

# Mads Sylvest Bergholt

## List of Publications by Year in descending order

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53  
papers

2,077  
citations

236925

25  
h-index

276875

41  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2406  
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman needle arthroscopy for in vivo molecular assessment of cartilage. Journal of Orthopaedic Research, 2022, 40, 1338-1348.	2.3	8
2	Hybrid confocal Raman endomicroscopy for morpho-chemical tissue characterization. Biomedical Optics Express, 2022, 13, 2278.	2.9	2
3	Integrated photodynamic Raman theranostic system for cancer diagnosis, treatment, and post-treatment molecular monitoring. Theranostics, 2021, 11, 2006-2019.	10.0	13
4	Image-guided Raman spectroscopy probe-tracking for tumor margin delineation. Journal of Biomedical Optics, 2021, 26, .	2.6	13
5	High-Throughput Molecular Imaging via Deep-Learning-Enabled Raman Spectroscopy. Analytical Chemistry, 2021, 93, 15850-15860.	6.5	38
6	Clinician engineers: The future of medical education. Medical Teacher, 2020, 42, 478-478.	1.8	1
7	Surface enhanced Raman scattering artificial nose for high dimensionality fingerprinting. Nature Communications, 2020, 11, 207.	12.8	93
8	Complementary techniques to analyse pericellular matrix formation by human MSC within hyaluronic acid hydrogels. Materials Advances, 2020, 1, 2888-2896.	5.4	4
9	In vivo biomolecular imaging of zebrafish embryos using confocal Raman spectroscopy. Nature Communications, 2020, 11, 6172.	12.8	36
10	Molecular imaging of extracellular vesicles <i>in vitro via</i> Raman metabolic labelling. Journal of Materials Chemistry B, 2020, 8, 4447-4459.	5.8	18
11	Bioenergetic-active materials enhance tissue regeneration by modulating cellular metabolic state. Science Advances, 2020, 6, eaay7608.	10.3	44
12	Multiplexed polarized hypodermic Raman needle probe for biostructural analysis of articular cartilage. Optics Letters, 2020, 45, 2890.	3.3	10
13	Clinician engineers “ Re-injecting the thinking into medicine. Asia Pacific Scholar, 2020, 5, 48-50.	0.4	0
14	Raman Spectroscopy: Guiding Light for the Extracellular Matrix. Frontiers in Bioengineering and Biotechnology, 2019, 7, 303.	4.1	72
15	Correlated Heterospectral Lipidomics for Biomolecular Profiling of Remyelination in Multiple Sclerosis. ACS Central Science, 2018, 4, 39-51.	11.3	44
16	Single Particle Automated Raman Trapping Analysis. Nature Communications, 2018, 9, 4256.	12.8	37
17	Raman spectroscopy and regenerative medicine: a review. Npj Regenerative Medicine, 2017, 2, 12.	5.2	147
18	Quantitative volumetric Raman imaging of three dimensional cell cultures. Nature Communications, 2017, 8, 14843.	12.8	109

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19	Raman spectroscopy imaging reveals interplay between atherosclerosis and medial calcification in the human aorta. <i>Science Advances</i> , 2017, 3, e1701156.	10.3	60
20	Online quantitative monitoring of live cell engineered cartilage growth using diffuse fiber-optic Raman spectroscopy. <i>Biomaterials</i> , 2017, 140, 128-137.	11.4	41
21	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.	2.3	79
22	Quantitative multi-image analysis for biomedical Raman spectroscopic imaging. <i>Journal of Biophotonics</i> , 2016, 9, 542-550.	2.3	25
23	Raman Spectroscopy Reveals New Insights into the Zonal Organization of Native and Tissue-Engineered Articular Cartilage. <i>ACS Central Science</i> , 2016, 2, 885-895.	11.3	103
24	Simultaneous fingerprint and high-wavenumber Raman endoscopy for <i>in vivo</i> diagnosis of colorectal precancer. , 2015, , .		1
25	A novel broadband Raman endoscopy for <i>in vivo</i> diagnosis of intestinal metaplasia in the stomach. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
26	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.	6.5	62
27	Real-time depth-resolved fiber optic Raman endoscopy for <i>in vivo</i> diagnosis of gastric precancer. , 2014, , .		7
28	Fiberoptic Confocal Raman Spectroscopy for Real-Time <i>In Vivo</i> Diagnosis of Dysplasia in Barrett's Esophagus. <i>Gastroenterology</i> , 2014, 146, 27-32.	1.3	119
29	36 Fiberoptic Confocal Raman Endoscopy for Enhancing Real-Time <i>In Vivo</i> Diagnosis of Gastric Precancer. <i>Gastroenterology</i> , 2014, 146, S-10.	1.3	1
30	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
31	Fiber-optic Raman spectroscopy probes gastric carcinogenesis <i>in vivo</i> at endoscopy. <i>Journal of Biophotonics</i> , 2013, 6, 49-59.	2.3	87
32	Mo1647 Confocal Raman Spectroscopy for Real-Time <i>In Vivo</i> Detection of High-grade Dysplasia in Barrett's Esophagus During Endoscopic Examination. <i>Gastrointestinal Endoscopy</i> , 2013, 77, AB457.	1.0	0
33	Multivariate Reference Technique for Quantitative Analysis of Fiber-Optic Tissue Raman Spectroscopy. <i>Analytical Chemistry</i> , 2013, 85, 11297-11303.	6.5	14
34	Real-time depth-resolved Raman endoscopy for <i>in vivo</i> diagnosis of dysplasia in Barrett's esophagus. <i>Proceedings of SPIE</i> , 2013, , .	0.8	3
35	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.	3.3	65
36	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.	2.6	24

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37	Raman Endoscopy for Objective Diagnosis of Early Cancer in the Gastrointestinal System. , 2013, 01, .		9
38	<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.	2.6	32
39	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
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.	1.3	1
42	Characterizing variability in <i>in vivo</i> 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
43	Diagnosis of early stage nasopharyngeal carcinoma using ultraviolet autofluorescence excitation-emission matrix spectroscopy and parallel factor analysis. Analyst, The, 2011, 136, 3896.	3.5	11
44	<i>In vivo</i> diagnosis of gastric cancer using Raman endoscopy and ant colony optimization techniques. International Journal of Cancer, 2011, 128, 2673-2680.	5.1	97
45	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
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.	2.6	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.	3.5	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.	2.6	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.	3.5	26