Mads Sylvest Bergholt

List of Publications by Year
in descending order

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53	2,077	236925	276875
papers	citations	25 h-index	41 g-index

55	55	55	2406
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Raman spectroscopy and regenerative medicine: a review. Npj Regenerative Medicine, 2017, 2, 12.	5.2	147
2	Fiberoptic Confocal Raman Spectroscopy for Real-Time In Vivo Diagnosis of Dysplasia in Barrett's Esophagus. Gastroenterology, 2014, 146, 27-32.	1.3	119
3	Real-time Raman spectroscopy for in vivo, online gastric cancer diagnosis during clinical endoscopic examination. Journal of Biomedical Optics, 2012, 17, 1.	2.6	115
4	Quantitative volumetric Raman imaging of three dimensional cell cultures. Nature Communications, 2017, 8, 14843.	12.8	109
5	Raman Spectroscopy Reveals New Insights into the Zonal Organization of Native and Tissue-Engineered Articular Cartilage. ACS Central Science, 2016, 2, 885-895.	11.3	103
6	In vivo diagnosis of gastric cancer using Raman endoscopy and ant colony optimization techniques. International Journal of Cancer, 2011, 128, 2673-2680.	5.1	97
7	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.	2.6	94
8	Surface enhanced Raman scattering artificial nose for high dimensionality fingerprinting. Nature Communications, 2020, 11, 207.	12.8	93
9	Combining near-infrared-excited autofluorescence and Raman spectroscopy improves in vivo diagnosis of gastric cancer. Biosensors and Bioelectronics, 2011, 26, 4104-4110.	10.1	89
10	Fiberâ€optic Raman spectroscopy probes gastric carcinogenesis in vivo at endoscopy. Journal of Biophotonics, 2013, 6, 49-59.	2.3	87
11	Raman endoscopy for in vivo differentiation between benign and malignant ulcers in the stomach. Analyst, The, 2010, 135, 3162.	3.5	86
12	Simultaneous fingerprint and highâ€wavenumber fiberâ€optic Raman spectroscopy enhances realâ€time in vivo diagnosis of adenomatous polyps during colonoscopy. Journal of Biophotonics, 2016, 9, 333-342.	2.3	79
13	In vivo early diagnosis of gastric dysplasia using narrow-band image-guided Raman endoscopy. Journal of Biomedical Optics, 2010, 15, 037017.	2.6	77
14	Raman Spectroscopy: Guiding Light for the Extracellular Matrix. Frontiers in Bioengineering and Biotechnology, 2019, 7, 303.	4.1	72
15	Development of a beveled fiber-optic confocal Raman probe for enhancing in vivo epithelial tissue Raman measurements at endoscopy. Optics Letters, 2013, 38, 2321.	3.3	65
16	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.	6.5	62
17	Raman spectroscopy imaging reveals interplay between atherosclerosis and medial calcification in the human aorta. Science Advances, 2017, 3, e1701156.	10.3	60
18	Characterizing variability in in vivo Raman spectroscopic properties of different anatomical sites of normal tissue in the oral cavity. Journal of Raman Spectroscopy, 2012, 43, 255-262.	2.5	56

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19	Correlated Heterospectral Lipidomics for Biomolecular Profiling of Remyelination in Multiple Sclerosis. ACS Central Science, 2018, 4, 39-51.	11.3	44
20	Bioenergetic-active materials enhance tissue regeneration by modulating cellular metabolic state. Science Advances, 2020, 6, eaay7608.	10.3	44
21	Online quantitative monitoring of live cell engineered cartilage growth using diffuse fiber-optic Raman spectroscopy. Biomaterials, 2017, 140, 128-137.	11.4	41
22	High-Throughput Molecular Imaging via Deep-Learning-Enabled Raman Spectroscopy. Analytical Chemistry, 2021, 93, 15850-15860.	6.5	38
23	Single Particle Automated Raman Trapping Analysis. Nature Communications, 2018, 9, 4256.	12.8	37
24	In vivo biomolecular imaging of zebrafish embryos using confocal Raman spectroscopy. Nature Communications, 2020, 11, 6172.	12.8	36
25	In vivo, real-time, transnasal, image-guided Raman endoscopy: defining spectral properties in the nasopharynx and larynx. Journal of Biomedical Optics, 2012, 17, 0770021.	2.6	32
26	Quantification of C-Reactive protein in human blood plasma using near-infrared Raman spectroscopy. Analyst, The, 2009, 134, 2123.	3.5	26
27	Quantitative multiâ€image analysis for biomedical Raman spectroscopic imaging. Journal of Biophotonics, 2016, 9, 542-550.	2.3	25
28	Development of a multiplexing fingerprint and high wavenumber Raman spectroscopy technique for real-timein vivotissue Raman measurements at endoscopy. Journal of Biomedical Optics, 2013, 18, 030502.	2.6	24
29	Molecular imaging of extracellular vesicles in vitro via Raman metabolic labelling. Journal of Materials Chemistry B, 2020, 8, 4447-4459.	5.8	18
30	Multivariate Reference Technique for Quantitative Analysis of Fiber-Optic Tissue Raman Spectroscopy. Analytical Chemistry, 2013, 85, 11297-11303.	6.5	14
31	Integrated photodynamic Raman theranostic system for cancer diagnosis, treatment, and post-treatment molecular monitoring. Theranostics, 2021, 11, 2006-2019.	10.0	13
32	Image-guided Raman spectroscopy probe-tracking for tumor margin delineation. Journal of Biomedical Optics, 2021, 26, .	2.6	13
33	Diagnosis of early stage nasopharyngeal carcinoma using ultraviolet autofluorescence excitationâ€“emission matrix spectroscopy and parallel factor analysis. Analyst, The, 2011, 136, 3896.	3.5	11
34	Multiplexed polarized hypodermic Raman needle probe for biostructural analysis of articular cartilage. Optics Letters, 2020, 45, 2890.	3.3	10
35	Raman Endoscopy for Objective Diagnosis of Early Cancer in the Gastrointestinal System. , 2013, 01, .		9
36	Raman needle arthroscopy for in vivo molecular assessment of cartilage. Journal of Orthopaedic Research, 2022, 40, 1338-1348.	2.3	8

#	Article	IF	Citations
37	Real-time depth-resolved fiber optic Raman endoscopy forin vivodiagnosis of gastric precancer. , 2014, , .		7
38	Complementary techniques to analyse pericellular matrix formation by human MSC within hyaluronic acid hydrogels. Materials Advances, 2020, 1, 2888-2896.	5.4	4
39	In vivo Raman spectroscopy integrated with multimodal endoscopic imaging for early diagnosis of gastric dysplasia. , 2010, , .		3
40	Real-time depth-resolved Raman endoscopy forin vivodiagnosis of dysplasia in Barrett's esophagus. Proceedings of SPIE, 2013, , .	0.8	3
41	Hybrid confocal Raman endomicroscopy for morpho-chemical tissue characterization. Biomedical Optics Express, 2022, 13, 2278.	2.9	2
42	Sa1831 Image-Guided Raman Spectroscopy for Real-Time In Vivo Diagnosis of Barrett's Esophagus During Endoscopic Examination. Gastroenterology, 2012, 142, S-336.	1.3	1
43	Moving Raman spectroscopy into real-time, online diagnosis and detection of precancer and cancerin vivoin the upper GI during clinical endoscopic examination. , 2013, , .		1
44	36 Fiberoptic Confocal Raman Endoscopy for Enhancing Real-Time In Vivo Diagnosis of Gastric Precancer. Gastroenterology, 2014, 146, S-10.	1.3	1
45	Simultaneous fingerprint and high-wavenumber Raman endoscopy for in vivo diagnosis of colorectal precancer. , 2015, , .		1
46	Clinician engineers: The future of medical education. Medical Teacher, 2020, 42, 478-478.	1.8	1
47	Multimodal endoscopic imaging and Raman spectroscopy for improving in vivo diagnosis of gastric malignancies during clinical gastroscopy. Proceedings of SPIE, 2010, , .	0.8	0
48	Image-Guided Raman Spectroscopy For In Vivo Diagnosis of Gastric Precancer At Gastroscopy. , 2010, , .		0
49	Detection of malignant lesions in vivo in the upper gastrointestinal tract using image-guided Raman endoscopy. , 2012, , .		0
50	Mo1647 Confocal Raman Spectroscopy for Real-Time In Vivo Detection of High-grade Dysplasia in Barrett's Esophagus During Endoscopic Examination. Gastrointestinal Endoscopy, 2013, 77, AB457.	1.0	0
51	A novel broadband Raman endoscopy forin vivodiagnosis of intestinal metaplasia in the stomach. Proceedings of SPIE, 2015, , .	0.8	0
52	Multimodal endoscopic imaging and Raman spectroscopy for improving in vivo diagnosis of gastric malignancies during clinical gastroscopy. , 2010, , .		0
53	Clinician engineers â€“ Re-injecting the thinking into medicine. Asia Pacific Scholar, 2020, 5, 48-50.	0.4	0