Joseph C Liao

List of Publications by Year in descending order

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LOSEDH CLIAO

#	Article	IF	CITATIONS
1	Organoid Modeling of the Tumor Immune Microenvironment. Cell, 2018, 175, 1972-1988.e16.	13.5	870
2	New and developing diagnostic technologies for urinary tract infections. Nature Reviews Urology, 2017, 14, 296-310.	1.9	195
3	Use of Electrochemical DNA Biosensors for Rapid Molecular Identification of Uropathogens in Clinical Urine Specimens. Journal of Clinical Microbiology, 2006, 44, 561-570.	1.8	184
4	Hedgehog Signaling Restrains Bladder Cancer Progression by Eliciting Stromal Production of Urothelial Differentiation Factors. Cancer Cell, 2014, 26, 521-533.	7.7	164
5	Antimicrobial Susceptibility Testing Using High Surface-to-Volume Ratio Microchannels. Analytical Chemistry, 2010, 82, 1012-1019.	3.2	128
6	Successful Translation of Fluorescence Navigation During Oncologic Surgery: A Consensus Report. Journal of Nuclear Medicine, 2016, 57, 144-150.	2.8	125
7	Endoscopic molecular imaging of human bladder cancer using a CD47 antibody. Science Translational Medicine, 2014, 6, 260ra148.	5.8	124
8	Augmented Bladder Tumor Detection Using Deep Learning. European Urology, 2019, 76, 714-718.	0.9	117
9	Accelerating bacterial growth detection and antimicrobial susceptibility assessment in integrated picoliter droplet platform. Biosensors and Bioelectronics, 2017, 97, 260-266.	5.3	112
10	Adaptable microfluidic system for single-cell pathogen classification and antimicrobial susceptibility testing. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10270-10279.	3.3	101
11	Development of an Advanced Electrochemical DNA Biosensor for Bacterial Pathogen Detection. Journal of Molecular Diagnostics, 2007, 9, 158-168.	1.2	100
12	Single Cell Antimicrobial Susceptibility Testing by Confined Microchannels and Electrokinetic Loading. Analytical Chemistry, 2013, 85, 3971-3976.	3.2	91
13	A Biosensor Platform for Rapid Antimicrobial Susceptibility Testing Directly From Clinical Samples. Journal of Urology, 2011, 185, 148-153.	0.2	90
14	Hybrid electrokinetic manipulation in high-conductivity media. Lab on A Chip, 2011, 11, 1770.	3.1	88
15	Simultaneous transrectal ultrasound and photoacoustic human prostate imaging. Science Translational Medicine, 2019, 11, .	5.8	87
16	Surface-Enhanced Raman Scattering Nanoparticles for Multiplexed Imaging of Bladder Cancer Tissue Permeability and Molecular Phenotype. ACS Nano, 2018, 12, 9669-9679.	7.3	81
17	Blue light cystoscopy for the diagnosis of bladder cancer: Results from the US prospective multicenter registry. Urologic Oncology: Seminars and Original Investigations, 2018, 36, 361.e1-361.e6.	0.8	79
18	System Integration - A Major Step toward Lab on a Chip. Journal of Biological Engineering, 2011, 5, 6.	2.0	76

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19	CD47-Targeted Near-Infrared Photoimmunotherapy for Human Bladder Cancer. Clinical Cancer Research, 2019, 25, 3561-3571.	3.2	70
20	Simple and Precise Counting of Viable Bacteria by Resazurin-Amplified Picoarray Detection. Analytical Chemistry, 2018, 90, 9449-9456.	3.2	65
21	Clinical Validation of Integrated Nucleic Acid and Protein Detection on an Electrochemical Biosensor Array for Urinary Tract Infection Diagnosis. PLoS ONE, 2011, 6, e26846.	1.1	55
22	Multiplex Pathogen Identification for Polymicrobial Urinary Tract Infections Using Biosensor Technology: A Prospective Clinical Study. Journal of Urology, 2009, 182, 2735-2741.	0.2	49
23	Intraoperative Optical Biopsy during Robotic Assisted Radical Prostatectomy Using Confocal Endomicroscopy. Journal of Urology, 2016, 195, 1110-1117.	0.2	48
24	Development of a 90-Minute Integrated Noninvasive Urinary Assay for Bladder Cancer Detection. Journal of Urology, 2018, 199, 655-662.	0.2	48
25	A Cell Phone–Based Microphotometric System for Rapid Antimicrobial Susceptibility Testing. Journal of the Association for Laboratory Automation, 2014, 19, 258-266.	2.8	47
26	Molecular Detection of Bacterial Pathogens Using Microparticle Enhanced Double-Stranded DNA Probes. Analytical Chemistry, 2011, 83, 6349-6354.	3.2	46
27	Rapid, species-specific detection of uropathogen 16S rDNA and rRNA at ambient temperature by dot-blot hybridization and an electrochemical sensor array. Molecular Genetics and Metabolism, 2005, 84, 90-99.	0.5	43
28	Advances in Imaging Technologies in the Evaluation of High-Grade Bladder Cancer. Urologic Clinics of North America, 2015, 42, 147-157.	0.8	41
29	AC Electrokinetics of Physiological Fluids for Biomedical Applications. Journal of the Association for Laboratory Automation, 2015, 20, 611-620.	2.8	40
30	A Pilot Study of <i>In Vivo</i> Confocal Laser Endomicroscopy of Upper Tract Urothelial Carcinoma. Journal of Endourology, 2015, 29, 1418-1423.	1.1	40
31	Three-dimensional, distendable bladder phantom for optical coherence tomography and white light cystoscopy. Journal of Biomedical Optics, 2014, 19, 1.	1.4	39
32	Active Manipulation of Quantum Dots using AC Electrokinetics. Journal of Physical Chemistry C, 2009, 113, 6561-6565.	1.5	37
33	In Situ Electrokinetic Enhancement for Self-Assembled-Monolayer-Based Electrochemical Biosensing. Analytical Chemistry, 2012, 84, 2702-2707.	3.2	37
34	Rapid Antimicrobial Susceptibility Testing with Electrokinetics Enhanced Biosensors for Diagnosis of Acute Bacterial Infections. Annals of Biomedical Engineering, 2014, 42, 2314-2321.	1.3	37
35	Integrated Biosensor Assay for Rapid Uropathogen Identification and Phenotypic Antimicrobial Susceptibility Testing. European Urology Focus, 2017, 3, 293-299.	1.6	37
36	3D reconstruction of cystoscopy videos for comprehensive bladder records. Biomedical Optics Express, 2017, 8, 2106.	1.5	37

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37	Long-range electrothermal fluid motion in microfluidic systems. International Journal of Heat and Mass Transfer, 2016, 98, 341-349.	2.5	36
38	A Multiplex Electrochemical Biosensor for Bloodstream Infection Diagnosis. SLAS Technology, 2017, 22, 466-474.	1.0	34
39	Incidence of Ureteral Strictures After Laparoscopic Donor Nephrectomy. Journal of Urology, 2006, 176, 1065-1068.	0.2	32
40	Deep Sequencing of Urinary RNAs for Bladder Cancer Molecular Diagnostics. Clinical Cancer Research, 2017, 23, 3700-3710.	3.2	29
41	Dropletâ€Based Singleâ€Cell Measurements of 16S rRNA Enable Integrated Bacteria Identification and Phenoâ€Molecular Antimicrobial Susceptibility Testing from Clinical Samples in 30Âmin. Advanced Science, 2021, 8, 2003419.	5.6	29
42	Image-Guided Transurethral Resection of Bladder Tumors – Current Practice and Future Outlooks. Bladder Cancer, 2017, 3, 149-159.	0.2	27
43	Optimizing peptide nucleic acid probes for hybridization-based detection and identification of bacterial pathogens. Analyst, The, 2019, 144, 1565-1574.	1.7	27
44	Association of Bowel Rest and Ketorolac Analgesia with Short Hospital Stay After Laparoscopic Donor Nephrectomy. Urology, 2007, 69, 828-831.	0.5	26
45	Electrokinetic stringency control in self-assembled monolayer-based biosensors for multiplex urinary tract infection diagnosis. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 159-166.	1.7	26
46	Validation of Confocal Laser Endomicroscopy Features of Bladder Cancer: The Next Step Towards Real-time Histologic Grading. European Urology Focus, 2020, 6, 81-87.	1.6	26
47	SLIPS-LAB—A bioinspired bioanalysis system for metabolic evaluation of urinary stone disease. Science Advances, 2020, 6, eaba8535.	4.7	26
48	Development of a Biosensor-Based Rapid Urine Test for Detection of Urogenital Schistosomiasis. PLoS Neglected Tropical Diseases, 2015, 9, e0003845.	1.3	23
49	Unplanned Emergency Department Visits and Hospital Admissions Following Ureteroscopy: Do Ureteral Stents Make a Difference?. Urology, 2018, 117, 44-49.	0.5	23
50	A Microfluidic Cartridge System for Multiplexed Clinical Analysis. Journal of the Association for Laboratory Automation, 2009, 14, 407-412.	2.8	22
51	Redefining the Stone Belt: Precipitation Is Associated with Increased Risk of Urinary Stone Disease. Journal of Endourology, 2017, 31, 1203-1210.	1.1	21
52	Nanotube assisted microwave electroporation for single cell pathogen identification and antimicrobial susceptibility testing. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 17, 246-253.	1.7	21
53	Development of robust artificial neural networks for prediction of 5-year survival in bladder cancer. Urologic Oncology: Seminars and Original Investigations, 2021, 39, 193.e7-193.e12.	0.8	21
54	Statistical Metamodeling for Revealing Synergistic Antimicrobial Interactions. PLoS ONE, 2010, 5, e15472.	1.1	21

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55	Optical Biopsy of Bladder Cancer Using Crowd-Sourced Assessment. JAMA Surgery, 2016, 151, 90.	2.2	19
56	In vivo biodistribution and toxicity of intravesical administration of quantum dots for optical molecular imaging of bladder cancer. Scientific Reports, 2017, 7, 9309.	1.6	19
57	Current Trends in Artificial Intelligence Application for Endourology and Robotic Surgery. Urologic Clinics of North America, 2021, 48, 151-160.	0.8	19
58	Combating Antimicrobial Resistance via Single-Cell Diagnostic Technologies Powered by Droplet Microfluidics. Accounts of Chemical Research, 2022, 55, 123-133.	7.6	19
59	Fiber-Optic Confocal Laser Endomicroscopy of Small Renal Masses: Toward Real-Time Optical Diagnostic Biopsy. Journal of Urology, 2016, 195, 486-492.	0.2	17
60	A Cascaded Droplet Microfluidic Platform Enables Highâ€∓hroughput Single Cell Antibiotic Susceptibility Testing at Scale. Small Methods, 2022, 6, e2101254.	4.6	17
61	Diagnosis of Bloodstream Infections: An Evolution of Technologies towards Accurate and Rapid Identification and Antibiotic Susceptibility Testing. Antibiotics, 2022, 11, 511.	1.5	16
62	Robot-Assisted Radical Prostatectomy Associated with Decreased Persistent Postoperative Opioid Use. Journal of Endourology, 2020, 34, 475-481.	1.1	15
63	A Universal Electrode Approach for Automated Electrochemical Molecular Analyses. Journal of Microelectromechanical Systems, 2013, 22, 1126-1132.	1.7	14
64	Multimodal 3D cancer-mimicking optical phantom. Biomedical Optics Express, 2016, 7, 648.	1.5	13
65	Twenty-Four Hour Urine Testing and Prescriptions for Urinary Stone Disease–Related Medications in Veterans. Clinical Journal of the American Society of Nephrology: CJASN, 2019, 14, 1773-1780.	2.2	12
66	Urinary Stone Disease in Pregnancy: A Claims Based Analysis of 1.4 Million Patients. Journal of Urology, 2020, 203, 957-961.	0.2	12
67	Facile syringe filter-enabled bacteria separation, enrichment, and buffer exchange for clinical isolation-free digital detection and characterization of bacterial pathogens in urine. Analyst, The, 2021, 146, 2475-2483.	1.7	11
68	Microelectromechanical systems in urology. Urology, 2003, 61, 883-887.	0.5	10
69	Integrated microfluidic systems for molecular diagnostics: A universal electrode platform for rapid diagnosis of urinary tract infections. IEEE Nanotechnology Magazine, 2013, 7, 31-37.	0.9	10
70	Urinary Stone Disease in Pregnancy: Current Management Practices in a Large National Cohort. Urology, 2020, 142, 60-64.	0.5	10
71	Digital biomarkers in human excreta. Nature Reviews Gastroenterology and Hepatology, 2021, 18, 521-522.	8.2	10
72	A Rapid Single-Cell Antimicrobial Susceptibility Testing Workflow for Bloodstream Infections. Biosensors, 2021, 11, 288.	2.3	10

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73	Smart toilets for monitoring COVID-19 surges: passive diagnostics and public health. Npj Digital Medicine, 2022, 5, 39.	5.7	10
74	Registration of free-hand OCT daughter endoscopy to 3D organ reconstruction. Biomedical Optics Express, 2016, 7, 4995.	1.5	9
75	Prostate Multiparametric Magnetic Resonance Imaging Features Following Partial Gland Cryoablation. Urology, 2020, 138, 98-105.	0.5	9
76	RAPID MULTIPLEX IDENTIFICATION OF PATHOGENS IN POLYMICROBIAL URINARY TRACT INFECTIONS. Journal of Urology, 2008, 179, 82-83.	0.2	8
77	Prevalence of twenty-four hour urine testing in Veterans with urinary stone disease. PLoS ONE, 2019, 14, e0220768.	1.1	8
78	Development and Validation of an Interpretable Artificial Intelligence Model to Predict 10-Year Prostate Cancer Mortality. Cancers, 2021, 13, 3064.	1.7	8
79	Bladder cancer risk stratification using a urinary mRNA biomarker panel – A path towards cystoscopy triaging. Urologic Oncology: Seminars and Original Investigations, 2021, 39, 497.e9-497.e15.	0.8	8
80	Rapid bladder cancer cell detection from clinical urine samples using an ultra-thin silicone membrane. Analyst, The, 2016, 141, 652-660.	1.7	7
81	Optical and Cross-Sectional Imaging Technologies for Bladder Cancer. Cancer Treatment and Research, 2018, 175, 139-163.	0.2	6
82	Evaluation of Patient Treatment Preferences for 15 to 20 mm Kidney Stones: A Conjoint Analysis. Journal of Endourology, 2021, 35, 706-711.	1.1	6
83	A microfluidic system for rapid bacterial pathogen detection. , 2007, , .		3
84	Optical biopsy of penile cancer with in vivo confocal laser endomicroscopy. Urologic Oncology: Seminars and Original Investigations, 2019, 37, 809.e1-809.e8.	0.8	3
85	Postoperative opioid-free ureteroscopy discharge: A quality initiative pilot protocol. Current Urology, 2021, 15, 176-180.	0.4	3
86	Risk of Postpartum Urinary Stone Disease in Women with History of Urinary Stone Disease During Pregnancy. Journal of Endourology, 2022, 36, 138-142.	1.1	3
87	Turning on the Lights: New Technologies in Optical Diagnostics and Therapeutics. Journal of Urology, 2013, 190, 381-382.	0.2	2
88	Optical Biopsy of Peripheral Nerve Using Confocal Laser Endomicroscopy: A New Tool for Nerve Surgeons?. Archives of Plastic Surgery, 2015, 42, 626.	0.4	2
89	Renal Morbidity Following Radical Cystectomy in Patients with Bladder Cancer. European Urology Open Science, 2022, 35, 29-36.	0.2	2
90	MP58-02 OPTICAL BIOPSY OF PROSTATE CANCER THROUGH CONFOCAL LASER ENDOMICROSCOPY. Journal of Urology, 2014, 191, .	0.2	1

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91	PD25-01 MOLECULAR IMAGING OF ORTHOTOPIC MOUSE BLADDER CANCER MODEL USING A CD47 ANTIBODY. Journal of Urology, 2015, 193, .	0.2	1
92	DECREASING UTILIZATION OF LHRH-AGONISTS IN THE UNITED STATES IS INDEPENDENT OF REIMBURSEMENT CHANGES: A MEDICARE AND VETERANS HEALTH ADMINISTRATION CLAIMS ANALYSIS. Journal of Urology, 2009, 181, 77-77.	0.2	0
93	1181 URINARY PROTEOMIC ANALYSIS TO IDENTIFY HOST RESPONSE PROTEINS IN CATHETER-ASSOCIATED URINARY TRACT INFECTION. Journal of Urology, 2011, 185, .	0.2	0
94	Real time diagnosis of bladder cancer with probe-based confocal laser endomicroscopy. , 2011, , .		0
95	Next generation of optical diagnostics for bladder cancer using probe-based confocal laser endomicroscopy. , 2012, , .		0
96	1774 INTEROBSERVER AGREEMENT AND ACCURACY OF CONFOCAL LASER ENDOMICROSCOPY FOR IN VIVO DIAGNOSIS OF BLADDER CANCER. Journal of Urology, 2012, 187, .	0.2	0
97	A universal electrode approach for automated electrochemical detection of bacterial 16S rRNA. , 2012, , .		0
98	Wrinkle cellomics: Screening bladder cancer cells using an ultra-thin silicone membrane. , 2014, , .		0
99	PD15-07 OPTICAL BIOPSY OF SUSPECTED PENILE CANCER USING CONFOCAL LASER ENDOMICROSCOPY: INITIAL FEASIBILITY STUDY. Journal of Urology, 2015, 193, .	0.2	0
100	Multimodal, 3D pathology-mimicking bladder phantom for evaluation of cystoscopic technologies (Conference Presentation). , 2016, , .		0
101	Ultra-thin elastomer membrane array wrinkling for bladder cancer diagnosis. , 2016, , .		0
102	Virtual 3D bladder reconstruction for augmented medical records from white light cystoscopy (Conference Presentation). , 2016, , .		0
103	Editorial Comment. Journal of Urology, 2016, 195, 483-484.	0.2	0
104	Editorial Comment. Journal of Urology, 2016, 195, 1585-1585.	0.2	0
105	Editorial Comment. Journal of Urology, 2016, 195, 1703-1703.	0.2	0
106	Abstract 2233: Phage display selection of cancer-specific peptides on human bladder for molecular imaging of bladder cancer. , 2011, , .		0
107	Abstract 4146: Optical imaging of bladder cancer with cancer-specific molecular contrast agents. , 2011, , .		0
108	Abstract 4595: Molecular imaging of urothelial cancer using EGFR-binding peptides. , 2012, , .		0

#	Article	IF	CITATIONS
109	Abstract LB-84: Multiplex detection of urinary biomarkers for rapid bladder cancer diagnosis using an automated cartridge-based platform , 2013, , .		0

110 Image-guided urologic surgery: intraoperative optical imaging and tissue interrogation (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5

111 Editorial Comment. Journal of Urology, 2020, 204, 56-56.

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