Beata BroÅ¼ek-PÅ‚uska

List of Publications by Year
in descending order

43 papers	1,427 citations	394421 19 h-index	345221 36 g-index
53 all docs	53 docs citations	53 times ranked	1494 citing authors

#	Article	IF	Citations
1	Mevastatin in colon cancer by spectroscopic and microscopic methods â€“ Raman imaging and AFM studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 270, 120726.	3.9	12
2	Double face of cytochrome c in cancers by Raman imaging. Scientific Reports, 2022, 12, 2120.	3.3	26
3	Redox Imbalance and Biochemical Changes in Cancer by Probing Redox-Sensitive Mitochondrial Cytochromes in Label-Free Visible Resonance Raman Imaging. Cancers, 2021, 13, 960.	3.7	25
4	Revision of Commonly Accepted Warburg Mechanism of Cancer Development: Redox-Sensitive Mitochondrial Cytochromes in Breast and Brain Cancers by Raman Imaging. Cancers, 2021, 13, 2599.	3.7	17
5	Vitamin Câ€”Protective Role in Oxidative Stress Conditions Induced in Human Normal Colon Cells by Label-Free Raman Spectroscopy and Imaging. International Journal of Molecular Sciences, 2021, 22, 6928.	4.1	6
6	Oxidative stress induced by tBHP in human normal colon cells by label free Raman spectroscopy and imaging. The protective role of natural antioxidants in the form of Î²-carotene. RSC Advances, 2021, 11, 16419-16434.	3.6	4
7	Zinc Phthalocyanine Photochemistry by Raman Imaging, Fluorescence Spectroscopy and Femtosecond Spectroscopy in Normal and Cancerous Human Colon Tissues and Single Cells. Molecules, 2020, 25, 2688.	3.8	12
8	Statistics assisted analysis of Raman spectra and imaging of human colon cell lines â€“ Label free, spectroscopic diagnostics of colorectal cancer. Journal of Molecular Structure, 2020, 1218, 128524.	3.6	24
9	A look into the use of Raman spectroscopy for brain and breast cancer diagnostics: linear and non-linear optics in cancer research as a gateway to tumor cell identity. Expert Review of Molecular Diagnostics, 2020, 20, 99-115.	3.1	30
10	Virtual spectral histopathology of colon cancer - biomedical applications of Raman spectroscopy and imaging. Journal of Molecular Liquids, 2020, 303, 112676.	4.9	17
11	Hyperglycemia Changes Expression of Key Adipogenesis Markers (C/EBPÎ± and PPARáµž)and Morphology of Differentiating Human Visceral Adipocytes. Nutrients, 2019, 11, 1835.	4.1	10
12	Advances in Raman imaging combined with AFM and fluorescence microscopy are beneficial for oncology and cancer research. Nanomedicine, 2019, 14, 1873-1888.	3.3	23
13	Analysis of Human Colon by Raman Spectroscopy and Imaging-Elucidation of Biochemical Changes in Carcinogenesis. International Journal of Molecular Sciences, 2019, 20, 3398.	4.1	36
14	Effect of PHRs and PCPs on Microalgal Growth, Metabolism and Microalgae-Based Bioremediation Processes: A Review. International Journal of Molecular Sciences, 2019, 20, 2492.	4.1	52
15	Aberrant Protein Phosphorylation in Cancer by Using Raman Biomarkers. Cancers, 2019, 11, 2017.	3.7	36
16	Label-free diagnostics and cancer surgery Raman spectra guidance for the human colon at different excitation wavelengths. RSC Advances, 2019, 9, 40445-40454.	3.6	22
17	Polarized Raman microscopy imaging: Capabilities and challenges for cancer research. Journal of Molecular Liquids, 2018, 259, 102-111.	4.9	15
18	Surface-Enhanced Raman Spectroscopy Analysis of Human Breast Cancer via Silver Nanoparticles: An Examination of Fabrication Methods. Journal of Spectroscopy, 2018, 2018, 1-8.	1.3	8

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19	Histochemical analysis of human breast tissue samples by IR and Raman spectroscopies. Protocols discussion. Infrared Physics and Technology, 2018, 93, 247-254.	2.9	20
20	Apical-basal polarity of epithelial cells imaged by Raman microscopy and Raman imaging: Capabilities and challenges for cancer research. Journal of Molecular Liquids, 2017, 245, 52-61.	4.9	14
21	Photostability of biological systemsâ€"Femtosecond dynamics of zinc tetrasulfonated phthalocyanine at cancerous and noncancerous human Breast tissues. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 332, 10-24.	3.9	12
22	Raman microspectroscopy of Hematoporphyrins. Imaging of the noncancerous and the cancerous human breast tissues with photosensitizers. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 169, 182-191.	3.9	12
23	Phthalocyanines: From Dyes to Photosensitizers in Diagnostics and Treatment of Cancer. Spectroscopy and Raman Imaging Studies of Phthalocyanines in Human Breast Tissues. , 2016, , 1-49.		6
24	Development of a new diagnostic Raman method for monitoring epigenetic modifications in the cancer cells of human breast tissue. Analytical Methods, 2016, 8, 8542-8553.	2.7	39
25	New look inside human breast ducts with Raman imaging. Raman candidates as diagnostic markers for breast cancer prognosis: Mammaglobin, palmitic acid and sphingomyelin. Analytica Chimica Acta, 2016, 909, 91-100.	5.4	60
26	The lipid-reactive oxygen species phenotype of breast cancer. Raman spectroscopy and mapping, PCA and PLSDA for invasive ductal carcinoma and invasive lobular carcinoma. Molecular tumorigenic mechanisms beyond Warburg effect. Analyst, The, 2015, 140, 2121-2133.	3.5	101
27	Raman microspectroscopy of noncancerous and cancerous human breast tissues. Identification and phase transitions of linoleic and oleic acids by Raman low-temperature studies. Analyst, The, 2015, 140, 2134-2143.	3.5	27
28	Label-free determination of lipid composition and secondary protein structure of human salivary noncancerous and cancerous tissues by Raman microspectroscopy. Analyst, The, 2015, 140, 2107-2113.	3.5	30
29	Oncologic photodynamic diagnosis and therapy: confocal Raman/fluorescence imaging of metal phthalocyanines in human breast cancer tissue in vitro. Analyst, The, 2014, 139, 5547-5559.	3.5	34
30	The cellular environment of cancerous human tissue. Interfacial and dangling water as a â€œhydration fingerprintâ€• Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 129, 609-623.	3.9	32
31	Ultrafast Dynamics of Metal Complexes of Tetrasulfonated Phthalocyanines at Biological Interfaces: Comparison between Photochemistry in Solutions, Films, and Noncancerous and Cancerous Human Breast Tissues. Journal of Physical Chemistry C, 2013, 117, 4999-5013.	3.1	25
32	Raman Imaging in Biochemical and Biomedical Applications. Diagnosis and Treatment of Breast Cancer. Chemical Reviews, 2013, 113, 5766-5781.	47.7	204
33	Ultrafast dynamics and Raman imaging of metal complexes of tetrasulphonated phthalocyanines in human cancerous and noncancerous breast tissues. EPJ Web of Conferences, 2013, 41, 07006.	0.3	0
34	Distribution of Phthalocyanines and Raman Reporters in Human Cancerous and Noncancerous Breast Tissue as Studied by Raman Imaging. Technology in Cancer Research and Treatment, 2012, 11, 317-331.	1.9	18
35	Raman spectroscopy and imaging: applications in human breast cancer diagnosis. Analyst, The, 2012, 137, 3773.	3.5	102
36	Raman â€˜optical biopsyâ€™ of human breast cancer. Progress in Biophysics and Molecular Biology, 2012, 108, 74-81.	2.9	130

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37	Water Confined in Films of Sulphonated Phthalocyanines. Journal of Physical Chemistry C, 2011, 115, 24920-24930.	3.1	5
38	Phase Transitions in Oleic Acid and in Human Breast Tissue As Studied by Raman Spectroscopy and Raman Imaging. Journal of Medicinal Chemistry, 2011, 54, 3386-3392.	6.4	37
39	Hydrogen bonds of interfacial water in human breast cancer tissue compared to lipid and DNA interfaces. Journal of Biophysical Chemistry, 2011, 02, 159-170.	0.5	16
40	The label-free Raman imaging of human breast cancer. Journal of Molecular Liquids, 2011, 164, 123-131.	4.9	65
41	From breast tissue diagnosis by Raman spectroscopy to femtosecond dynamics at the phospholipid membrane-water interface. , 2009, , .		0
42	Direct observation of elementary radical events: low- and high-energy radiation femtochemistry in solutions. Radiation Physics and Chemistry, 2005, 72, 149-157.	2.8	51
43	Short-time water caging and transient electron-OH couplings in liquid phase. , 2004, , 233-236.		0