

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	Advances in clinical and biomedical applications of photoacoustic imaging. <i>Expert Opinion on Medical Diagnostics</i> , 2010, 4, 497-510.	1.6	75
2	Advances in recognitive, conductive and responsive delivery systems. <i>Journal of Controlled Release</i> , 2008, 132, 216-221.	9.9	71
3	Multiplex photoacoustic molecular imaging using targeted silica-coated gold nanorods. <i>Biomedical Optics Express</i> , 2011, 2, 1828.	2.9	67
4	Photoacoustic signal amplification through plasmonic nanoparticle aggregation. <i>Journal of Biomedical Optics</i> , 2013, 18, 016001.	2.6	65
5	Spectral photoacoustic imaging to estimate in vivo placental oxygenation during preeclampsia. <i>Scientific Reports</i> , 2019, 9, 558.	3.3	42
6	Ultrasound-guided spectral photoacoustic imaging of hemoglobin oxygenation during development. <i>Biomedical Optics Express</i> , 2017, 8, 757.	2.9	38
7	Smooth muscle regional contribution to vaginal wall function. <i>Interface Focus</i> , 2019, 9, 20190025.	3.0	32
8	Photoacoustic Imaging for Medical Diagnostics. <i>Acoustics Today</i> , 2012, 8, 15.	1.0	30
9	Alginate Films as Macromolecular Imprinted Matrices. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 1523-1534.	3.5	24
10	Photoacoustic imaging: a potential tool to detect early indicators of metastasis. <i>Expert Review of Medical Devices</i> , 2013, 10, 125-134.	2.8	20
11	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
12	Spherical-view photoacoustic tomography for monitoring in vivo placental function. <i>Photoacoustics</i> , 2020, 20, 100209.	7.8	13
13	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
14	Influence of nanosecond pulsed laser irradiance on the viability of nanoparticle-loaded cells: implications for safety of contrast-enhanced photoacoustic imaging. <i>Nanotechnology</i> , 2013, 24, 465101.	2.6	9
15	Sex and the G Protein-Coupled Estrogen Receptor Impact Vascular Stiffness. <i>Hypertension</i> , 2021, 78, e1-e14.	2.7	9
16	A Novel ex vivo Mouse Mesometrium Culture Model for Investigating Angiogenesis in Microvascular Networks. <i>Journal of Vascular Research</i> , 2018, 55, 125-135.	1.4	8
17	Imaging placental function: current technology, clinical needs, and emerging modalities. <i>Physics in Medicine and Biology</i> , 2018, 63, 14TR01.	3.0	7
18	Longitudinal characterization of local perfusion of the rat placenta using contrast-enhanced ultrasound imaging. <i>Interface Focus</i> , 2019, 9, 20190024.	3.0	4

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19	Towards Transabdominal Functional Photoacoustic Imaging of the Placenta: Improvement in Imaging Depth Through Optimization of Light Delivery. <i>Annals of Biomedical Engineering</i> , 2021, 49, 1861-1873.	2.5	4
20	Photoacoustic imaging provides an in vivo assessment of the preeclamptic placenta remodeling and function in response to therapy. <i>Placenta</i> , 2022, , .	1.5	4
21	Biaxial Basal Tone and Passive Testing of the Murine Reproductive System Using a Pressure Myograph. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	3
22	Molecular diagnosis of cancer using multiplex photoacoustic imaging with targeted nanorods. , 2010, , .		2
23	Monte Carlo simulation for improving spectral photoacoustic imaging-based oxygen saturation estimation of human placental tissue. , 2020, , .		2
24	Abstract P208: Imaging The Longitudinal Reduction In Placental Ischemia In Response To Therapeutic Intervention For Preeclampsia. <i>Hypertension</i> , 2020, 76, .	2.7	0
25	Imágenes fotoacústicas para diagnósticos médicos. <i>Ingenierías</i> , 2020, 23, 28-41.	0.2	0
26	Photoacoustic tomography to assess acute vasoactivity of systemic vasculature. , 2022, , .		0