

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	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
2	Coherent Raman scattering microscopy for superresolution vibrational imaging: Principles, techniques, and implementations. , 2022, , 147-163.		0
3	Fourier-Domain Stimulated Raman Scattering Tomography For Label-Free Deep Tissue Chemical Imaging. , 2022, , .		0
4	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
5	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
6	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
7	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
8	Stimulated Raman Scattering Tomography Enables Label-Free Volumetric Deep Tissue Imaging. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100069.	4.4	23
9	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
10	Mapping the Intratumoral Heterogeneity in Glioblastomas with Hyperspectral Stimulated Raman Scattering Microscopy. <i>Analytical Chemistry</i> , 2021, 93, 2377-2384.	3.2	8
11	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
12	Spatial light-modulated stimulated Raman scattering (SLM-SRS) microscopy for rapid multiplexed vibrational imaging. <i>Theranostics</i> , 2020, 10, 312-322.	4.6	16
13	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
14	Modelling n-heptane dilute spray flames in a model supersonic combustor fueled by hydrogen. <i>Fuel</i> , 2020, 264, 116809.	3.4	27
15	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
16	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
17	Large eddy simulation of turbulent supersonic hydrogen flames with OpenFOAM. <i>Fuel</i> , 2020, 282, 118812.	3.4	44
18	Application of the sparse-Lagrangian multiple mapping conditioning approach to a model supersonic combustor. <i>Physics of Fluids</i> , 2020, 32, .	1.6	23

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19	Investigations of autoignition and propagation of supersonic ethylene flames stabilized by a cavity. <i>Applied Energy</i> , 2020, 265, 114795.	5.1	22
20	On the interactions between a propagating shock wave and evaporating water droplets. <i>Physics of Fluids</i> , 2020, 32, .	1.6	21
21	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
22	Saturated Stimulated-Raman-Scattering Microscopy for Far-Field Superresolution Vibrational Imaging. <i>Physical Review Applied</i> , 2019, 11, .	1.5	54
23	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
24	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
25	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
26	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
27	Guest Editorial: Special Topic on Coherent Raman Spectroscopy and Imaging. <i>APL Photonics</i> , 2018, 3, 090401.	3.0	0
28	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
29	Supercritical focusing coherent anti-Stokes Raman scattering microscopy for high-resolution vibrational imaging. <i>Optics Letters</i> , 2018, 43, 5615.	1.7	8
30	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
31	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
32	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
33	Real-time In vivo Diagnosis of Nasopharyngeal Carcinoma Using Rapid Fiber-Optic Raman Spectroscopy. <i>Theranostics</i> , 2017, 7, 3517-3526.	4.6	46
34	Real time near-infrared Raman spectroscopy for the diagnosis of nasopharyngeal cancer. <i>Oncotarget</i> , 2017, 8, 49443-49450.	0.8	21
35	Scalable Fourier transform system for instantly structured illumination in lithography. <i>Optics Letters</i> , 2017, 42, 1978.	1.7	16
36	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

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37	High-resolution stimulated Raman scattering microscopy by focal-field modulation. Proceedings of SPIE, 2016, , .	0.8	1
38	Simultaneous fingerprint and high-wavenumber fiber-optic Raman spectroscopy enhances real-time <i>in vivo</i> diagnosis of adenomatous polyps during colonoscopy. Journal of Biophotonics, 2016, 9, 333-342.	1.1	79
39	Hyperspectral stimulated Raman scattering and multiphoton imaging for digital pathology of colonic disease. , 2016, , .		1
40	Polarization-resolved hyperspectral stimulated Raman scattering microscopy for label-free biomolecular imaging of the tooth. Applied Physics Letters, 2016, 108, .	1.5	27
41	Rapid Fiber-optic Raman Spectroscopy for Real-Time <i>In Vivo</i> Detection of Gastric Intestinal Metaplasia during Clinical Gastroscopy. Cancer Prevention Research, 2016, 9, 476-483.	0.7	45
42	Combustion oscillation study in a kerosene fueled rocket-based combined-cycle engine combustor. Acta Astronautica, 2016, 129, 260-270.	1.7	41
43	Integrated Mueller-matrix near-infrared imaging and point-wise spectroscopy improves colonic cancer detection. Biomedical Optics Express, 2016, 7, 1116.	1.5	25
44	Lock-in-detection-free line-scan stimulated Raman scattering microscopy for near video-rate Raman imaging. Optics Letters, 2016, 41, 3960.	1.7	20
45	Development of a hybrid Raman spectroscopy and optical coherence tomography technique for real-time <i>in vivo</i> tissue measurements. Optics Letters, 2016, 41, 3045.	1.7	25
46	Large eddy simulation of combustion characteristics in a kerosene fueled rocket-based combined-cycle engine combustor. Acta Astronautica, 2016, 127, 326-334.	1.7	39
47	Glucose sensing through Fano resonances in mesoscale silica core-gold shell particles arrays. Proceedings of SPIE, 2016, , .	0.8	0
48	Near-infrared Mueller matrix imaging for colonic cancer detection. , 2016, , .		0
49	Diagnosis potential of near infrared Mueller Matrix imaging for colonic adenocarcinoma. Proceedings of SPIE, 2016, , .	0.8	0
50	Endoscope-based beveled and volume fiber-optic Raman probes for <i>in vivo</i> diagnosis of gastric dysplasia: a comparative study. , 2016, , .		0
51	Dental caries imaging using hyperspectral stimulated Raman scattering microscopy. Proceedings of SPIE, 2016, , .	0.8	0
52	Optical diagnosis and characterization of dental caries with polarization-resolved hyperspectral stimulated Raman scattering microscopy. Biomedical Optics Express, 2016, 7, 1284.	1.5	24
53	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
54	Fiber-optic Raman spectroscopy for <i>in vivo</i> diagnosis of gastric dysplasia. Faraday Discussions, 2016, 187, 377-392.	1.6	33

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55	Polarization-Resolved Hyperspectral Stimulated Raman Microscopy for Tooth Imaging. , 2016, , .		0
56	Simultaneous quadruple modal nonlinear optical imaging for gastric diseases diagnosis and characterization. Proceedings of SPIE, 2015, , .	0.8	2
57	Study of acetowhitening mechanisms in live mammalian cells with label-free subcellular-level multimodal nonlinear optical microscopy. Proceedings of SPIE, 2015, , .	0.8	0
58	Epi-detected quadruple-modal nonlinear optical microscopy for label-free imaging of the tooth. Applied Physics Letters, 2015, 106, .	1.5	10
59	Compact Raman needle probe with fine needle aspiration biopsy for solid tissues. Proceedings of SPIE, 2015, , .	0.8	0
60	Simultaneous fingerprint and high-wavenumber fiber-optic Raman spectroscopy improves in vivo diagnosis of esophageal squamous cell carcinoma at endoscopy. Scientific Reports, 2015, 5, 12957.	1.6	46
61	Large eddy simulation of flame structure and combustion mode in a hydrogen fueled supersonic combustor. International Journal of Hydrogen Energy, 2015, 40, 9815-9824.	3.8	87
62	Comparative study of the endoscope-based bevelled and volume fiber-optic Raman probes for optical diagnosis of gastric dysplasia in vivo at endoscopy. Analytical and Bioanalytical Chemistry, 2015, 407, 8303-8310.	1.9	40
63	Simultaneous fingerprint and high-wavenumber Raman endoscopy for in vivo diagnosis of colorectal precancer. , 2015, , .		1
64	A novel broadband Raman endoscopy for <i>in vivo</i> diagnosis of intestinal metaplasia in the stomach. Proceedings of SPIE, 2015, , .	0.8	0
65	Second-Harmonic Generation from Sub-5 nm Gaps by Directed Self-Assembly of Nanoparticles onto Template-Stripped Gold Substrates. Nano Letters, 2015, 15, 5976-5981.	4.5	86
66	Characterizing Variability of In Vivo Raman Spectroscopic Properties of Different Anatomical Sites of Normal Colorectal Tissue towards Cancer Diagnosis at Colonoscopy. Analytical Chemistry, 2015, 87, 960-966.	3.2	62
67	Integrated coherent Raman scattering and multiphoton microscopy for label-free imaging of the dentin in the tooth. , 2014, , .		2
68	Simultaneous Fingerprint and High-Wavenumber Confocal Raman Spectroscopy Enables Real-time In Vivo Diagnosis of Colonic Cancer at Endoscopy. , 2014, , .		0
69	Multimodal nonlinear optical microscopic imaging provides new insights into acetowhitening mechanisms in live mammalian cells without labeling. Biomedical Optics Express, 2014, 5, 3116.	1.5	12
70	Label-free three-dimensional imaging of cell nucleus using third-harmonic generation microscopy. Applied Physics Letters, 2014, 105, 103705.	1.5	11
71	Simultaneous stimulated Raman scattering and higher harmonic generation imaging for liver disease diagnosis without labeling. , 2014, , .		0
72	Real-time depth-resolved fiber optic Raman endoscopy for in vivo diagnosis of gastric precancer. , 2014, , .		7

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73	Quantitative fiber-optic Raman spectroscopy for tissue Raman measurements. , 2014, , .		1
74	Fiberoptic Confocal Raman Spectroscopy for Real-Time In Vivo Diagnosis of Dysplasia in Barrett's Esophagus. Gastroenterology, 2014, 146, 27-32.	0.6	119
75	Near-infrared Raman spectroscopy for assessing biochemical changes of cervical tissue associated with precarcinogenic transformation. Analyst, The, 2014, 139, 5379-5386.	1.7	21
76	36 Fiberoptic Confocal Raman Endoscopy for Enhancing Real-Time In Vivo Diagnosis of Gastric Precancer. Gastroenterology, 2014, 146, S-10.	0.6	1
77	Non-invasive analysis of hormonal variations and effect of postmenopausal Vagifem treatment on women using in vivo high wavenumber confocal Raman spectroscopy. Analyst, The, 2013, 138, 4120.	1.7	14
78	Moving Raman spectroscopy into real-time, online diagnosis and detection of precancer and cancer in vivo in the upper GI during clinical endoscopic examination. , 2013, , .		1
79	Integrated fingerprint and high wavenumber confocal Raman spectroscopy for in vivo diagnosis of cervical precancer. Proceedings of SPIE, 2013, , .	0.8	2
80	Fiber-optic Raman spectroscopy probes gastric carcinogenesis <i>in vivo</i> at endoscopy. Journal of Biophotonics, 2013, 6, 49-59.	1.1	87
81	Multivariate Reference Technique for Quantitative Analysis of Fiber-Optic Tissue Raman Spectroscopy. Analytical Chemistry, 2013, 85, 11297-11303.	3.2	14
82	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
83	Circularly polarized coherent anti-Stokes Raman scattering microscopy. Optics Letters, 2013, 38, 1262.	1.7	25
84	Development of a beveled fiber-optic confocal Raman probe for enhancing in vivo epithelial tissue Raman measurements at endoscopy. Optics Letters, 2013, 38, 2321.	1.7	65
85	Near-infrared-excited confocal Raman spectroscopy advances <i>in vivo</i> diagnosis of cervical precancer. Journal of Biomedical Optics, 2013, 18, 067007.	1.4	47
86	Development of a multiplexing fingerprint and high wavenumber Raman spectroscopy technique for real-time <i>in vivo</i> tissue Raman measurements at endoscopy. Journal of Biomedical Optics, 2013, 18, 030502.	1.4	24
87	Radially polarized tip-enhanced near-field coherent anti-Stokes Raman scattering microscopy for vibrational nano-imaging. Applied Physics Letters, 2013, 103, .	1.5	18
88	Polarization-coded coherent anti-Stokes Raman scattering microscopy for nonresonant background suppression. Proceedings of SPIE, 2013, , .	0.8	0
89	Polarization-resolved second-harmonic generation imaging for liver fibrosis assessment without labeling. Applied Physics Letters, 2013, 103, .	1.5	14
90	<i>In vivo</i> , real-time, transnasal, image-guided Raman endoscopy: defining spectral properties in the nasopharynx and larynx. Journal of Biomedical Optics, 2012, 17, 0770021.	1.4	32

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91	Real-time Raman spectroscopy for in vivo, online gastric cancer diagnosis during clinical endoscopic examination. <i>Journal of Biomedical Optics</i> , 2012, 17, 1.	1.4	115
92	Univariate and multivariate methods for chemical mapping of cervical cancer cells. , 2012, , .		0
93	Detection of malignant lesions in vivo in the upper gastrointestinal tract using image-guided Raman endoscopy. , 2012, , .		0
94	An integrated coherent anti-Stokes Raman scattering and multiphoton imaging technique for liver disease diagnosis. , 2012, , .		2
95	Effect of hormonal variation on in vivo high wavenumber Raman spectra improves cervical precancer detection. , 2012, , .		4
96	Radially polarized tip-enhanced near-field coherent anti-Stokes Raman scattering microscopy for bioimaging. , 2012, , .		1
97	Simultaneous Fingerprint and High-Wavenumber Confocal Raman Spectroscopy Enhances Early Detection of Cervical Precancer In Vivo. <i>Analytical Chemistry</i> , 2012, 84, 5913-5919.	3.2	123
98	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
99	Optical diagnosis of laryngeal cancer using high wavenumber Raman spectroscopy. <i>Biosensors and Bioelectronics</i> , 2012, 35, 213-217.	5.3	66
100	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
101	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
102	In vivo diagnosis of cervical precancer using Raman spectroscopy and genetic algorithm techniques. <i>Analyst, The</i> , 2011, 136, 4328.	1.7	85
103	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
104	<i>In vivo</i> diagnosis of gastric cancer using Raman endoscopy and ant colony optimization techniques. <i>International Journal of Cancer</i> , 2011, 128, 2673-2680.	2.3	97
105	Combining near-infrared-excited autofluorescence and Raman spectroscopy improves in vivo diagnosis of gastric cancer. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4104-4110.	5.3	89
106	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
107	Characterizing variability in in vivo Raman spectra of different anatomical locations in the upper gastrointestinal tract toward cancer detection. <i>Journal of Biomedical Optics</i> , 2011, 16, 037003.	1.4	94
108	<i>In Vivo</i> Diagnosis of Esophageal Cancer Using Image-Guided Raman Endoscopy and Biomolecular Modeling. <i>Technology in Cancer Research and Treatment</i> , 2011, 10, 103-112.	0.8	129

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109	Multimodal nonlinear optical imaging of obesity-induced liver steatosis and fibrosis. , 2011, , .		0
110	In vivo diagnosis of colonic precancer and cancer using near-infrared autofluorescence spectroscopy and biochemical modeling. Journal of Biomedical Optics, 2011, 16, 067005.	1.4	32
111	Assessment of liver steatosis and fibrosis in rats using integrated coherent anti-Stokes Raman scattering and multiphoton imaging technique. Journal of Biomedical Optics, 2011, 16, 1.	1.4	56
112	High contrast coherent anti-Stokes Raman scattering microscopy using tightly focused cylindrical vector beams. , 2011, , .		0
113	Optimization of extinction efficiency of gold-coated polystyrene bead substrates improves surface-enhanced Raman scattering effects by post-growth microwave heating treatment. Journal of Raman Spectroscopy, 2010, 41, 374-380.	1.2	7
114	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
115	Multimodal endoscopic imaging and Raman spectroscopy for improving in vivo diagnosis of gastric malignancies during clinical gastroscopy. Proceedings of SPIE, 2010, , .	0.8	0
116	Assessment of fibrotic liver disease with multimodal nonlinear optical microscopy. , 2010, , .		0
117	In vivo detection of epithelial neoplasia in the stomach using image-guided Raman endoscopy. Biosensors and Bioelectronics, 2010, 26, 383-389.	5.3	90
118	Near-infrared Raman spectroscopy for optical diagnosis in the stomach: Identification of <i>Helicobacter pylori</i> infection and intestinal metaplasia. International Journal of Cancer, 2010, 126, 1920-1927.	2.3	45
119	Low-level detection of anti-cancer drug in blood plasma using microwave-treated gold-polystyrene beads as surface-enhanced Raman scattering substrates. Biosensors and Bioelectronics, 2010, 26, 580-584.	5.3	53
120	Integrated autofluorescence endoscopic imaging and point-wise spectroscopy for real-time in vivo tissue measurements. Journal of Biomedical Optics, 2010, 15, 1.	1.4	9
121	Rapid near-infrared fluorescence excitation-emission matrix spectroscopy for multifluorophore characterization using an acousto-optic tunable filter technique. Journal of Biomedical Optics, 2010, 15, 027010.	1.4	3
122	Annular aperture-detected coherent anti-Stokes Raman scattering microscopy for high contrast vibrational imaging. Applied Physics Letters, 2010, 97, 083701.	1.5	7
123	Integrated coherent anti-Stokes Raman scattering and multiphoton microscopy for biomolecular imaging using spectral filtering of a femtosecond laser. Applied Physics Letters, 2010, 96, 133701.	1.5	19
124	Image-Guided Raman Spectroscopy For In Vivo Diagnosis of Gastric Precancer At Gastroscopy. , 2010, , .		0
125	Raman endoscopy for in vivo differentiation between benign and malignant ulcers in the stomach. Analyst, The, 2010, 135, 3162.	1.7	86
126	In vivo Raman spectroscopy integrated with multimodal endoscopic imaging for early diagnosis of gastric dysplasia. , 2010, , .		3

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127	Fiber-optic Raman probe couples ball lens for depth-selected Raman measurements of epithelial tissue. Biomedical Optics Express, 2010, 1, 17.	1.5	56
128	Effects of scatterers' sizes on near-field coherent anti-Stokes Raman scattering under tightly focused radially and linearly polarized light excitation. Optics Express, 2010, 18, 10888.	1.7	9
129	Triple-frequency symmetric subtraction scheme for nonresonant background suppression in coherent anti-Stokes Raman scattering (CARS) microscopy. Optics Express, 2010, 18, 15714.	1.7	8
130	Polarized near-infrared autofluorescence imaging combined with near-infrared diffuse reflectance imaging for improving colonic cancer detection. Optics Express, 2010, 18, 24293.	1.7	30
131	In vivo early diagnosis of gastric dysplasia using narrow-band image-guided Raman endoscopy. Journal of Biomedical Optics, 2010, 15, 037017.	1.4	77
132	Elliptically Polarized Coherent anti-Stokes Raman Scattering Microscopy for High Contrast Vibrational Imaging. , 2009, , .		0
133	Near-infrared Raman spectroscopy for gastric precancer diagnosis. Journal of Raman Spectroscopy, 2009, 40, 908-914.	1.2	55
134	High Wavenumber Raman Spectroscopy for in Vivo Detection of Cervical Dysplasia. Analytical Chemistry, 2009, 81, 8908-8915.	3.2	126
135	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
136	Coherent anti-Stokes Raman scattering microscopy using tightly focused radially polarized light. Optics Letters, 2009, 34, 1870.	1.7	86
137	Numerical study of effects of light polarization, scatterer sizes and orientations on near-field coherent anti-Stokes Raman scattering microscopy. Optics Express, 2009, 17, 2423.	1.7	14
138	Improved contrast radially polarized coherent anti-Stokes Raman scattering microscopy using annular aperture detection. Applied Physics Letters, 2009, 95, .	1.5	15
139	Spectroscopic diagnosis of laryngeal carcinoma using near-infrared Raman spectroscopy and random recursive partitioning ensemble techniques. Analyst, The, 2009, 134, 1232.	1.7	66
140	Image-guided near-infrared Raman spectroscopy for in vivo detection of gastric dysplasia. Proceedings of SPIE, 2009, , .	0.8	2
141	Coherent anti-stokes Raman scattering (RP-CARS) microscopy for sensing molecular orientations. Proceedings of SPIE, 2009, , .	0.8	0
142	Near-infrared autofluorescence polarization imaging for colonic cancer detection. , 2009, , .		1
143	Coherent Anti-Stokes Raman Scattering Microscopy for Sensing Molecular Orientations. , 2009, , .		0
144	Interferometric polarization coherent anti-Stokes Raman scattering (IP-CARS) microscopy. Optics Letters, 2008, 33, 602.	1.7	44

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145	Elliptically polarized coherent anti-Stokes Raman scattering microscopy. <i>Optics Letters</i> , 2008, 33, 2842.	1.7	19
146	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
147	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
148	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
149	Diagnostic potential of near-infrared Raman spectroscopy in the stomach: differentiating dysplasia from normal tissue. <i>British Journal of Cancer</i> , 2008, 98, 457-465.	2.9	204
150	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
151	A specially modified surface-enhanced Raman spectroscopy (SERS) substrate for biomedical applications. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
152	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
153	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
154	Heterodyne polarization coherent anti-Stokes Raman scattering microscopy. <i>Applied Physics Letters</i> , 2008, 92, 123901.	1.5	28
155	Quantitative analysis of skin chemicals using rapid near-infrared Raman spectroscopy. , 2008, , .		1
156	Raman spectroscopy for optical diagnosis of laryngeal cancer. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
157	Autofluorescence spectroscopic imaging for laryngeal cancer detection. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
158	Saliva analysis using surface-enhanced Raman spectroscopy technique. , 2007, , .		2
159	Near-infrared Raman spectroscopy for optical diagnosis of gastric precancer. <i>Proceedings of SPIE</i> , 2007, 6826, 431.	0.8	0
160	Near-field effects on coherent anti-Stokes Raman scattering microscopy imaging. <i>Optics Express</i> , 2007, 15, 4118.	1.7	18
161	Near-infrared Fluorescence Imaging for Colonic Cancer Diagnosis. , 2007, , .		0
162	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

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163	Cutaneous melanin exhibiting fluorescence emission under near-infrared light excitation. Journal of Biomedical Optics, 2006, 11, 034010.	1.4	101
164	Classification of Raman Spectra of Colonic Tissues using Pattern Recognition Technique. , 2006, , ME62.		0
165	Spectroscopic assessment of dermal melanin using blue vitiligo as an in vivo model. Photodermatology Photoimmunology and Photomedicine, 2006, 22, 46-51.	0.7	10
166	Near-infrared Raman spectroscopy for colonic cancer diagnosis. , 2005, , .		1
167	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
168	Raman spectroscopy for optical diagnosis in the larynx: Preliminary findings. Lasers in Surgery and Medicine, 2005, 37, 192-200.	1.1	93
169	Near-infrared Raman spectroscopy detects lung cancer. , 2005, 5630, 340.		0
170	Laser-induced autofluorescence microscopy of normal and tumor human colonic tissue. International Journal of Oncology, 2004, 24, 59.	1.4	20
171	Raman spectroscopy of in vivo cutaneous melanin. Journal of Biomedical Optics, 2004, 9, 1198.	1.4	197
172	Near-infrared Raman spectroscopy for optical diagnosis of lung cancer. International Journal of Cancer, 2003, 107, 1047-1052.	2.3	724
173	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
174	Effect of formalin fixation on the near-infrared Raman spectroscopy of normal and cancerous human bronchial tissues. International Journal of Oncology, 2003, 23, 649.	1.4	33
175	Rapid near-infrared Raman spectroscopy system for real-time in vivo skin measurements. Optics Letters, 2001, 26, 1782.	1.7	243
176	<title>Autofluorescence diagnostic algorithm for detecting malignant colonic tissues</title>. , 2001, , .		0
177	<title>Evaluation of variations of biomolecular constituents in human skin in vivo by near-infrared Raman spectroscopy</title>. , 2001, , .		4
178	Combining raman spectroscopy with background near-infrared autolluorescence to improve the non-invasive detection of malignant tumors. , 0, , .		2
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