

Chwee Ming Lim

List of Publications by Year in descending order

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95
papers

1,816
citations

218677

26
h-index

345221

36
g-index

97
all docs

97
docs citations

97
times ranked

2319
citing authors

#	ARTICLE	IF	CITATIONS
1	Stretchable Graphene Pressure Sensors with Shar-Pei-like Hierarchical Wrinkles for Collision-Aware Surgical Robotics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10226-10236.	8.0	98
2	Computer-Assisted Transoral Surgery with Flexible Robotics and Navigation Technologies: A Review of Recent Progress and Research Challenges. <i>Critical Reviews in Biomedical Engineering</i> , 2013, 41, 365-391.	0.9	71
3	TLR8 stimulation enhances cetuximab-mediated natural killer cell lysis of head and neck cancer cells and dendritic cell cross-priming of EGFR-specific CD8+ T cells. <i>Cancer Immunology, Immunotherapy</i> , 2013, 62, 1347-1357.	4.2	67
4	Flexible Robot With Variable Stiffness in Transoral Surgery. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 1-10.	5.8	58
5	A Robotic System With Multichannel Flexible Parallel Manipulators for Single Port Access Surgery. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 1678-1687.	11.3	57
6	Development of a compact continuum tubular robotic system for nasopharyngeal biopsy. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 403-417.	2.8	51
7	Clinical utility of Epstein-Barr virus DNA and other liquid biopsy markers in nasopharyngeal carcinoma. <i>Cancer Communications</i> , 2020, 40, 564-585.	9.2	49
8	Clinical significance of intraparotid lymph node metastasis in primary parotid cancer. <i>Head and Neck</i> , 2014, 36, 1634-1637.	2.0	48
9	Evolution of robotic systems for transoral head and neck surgery. <i>Oral Oncology</i> , 2018, 87, 82-88.	1.5	47
10	Real-time In vivo Diagnosis of Nasopharyngeal Carcinoma Using Rapid Fiber-Optic Raman Spectroscopy. <i>Theranostics</i> , 2017, 7, 3517-3526.	10.0	46
11	TLR3 agonists improve the immunostimulatory potential of cetuximab against EGFR+head and neck cancer cells. <i>Oncolmmunology</i> , 2013, 2, e24677.	4.6	43
12	Stretchable and Sensitive Silver Nanowire-Hydrogel Strain Sensors for Proprioceptive Actuation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37816-37829.	8.0	41
13	A Compliant Transoral Surgical Robotic System Based on a Parallel Flexible Mechanism. <i>Annals of Biomedical Engineering</i> , 2019, 47, 1329-1344.	2.5	40
14	Pseudocyst of the Auricle. <i>Laryngoscope</i> , 2002, 112, 2033-2036.	2.0	39
15	Human MAIT cell cytolytic effector proteins synergize to overcome carbapenem resistance in <i>Escherichia coli</i> . <i>PLoS Biology</i> , 2020, 18, e3000644.	5.6	37
16	Is level V neck dissection necessary in primary parotid cancer?. <i>Laryngoscope</i> , 2015, 125, 118-121.	2.0	33
17	Real-time in vivo diagnosis of laryngeal carcinoma with rapid fiber-optic Raman spectroscopy. <i>Biomedical Optics Express</i> , 2016, 7, 3705.	2.9	33
18	Surgical Instrument Tracking By Multiple Monocular Modules and a Sensor Fusion Approach. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019, 16, 629-639.	5.2	32

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19	ROLE OF FINE-NEEDLE ASPIRATION CYTOLOGY IN THE EVALUATION OF PAROTID TUMOURS. ANZ Journal of Surgery, 2007, 77, 742-744.	0.7	31
20	The Role of Epstein-Barr Virus DNA Load and Serology as Screening Tools for Nasopharyngeal Carcinoma. Otolaryngology - Head and Neck Surgery, 2016, 155, 274-280.	1.9	31
21	Fiber-Optic Raman Spectroscopy with Nature-Inspired Genetic Algorithms Enhances Real-Time in Vivo Detection and Diagnosis of Nasopharyngeal Carcinoma. Analytical Chemistry, 2019, 91, 8101-8108.	6.5	31
22	Clinical Outcome among Nasopharyngeal Cancer Patients in a Multi-Ethnic Society in Singapore. PLoS ONE, 2015, 10, e0126108.	2.5	30
23	Safety-Enhanced Motion Planning for Flexible Surgical Manipulator Using Neural Dynamics. IEEE Transactions on Control Systems Technology, 2017, 25, 1711-1723.	5.2	30
24	Safety-Enhanced Model-Free Visual Servoing for Continuum Tubular Robots Through Singularity Avoidance in Confined Environments. IEEE Access, 2019, 7, 21539-21558.	4.2	30
25	Pan-CDK inhibition augments cisplatin lethality in nasopharyngeal carcinoma cell lines and xenograft models. Signal Transduction and Targeted Therapy, 2018, 3, 9.	17.1	29
26	Origami-Layer-Jamming Deployable Surgical Retractor With Variable Stiffness and Tactile Sensing. Journal of Mechanisms and Robotics, 2020, 12, .	2.2	29
27	Hydrogel-matrix encapsulated Nitinol actuation with self-cooling mechanism. RSC Advances, 2019, 9, 34244-34255.	3.6	27
28	Epstein-Barr Virus Epithelial Cancers: A Comprehensive Understanding to Drive Novel Therapies. Frontiers in Immunology, 2021, 12, 734293.	4.8	24
29	Transoral anatomy of the tonsillar fossa and lateral pharyngeal wall: Anatomic dissection with radiographic and clinical correlation. Laryngoscope, 2013, 123, 3021-3025.	2.0	23
30	Stereotactic Body Radiotherapy (SBRT) for primary and recurrent head and neck tumors. Oral Oncology, 2013, 49, 401-406.	1.5	22
31	Clinical outcome of patients with carcinoma ex pleomorphic adenoma of the parotid gland: A comparative study from a single tertiary center. Head and Neck, 2015, 37, 543-547.	2.0	22
32	A comparison of EBV serology and serum cell-free DNA as screening tools for nasopharyngeal cancer: Results of the Singapore NPC screening cohort. International Journal of Cancer, 2020, 146, 2923-2931.	5.1	21
33	The Role of NK Cells in EBV Infection and EBV-Associated NPC. Viruses, 2021, 13, 300.	3.3	21
34	Relapse status as a prognostic factor in patients receiving salvage surgery for recurrent or residual nasopharyngeal cancer after definitive treatment. Head and Neck, 2016, 38, 1393-1400.	2.0	20
35	Soft Tactile Sensors With Inkjet-Printing Conductivity and Hydrogel Biocompatibility for Retractors in Cadaveric Surgical Trials. IEEE Sensors Journal, 2018, 18, 9840-9847.	4.7	20
36	Elevated IL18 levels in Nasopharyngeal carcinoma induced PD-1 expression on NK cells in TILS leading to poor prognosis. Oral Oncology, 2020, 104, 104616.	1.5	20

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37	Deep Learning-Guided Fiberoptic Raman Spectroscopy Enables Real-Time <i>In Vivo</i> Diagnosis and Assessment of Nasopharyngeal Carcinoma and Post-treatment Efficacy during Endoscopy. <i>Analytical Chemistry</i> , 2021, 93, 10898-10906.	6.5	20
38	ST-MTL: Spatio-Temporal multitask learning model to predict scanpath while tracking instruments in robotic surgery. <i>Medical Image Analysis</i> , 2021, 67, 101837.	11.6	19
39	A Flexible Transoral Robot Towards COVID-19 Swab Sampling. <i>Frontiers in Robotics and AI</i> , 2021, 8, 612167.	3.2	18
40	Soft oral interventional rehabilitation robot based on low-profile soft pneumatic actuator. , 2015, , .		16
41	Cellular-based immunotherapy in Epstein-Barr virus induced nasopharyngeal cancer. <i>Oral Oncology</i> , 2018, 84, 61-70.	1.5	16
42	Pseudocyst of the Auricle: A Histologic Perspective. <i>Laryngoscope</i> , 2004, 114, 1281-1284.	2.0	15
43	Defining a cohort of oligometastatic nasopharyngeal carcinoma patients with improved clinical outcomes. <i>Head and Neck</i> , 2020, 42, 945-954.	2.0	15
44	Patient-Derived Nasopharyngeal Cancer Organoids for Disease Modeling and Radiation Dose Optimization. <i>Frontiers in Oncology</i> , 2021, 11, 622244.	2.8	15
45	Retreatment in locally recurrent nasopharyngeal carcinoma: Current status and perspectives. <i>Cancer Communications</i> , 2021, 41, 361-370.	9.2	15
46	Prognostic stratification of patients with metastatic nasopharyngeal carcinoma using a clinical and biochemical scoring system. <i>Journal of Cancer Research and Clinical Oncology</i> , 2017, 143, 2563-2570.	2.5	14
47	Spindle Cell Mucoepidermoid Carcinoma of the Palatine Tonsil With <i>CRTC1-MAML2</i> Fusion Transcript: Report of a Rare Case in a 17-Year-Old Boy and a Review of the Literature. <i>International Journal of Surgical Pathology</i> , 2017, 25, 705-710.	0.8	14
48	BRAF mutation in papillary thyroid cancer—Prevalence and clinical correlation in a South-East Asian cohort. <i>Clinical Otolaryngology</i> , 2019, 44, 114-123.	1.2	14
49	Integration of Antiangiogenic Therapy with Cisplatin and Gemcitabine Chemotherapy in Patients with Nasopharyngeal Carcinoma. <i>Clinical Cancer Research</i> , 2020, 26, 5320-5328.	7.0	14
50	Label-Free Follow-Up Surveying of Post-Treatment Efficacy and Recurrence in Nasopharyngeal Carcinoma Patients with Fiberoptic Raman Endoscopy. <i>Analytical Chemistry</i> , 2021, 93, 2053-2061.	6.5	14
51	High-risk HPV genotypes and P16INK4a expression in a cohort of head and neck squamous cell carcinoma patients in Singapore. <i>Oncotarget</i> , 2016, 7, 86730-86739.	1.8	14
52	Learning Domain Adaptation with Model Calibration for Surgical Report Generation in Robotic Surgery. , 2021, , .		14
53	Model-free image guidance for intelligent tubular robots with pre-clinical feasibility study: Towards minimally invasive trans-orifice surgery. , 2015, , .		12
54	Long-term outcomes of nasopharyngectomy using partial maxillectomy approach. <i>Laryngoscope</i> , 2016, 126, 1103-1107.	2.0	12

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55	Predictors of thyroxine replacement following hemithyroidectomy in a south east Asian cohort. <i>Head and Neck</i> , 2019, 41, 1463-1467.	2.0	12
56	Narrow band imaging of nasopharynx to identify specific features for possible detection of early nasopharyngeal carcinoma. <i>Head and Neck</i> , 2015, 37, 1096-1101.	2.0	11
57	Risk of swallowing-related chest infections in patients with nasopharyngeal carcinoma treated with definitive intensity-modulated radiotherapy. <i>Head and Neck</i> , 2016, 38, E1660-5.	2.0	11
58	Dendritic cell therapy with CD137L-DC-EBV-VAX in locally recurrent or metastatic nasopharyngeal carcinoma is safe and confers clinical benefit. <i>Cancer Immunology, Immunotherapy</i> , 2022, 71, 1531-1543.	4.2	11
59	Phase I study of expanded natural killer cells in combination with cetuximab for recurrent/metastatic nasopharyngeal carcinoma. <i>Cancer Immunology, Immunotherapy</i> , 2022, 71, 2277-2286.	4.2	11
60	Extensive Necrotizing Fasciitis after Fat Grafting for Bilateral Breast Augmentation: Recommended Approach and Management. <i>Archives of Plastic Surgery</i> , 2015, 42, 365-367.	0.9	10
61	Contrast CT in Localization of Acute Lower Gastrointestinal Bleeding. <i>Asian Journal of Surgery</i> , 2006, 29, 92-94.	0.4	9
62	Enhancing the immune stimulatory effects of cetuximab therapy through TLR3 signalling in Epstein-Barr virus (EBV) positive nasopharyngeal carcinoma. <i>Oncolmmunology</i> , 2018, 7, e1500109.	4.6	9
63	Primary Tonsillar Epithelioid Follicular Dendritic Cell Sarcoma: Report of a Rare Case Mimicking Undifferentiated Carcinoma and a Brief Review of the Literature. <i>Head and Neck Pathology</i> , 2019, 13, 606-612.	2.6	9
64	Nitinol actuated soft structures towards transnasal drug delivery: a pilot cadaver study. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 611-623.	2.8	9
65	Histopathologic prognostic indices in tongue squamous cell carcinoma. <i>European Archives of Oto-Rhino-Laryngology</i> , 2021, 278, 2461-2471.	1.6	9
66	Sinus and anterior skull base surgery during the COVID-19 pandemic: systematic review, synthesis and YO-IFOS position. <i>European Archives of Oto-Rhino-Laryngology</i> , 2021, 278, 1733-1742.	1.6	9
67	Needle-Size Bending Actuators Based on Controlled Nitinol Curvatures and Elastic Structures. <i>Journal of Mechanisms and Robotics</i> , 2020, 12, .	2.2	8
68	Pilot Study of Trans-oral Robotic-Assisted Needle Direct Tracheostomy Puncture in Patients Requiring Prolonged Mechanical Ventilation. <i>Frontiers in Robotics and AI</i> , 2020, 7, 575445.	3.2	7
69	Design and Multicenter Clinical Validation of a 3-Dimensionally Printed Nasopharyngeal Swab for SARS-CoV-2 Testing. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2021, 147, 418.	2.2	7
70	Analytical and clinical validation of an amplicon-based next generation sequencing assay for ultrasensitive detection of circulating tumor DNA. <i>PLoS ONE</i> , 2022, 17, e0267389.	2.5	7
71	Restoring apoptosis dysregulation using survivin inhibitor in nasopharyngeal cancer. <i>Head and Neck</i> , 2020, 42, 913-923.	2.0	6
72	Cadaveric feasibility study of a teleoperated parallel continuum robot with variable stiffness for transoral surgery. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 2063-2069.	2.8	5

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73	Prognostic significance of cystic lymph nodal metastasis in nasopharyngeal carcinoma. Head and Neck, 2017, 39, 1832-1839.	2.0	4
74	Deployable Telescopic Tubular Mechanisms With a Steerable Tongue Depressor Towards Self-Administered Oral Swab. Frontiers in Robotics and AI, 2021, 8, 612959.	3.2	4
75	Epstein-Barr virus-induced ectopic CD137 expression helps nasopharyngeal carcinoma to escape immune surveillance and enables targeting by chimeric antigen receptors. Cancer Immunology, Immunotherapy, 2022, 71, 2583-2596.	4.2	4
76	An Anchoring and Steering Device for Wireless In Vivo Surveillance of Nasopharyngeal Carcinoma. Journal of Medical Devices, Transactions of the ASME, 2014, 8, .	0.7	3
77	Simultaneous fingerprint and high-wavenumber fiber-optic Raman endoscopy for <i>in vivo</i> diagnosis of laryngeal cancer. Proceedings of SPIE, 2016, , .	0.8	3
78	Preoperative-Image Guided Neurosurgical Navigation Procedures with Electromagnetic Tracking: An Effective Pipeline and A Cadaver Study. , 2018, , .		3
79	Surgical salvage of recurrent nasopharyngeal cancer- a multi-institutional review. Oral Oncology, 2021, 122, 105556.	1.5	3
80	Design Conceptualization of a Flexible Robotic Drill System for Minimally Invasive Tracheostomy. , 2018, , .		2
81	ACTORS: Adaptive and Compliant Transoral Robotic Surgery With Flexible Manipulators and Intelligent Guidance. , 2020, , 693-701.		2
82	Omnidirectional Steerable Forceps With Flexible Joints and Skin-Like Stretchable Strain Sensors. IEEE/ASME Transactions on Mechatronics, 2022, 27, 713-724.	5.8	2
83	Continuum NasoXplorer manipulator with shape memory actuators for transnasal exploration. , 2020, , 287-316.		1
84	Biomimetic Incremental Domain Generalization with a Graph Network for Surgical Scene Understanding. Biomimetics, 2022, 7, 68.	3.3	1
85	Biomimetic Stretchable Sensor Resembling Shar-Pei Crumples with 2D Materials towards Collaborative Robotic Minimally Invasive Procedures. , 2019, , .		0
86	Force sensing in compact concentric tube mechanism with optical fibers. , 2020, , 327-347.		0
87	Real time <i>in vivo</i> miniature endoscopic surveillance system for imaging of nasopharynx. World Journal of Otorhinolaryngology - Head and Neck Surgery, 2020, 6, 4-9.	1.6	0
88	Diagnostic thyroid lobectomy versus active surveillance in the management of Bethesda class III thyroid nodules. Asian Journal of Surgery, 2020, 43, 1108-1109.	0.4	0
89	Clinical Outcome in Patients with Negative Rigid Oesophagoscopy for Suspected Foreign Body Ingestion. Annals of the Academy of Medicine, Singapore, 2016, 45, 326-9.	0.4	0
90	Title is missing!. , 2020, 18, e3000644.		0

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91	Title is missing!. , 2020, 18, e3000644.		0
92	Title is missing!. , 2020, 18, e3000644.		0
93	Title is missing!. , 2020, 18, e3000644.		0
94	Title is missing!. , 2020, 18, e3000644.		0
95	Title is missing!. , 2020, 18, e3000644.		0