

Victor Yang

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

5,909
citations

76196

40
h-index

74018

75
g-index

95
all docs

95
docs citations

95
times ranked

6309
citing authors

#	ARTICLE	IF	CITATIONS
1	Speckle variance detection of microvasculature using swept-source optical coherence tomography. <i>Optics Letters</i> , 2008, 33, 1530.	1.7	679
2	Efficacy and safety of nerinetide for the treatment of acute ischaemic stroke (ESCAPE-NA1): a multicentre, double-blind, randomised controlled trial. <i>Lancet</i> , The, 2020, 395, 878-887.	6.3	400
3	Blood-vessel closure using photosensitizers engineered for two-photon excitation. <i>Nature Photonics</i> , 2008, 2, 420-424.	15.6	355
4	Imaging features and safety and efficacy of endovascular stroke treatment: a meta-analysis of individual patient-level data. <i>Lancet Neurology</i> , The, 2018, 17, 895-904.	4.9	281
5	Penumbra imaging and functional outcome in patients with anterior circulation ischaemic stroke treated with endovascular thrombectomy versus medical therapy: a meta-analysis of individual patient-level data. <i>Lancet Neurology</i> , The, 2019, 18, 46-55.	4.9	276
6	High speed, wide velocity dynamic range Doppler optical coherence tomography (Part I): System design, signal processing, and performance. <i>Optics Express</i> , 2003, 11, 794.	1.7	243
7	Optimized speckle variance OCT imaging of microvasculature. <i>Optics Letters</i> , 2010, 35, 1257.	1.7	237
8	Effect of general anaesthesia on functional outcome in patients with anterior circulation ischaemic stroke having endovascular thrombectomy versus standard care: a meta-analysis of individual patient data. <i>Lancet Neurology</i> , The, 2018, 17, 47-53.	4.9	205
9	<i>In vivo</i> Optical Coherence Tomography Imaging of Preinvasive Bronchial Lesions. <i>Clinical Cancer Research</i> , 2008, 14, 2006-2011.	3.2	198
10	Dynamic focus control in high-speed optical coherence tomography based on a microelectromechanical mirror. <i>Optics Communications</i> , 2004, 232, 123-128.	1.0	145
11	Endoscopic Doppler optical coherence tomography in the human GI tract: initial experience. <i>Gastrointestinal Endoscopy</i> , 2005, 61, 879-890.	0.5	130
12	Improved phase-resolved optical Doppler tomography using the Kasai velocity estimator and histogram segmentation. <i>Optics Communications</i> , 2002, 208, 209-214.	1.0	123
13	Doppler optical cardiogram gated 2D color flow imaging at 1000 fps and 4D <i>in vivo</i> visualization of embryonic heart at 45 fps on a swept source OCT system. <i>Optics Express</i> , 2007, 15, 1627.	1.7	120
14	High speed, wide velocity dynamic range Doppler optical coherence tomography (Part II): Imaging <i>in vivo</i> cardiac dynamics of <i>Xenopus laevis</i> . <i>Optics Express</i> , 2003, 11, 1650.	1.7	109
15	Vertebral Compression Fracture After Spine Stereotactic Body Radiation Therapy: A Review of the Pathophysiology and Risk Factors. <i>Neurosurgery</i> , 2018, 83, 314-322.	0.6	104
16	Augmented Reality in Neurosurgery: A Review of Current Concepts and Emerging Applications. <i>Canadian Journal of Neurological Sciences</i> , 2017, 44, 235-245.	0.3	99
17	High speed, wide velocity dynamic range Doppler optical coherence tomography (Part III): <i>in vivo</i> endoscopic imaging of blood flow in the rat and human gastrointestinal tracts. <i>Optics Express</i> , 2003, 11, 2416.	1.7	97
18	A multispectral fluorescence imaging system: Design and initial clinical tests in intra-operative Photofrin-photodynamic therapy of brain tumors. <i>Lasers in Surgery and Medicine</i> , 2003, 32, 224-232.	1.1	94

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19	Interstitial Doppler optical coherence tomography. <i>Optics Letters</i> , 2005, 30, 1791.	1.7	84
20	Imaging-Based Outcomes for 24 Gy in 2 Daily Fractions for Patients with de Novo Spinal Metastases Treated With Spine Stereotactic Body Radiation Therapy (SBRT). <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 499-507.	0.4	83
21	Acute ischemic stroke with tandem lesions: technical endovascular management and clinical outcomes from the ESCAPE trial. <i>Journal of NeuroInterventional Surgery</i> , 2018, 10, 429-433.	2.0	78
22	Micromachined 2-D scanner for 3-D optical coherence tomography. <i>Sensors and Actuators A: Physical</i> , 2005, 117, 331-340.	2.0	77
23	Feasibility of optical coherence elastography measurements of shear wave propagation in homogeneous tissue equivalent phantoms. <i>Biomedical Optics Express</i> , 2012, 3, 972.	1.5	77
24	Increased brain tumor resection using fluorescence image guidance in a preclinical model. <i>Lasers in Surgery and Medicine</i> , 2004, 35, 181-190.	1.1	70
25	Real-time speckle variance swept-source optical coherence tomography using a graphics processing unit. <i>Biomedical Optics Express</i> , 2012, 3, 1557.	1.5	68
26	Interstitial Doppler Optical Coherence Tomography as a Local Tumor Necrosis Predictor in Photodynamic Therapy of Prostatic Carcinoma: An <i>In vivo</i> Study. <i>Cancer Research</i> , 2008, 68, 9987-9995.	0.4	67
27	Hybrid intravascular ultrasound and optical coherence tomography catheter for imaging of coronary atherosclerosis. <i>Catheterization and Cardiovascular Interventions</i> , 2013, 81, 494-507.	0.7	66
28	Temperature-compensated fiber-optic 3D shape sensor based on femtosecond laser direct-written Bragg grating waveguides. <i>Optics Express</i> , 2013, 21, 24076.	1.7	66
29	30 Years of Neurosurgical Robots: Review and Trends for Manipulators and Associated Navigational Systems. <i>Annals of Biomedical Engineering</i> , 2016, 44, 836-846.	1.3	66
30	Micromachined array tip for multifocus fiber-based optical coherence tomography. <i>Optics Letters</i> , 2004, 29, 1754.	1.7	63
31	In situ 24 kHz coherent imaging of morphology change in laser percussion drilling. <i>Optics Letters</i> , 2010, 35, 646.	1.7	60
32	Fabrication and characterization of laser-micromachined polypyrrole-based artificial muscle actuated catheters. <i>Sensors and Actuators A: Physical</i> , 2009, 153, 230-236.	2.0	55
33	A high-efficiency fiber-based imaging system for co-registered autofluorescence and optical coherence tomography. <i>Biomedical Optics Express</i> , 2014, 5, 2978.	1.5	51
34	In vivo feasibility of endovascular Doppler optical coherence tomography. <i>Biomedical Optics Express</i> , 2012, 3, 2600.	1.5	50
35	Analytical modeling of a conducting polymer-driven catheter. <i>Polymer International</i> , 2010, 59, 343-351.	1.6	47
36	Electrostatic forward-viewing scanning probe for Doppler optical coherence tomography using a dissipative polymer catheter. <i>Optics Letters</i> , 2008, 33, 657.	1.7	46

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37	High-power wavelength-swept laser in Littman telescope-less polygon filter and dual-amplifier configuration for multichannel optical coherence tomography. <i>Optics Letters</i> , 2009, 34, 2814.	1.7	45
38	Doppler optical coherence tomography monitoring of microvascular tissue response during photodynamic therapy in an animal model of Barrett's esophagus. <i>Gastrointestinal Endoscopy</i> , 2007, 66, 326-333.	0.5	44
39	Detecting Vascular Changes in Tumour Xenografts Using Micro-Ultrasound and Micro-CT Following Treatment with VEGFR-2 Blocking Antibodies. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 1259-1268.	0.7	40
40	Digital image correlation-based optical coherence elastography. <i>Journal of Biomedical Optics</i> , 2013, 18, 121515.	1.4	40
41	Doppler optical coherence tomography with a micro-electro-mechanical membrane mirror for high-speed dynamic focus tracking. <i>Optics Letters</i> , 2006, 31, 1262.	1.7	37
42	Real-time guidance of thermal and ultrashort pulsed laser ablation in hard tissue using inline coherent imaging. <i>Lasers in Surgery and Medicine</i> , 2012, 44, 249-256.	1.1	35
43	Image-Guided, Linac-Based, Surgical Cavity-Hypofractionated Stereotactic Radiotherapy in 5 Daily Fractions for Brain Metastases. <i>Neurosurgery</i> , 2019, 85, E860-E869.	0.6	34
44	Endosaccular Flow Disruption: A New Frontier in Endovascular Aneurysm Management. <i>Neurosurgery</i> , 2020, 86, 170-181.	0.6	34
45	Wide dynamic range detection of bidirectional flow in Doppler optical coherence tomography using a two-dimensional Kasai estimator. <i>Optics Letters</i> , 2007, 32, 253.	1.7	32
46	Speckle variance optical coherence tomography of the rodent spinal cord: in vivo feasibility. <i>Biomedical Optics Express</i> , 2012, 3, 911.	1.5	30
47	Pulsed and CW adjustable 1942 nm single-mode all-fiber Tm-doped fiber laser system for surgical laser soft tissue ablation applications. <i>Optics Express</i> , 2016, 24, 16674.	1.7	30
48	Self-contained tubular bending actuator driven by conducting polymers. <i>Sensors and Actuators A: Physical</i> , 2016, 249, 45-56.	2.0	29
49	Spinal intraoperative three-dimensional navigation: correlation between clinical and absolute engineering accuracy. <i>Spine Journal</i> , 2017, 17, 489-498.	0.6	27
50	Optical coherence tomography detection of shear wave propagation in inhomogeneous tissue equivalent phantoms and ex-vivo carotid artery samples. <i>Biomedical Optics Express</i> , 2014, 5, 895.	1.5	25
51	Retinal photography: A window into the cardiovascular-brain link in adolescent bipolar disorder. <i>Journal of Affective Disorders</i> , 2017, 218, 227-237.	2.0	24
52	Fiber-optic polarization diversity detection for rotary probe optical coherence tomography. <i>Optics Letters</i> , 2014, 39, 3638.	1.7	23
53	Single-Fraction Stereotactic Radiosurgery Versus Hippocampal-Avoidance Whole Brain Radiation Therapy for Patients With 10 to 30 Brain Metastases: A Dosimetric Analysis. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, 394-399.	0.4	23
54	Oxygen-independent degradation of HIF-1 α via bioengineered VHL tumour suppressor complex. <i>EMBO Molecular Medicine</i> , 2009, 1, 66-78.	3.3	21

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55	Wavelength-swept spectral and pulse shaping utilizing hybrid Fourier domain modelocking by fiber optical parametric and erbium-doped fiber amplifiers. <i>Optics Express</i> , 2010, 18, 1909.	1.7	21
56	Stereotactic Body Radiotherapy for Spinal Metastases at the Extreme Ends of the Spine: Imaging-Based Outcomes for Cervical and Sacral Metastases. <i>Neurosurgery</i> , 2019, 85, 605-612.	0.6	20
57	Endovascular optical coherence tomography intensity kurtosis: visualization of vasa vasorum in porcine carotid artery. <i>Biomedical Optics Express</i> , 2012, 3, 388.	1.5	18
58	Microstructuring of Polypyrrole by Maskless Direct Femtosecond Laser Ablation. <i>Advanced Materials</i> , 2012, 24, 1243-1246.	11.1	18
59	Machine vision augmented reality for pedicle screw insertion during spine surgery. <i>Journal of Clinical Neuroscience</i> , 2020, 72, 350-356.	0.8	18
60	In Vivo Doppler Optical Coherence Tomography of Mucocutaneous Telangiectases in Hereditary Hemorrhagic Telangiectasia. <i>Gastrointestinal Endoscopy</i> , 2003, 58, 591-598.	0.5	15
61	Traumatic anterior cerebral artery aneurysms and management options in the endovascular era. <i>Journal of Clinical Neuroscience</i> , 2016, 25, 90-95.	0.8	14
62	High speed, wide velocity dynamic range Doppler optical coherence tomography (Part V): Optimal utilization of multi-beam scanning for Doppler and speckle variance microvascular imaging. <i>Optics Express</i> , 2017, 25, 7761.	1.7	14
63	Surgical Resection With Radiation Treatment Planning of Spinal Tumors. <i>Neurosurgery</i> , 2019, 84, 1242-1250.	0.6	13
64	Do Outcomes between Women and Men Differ after Endovascular Thrombectomy? A Meta-analysis. <i>American Journal of Neuroradiology</i> , 2021, 42, 910-915.	1.2	13
65	Postoperative stereotactic body radiotherapy for spinal metastases. <i>Chinese Clinical Oncology</i> , 2017, 6, S18-S18.	0.4	12
66	Vascular Wall Imaging of Vulnerable Atherosclerotic Carotid Plaques: Current State of the Art and Potential Future of Endovascular Optical Coherence Tomography. <i>American Journal of Neuroradiology</i> , 2012, 33, 1642-1650.	1.2	11
67	Polypyrrole operating voltage limits in aqueous sodium hexafluorophosphate. , 2007, , ,		10
68	In vivo real time monitoring of vasoconstriction and vasodilation by a combined diffuse reflectance spectroscopy and Doppler optical coherence tomography approach. <i>Lasers in Surgery and Medicine</i> , 2008, 40, 323-331.	1.1	10
69	Optical coherence tomography imaging after endovascular thrombectomy for basilar artery occlusion: report of 3 cases. <i>Journal of Neurosurgery</i> , 2020, 133, 1141-1146.	0.9	9
70	Imaging the electro-kinetic response of biological tissues with optical coherence tomography. <i>Optics Letters</i> , 2013, 38, 2572.	1.7	7
71	Multilevel Spondylolysis Repair Using the "Smiley Face" Technique with 3-Dimensional Intraoperative Spinal Navigation. <i>World Neurosurgery</i> , 2018, 109, e609-e614.	0.7	7
72	Surgical Spring and Pairing Endovascular Interventions for Carotid-Cavernous Fistula: Case Series and Review of the Literature. <i>World Neurosurgery</i> , 2020, 140, 18-25.	0.7	7

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73	Endovascular thrombectomy for tandem acute ischemic stroke associated with cervical artery dissection: a systematic review and meta-analysis. <i>Neuroradiology</i> , 2020, 62, 861-866.	1.1	7
74	Conducting polymer actuator driven catheter: overview and applications. <i>Proceedings of SPIE</i> , 2009, , .	0.8	5
75	Spontaneous intracranial hypotension resulting in coma: Case report and review of the literature. <i>Interdisciplinary Neurosurgery: Advanced Techniques and Case Management</i> , 2018, 11, 51-56.	0.2	4
76	23 kHz MEMS based swept source for optical coherence tomography imaging. , 2011, 2011, 6134-7.		2
77	Pipeline stents for partially thrombosed posterior circulation aneurysms: A word of caution!. <i>Neurology India</i> , 2014, 62, 455.	0.2	2
78	Somatosensory evoked potentials after decompressive craniectomy for traumatic brain injury. <i>Journal of Clinical Monitoring and Computing</i> , 2018, 32, 881-887.	0.7	2
79	Doppler optical coherence tomography for energy seal evaluation and comparison to visual evaluation. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	1.4	2
80	Gaining Access to the Superior Ophthalmic Vein for Endovascular Embolization of Indirect Carotid-Cavernous Fistulas. <i>Journal of Craniofacial Surgery</i> , 2021, 32, e337-e340.	0.3	2
81	Optical coherence tomography: Current biomedical applications and future clinical utility. , 2010, , .		1
82	Imaging of electro-kinetic responses of tissues with optical coherence tomography. , 2013, , .		1
83	Temperature-compensated fiber optic 3D shape sensor using femtosecond laser direct-written Bragg grating waveguides. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
84	Preliminary study of digital image correlation based optical coherence elastography. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
85	Development of quantitative parameters to assess in-vivo optical coherence tomography images of late oral radiation toxicity patients. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
86	Imaging the electro-kinetic response of biological tissues with phase-resolved optical coherence tomography. <i>Photonics & Lasers in Medicine</i> , 2014, 3, .	0.3	0
87	Imaging of electro-kinetic properties of tissue using the amplitude and the phase of optical coherence tomography. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
88	Recent Advance in Visible Spectrum Surgical Navigation. , 2015, , .		0
89	Vascular wall stress during intravascular optical coherence tomography imaging. , 2015, , .		0
90	Combined Microneurosurgical and Endovascular Management of Grade V Occipital Arteriovenous Malformation: Sequential Delayed Embolization Holds the Key!. <i>Indian Journal of Neurosurgery</i> , 2016, 05, 047-050.	0.1	0

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91	Stereotactic Body Radiation Therapy (SBRT) for Spinal Tumors. , 2019, , 265-276.		0
92	Endovascular Cerebral Venous Sinus Imaging with Optical Coherence Tomography. American Journal of Neuroradiology, 2020, 41, 2292-2297.	1.2	0
93	Intraoperative vascular detection and three-dimensional reconstruction using statistical variance and infrared optical tracking methods in high frequency ultrasound imaging. , 2019, , .		0
94	Beam-shifting optical coherence tomography for speckle reduction and flow rate measurement. , 2019, , .		0