Jakub Maciej Surmacki

List of Publications by Year
in descending order

30 papers	1,099 citations	516710 16 h-index	501196 28 g-index
34 all docs	34 docs citations	34 times ranked	1562 citing authors

#	Article	IF	Citations
1	The role of lipid droplets and adipocytes in cancer. Raman imaging of cell cultures: MCF10A, MCF7, and MDA-MB-231 compared to adipocytes in cancerous human breast tissue. Analyst, The, 2015, 140, 2224-2235.	3.5	168
2	Raman â€˜optical biopsyâ€™ of human breast cancer. Progress in Biophysics and Molecular Biology, 2012, 108, 74-81.	2.9	130
3	Raman imaging at biological interfaces: applications in breast cancer diagnosis. Molecular Cancer, 2013, 12, 48.	19.2	109
4	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
5	The label-free Raman imaging of human breast cancer. Journal of Molecular Liquids, 2011, 164, 123-131.	4.9	65
6	Raman micro-spectroscopy for accurate identification of primary human bronchial epithelial cells. Scientific Reports, 2018, 8, 12604.	3.3	51
7	The hallmarks of breast cancer by Raman spectroscopy. Journal of Molecular Structure, 2009, 924-926, 175-182.	3.6	48
8	Raman spectroscopy of visible-light photocatalyst â€“ Nitrogen-doped titanium dioxide generated by irradiation with electron beam. Chemical Physics Letters, 2013, 566, 54-59.	2.6	41
9	Epigenetic changes in cancer by Raman imaging, fluorescence imaging, AFM and scanning near-field optical microscopy (SNOM). Acetylation in normal and human cancer breast cells MCF10A, MCF7 and MDA-MB-231. Analyst, The, 2016, 141, 5646-5658.	3.5	38
10	Aberrant Protein Phosphorylation in Cancer by Using Raman Biomarkers. Cancers, 2019, 11, 2017.	3.7	36
11	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
12	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
13	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
14	Label-free monitoring of tissue biochemistry following traumatic brain injury using Raman spectroscopy. Analyst, The, 2017, 142, 132-139.	3.5	26
15	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
16	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
17	Current and Emerging Technologies for Probing Molecular Signatures of Traumatic Brain Injury. Frontiers in Neurology, 2017, 8, 450.	2.4	18
18	Graphitic and oxidised high pressure high temperature (HPHT) nanodiamonds induce differential biological responses in breast cancer cell lines. Nanoscale, 2018, 10, 12169-12179.	5.6	17

#	Article	IF	Citations
19	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
20	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
21	Redox state changes of mitochondrial cytochromes in brain and breast cancers by Raman spectroscopy and imaging. Journal of Molecular Structure, 2022, 1252, 132134.	3.6	13
22	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
23	Novel strategies of Raman imaging for monitoring intracellular retinoid metabolism in cancer cells. Journal of Molecular Liquids, 2021, 334, 116033.	4.9	11
24	Surface, optical and photocatalytic properties of silica-supported TiO 2 treated with electron beam. Radiation Physics and Chemistry, 2015, 109, 40-47.	2.8	9
25	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
26	Monitoring the effect of therapeutic doses of gamma irradiation on medulloblastoma by Raman spectroscopy. Analytical Methods, 2020, 12, 383-391.	2.7	7
27	Evaluation of Label-Free Confocal Raman Microspectroscopy for Monitoring Oxidative Stress In Vitro in Live Human Cancer Cells. Antioxidants, 2022, 11, 573.	5.1	5
28	Nitrogen-Doped Titanium Dioxide Nanoparticles Modified by an Electron Beam for Improving Human Breast Cancer Detection by Raman Spectroscopy: A Preliminary Study. Diagnostics, 2020, 10, 757.	2.6	2
29	Application of confocal Raman micro-spectroscopy for label-free monitoring of oxidative stress in living bronchial cells. , 2018, , .		1
30	From breast tissue diagnosis by Raman spectroscopy to femtosecond dynamics at the phospholipid membrane-water interface. , 2009, , .		0