to see. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2014 , 11, 584-6	24.2	3

16	3 degree-of-freedom resonant scanner with full-circumferential range and large out-of-plane displacement. <i>Optics Express</i> , 2019 , 27, 16296-16307	3.3	3
15	Dual Axes Confocal Microscopy. <i>Series in Medical Physics and Biomedical Engineering</i> , 2010 , 481-508		2
14	Thin Layer-Protected Gold Nanoparticles for Targeted Multimodal Imaging with Photoacoustic and CT. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	2
13	Real-time fluorescence target/background (T/B) ratio calculation in multimodal endoscopy for detecting GI tract cancer 2017 ,		1
12	Fiber optic FTIR instrument for in vivo detection of colonic neoplasia 2009 ,		1
11	Abstract 107: Laser Angioscopy Reveals Concealed Ulcers in Substenotic Carotid Plaques in Cryptogenic Stroke Patients: A Preclinical Study. <i>Stroke</i> , 2017 , 48,	6.7	1
10	Image processing metrics for phase identification of a multiaxis MEMS scanner used in single pixel imaging. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 1445-1454	5.5	1
9	Membrane bound Peroxiredoxin-1 serves as a biomarker for in vivo detection of sessile serrated adenomas. <i>Antioxidants and Redox Signaling</i> , 2021 ,	8.4	1
8	Multi-Modal Imaging Probe for Glypican-3 Overexpressed in Orthotopic Hepatocellular Carcinoma. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 15639-15650	8.3	1
7	Multi-photon 3D imaging with an electrothermal actuator with low thermal and inertial mass. <i>Sensors and Actuators A: Physical</i> , 2021 , 329, 112791	3.9	1
6	Endoscopic imaging techniques: beyond narrow band. <i>American Journal of Gastroenterology</i> , 2018 , 113, 1103-1107	0.7	0
5	Engineering Miniature Imaging Instruments 2014 , 835-852		0
4	Switching on the light to see more disease. <i>Gastroenterology</i> , 2010 , 138, 2553-4	13.3	
3	Targeted, multimodality PET-CT and optical imaging platform for visualizing biological function. <i>Gastroenterology</i> , 2010 , 139, 1790-1	13.3	
2	Introduction to the BIOMED 2016 feature issue. <i>Biomedical Optics Express</i> , 2016 , 7, 4415	3.5	
1	Multi-modal imaging for uptake of peptide ligand specific for CD44 by hepatocellular carcinoma.. <i>Photoacoustics</i> , 2022 , 26, 100355	9	