Elizabeth A Vargis

List of Publications by Year
in descending order

38 papers	994 citations	516710 16 h-index	434195 31 g-index
40 all docs	40 docs citations	40 times ranked	1699 citing authors

#	Article	IF	Citations
1	Development of a spatially offset Raman spectroscopy probe for breast tumor surgical margin evaluation. Journal of Biomedical Optics, 2011, 16, 077006.	2.6	162
2	Nanoparticle Properties and Synthesis Effects on Surface-Enhanced Raman Scattering Enhancement Factor: An Introduction. Scientific World Journal, The, 2015, 2015, 1-12.	2.1	126
3	Near-infrared Raman Microspectroscopy Detects High-risk Human Papillomaviruses. Translational Oncology, 2012, 5, 172-179.	3.7	98
4	Application of Raman spectroscopy for cervical dysplasia diagnosis. Journal of Biophotonics, 2009, 2, 81-90.	2.3	79
5	Methods for culturing retinal pigment epithelial cells: a review of current protocols and future recommendations. Journal of Tissue Engineering, 2016, 7, 204173141665083.	5.5	68
6	Detection of respiratory syncytial virus using nanoparticle amplified immuno-polymerase chain reaction. Analytical Biochemistry, 2011, 410, 141-148.	2.4	58
7	Multiclass discrimination of cervical precancers using Raman spectroscopy. Journal of Raman Spectroscopy, 2009, 40, 205-211.	2.5	51
8	Effect of normal variations on disease classification of Raman spectra from cervical tissue. Analyst, The, 2011, 136, 2981.	3.5	41
9	InÂvivo Raman spectroscopy for biochemical monitoring ofÂthe human cervix throughout pregnancy. American Journal of Obstetrics and Gynecology, 2018, 218, 528.e1-528.e18.	1.3	29
10	Sensitivity of Raman spectroscopy to normal patient variability. Journal of Biomedical Optics, 2011, 16, 117004.	2.6	27
11	Detecting Biochemical Changes in the Rodent Cervix During Pregnancy Using Raman Spectroscopy. Annals of Biomedical Engineering, 2012, 40, 1814-1824.	2.5	25
12	Effect of c-neu/ ErbB2 Expression Levels on Estrogen Receptor Î±â€“Dependent Proliferation in Mammary Epithelial Cells: Implications for Breast Cancer Biology. Cancer Research, 2006, 66, 10391-10398.	0.9	19
13	Simultaneous isolation and labelâ€free identification of bacteria using contactless dielectrophoresis and Raman spectroscopy. Electrophoresis, 2019, 40, 1446-1456.	2.4	19
14	Physical disruption of cell-cell contact induces VEGF expression in RPE cells. Molecular Vision, 2017, 23, 431-446.	1.1	19
15	Assessing Variability of in Vivo Tissue Raman Spectra. Applied Spectroscopy, 2013, 67, 789-800.	2.2	17
16	Raman spectroscopy provides a noninvasive approach for determining biochemical composition of the pregnant cervix in vivo. Acta Paediatrica, International Journal of Paediatrics, 2014, 103, 715-721.	1.5	17
17	Rational design of Raman-labeled nanoparticles for a dual-modality, light scattering immunoassay on a polystyrene substrate. Journal of Biological Engineering, 2016, 10, 2.	4.7	15
18	Novel devices for studying acute and chronic mechanical stress in retinal pigment epithelial cells. Lab on A Chip, 2018, 18, 3413-3424.	6.0	15

#	Article	IF	Citations
19	The effect of retinal pigment epithelial cell patch size on growth factor expression. Biomaterials, 2014, 35, 3999-4004.	11.4	13
20	Effect of Principal Component Analysis Centering and Scaling on Classification of Mycobacteria from Raman Spectra. Applied Spectroscopy, 2017, 71, 1249-1255.	2.2	13
21	Effect of growth media and phase on Raman spectra and discrimination of mycobacteria. Journal of Biophotonics, 2019, 12, e201900150.	2.3	13
22	Abiotic stressors impact outer membrane vesicle composition in a beneficial rhizobacterium: Raman spectroscopy characterization. Scientific Reports, 2020, 10, 21289.	3.3	11
23	Muscle Atrophy Marker Expression Differs between Rotary Cell Culture System and Animal Studies. BioMed Research International, 2019, 2019, 1-12.	1.9	10
24	Alternative cDEP Design to Facilitate Cell Isolation for Identification by Raman Spectroscopy. Sensors, 2017, 17, 327.	3.8	9
25	Utilizing Recombinant Spider Silk Proteins To Develop a Synthetic Bruchâ€™s Membrane for Modeling the Retinal Pigment Epithelium. ACS Biomaterials Science and Engineering, 2019, 5, 4023-4036.	5.2	8
26	Acute mechanical stress in primary porcine RPE cells induces angiogenic factor expression and in vitro angiogenesis. Journal of Biological Engineering, 2020, 14, 13.	4.7	8
27	In vitro biophysical, microspectroscopic and cytotoxic evaluation of metastatic and non-metastatic cancer cells in responses to anti-cancer drug. Analytical Methods, 2015, 7, 10162-10169.	2.7	7
28	Detecting changes during pregnancy with Raman spectroscopy. , 2011, , .		3
29	Characterization of human cervical remodeling throughout pregnancy using in vivo Raman spectroscopy. , 2015, , .		3
30	Bridging the multiscale gap: Identifying cellular parameters from multicellular data. , 2015, , .		2
31	Fabricating a UV-Vis and Raman Spectroscopy Immunoassay Platform. Journal of Visualized Experiments, 2016, , .	0.3	2
32	Exploiting Self-organization in Bioengineered Systems: A Computational Approach. Frontiers in Bioengineering and Biotechnology, 2017, 5, 27.	4.1	2
33	A computational study of VEGF production by patterned retinal epithelial cell colonies as a model for neovascular macular degeneration. Journal of Biological Engineering, 2017, 11, 26.	4.7	2
34	Detecting changes during pregnancy with Raman spectroscopy. , 2010, , .		1
35	Detecting Changes in the Cervix with Raman Spectroscopy. , 2010, , .		1
36	Silkworm Silk Fiber Bundles as Improved In Vitro Scaffolds for Skeletal Muscle. ACS Biomaterials Science and Engineering, 2020, 6, 6853-6863.	5.2	1

#	Article	IF	Citations
37	Using Raman spectroscopy to study the onset of labor: a pilot study. , 2011, , .		0
38	Developing in vitro models of the sub-retinal microenvironment. , 2013, , .		0