

Carolyn L Bayer

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

558
citations

840776
11
h-index

713466
21
g-index

26
all docs

26
docs citations

26
times ranked

1101
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoacoustic tomography to assess acute vasoactivity of systemic vasculature. , 2022, , .		0
2	Photoacoustic imaging provides an in vivo assessment of the preeclamptic placenta remodeling and function in response to therapy. Placenta, 2022, , .	1.5	4
3	Towards Transabdominal Functional Photoacoustic Imaging of the Placenta: Improvement in Imaging Depth Through Optimization of Light Delivery. Annals of Biomedical Engineering, 2021, 49, 1861-1873.	2.5	4
4	Sex and the G Protein-coupled Estrogen Receptor Impact Vascular Stiffness. Hypertension, 2021, 78, e1-e14.	2.7	9
5	Spherical-view photoacoustic tomography for monitoring in vivo placental function. Photoacoustics, 2020, 20, 100209.	7.8	13
6	Monte Carlo simulation for improving spectral photoacoustic imaging-based oxygen saturation estimation of human placental tissue. , 2020, , .		2
7	Abstract P208: Imaging The Longitudinal Reduction In Placental Ischemia In Response To Therapeutic Intervention For Preeclampsia. Hypertension, 2020, 76, .	2.7	0
8	Imágenes fotoacústicas para diagnósticos médicos. Ingenierías, 2020, 23, 28-41.	0.2	0
9	Smooth muscle regional contribution to vaginal wall function. Interface Focus, 2019, 9, 20190025.	3.0	32
10	Longitudinal characterization of local perfusion of the rat placenta using contrast-enhanced ultrasound imaging. Interface Focus, 2019, 9, 20190024.	3.0	4
11	Spectral photoacoustic imaging to estimate in vivo placental oxygenation during preeclampsia. Scientific Reports, 2019, 9, 558.	3.3	42
12	Biaxial Basal Tone and Passive Testing of the Murine Reproductive System Using a Pressure Myograph. Journal of Visualized Experiments, 2019, , .	0.3	3
13	A Novel ex vivo Mouse Mesometrium Culture Model for Investigating Angiogenesis in Microvascular Networks. Journal of Vascular Research, 2018, 55, 125-135.	1.4	8
14	Imaging placental function: current technology, clinical needs, and emerging modalities. Physics in Medicine and Biology, 2018, 63, 14TR01.	3.0	7
15	Ultrasound-guided spectral photoacoustic imaging of hemoglobin oxygenation during development. Biomedical Optics Express, 2017, 8, 757.	2.9	38
16	Photoacoustic signal amplification through plasmonic nanoparticle aggregation. Journal of Biomedical Optics, 2013, 18, 016001.	2.6	65
17	Photoacoustic imaging: a potential tool to detect early indicators of metastasis. Expert Review of Medical Devices, 2013, 10, 125-134.	2.8	20
18	Influence of nanosecond pulsed laser irradiance on the viability of nanoparticle-loaded cells: implications for safety of contrast-enhanced photoacoustic imaging. Nanotechnology, 2013, 24, 465101.	2.6	9

#	ARTICLE	IF	CITATIONS
19	Photoacoustic Imaging for Medical Diagnostics. <i>Acoustics Today</i> , 2012, 8, 15.	1.0	30
20	Multiplex photoacoustic molecular imaging using targeted silica-coated gold nanorods. <i>Biomedical Optics Express</i> , 2011, 2, 1828.	2.9	67
21	Alginate Films as Macromolecular Imprinted Matrices. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 1523-1534.	3.5	24
22	Development of a protein sensing device utilizing interactions between polyaniline and a polymer acid dopant. <i>Biomedical Microdevices</i> , 2010, 12, 435-442.	2.8	10
23	Molecular diagnosis of cancer using multiplex photoacoustic imaging with targeted nanorods. , 2010, , .		2
24	Advances in clinical and biomedical applications of photoacoustic imaging. <i>Expert Opinion on Medical Diagnostics</i> , 2010, 4, 497-510.	1.6	75
25	Analyzing Polyaniline-poly(2-acrylamido-2-methylpropane sulfonic acid) Biocompatibility with 3T3 Fibroblasts. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 623-634.	3.5	19
26	Advances in cognitive, conductive and responsive delivery systems. <i>Journal of Controlled Release</i> , 2008, 132, 216-221.	9.9	71