

Zhiwei Huang

List of Publications by Year in descending order

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179
papers

6,536
citations

53660

45
h-index

74018

75
g-index

179
all docs

179
docs citations

179
times ranked

5059
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Near-infrared Raman spectroscopy for optical diagnosis of lung cancer. International Journal of Cancer, 2003, 107, 1047-1052. | 2.3 | 724 |
| 2 | Rapid near-infrared Raman spectroscopy system for real-time in vivo skin measurements. Optics Letters, 2001, 26, 1782. | 1.7 | 243 |
| 3 | Diagnostic potential of near-infrared Raman spectroscopy in the stomach: differentiating dysplasia from normal tissue. British Journal of Cancer, 2008, 98, 457-465. | 2.9 | 204 |
| 4 | Raman spectroscopy of in vivo cutaneous melanin. Journal of Biomedical Optics, 2004, 9, 1198. | 1.4 | 197 |
| 5 | Raman spectroscopy for optical diagnosis in normal and cancerous tissue of the nasopharynx?preliminary findings. Lasers in Surgery and Medicine, 2003, 32, 210-214. | 1.1 | 166 |
| 6 | <i>In Vivo</i> Diagnosis of Esophageal Cancer Using Image-Guided Raman Endoscopy and Biomolecular Modeling. Technology in Cancer Research and Treatment, 2011, 10, 103-112. | 0.8 | 129 |
| 7 | High Wavenumber Raman Spectroscopy for in Vivo Detection of Cervical Dysplasia. Analytical Chemistry, 2009, 81, 8908-8915. | 3.2 | 126 |
| 8 | Simultaneous Fingerprint and High-Wavenumber Confocal Raman Spectroscopy Enhances Early Detection of Cervical Precancer In Vivo. Analytical Chemistry, 2012, 84, 5913-5919. | 3.2 | 123 |
| 9 | Integrated Raman spectroscopy and trimodal wide-field imaging techniques for real-time in vivo tissue Raman measurements at endoscopy. Optics Letters, 2009, 34, 758. | 1.7 | 120 |
| 10 | Fiberoptic Confocal Raman Spectroscopy for Real-Time In Vivo Diagnosis of Dysplasia in Barrett's Esophagus. Gastroenterology, 2014, 146, 27-32. | 0.6 | 119 |
| 11 | Real-time Raman spectroscopy for in vivo, online gastric cancer diagnosis during clinical endoscopic examination. Journal of Biomedical Optics, 2012, 17, 1. | 1.4 | 115 |
| 12 | Raman Spectroscopy in Combination with Background Near-infrared Autofluorescence Enhances the In Vivo Assessment of Malignant Tissues. Photochemistry and Photobiology, 2005, 81, 1219. | 1.3 | 111 |
| 13 | Cutaneous melanin exhibiting fluorescence emission under near-infrared light excitation. Journal of Biomedical Optics, 2006, 11, 034010. | 1.4 | 101 |
| 14 | <i>In vivo</i> diagnosis of gastric cancer using Raman endoscopy and ant colony optimization techniques. International Journal of Cancer, 2011, 128, 2673-2680. | 2.3 | 97 |
| 15 | Characterizing variability in in vivo Raman spectra of different anatomical locations in the upper gastrointestinal tract toward cancer detection. Journal of Biomedical Optics, 2011, 16, 037003. | 1.4 | 94 |
| 16 | Raman spectroscopy for optical diagnosis in the larynx: Preliminary findings. Lasers in Surgery and Medicine, 2005, 37, 192-200. | 1.1 | 93 |
| 17 | In vivo detection of epithelial neoplasia in the stomach using image-guided Raman endoscopy. Biosensors and Bioelectronics, 2010, 26, 383-389. | 5.3 | 90 |
| 18 | Combining near-infrared-excited autofluorescence and Raman spectroscopy improves in vivo diagnosis of gastric cancer. Biosensors and Bioelectronics, 2011, 26, 4104-4110. | 5.3 | 89 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Fiber-optic Raman spectroscopy probes gastric carcinogenesis <i>in vivo</i> at endoscopy. <i>Journal of Biophotonics</i> , 2013, 6, 49-59. | 1.1 | 87 |
| 20 | Large eddy simulation of flame structure and combustion mode in a hydrogen fueled supersonic combustor. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 9815-9824. | 3.8 | 87 |
| 21 | Coherent anti-Stokes Raman scattering microscopy using tightly focused radially polarized light. <i>Optics Letters</i> , 2009, 34, 1870. | 1.7 | 86 |
| 22 | Raman endoscopy for <i>in vivo</i> differentiation between benign and malignant ulcers in the stomach. <i>Analyst, The</i> , 2010, 135, 3162. | 1.7 | 86 |
| 23 | Second-Harmonic Generation from Sub-5 nm Gaps by Directed Self-Assembly of Nanoparticles onto Template-Stripped Gold Substrates. <i>Nano Letters</i> , 2015, 15, 5976-5981. | 4.5 | 86 |
| 24 | <i>In vivo</i> diagnosis of cervical precancer using Raman spectroscopy and genetic algorithm techniques. <i>Analyst, The</i> , 2011, 136, 4328. | 1.7 | 85 |
| 25 | Diagnosis of gastric cancer using near-infrared Raman spectroscopy and classification and regression tree techniques. <i>Journal of Biomedical Optics</i> , 2008, 13, 034013. | 1.4 | 83 |
| 26 | Simultaneous fingerprint and high-wavenumber fiber-optic Raman spectroscopy enhances real-time <i>in vivo</i> diagnosis of adenomatous polyps during colonoscopy. <i>Journal of Biophotonics</i> , 2016, 9, 333-342. | 1.1 | 79 |
| 27 | Detailed numerical simulation of transient mixing and combustion of premixed methane/air mixtures in a pre-chamber/main-chamber system relevant to internal combustion engines. <i>Combustion and Flame</i> , 2018, 188, 357-366. | 2.8 | 79 |
| 28 | Higher-order coherent anti-Stokes Raman scattering microscopy realizes label-free super-resolution vibrational imaging. <i>Nature Photonics</i> , 2020, 14, 115-122. | 15.6 | 79 |
| 29 | <i>In vivo</i> early diagnosis of gastric dysplasia using narrow-band image-guided Raman endoscopy. <i>Journal of Biomedical Optics</i> , 2010, 15, 037017. | 1.4 | 77 |
| 30 | Early detection of biomolecular changes in disrupted porcine cartilage using polarized Raman spectroscopy. <i>Journal of Biomedical Optics</i> , 2011, 16, 017003. | 1.4 | 73 |
| 31 | Spectroscopic diagnosis of laryngeal carcinoma using near-infrared Raman spectroscopy and random recursive partitioning ensemble techniques. <i>Analyst, The</i> , 2009, 134, 1232. | 1.7 | 66 |
| 32 | Optical diagnosis of laryngeal cancer using high wavenumber Raman spectroscopy. <i>Biosensors and Bioelectronics</i> , 2012, 35, 213-217. | 5.3 | 66 |
| 33 | Development of a beveled fiber-optic confocal Raman probe for enhancing <i>in vivo</i> epithelial tissue Raman measurements at endoscopy. <i>Optics Letters</i> , 2013, 38, 2321. | 1.7 | 65 |
| 34 | Eulerian-Lagrangian modelling of detonative combustion in two-phase gas-droplet mixtures with OpenFOAM: Validations and verifications. <i>Fuel</i> , 2021, 286, 119402. | 3.4 | 65 |
| 35 | Simulations of combustion oscillation and flame dynamics in a strut-based supersonic combustor. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 8278-8287. | 3.8 | 63 |
| 36 | Characterizing Variability of <i>In Vivo</i> Raman Spectroscopic Properties of Different Anatomical Sites of Normal Colorectal Tissue towards Cancer Diagnosis at Colonoscopy. <i>Analytical Chemistry</i> , 2015, 87, 960-966. | 3.2 | 62 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Fiber-optic Raman probe couples ball lens for depth-selected Raman measurements of epithelial tissue. <i>Biomedical Optics Express</i> , 2010, 1, 17. | 1.5 | 56 |
| 38 | Assessment of liver steatosis and fibrosis in rats using integrated coherent anti-Stokes Raman scattering and multiphoton imaging technique. <i>Journal of Biomedical Optics</i> , 2011, 16, 1. | 1.4 | 56 |
| 39 | Characterizing variability in <i>in vivo</i> Raman spectroscopic properties of different anatomical sites of normal tissue in the oral cavity. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 255-262. | 1.2 | 56 |
| 40 | Two-photon graphene quantum dot modified Gd ₂ O ₃ nanocomposites as a dual-mode MRI contrast agent and cell labelling agent. <i>Nanoscale</i> , 2018, 10, 5642-5649. | 2.8 | 56 |
| 41 | Near-infrared Raman spectroscopy for gastric precancer diagnosis. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 908-914. | 1.2 | 55 |
| 42 | Saturated Stimulated-Raman-Scattering Microscopy for Far-Field Superresolution Vibrational Imaging. <i>Physical Review Applied</i> , 2019, 11, . | 1.5 | 54 |
| 43 | Low-level detection of anti-cancer drug in blood plasma using microwave-treated gold-polystyrene beads as surface-enhanced Raman scattering substrates. <i>Biosensors and Bioelectronics</i> , 2010, 26, 580-584. | 5.3 | 53 |
| 44 | Near-infrared-excited confocal Raman spectroscopy advances <i>in vivo</i> diagnosis of cervical precancer. <i>Journal of Biomedical Optics</i> , 2013, 18, 067007. | 1.4 | 47 |
| 45 | Classification of colonic tissues using near-infrared Raman spectroscopy and support vector machines. <i>International Journal of Oncology</i> , 0, , . | 1.4 | 46 |
| 46 | Simultaneous fingerprint and high-wavenumber fiber-optic Raman spectroscopy improves <i>in vivo</i> diagnosis of esophageal squamous cell carcinoma at endoscopy. <i>Scientific Reports</i> , 2015, 5, 12957. | 1.6 | 46 |
| 47 | Real-time <i>In vivo</i> Diagnosis of Nasopharyngeal Carcinoma Using Rapid Fiber-Optic Raman Spectroscopy. <i>Theranostics</i> , 2017, 7, 3517-3526. | 4.6 | 46 |
| 48 | Near-infrared Raman spectroscopy for optical diagnosis in the stomach: Identification of <i>Helicobacter pylori</i> infection and intestinal metaplasia. <i>International Journal of Cancer</i> , 2010, 126, 1920-1927. | 2.3 | 45 |
| 49 | Rapid Fiber-optic Raman Spectroscopy for Real-Time <i>In Vivo</i> Detection of Gastric Intestinal Metaplasia during Clinical Gastroscopy. <i>Cancer Prevention Research</i> , 2016, 9, 476-483. | 0.7 | 45 |
| 50 | Interferometric polarization coherent anti-Stokes Raman scattering (IP-CARS) microscopy. <i>Optics Letters</i> , 2008, 33, 602. | 1.7 | 44 |
| 51 | Large eddy simulation of turbulent supersonic hydrogen flames with OpenFOAM. <i>Fuel</i> , 2020, 282, 118812. | 3.4 | 44 |
| 52 | Combustion oscillation study in a kerosene fueled rocket-based combined-cycle engine combustor. <i>Acta Astronautica</i> , 2016, 129, 260-270. | 1.7 | 41 |
| 53 | Comparative study of the endoscope-based bevelled and volume fiber-optic Raman probes for optical diagnosis of gastric dysplasia <i>in vivo</i> at endoscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8303-8310. | 1.9 | 40 |
| 54 | Flame stabilization mechanism study in a hydrogen-fueled model supersonic combustor under different air inflow conditions. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 21360-21370. | 3.8 | 40 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Large eddy simulation of combustion characteristics in a kerosene fueled rocket-based combined-cycle engine combustor. <i>Acta Astronautica</i> , 2016, 127, 326-334. | 1.7 | 39 |
| 56 | Epi-Detected Hyperspectral Stimulated Raman Scattering Microscopy for Label-Free Molecular Subtyping of Glioblastomas. <i>Analytical Chemistry</i> , 2018, 90, 10249-10255. | 3.2 | 36 |
| 57 | Real-Time Monitoring of Pharmacokinetics of Antibiotics in Biofilms with Raman-Tagged Hyperspectral Stimulated Raman Scattering Microscopy. <i>Theranostics</i> , 2019, 9, 1348-1357. | 4.6 | 36 |
| 58 | Effect of formalin fixation on the near-infrared Raman spectroscopy of normal and cancerous human bronchial tissues. <i>International Journal of Oncology</i> , 2003, 23, 649. | 1.4 | 33 |
| 59 | Real-time in vivo diagnosis of laryngeal carcinoma with rapid fiber-optic Raman spectroscopy. <i>Biomedical Optics Express</i> , 2016, 7, 3705. | 1.5 | 33 |
| 60 | Fiber-optic Raman spectroscopy for in vivo diagnosis of gastric dysplasia. <i>Faraday Discussions</i> , 2016, 187, 377-392. | 1.6 | 33 |
| 61 | In vivo diagnosis of colonic precancer and cancer using near-infrared autofluorescence spectroscopy and biochemical modeling. <i>Journal of Biomedical Optics</i> , 2011, 16, 067005. | 1.4 | 32 |
| 62 | <i>In vivo</i> , real-time, transnasal, image-guided Raman endoscopy: defining spectral properties in the nasopharynx and larynx. <i>Journal of Biomedical Optics</i> , 2012, 17, 0770021. | 1.4 | 32 |
| 63 | Advances in real-time fiber-optic Raman spectroscopy for early cancer diagnosis: Pushing the frontier into clinical endoscopic applications. <i>Translational Biophotonics</i> , 2021, 3, e202000018. | 1.4 | 32 |
| 64 | Aqueous phase synthesis of widely tunable photoluminescence emission CdTe/CdS core/shell quantum dots under a totally ambient atmosphere. <i>Journal of Materials Chemistry</i> , 2012, 22, 16336. | 6.7 | 31 |
| 65 | Fiber-Optic Raman Spectroscopy with Nature-Inspired Genetic Algorithms Enhances Real-Time in Vivo Detection and Diagnosis of Nasopharyngeal Carcinoma. <i>Analytical Chemistry</i> , 2019, 91, 8101-8108. | 3.2 | 31 |
| 66 | Polarized near-infrared autofluorescence imaging combined with near-infrared diffuse reflectance imaging for improving colonic cancer detection. <i>Optics Express</i> , 2010, 18, 24293. | 1.7 | 30 |
| 67 | Heterodyne polarization coherent anti-Stokes Raman scattering microscopy. <i>Applied Physics Letters</i> , 2008, 92, 123901. | 1.5 | 28 |
| 68 | Polarization-resolved hyperspectral stimulated Raman scattering microscopy for label-free biomolecular imaging of the tooth. <i>Applied Physics Letters</i> , 2016, 108, . | 1.5 | 27 |
| 69 | Modelling n-heptane dilute spray flames in a model supersonic combustor fueled by hydrogen. <i>Fuel</i> , 2020, 264, 116809. | 3.4 | 27 |
| 70 | SURFACE-ENHANCED RAMAN SCATTERING: PRINCIPLES, NANOSTRUCTURES, FABRICATIONS, AND BIOMEDICAL APPLICATIONS. <i>Journal of Innovative Optical Health Sciences</i> , 2008, 01, 267-284. | 0.5 | 25 |
| 71 | Circularly polarized coherent anti-Stokes Raman scattering microscopy. <i>Optics Letters</i> , 2013, 38, 1262. | 1.7 | 25 |
| 72 | Integrated Mueller-matrix near-infrared imaging and point-wise spectroscopy improves colonic cancer detection. <i>Biomedical Optics Express</i> , 2016, 7, 1116. | 1.5 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Development of a hybrid Raman spectroscopy and optical coherence tomography technique for real-time <i>in vivo</i> tissue measurements. <i>Optics Letters</i> , 2016, 41, 3045. | 1.7 | 25 |
| 74 | Real-Time Monitoring of Pharmacokinetics of Mitochondria-Targeting Molecules in Live Cells with Bioorthogonal Hyperspectral Stimulated Raman Scattering Microscopy. <i>Analytical Chemistry</i> , 2020, 92, 740-748. | 3.2 | 25 |
| 75 | Development of a multiplexing fingerprint and high wavenumber Raman spectroscopy technique for real-time <i>in vivo</i> tissue Raman measurements at endoscopy. <i>Journal of Biomedical Optics</i> , 2013, 18, 030502. | 1.4 | 24 |
| 76 | Optical diagnosis and characterization of dental caries with polarization-resolved hyperspectral stimulated Raman scattering microscopy. <i>Biomedical Optics Express</i> , 2016, 7, 1284. | 1.5 | 24 |
| 77 | Numerical investigations of mixed supersonic and subsonic combustion modes in a model combustor. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1045-1060. | 3.8 | 24 |
| 78 | Application of the sparse-Lagrangian multiple mapping conditioning approach to a model supersonic combustor. <i>Physics of Fluids</i> , 2020, 32, . | 1.6 | 23 |
| 79 | Stimulated Raman Scattering Tomography Enables Label-Free Volumetric Deep Tissue Imaging. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100069. | 4.4 | 23 |
| 80 | Monte Carlo simulation of cutaneous reflectance and fluorescence measurements – The effect of melanin contents and localization. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2007, 86, 219-226. | 1.7 | 22 |
| 81 | Beveled fiber-optic probe couples a ball lens for improving depth-resolved fluorescence measurements of layered tissue: Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2008, 53, 937-951. | 1.6 | 22 |
| 82 | Investigations of autoignition and propagation of supersonic ethylene flames stabilized by a cavity. <i>Applied Energy</i> , 2020, 265, 114795. | 5.1 | 22 |
| 83 | Near-infrared Raman spectroscopy for assessing biochemical changes of cervical tissue associated with precarcinogenic transformation. <i>Analyst</i> , The, 2014, 139, 5379-5386. | 1.7 | 21 |
| 84 | Real time near-infrared Raman spectroscopy for the diagnosis of nasopharyngeal cancer. <i>Oncotarget</i> , 2017, 8, 49443-49450. | 0.8 | 21 |
| 85 | On the interactions between a propagating shock wave and evaporating water droplets. <i>Physics of Fluids</i> , 2020, 32, . | 1.6 | 21 |
| 86 | Laser-induced autofluorescence microscopy of normal and tumor human colonic tissue. <i>International Journal of Oncology</i> , 2004, 24, 59. | 1.4 | 20 |
| 87 | Lock-in-detection-free line-scan stimulated Raman scattering microscopy for near video-rate Raman imaging. <i>Optics Letters</i> , 2016, 41, 3960. | 1.7 | 20 |
| 88 | 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. | 3.2 | 20 |
| 89 | Elliptically polarized coherent anti-Stokes Raman scattering microscopy. <i>Optics Letters</i> , 2008, 33, 2842. | 1.7 | 19 |
| 90 | Integrated coherent anti-Stokes Raman scattering and multiphoton microscopy for biomolecular imaging using spectral filtering of a femtosecond laser. <i>Applied Physics Letters</i> , 2010, 96, 133701. | 1.5 | 19 |

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|-----|--|-----|-----------|
| 91 | Near-field effects on coherent anti-Stokes Raman scattering microscopy imaging. <i>Optics Express</i> , 2007, 15, 4118. | 1.7 | 18 |
| 92 | Radially polarized tip-enhanced near-field coherent anti-Stokes Raman scattering microscopy for vibrational nano-imaging. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 18 |
| 93 | Improving surface-enhanced Raman scattering effect using gold-coated hierarchical polystyrene bead substrates modified with postgrowth microwave treatment. <i>Journal of Biomedical Optics</i> , 2008, 13, 064040. | 1.4 | 17 |
| 94 | Near-infrared autofluorescence spectroscopy for in vivo identification of hyperplastic and adenomatous polyps in the colon. <i>Biosensors and Bioelectronics</i> , 2011, 30, 118-122. | 5.3 | 17 |
| 95 | Spatial light-modulated stimulated Raman scattering (SLM-SRS) microscopy for rapid multiplexed vibrational imaging. <i>Theranostics</i> , 2020, 10, 312-322. | 4.6 | 16 |
| 96 | Scalable Fourier transform system for instantly structured illumination in lithography. <i>Optics Letters</i> , 2017, 42, 1978. | 1.7 | 16 |
| 97 | Improved contrast radially polarized coherent anti-Stokes Raman scattering microscopy using annular aperture detection. <i>Applied Physics Letters</i> , 2009, 95, . | 1.5 | 15 |
| 98 | Numerical study of effects of light polarization, scatterer sizes and orientations on near-field coherent anti-Stokes Raman scattering microscopy. <i>Optics Express</i> , 2009, 17, 2423. | 1.7 | 14 |
| 99 | Non-invasive analysis of hormonal variations and effect of postmenopausal Vagifem treatment on women using in vivo high wavenumber confocal Raman spectroscopy. <i>Analyst, The</i> , 2013, 138, 4120. | 1.7 | 14 |
| 100 | Multivariate Reference Technique for Quantitative Analysis of Fiber-Optic Tissue Raman Spectroscopy. <i>Analytical Chemistry</i> , 2013, 85, 11297-11303. | 3.2 | 14 |
| 101 | Polarization-resolved second-harmonic generation imaging for liver fibrosis assessment without labeling. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 14 |
| 102 | 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. | 3.2 | 14 |
| 103 | Multimodal nonlinear optical microscopic imaging provides new insights into acetowhitening mechanisms in live mammalian cells without labeling. <i>Biomedical Optics Express</i> , 2014, 5, 3116. | 1.5 | 12 |
| 104 | Characterizing biochemical and morphological variations of clinically relevant anatomical locations of oral tissue in vivo with hybrid Raman spectroscopy and optical coherence tomography technique. <i>Journal of Biophotonics</i> , 2018, 11, e201700113. | 1.1 | 12 |
| 105 | Diagnosis of early stage nasopharyngeal carcinoma using ultraviolet autofluorescence excitation-emission matrix spectroscopy and parallel factor analysis. <i>Analyst, The</i> , 2011, 136, 3896. | 1.7 | 11 |
| 106 | Label-free three-dimensional imaging of cell nucleus using third-harmonic generation microscopy. <i>Applied Physics Letters</i> , 2014, 105, 103705. | 1.5 | 11 |
| 107 | Spectroscopic assessment of dermal melanin using blue vitiligo as an in vivo model. <i>Photodermatology Photoimmunology and Photomedicine</i> , 2006, 22, 46-51. | 0.7 | 10 |
| 108 | Epi-detected quadruple-modal nonlinear optical microscopy for label-free imaging of the tooth. <i>Applied Physics Letters</i> , 2015, 106, . | 1.5 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Ignition and deflagration-to-detonation transition modes in ethylene/air mixtures behind a reflected shock. <i>Physics of Fluids</i> , 2022, 34, . | 1.6 | 10 |
| 110 | Integrated autofluorescence endoscopic imaging and point-wise spectroscopy for real-time in vivo tissue measurements. <i>Journal of Biomedical Optics</i> , 2010, 15, 1. | 1.4 | 9 |
| 111 | Effects of scatterersâ€™ sizes on near-field coherent anti-Stokes Raman scattering under tightly focused radially and linearly polarized light excitation. <i>Optics Express</i> , 2010, 18, 10888. | 1.7 | 9 |
| 112 | Half-ball lens couples a beveled fiber probe for depth-resolved spectroscopy: Monte Carlo simulations. <i>Applied Optics</i> , 2008, 47, 3152. | 2.1 | 8 |
| 113 | Triple-frequency symmetric subtraction scheme for nonresonant background suppression in coherent anti-Stokes Raman scattering (CARS) microscopy. <i>Optics Express</i> , 2010, 18, 15714. | 1.7 | 8 |
| 114 | Development and characterization of a disposable submillimeter fiber optic Raman needle probe for enhancing real-time in vivo deep tissue and biofluids Raman measurements. <i>Optics Letters</i> , 2021, 46, 5197. | 1.7 | 8 |
| 115 | Mapping the Intratumoral Heterogeneity in Glioblastomas with Hyperspectral Stimulated Raman Scattering Microscopy. <i>Analytical Chemistry</i> , 2021, 93, 2377-2384. | 3.2 | 8 |
| 116 | Supercritical focusing coherent anti-Stokes Raman scattering microscopy for high-resolution vibrational imaging. <i>Optics Letters</i> , 2018, 43, 5615. | 1.7 | 8 |
| 117 | Optimization of extinction efficiency of goldâ€™coated polystyrene bead substrates improves surfaceâ€™enhanced Raman scattering effects by postâ€™growth microwave heating treatment. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 374-380. | 1.2 | 7 |
| 118 | Annular aperture-detected coherent anti-Stokes Raman scattering microscopy for high contrast vibrational imaging. <i>Applied Physics Letters</i> , 2010, 97, 083701. | 1.5 | 7 |
| 119 | Real-time depth-resolved fiber optic Raman endoscopy for in vivo diagnosis of gastric precancer. , 2014, , . | | 7 |
| 120 | Quantitative assessment of spinal cord injury using circularly polarized coherent anti-Stokes Raman scattering microscopy. <i>Applied Physics Letters</i> , 2017, 111, 063704. | 1.5 | 7 |
| 121 | Large eddy simulation of a supersonic lifted hydrogen flame with sparse-Lagrangian multiple mapping conditioning approach. <i>Combustion and Flame</i> , 2022, 238, 111756. | 2.8 | 5 |
| 122 | <title>Evaluation of variations of biomolecular constituents in human skin in vivo by near-infrared Raman spectroscopy</title>. , 2001, , . | | 4 |
| 123 | Effect of hormonal variation on in vivo high wavenumber Raman spectra improves cervical precancer detection. , 2012, , . | | 4 |
| 124 | Phase-controlled polarization coherent anti-Stokes Raman scattering microscopy for high-sensitivity and high-contrast molecular imaging. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 1907. | 0.9 | 3 |
| 125 | Rapid near-infrared fluorescence excitationâ€™emission matrix spectroscopy for multifluorophore characterization using an acousto-optic tunable filter technique. <i>Journal of Biomedical Optics</i> , 2010, 15, 027010. | 1.4 | 3 |
| 126 | In vivo Raman spectroscopy integrated with multimodal endoscopic imaging for early diagnosis of gastric dysplasia. , 2010, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Real-time depth-resolved Raman endoscopy for <i>in vivo</i> diagnosis of dysplasia in Barrett's esophagus. Proceedings of SPIE, 2013, , . | 0.8 | 3 |
| 128 | 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 |
| 129 | Combining raman spectroscopy with background near-infrared autofluorescence to improve the non-invasive detection of malignant tumors. , 0, , . | | 2 |
| 130 | Saliva analysis using surface-enhanced Raman spectroscopy technique. , 2007, , . | | 2 |
| 131 | Image-guided near-infrared Raman spectroscopy for <i>in vivo</i> detection of gastric dysplasia. Proceedings of SPIE, 2009, , . | 0.8 | 2 |
| 132 | An integrated coherent anti-Stokes Raman scattering and multiphoton imaging technique for liver disease diagnosis. , 2012, , . | | 2 |
| 133 | Integrated fingerprint and high wavenumber confocal Raman spectroscopy for <i>in vivo</i> diagnosis of cervical precancer. Proceedings of SPIE, 2013, , . | 0.8 | 2 |
| 134 | Integrated coherent Raman scattering and multiphoton microscopy for label-free imaging of the dentin in the tooth. , 2014, , . | | 2 |
| 135 | Simultaneous quadruple modal nonlinear optical imaging for gastric diseases diagnosis and characterization. Proceedings of SPIE, 2015, , . | 0.8 | 2 |
| 136 | Near-infrared Raman spectroscopy for colonic cancer diagnosis. , 2005, , . | | 1 |
| 137 | Quantitative analysis of skin chemicals using rapid near-infrared Raman spectroscopy. , 2008, , . | | 1 |
| 138 | Radially polarized tip-enhanced near-field coherent anti-Stokes Raman scattering microscopy for bioimaging. , 2012, , . | | 1 |
| 139 | Moving Raman spectroscopy into real-time, online diagnosis and detection of precancer and cancer <i>in vivo</i> in the upper GI during clinical endoscopic examination. , 2013, , . | | 1 |
| 140 | Quantitative fiber-optic Raman spectroscopy for tissue Raman measurements. , 2014, , . | | 1 |
| 141 | 36 Fiberoptic Confocal Raman Endoscopy for Enhancing Real-Time <i>In Vivo</i> Diagnosis of Gastric Precancer. Gastroenterology, 2014, 146, S-10. | 0.6 | 1 |
| 142 | Simultaneous fingerprint and high-wavenumber Raman endoscopy for <i>in vivo</i> diagnosis of colorectal precancer. , 2015, , . | | 1 |
| 143 | High-resolution stimulated Raman scattering microscopy by focal-field modulation. Proceedings of SPIE, 2016, , . | 0.8 | 1 |
| 144 | Hyperspectral stimulated Raman scattering and multiphoton imaging for digital pathology of colonic disease. , 2016, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Near-infrared autofluorescence polarization imaging for colonic cancer detection. , 2009, , . | | 1 |
| 146 | <title>Autofluorescence diagnostic algorithm for detecting malignant colonic tissues</title>. , 2001, , . | | 0 |
| 147 | Near-infrared Raman spectroscopy detects lung cancer. , 2005, 5630, 340. | | 0 |
| 148 | Classification of Raman Spectra of Colonic Tissues using Pattern Recognition Technique. , 2006, , ME62. | | 0 |
| 149 | Near-infrared Raman spectroscopy for optical diagnosis of gastric precancer. Proceedings of SPIE, 2007, 6826, 431. | 0.8 | 0 |
| 150 | Near-infrared Fluorescence Imaging for Colonic Cancer Diagnosis. , 2007, , . | | 0 |
| 151 | A specially modified surface-enhanced Raman spectroscopy (SERS) substrate for biomedical applications. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 152 | Raman spectroscopy for optical diagnosis of laryngeal cancer. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 153 | Autofluorescence spectroscopic imaging for laryngeal cancer detection. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 154 | Elliptically Polarized Coherent anti-Stokes Raman Scattering Microscopy for High Contrast Vibrational Imaging. , 2009, , . | | 0 |
| 155 | Coherent anti-stokes Raman scattering (RP-CARS) microscopy for sensing molecular orientations. Proceedings of SPIE, 2009, , . | 0.8 | 0 |
| 156 | Annular aperture detection scheme in radially polarized coherent anti-Stokes Raman scattering (RP-CARS) microscopy for contrast improvement. Proceedings of SPIE, 2010, , . | 0.8 | 0 |
| 157 | Multimodal endoscopic imaging and Raman spectroscopy for improving in vivo diagnosis of gastric malignancies during clinical gastroscopy. Proceedings of SPIE, 2010, , . | 0.8 | 0 |
| 158 | Assessment of fibrotic liver disease with multimodal nonlinear optical microscopy. , 2010, , . | | 0 |
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