

Keith L Obstein

List of Publications by Year in descending order

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54
papers

1,118
citations

394421

19
h-index

414414

32
g-index

54
all docs

54
docs citations

54
times ranked

991
citing authors

#	ARTICLE	IF	CITATIONS
1	Enabling the future of colonoscopy with intelligent and autonomous magnetic manipulation. <i>Nature Machine Intelligence</i> , 2020, 2, 595-606.	16.0	113
2	Enhanced real-time pose estimation for closed-loop robotic manipulation of magnetically actuated capsule endoscopes. <i>International Journal of Robotics Research</i> , 2018, 37, 890-911.	8.5	94
3	Magnetic Levitation for Soft-Tethered Capsule Colonoscopy Actuated With a Single Permanent Magnet: A Dynamic Control Approach. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 1224-1231.	5.1	83
4	Intelligent magnetic manipulation for gastrointestinal ultrasound. <i>Science Robotics</i> , 2019, 4, .	17.6	77
5	Emerging issues and future developments in capsule endoscopy. <i>Techniques in Gastrointestinal Endoscopy</i> , 2015, 17, 40-46.	0.3	50
6	Capsule endoscopy of the future: Whatâ€™s on the horizon?. <i>World Journal of Gastroenterology</i> , 2015, 21, 10528.	3.3	47
7	Evaluation of colonoscopy technical skill levels by use of an objective kinematic-based system. <i>Gastrointestinal Endoscopy</i> , 2011, 73, 315-321.e1.	1.0	42
8	Adaptive Dynamic Control for Magnetically Actuated Medical Robots. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 3633-3640.	5.1	41
9	Providing Hospitalized Patients With an Educational Booklet Increases the Quality of Colonoscopy Bowel Preparation. <i>Clinical Gastroenterology and Hepatology</i> , 2016, 14, 858-864.	4.4	39
10	Autonomous Retroflexion of a Magnetic Flexible Endoscope. <i>IEEE Robotics and Automation Letters</i> , 2017, 2, 1352-1359.	5.1	35
11	Endoscopy after bariatric surgery (with videos). <i>Gastrointestinal Endoscopy</i> , 2009, 70, 1161-1166.	1.0	31
12	Dual-Continuum Design Approach for Intuitive and Low-Cost Upper Gastrointestinal Endoscopy. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1963-1974.	4.2	31
13	Closed-loop control of soft continuum manipulators under tip follower actuation. <i>International Journal of Robotics Research</i> , 2021, 40, 923-938.	8.5	30
14	A Platform for Gastric Cancer Screening in Low- and Middle-Income Countries. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1324-1332.	4.2	28
15	Video on Diet Before Outpatient Colonoscopy Does Not Improve Quality of Bowel Preparation: A Prospective, Randomized, Controlled Trial. <i>American Journal of Gastroenterology</i> , 2016, 111, 1564-1571.	0.4	28
16	Advanced endoscopic technologies for colorectal cancer screening. <i>World Journal of Gastroenterology</i> , 2013, 19, 431.	3.3	28
17	Competency in esophagogastroduodenoscopy: a validated tool for assessment and generalizable benchmarks for gastroenterology fellows. <i>Gastrointestinal Endoscopy</i> , 2019, 90, 613-620.e1.	1.0	27
18	Autonomously Controlled Magnetic Flexible Endoscope for Colon Exploration. <i>Gastroenterology</i> , 2018, 154, 1577-1579.e1.	1.3	24

#	ARTICLE	IF	CITATIONS
19	Explicit Model Predictive Control of a Magnetic Flexible Endoscope. IEEE Robotics and Automation Letters, 2019, 4, 716-723.	5.1	21
20	Closed Loop Control of a Tethered Magnetic Capsule Endoscope. , 2016, 2016, .		20
21	Nonholonomic closed-loop velocity control of a soft-tethered magnetic capsule endoscope. , 2016, 2016, 1139-1144.		19
22	A disposable continuum endoscope using piston-driven parallel bellow actuator. , 2018, , .		19
23	Gastric Cancer Screening in Low-Income Countries: System Design, Fabrication, and Analysis for an Ultralow-Cost Endoscopy Procedure. IEEE Robotics and Automation Magazine, 2017, 24, 73-81.	2.0	18
24	An Origami-Based Soft Robotic Actuator for Upper Gastrointestinal Endoscopic Applications. Frontiers in Robotics and AI, 2021, 8, 664720.	3.2	17
25	Online Disturbance Estimation for Improving Kinematic Accuracy in Continuum Manipulators. IEEE Robotics and Automation Letters, 2020, 5, 2642-2649.	5.1	16
26	Teleoperation and Contact Detection of a Waterjet-Actuated Soft Continuum Manipulator for Low-Cost Gastroscopy. IEEE Robotics and Automation Letters, 2020, 5, 6427-6434.	5.1	15
27	Controlled colonic insufflation by a remotely triggered capsule for improved mucosal visualization. Endoscopy, 2014, 46, 614-618.	1.8	13
28	Magnetic flexible endoscope for colonoscopy: an initial learning curve analysis. Endoscopy International Open, 2021, 09, E171-E180.	1.8	10
29	Guidelines for Robotic Flexible Endoscopy at the Time of COVID-19. Frontiers in Robotics and AI, 2021, 8, 612852.	3.2	10
30	Parallel Helix Actuators for Soft Robotic Applications. Frontiers in Robotics and AI, 2020, 7, 119.	3.2	8
31	Enteral Stents for Malignant Gastric Outlet Obstruction: Low Reintervention Rates for Obstruction due to Pancreatic Adenocarcinoma Versus Other Etiologies. Journal of Gastrointestinal Surgery, 2021, 25, 720-727.	1.7	8
32	Evaluation of a novel tablet application for improvement in colonoscopy training and mentoring (with video). Gastrointestinal Endoscopy, 2017, 85, 559-565.e1.	1.0	7
33	Sensitivity Ellipsoids for Force Control of Magnetic Robots With Localization Uncertainty. IEEE Transactions on Robotics, 2019, 35, 1123-1135.	10.3	7
34	Evaluation of a novel low-cost disposable endoscope for visual assessment of the esophagus and stomach in an ex-vivo phantom model. Endoscopy International Open, 2019, 07, E1175-E1183.	1.8	7
35	A Compression Valve for Sanitary Control of Fluid-Driven Actuators. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1005-1015.	5.8	7
36	The waterjet necrosectomy device for endoscopic management of pancreatic necrosis: design, development, and preclinical testing (with videos). Gastrointestinal Endoscopy, 2020, 92, 770-775.	1.0	7

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37	Endoscopic ultrasound-guided celiac plexus neurolysis using a reverse phase polymer. World Journal of Gastroenterology, 2010, 16, 728.	3.3	7
38	Reliability of the Boston Bowel Preparation Scale in the Endoscopy Nurse Population. Clinical Gastroenterology and Hepatology, 2016, 14, 775-776.	4.4	6
39	Robotic Autonomy for Magnetic Endoscope Biopsy. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 599-607.	3.2	6
40	Rate of and Factors Associated with Palliative Care Referral among Patients Declined for Liver Transplantation. Journal of Palliative Medicine, 2022, 25, 1404-1408.	1.1	5
41	Sensorless Estimation of the Planar Distal Shape of a Tip-Actuated Endoscope. IEEE Robotics and Automation Letters, 2019, 4, 3371-3377.	5.1	3
42	Active Stabilization of Interventional Tasks Utilizing a Magnetically Manipulated Endoscope. Frontiers in Robotics and AI, 2022, 9, 854081.	3.2	3
43	Restoring Haptic Feedback in NOTES Procedures with a Novel Wireless Tissue Stiffness Probe. Journal of Medical Robotics Research, 2016, 01, 1650002.	1.2	2
44	Toward Autonomous Robotic Colonoscopy: Motion Strategies for Magnetic Capsule Navigation. , 2018, , .		2
45	Development of Gastroenterology and Transplant Hepatology Milestones 2.0: A Guide For Programs, Faculty, and Fellows. Hepatology, 2021, 74, 2226-2232.	7.3	2
46	Su1180 Evaluation of a Novel Disposable Upper Endoscope for Unsedated Bedside (Non-Endoscopy Unit) Tj ETQq0 0 0 rgBT /Overlock 1 AB304.	1.0	1
47	Towards Recovering a Lost Degree of Freedom in Magnet-Driven Robotic Capsule Endoscopy. , 2017, , .		1
48	Su1351 THE MAGNETIC FLEXIBLE ENDOSCOPE (MFE): A LEARNING CURVE ANALYSIS. Gastroenterology, 2020, 158, S-561.	1.3	1
49	Development of gastroenterology and transplant hepatology milestones 2.0: a guide for programs, faculty, and fellows. American Journal of Gastroenterology, 2021, Publish Ahead of Print, 2009-2013.	0.4	1
50	The impact of distraction minimization on endoscopic mentoring and performance. Endoscopy International Open, 2020, 08, E1804-E1810.	1.8	1
51	All tied up: not your typical distended abdomen. Gastroenterology, 2021, , .	1.3	0
52	Development of gastroenterology and transplant hepatology milestones 2.0: a guide for programs, faculty, and fellows. Gastrointestinal Endoscopy, 2021, 94, 665-670.	1.0	0
53	Development of Gastroenterology and Transplant Hepatology Milestones 2.0: A Guide for Programs, Faculty, and Fellows. Gastroenterology, 2021, 161, 1318-1324.	1.3	0
54	ROBOTIC CAPSULE ENDOSCOPY. , 2018, , 451-470.		0