Mads Sylvest Bergholt

List of Publications by Year
in descending order

53	2,077	236612	276539
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 needle arthroscopy for in vivo molecular assessment of cartilage. Journal of Orthopaedic Research, 2022, 40, 1338-1348.	1.2	8
2	Hybrid confocal Raman endomicroscopy for morpho-chemical tissue characterization. Biomedical Optics Express, 2022, 13, 2278.	1.5	2
3	Integrated photodynamic Raman theranostic system for cancer diagnosis, treatment, and post-treatment molecular monitoring. Theranostics, 2021, 11, 2006-2019.	4.6	13
4	Image-guided Raman spectroscopy probe-tracking for tumor margin delineation. Journal of Biomedical Optics, 2021, 26, .	1.4	13
5	High-Throughput Molecular Imaging via Deep-Learning-Enabled Raman Spectroscopy. Analytical Chemistry, 2021, 93, 15850-15860.	3.2	38
6	Clinician engineers: The future of medical education. Medical Teacher, 2020, 42, 478-478.	1.0	1
7	Surface enhanced Raman scattering artificial nose for high dimensionality fingerprinting. Nature Communications, 2020, 11, 207.	5.8	93
8	Complementary techniques to analyse pericellular matrix formation by human MSC within hyaluronic acid hydrogels. Materials Advances, 2020, 1, 2888-2896.	2.6	4
9	In vivo biomolecular imaging of zebrafish embryos using confocal Raman spectroscopy. Nature Communications, 2020, 11, 6172.	5.8	36
10	Molecular imaging of extracellular vesicles in vitro via Raman metabolic labelling. Journal of Materials Chemistry B, 2020, 8, 4447-4459.	2.9	18
11	Bioenergetic-active materials enhance tissue regeneration by modulating cellular metabolic state. Science Advances, 2020, 6, eaay7608.	4.7	44
12	Multiplexed polarized hypodermic Raman needle probe for biostructural analysis of articular cartilage. Optics Letters, 2020, 45, 2890.	1.7	10
13	Clinician engineers â€“ Re-injecting the thinking into medicine. Asia Pacific Scholar, 2020, 5, 48-50.	0.2	0
14	Raman Spectroscopy: Guiding Light for the Extracellular Matrix. Frontiers in Bioengineering and Biotechnology, 2019, 7, 303.	2.0	72
15	Correlated Heterospectral Lipidomics for Biomolecular Profiling of Remyelination in Multiple Sclerosis. ACS Central Science, 2018, 4, 39-51.	5.3	44
16	Single Particle Automated Raman Trapping Analysis. Nature Communications, 2018, 9, 4256.	5.8	37
17	Raman spectroscopy and regenerative medicine: a review. Npj Regenerative Medicine, 2017, 2, 12.	2.5	147
18	Quantitative volumetric Raman imaging of three dimensional cell cultures. Nature Communications, 2017, 8, 14843.	5.8	109

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19	Raman spectroscopy imaging reveals interplay between atherosclerosis and medial calcification in the human aorta. Science Advances, 2017, 3, e1701156.	4.7	60
20	Online quantitative monitoring of live cell engineered cartilage growth using diffuse fiber-optic Raman spectroscopy. Biomaterials, 2017, 140, 128-137.	5.7	41
21	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.	1.1	79
22	Quantitative multiâ€image analysis for biomedical Raman spectroscopic imaging. Journal of Biophotonics, 2016, 9, 542-550.	1.1	25
23	Raman Spectroscopy Reveals New Insights into the Zonal Organization of Native and Tissue-Engineered Articular Cartilage. ACS Central Science, 2016, 2, 885-895.	5.3	103
24	Simultaneous fingerprint and high-wavenumber Raman endoscopy for in vivo diagnosis of colorectal precancer. , 2015, , .		1
25	A novel broadband Raman endoscopy forin vivodiagnosis of intestinal metaplasia in the stomach. Proceedings of SPIE, 2015, , .	0.8	0
26	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
27	Real-time depth-resolved fiber optic Raman endoscopy forin vivodiagnosis of gastric precancer. , 2014, , .		7
28	Fiberoptic Confocal Raman Spectroscopy for Real-Time In Vivo Diagnosis of Dysplasia in Barrett's Esophagus. Gastroenterology, 2014, 146, 27-32.	0.6	119
29	36 Fiberoptic Confocal Raman Endoscopy for Enhancing Real-Time In Vivo Diagnosis of Gastric Precancer. Gastroenterology, 2014, 146, S-10.	0.6	1
30	Moving Raman spectroscopy into real-time, online diagnosis and detection of precancer and cancerin vivoin the upper GI during clinical endoscopic examination. , 2013, , .		1
31	Fiberâ€optic Raman spectroscopy probes gastric carcinogenesis in vivo at endoscopy. Journal of Biophotonics, 2013, 6, 49-59.	1.1	87
32	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.	0.5	0
33	Multivariate Reference Technique for Quantitative Analysis of Fiber-Optic Tissue Raman Spectroscopy. Analytical Chemistry, 2013, 85, 11297-11303.	3.2	14
34	Real-time depth-resolved Raman endoscopy forin vivodiagnosis of dysplasia in Barrett's esophagus. Proceedings of SPIE, 2013, , .	0.8	3
35	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
36	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.	1.4	24

#	Article	IF	Citations
37	Raman Endoscopy for Objective Diagnosis of Early Cancer in the Gastrointestinal System. , 2013, 01, .		9
38	In vivo, 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
39	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
40	Detection of malignant lesions in vivo in the upper gastrointestinal tract using image-guided Raman endoscopy. , 2012, , .		0
41	Sa1831 Image-Guided Raman Spectroscopy for Real-Time In Vivo Diagnosis of Barrett's Esophagus During Endoscopic Examination. Gastroenterology, 2012, 142, S-336.	0.6	1
42	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.	1.2	56
43	Diagnosis of early stage nasopharyngeal carcinoma using ultraviolet autofluorescence excitationâ€“emission matrix spectroscopy and parallel factor analysis. Analyst, The, 2011, 136, 3896.	1.7	11
44	In vivo diagnosis of gastric cancer using Raman endoscopy and ant colony optimization techniques. International Journal of Cancer, 2011, 128, 2673-2680.	2.3	97
45	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
46	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
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	Raman endoscopy for in vivo differentiation between benign and malignant ulcers in the stomach. Analyst, The, 2010, 135, 3162.	1.7	86
50	In vivo Raman spectroscopy integrated with multimodal endoscopic imaging for early diagnosis of gastric dysplasia. , 2010, , .		3
51	In vivo early diagnosis of gastric dysplasia using narrow-band image-guided Raman endoscopy. Journal of Biomedical Optics, 2010, 15, 037017.	1.4	77
52	Multimodal endoscopic imaging and Raman spectroscopy for improving in vivo diagnosis of gastric malignancies during clinical gastroscopy. , 2010, , .		0
53	Quantification of C-Reactive protein in human blood plasma using near-infrared Raman spectroscopy. Analyst, The, 2009, 134, 2123.	1.7	26