

# Elizabeth A Vargis

## List of Publications by Year in descending order

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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	Silkworm Silk Fiber Bundles as Improved <i>In Vitro</i> Scaffolds for Skeletal Muscle. ACS Biomaterials Science and Engineering, 2020, 6, 6853-6863.	5.2	1
2	Abiotic stressors impact outer membrane vesicle composition in a beneficial rhizobacterium: Raman spectroscopy characterization. Scientific Reports, 2020, 10, 21289.	3.3	11
3	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
4	Effect of growth media and phase on Raman spectra and discrimination of mycobacteria. Journal of Biophotonics, 2019, 12, e201900150.	2.3	13
5	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
6	Simultaneous isolation and label-free identification of bacteria using contactless dielectrophoresis and Raman spectroscopy. Electrophoresis, 2019, 40, 1446-1456.	2.4	19
7	Muscle Atrophy Marker Expression Differs between Rotary Cell Culture System and Animal Studies. BioMed Research International, 2019, 2019, 1-12.	1.9	10
8	In-vivo Raman spectroscopy for biochemical monitoring of the human cervix throughout pregnancy. American Journal of Obstetrics and Gynecology, 2018, 218, 528.e1-528.e18.	1.3	29
9	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
10	Effect of Principal Component Analysis Centering and Scaling on Classification of Mycobacteria from Raman Spectra. Applied Spectroscopy, 2017, 71, 1249-1255.	2.2	13
11	Alternative cDEP Design to Facilitate Cell Isolation for Identification by Raman Spectroscopy. Sensors, 2017, 17, 327.	3.8	9
12	Exploiting Self-organization in Bioengineered Systems: A Computational Approach. Frontiers in Bioengineering and Biotechnology, 2017, 5, 27.	4.1	2
13	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
14	Physical disruption of cell-cell contact induces VEGF expression in RPE cells. Molecular Vision, 2017, 23, 431-446.	1.1	19
15	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
16	Fabricating a UV-Vis and Raman Spectroscopy Immunoassay Platform. Journal of Visualized Experiments, 2016, , .	0.3	2
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	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

#	ARTICLE	IF	CITATIONS
19	Bridging the multiscale gap: Identifying cellular parameters from multicellular data. , 2015, , .		2
20	Characterization of human cervical remodeling throughout pregnancy using in vivo Raman spectroscopy. , 2015, , .		3
21	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
22	The effect of retinal pigment epithelial cell patch size on growth factor expression. Biomaterials, 2014, 35, 3999-4004.	11.4	13
23	Raman spectroscopy provides a noninvasive approach for determining biochemical composition of the pregnant cervix <i>in vivo</i> . Acta Paediatrica, International Journal of Paediatrics, 2014, 103, 715-721.	1.5	17
24	Developing in vitro models of the sub-retinal microenvironment. , 2013, , .		0
25	Assessing Variability of in Vivo Tissue Raman Spectra. Applied Spectroscopy, 2013, 67, 789-800.	2.2	17
26	Near-infrared Raman Microspectroscopy Detects High-risk Human Papillomaviruses. Translational Oncology, 2012, 5, 172-179.	3.7	98
27	Detecting Biochemical Changes in the Rodent Cervix During Pregnancy Using Raman Spectroscopy. Annals of Biomedical Engineering, 2012, 40, 1814-1824.	2.5	25
28	Effect of normal variations on disease classification of Raman spectra from cervical tissue. Analyst, The, 2011, 136, 2981.	3.5	41
29	Detecting changes during pregnancy with Raman spectroscopy. , 2011, , .		3
30	Using Raman spectroscopy to study the onset of labor: a pilot study. , 2011, , .		0
31	Detection of respiratory syncytial virus using nanoparticle amplified immuno-polymerase chain reaction. Analytical Biochemistry, 2011, 410, 141-148.	2.4	58
32	Sensitivity of Raman spectroscopy to normal patient variability. Journal of Biomedical Optics, 2011, 16, 117004.	2.6	27
33	Development of a spatially offset Raman spectroscopy probe for breast tumor surgical margin evaluation. Journal of Biomedical Optics, 2011, 16, 077006.	2.6	162
34	Detecting changes during pregnancy with Raman spectroscopy. , 2010, , .		1
35	Detecting Changes in the Cervix with Raman Spectroscopy. , 2010, , .		1
36	Application of Raman spectroscopy for cervical dysplasia diagnosis. Journal of Biophotonics, 2009, 2, 81-90.	2.3	79

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37	Multiclass discrimination of cervical precancers using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 205-211.	2.5	51
38	Effect of c-neu/ ErbB2 Expression Levels on Estrogen Receptor $\alpha$ -Dependent Proliferation in Mammary Epithelial Cells: Implications for Breast Cancer Biology. <i>Cancer Research</i> , 2006, 66, 10391-10398.	0.9	19