

Agata A Exner

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111
papers

2,413
citations

26
h-index

45
g-index

139
ext. papers

2,944
ext. citations

6.8
avg, IF

5.1
L-index

#	Paper	IF	Citations
111	Agarose gel stiffness determines rate of DRG neurite extension in 3D cultures. <i>Biomaterials</i> , 2001 , 22, 1077-84	15.6	423
110	Formulation and characterization of echogenic lipid-Pluronic nanobubbles. <i>Molecular Pharmaceutics</i> , 2010 , 7, 49-59	5.6	108
109	Acoustic characterization and pharmacokinetic analyses of new nanobubble ultrasound contrast agents. <i>Ultrasound in Medicine and Biology</i> , 2013 , 39, 2137-46	3.5	88
108	Ultrasound molecular imaging of ovarian cancer with CA-125 targeted nanobubble contrast agents. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 2159-2168	6	74
107	Enhancement of carboplatin toxicity by Pluronic block copolymers. <i>Journal of Controlled Release</i> , 2005 , 106, 188-97	11.7	72
106	Effect of injection site on in situ implant formation and drug release in vivo. <i>Journal of Controlled Release</i> , 2010 , 147, 350-8	11.7	68
105	Improving performance of nanoscale ultrasound contrast agents using N,N-diethylacrylamide stabilization. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 59-67	6	58
104	Ultrasound imaging beyond the vasculature with new generation contrast agents. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015 , 7, 593-608	9.2	58
103	Multimodal in vivo imaging exposes the voyage of nanoparticles in tumor microcirculation. <i>ACS Nano</i> , 2013 , 7, 3118-29	16.7	53
102	Noninvasive characterization of in situ forming implants using diagnostic ultrasound. <i>Journal of Controlled Release</i> , 2010 , 143, 183-90	11.7	47
101	Characterization of different bubble formulations for blood-brain barrier opening using a focused ultrasound system with acoustic feedback control. <i>Scientific Reports</i> , 2018 , 8, 7986	4.9	44
100	Nanobubble ultrasound contrast agents for enhanced delivery of thermal sensitizer to tumors undergoing radiofrequency ablation. <i>Pharmaceutical Research</i> , 2014 , 31, 1407-17	4.5	44
99	Real-time monitoring of radiofrequency ablation and postablation assessment: accuracy of contrast-enhanced US in experimental rat liver model. <i>Radiology</i> , 2014 , 270, 107-16	20.5	44
98	Noninvasive characterization of the effect of varying PLGA molecular weight blends on in situ forming implant behavior using ultrasound imaging. <i>Theranostics</i> , 2012 , 2, 1064-77	12.1	43
97	Drug-eluting polymer implants in cancer therapy. <i>Expert Opinion on Drug Delivery</i> , 2008 , 5, 775-88	8	43
96	Modeling doxorubicin transport to improve intratumoral drug delivery to RF ablated tumors. <i>Journal of Controlled Release</i> , 2007 , 124, 11-9	11.7	43
95	Contrast enhanced ultrasound imaging by nature-inspired ultrastable echogenic nanobubbles. <i>Nanoscale</i> , 2019 , 11, 15647-15658	7.7	38

94	Ultrasound Contrast Agents and Delivery Systems in Cancer Detection and Therapy. <i>Advances in Cancer Research</i> , 2018 , 139, 57-84	5.9	38
93	Sink or float? Characterization of shell-stabilized bulk nanobubbles using a resonant mass measurement technique. <i>Nanoscale</i> , 2019 , 11, 851-855	7.7	36
92	Cryo-EM Visualization of Lipid and Polymer-Stabilized Perfluorocarbon Gas Nanobubbles - A Step Towards Nanobubble Mediated Drug Delivery. <i>Scientific Reports</i> , 2017 , 7, 13517	4.9	35
91	PMMA-FeO for internal mechanical support and magnetic thermal ablation of bone tumors. <i>Theranostics</i> , 2019 , 9, 4192-4207	12.1	31
90	Role of Surface Tension in Gas Nanobubble Stability Under Ultrasound. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9949-9956	9.5	30
89	Biomedical Imaging in Implantable Drug Delivery Systems. <i>Current Drug Targets</i> , 2015 , 16, 672-82	3	30
88	Enhancing Tumor Drug Distribution With Ultrasound-Triggered Nanobubbles. <i>Journal of Pharmaceutical Sciences</i> , 2019 , 108, 3091-3098	3.9	29
87	Combined radiofrequency ablation and doxorubicin-eluting polymer implants for liver cancer treatment. <i>Journal of Biomedical Materials Research - Part A</i> , 2007 , 81, 205-13	5.4	28
86	Porphyrin-Loaded Pluronic Nanobubbles: A New US-Activated Agent for Future Theranostic Applications. <i>Bioconjugate Chemistry</i> , 2018 , 29, 234-240	6.3	27
85	Effect of Bubble Concentration on the in Vitro and in Vivo Performance of Highly Stable Lipid Shell-Stabilized Micro- and Nanoscale Ultrasound Contrast Agents. <i>Langmuir</i> , 2019 , 35, 10192-10202	4	26
84	Combined tumor therapy by using radiofrequency ablation and 5-FU-laden polymer implants: evaluation in rats and rabbits. <i>Radiology</i> , 2005 , 237, 911-8	20.5	26
83	Real time ultrasound molecular imaging of prostate cancer with PSMA-targeted nanobubbles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020 , 28, 102213	6	24
82	Inhibition of metastasis by HEXIM1 through effects on cell invasion and angiogenesis. <i>Oncogene</i> , 2013 , 32, 3829-39	9.2	24
81	Time-intensity-curve Analysis and Tumor Extravasation of Nanobubble Ultrasound Contrast Agents. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 2502-2514	3.5	23
80	Characterization of formulation parameters affecting low molecular weight drug release from in situ forming drug delivery systems. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 476-84	5.4	23
79	Injectable polymer depot combined with radiofrequency ablation for treatment of experimental carcinoma in rat. <i>Investigative Radiology</i> , 2006 , 41, 890-7	10.1	22
78	Combined modeling and experimental approach for the development of dual-release polymer millirods. <i>Journal of Controlled Release</i> , 2002 , 83, 427-35	11.7	22
77	Macroporous acrylamide phantoms improve prediction of in vivo performance of in situ forming implants. <i>Journal of Controlled Release</i> , 2016 , 243, 225-231	11.7	21

76	Effect of cargo properties on in situ forming implant behavior determined by noninvasive ultrasound imaging. <i>Drug Delivery and Translational Research</i> , 2012 , 2, 45-55	6.2	21
75	Effect of the Subcutaneous Environment on Phase-Sensitive In Situ-Forming Implant Drug Release, Degradation, and Microstructure. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 4322-4328	3.9	21
74	Model simulation and experimental validation of intratumoral chemotherapy using multiple polymer implants. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 1039-49	3.1	21
73	Advances in image-guided intratumoral drug delivery techniques. <i>Therapeutic Delivery</i> , 2010 , 1, 307-22	3.8	20
72	Noninvasive monitoring of local drug release using X-ray computed tomography: optimization and in vitro/in vivo validation. <i>Journal of Pharmaceutical Sciences</i> , 2003 , 92, 289-96	3.9	20
71	Structural parameters governing activity of Pluronic triblock copolymers in hyperthermia cancer therapy. <i>International Journal of Hyperthermia</i> , 2011 , 27, 663-71	3.7	19
70	Dynamic evolutionary changes in blood flow measured by MDCT in a hepatic VX2 tumor implant over an extended 28-day growth period: time-density curve analysis. <i>Academic Radiology</i> , 2009 , 16, 1483-92	4.3	18
69	Combination of sensitizing pretreatment and radiofrequency tumor ablation: evaluation in rat model. <i>Radiology</i> , 2008 , 246, 796-803	20.5	17
68	The Effect of Additives on the Behavior of Phase Sensitive In Situ Forming Implants. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 3471-80	3.9	16
67	Time and dose dependence of pluronic bioactivity in hyperthermia-induced tumor cell death. <i>Experimental Biology and Medicine</i> , 2009 , 234, 95-104	3.7	16
66	Influence of Nanobubble Concentration on Blood-Brain Barrier Opening Using Focused Ultrasound Under Real-Time Acoustic Feedback Control. <i>Ultrasound in Medicine and Biology</i> , 2019 , 45, 2174-2187	3.5	15
65	Electrospinning and Imaging. <i>Advanced Engineering Materials</i> , 2012 , 14, B266-B278	3.5	15
64	Dual-Targeted Microbubbles Specific to Integrin $\alpha\text{V}\beta\text{3}$ and Vascular Endothelial Growth Factor Receptor 2 for Ultrasonography Evaluation of Tumor Angiogenesis. <i>Ultrasound in Medicine and Biology</i> , 2018 , 44, 1460-1467	3.5	14
63	Effect of intratumoral injection of carboplatin combined with pluronic P85 or L61 on experimental colorectal carcinoma in rats. <i>Experimental Biology and Medicine</i> , 2007 , 232, 950-7	3.7	14
62	Contrast-enhanced ultrasound with sub-micron sized contrast agents detects insulinitis in mouse models of type1 diabetes. <i>Nature Communications</i> , 2020 , 11, 2238	17.4	13
61	X-ray computed tomography methods for in vivo evaluation of local drug release systems. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 1310-6	11.7	13
60	Noninvasive monitoring of local drug release in a rabbit radiofrequency (RF) ablation model using X-ray computed tomography. <i>Journal of Controlled Release</i> , 2002 , 83, 415-25	11.7	12
59	Inhibition of the histone demethylase, KDM5B, directly induces re-expression of tumor suppressor protein HEXIM1 in cancer cells. <i>Breast Cancer Research</i> , 2019 , 21, 138	8.3	12

58	Increasing Doxorubicin Loading in Lipid-Shelled Perfluoropropane Nanobubbles a Simple Deprotonation Strategy. <i>Frontiers in Pharmacology</i> , 2020 , 11, 644	5.6	11
57	Acoustic Actuation of Integrin-Bound Microbubbles for Mechanical Phenotyping during Differentiation and Morphogenesis of Human Embryonic Stem Cells. <i>Small</i> , 2018 , 14, e1803137	11	11
56	Differentiation of benign periablational enhancement from residual tumor following radio-frequency ablation using contrast-enhanced ultrasonography in a rat subcutaneous colon cancer model. <i>Ultrasound in Medicine and Biology</i> , 2012 , 38, 443-53	3.5	10
55	Vasomodulation of tumor blood flow: effect on perfusion and thermal ablation size. <i>Annals of Biomedical Engineering</i> , 2009 , 37, 552-64	4.7	10
54	Role of Pluronic block copolymers in modulation of heat shock protein 70 expression. <i>International Journal of Hyperthermia</i> , 2011 , 27, 672-81	3.7	10
53	Photoacoustic imaging biomarkers for monitoring biophysical changes during nanobubble-mediated radiation treatment. <i>Photoacoustics</i> , 2020 , 20, 100201	9	10
52	Toward Precisely Controllable Acoustic Response of Shell-Stabilized Nanobubbles: High Yield and Narrow Dispersity. <i>ACS Nano</i> , 2021 , 15, 4901-4915	16.7	10
51	Ultrasound-guided intratumoral delivery of doxorubicin from in situ forming implants in a hepatocellular carcinoma model. <i>Therapeutic Delivery</i> , 2016 , 7, 201-12	3.8	10
50	Theoretical and Experimental Gas Volume Quantification of Micro- and Nanobubble Ultrasound Contrast Agents. <i>Pharmaceutics</i> , 2020 , 12,	6.4	9
49	Increasing Distribution of Drugs Released from In Situ Forming PLGA Implants Using Therapeutic Ultrasound. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 2879-2887	4.7	9
48	Radiofrequency ablation: post-ablation assessment using CT perfusion with pharmacological modulation in a rat subcutaneous tumor model. <i>Academic Radiology</i> , 2009 , 16, 321-31	4.3	9
47	Induction of HEXIM1 activities by HMBA derivative 4a1: Functional consequences and mechanism. <i>Cancer Letters</i> , 2016 , 379, 60-9	9.9	7
46	Concurrent visual and acoustic tracking of passive and active delivery of nanobubbles to tumors. <i>Theranostics</i> , 2020 , 10, 11690-11706	12.1	7
45	Predicting in vivo behavior of injectable, in situ-forming drug-delivery systems. <i>Therapeutic Delivery</i> , 2017 , 8, 479-483	3.8	6
44	Preclinical evaluation of radiosensitizing activity of Pluronic block copolymers. <i>International Journal of Radiation Biology</i> , 2013 , 89, 801-12	2.9	6
43	Semiquantitative imaging measurement of baseline and vasomodulated normal prostatic blood flow using sildenafil. <i>International Journal of Impotence Research</i> , 2007 , 19, 110-3	2.3	6
42	A feasibility study of high intensity focused ultrasound for liver biopsy hemostasis. <i>Ultrasound in Medicine and Biology</i> , 2004 , 30, 1531-7	3.5	6
41	Microfluidic Generation of Monodisperse Nanobubbles by Selective Gas Dissolution. <i>Small</i> , 2021 , 17, e2100345	11	6

40	Nondestructive Characterization of Biodegradable Polymer Erosion in Vivo Using Ultrasound Elastography Imaging. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1005-1012	5.5	6
39	Pickering Bubbles as Dual-Modality Ultrasound and Photoacoustic Contrast Agents. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22308-22317	9.5	6
38	Bursting Microbubbles: How Nanobubble Contrast Agents Can Enable the Future of Medical Ultrasound Molecular Imaging and Image-Guided Therapy. <i>Current Opinion in Colloid and Interface Science</i> , 2021 , 54,	7.6	6
37	An artificially engineered "tumor bio-magnet" for collecting blood-circulating nanoparticles and magnetic hyperthermia. <i>Biomaterials Science</i> , 2019 , 7, 1815-1824	7.4	5
36	Validation of Ultrasound Elastography Imaging for Nondestructive Characterization of Stiffer Biomaterials. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 1515-23	4.7	5
35	Quantitative computed tomography analysis of local chemotherapy in liver tissue after radiofrequency ablation. <i>Academic Radiology</i> , 2004 , 11, 1326-36	4.3	5
34	Biodegradable cascade nanocatalysts enable tumor-microenvironment remodeling for controllable CO release and targeted/synergistic cancer nanotherapy. <i>Biomaterials</i> , 2021 , 276, 121001	15.6	5
33	Ultrasound signal from sub-micron lipid-coated bubbles 2017 ,		4
32	Polymer Nanosheet Containing Star-Like Copolymers: A Novel Scalable Controlled Release System. <i>Small</i> , 2018 , 14, e1800115	11	4
31	Real Time Ultrasound Molecular Imaging of Prostate Cancer with PSMA-targeted Nanobubbles		4
30	2018 ,		4
29	Efficiency of combined blocking of aerobic and glycolytic metabolism pathways in treatment of N1-S1 hepatocellular carcinoma in a rat model. <i>Journal of Cancer Research and Therapeutics</i> , 2017 , 13, 533-537	1.2	4
28	Improving Treatment Efficacy of In Situ Forming Implants via Concurrent Delivery of Chemotherapeutic and Chemosensitizer. <i>Scientific Reports</i> , 2020 , 10, 6587	4.9	3
27	In situ forming implants exposed to ultrasound enhance therapeutic efficacy in subcutaneous murine tumors. <i>Journal of Controlled Release</i> , 2020 , 324, 146-155	11.7	3
26	Implantable Drug Delivery Systems 2014 , 189-225		3
25	Radiofrequency ablation: effect of tumor- and organ-specific pharmacologic modulation of arterial and portal venous blood flow on coagulation diameter in an N1-S1 tumor model. <i>Journal of Vascular and Interventional Radiology</i> , 2012 , 23, 826-32	2.4	3
24	Ultrasound-Based Molecular Imaging of Tumors with PTPmu Biomarker-Targeted Nanobubble Contrast Agents. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
23	Molecular imaging of orthotopic prostate cancer with nanobubble ultrasound contrast agents targeted to PSMA. <i>Scientific Reports</i> , 2021 , 11, 4726	4.9	3

22	2017,		2
21	Notice of Removal: On the fate of mesh-stabilized lipid nanobubbles after destruction with ultrasound 2017,		2
20	Development of a High-Throughput Ultrasound Technique for the Analysis of Tissue Engineering Constructs. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 793-802	4.7	2
19	2017,		2
18	Applications of ultrasound for image-guided drug delivery in cancer chemotherapy. <i>Therapeutic Delivery</i> , 2013 , 4, 785-9	3.8	2
17	Iridium(III) Complex-Loaded Perfluoropropane Nanobubbles for Enhanced Sonodynamic Therapy. <i>Bioconjugate Chemistry</i> , 2021 ,	6.3	2
16	The Effect of Freeze/Thawing on the Physical Properties and Acoustic Performance of Perfluoropropane Nanobubble Suspensions 2019,		2
15	The Effect of Lipid Solubilization on the Performance of Doxorubicin-Loaded Nanobubbles 2018,		2
14	Delayed response to proton beam treatment of hepatocellular carcinoma. <i>BJR/case Reports</i> , 2020 , 6, 20180125	0.7	1
13	Enhancing fluorescein distribution from in situ forming PLGA implants using therapeutic ultrasound 2017,		1
12	2017,		1
11	Bubble Trouble: Conquering Microbubble Limitations in Contrast Enhanced Ultrasound Imaging by Nature-Inspired Ultrastable Echogenic Nanobubbles		1
10	The dance of the nanobubbles: detecting acoustic backscatter from sub-micron bubbles using ultra-high frequency acoustic microscopy. <i>Nanoscale</i> , 2020 , 12, 21420-21428	7.7	1
9	High-Frequency Array-Based Nanobubble Nonlinear Imaging in a Phantom and In Vivo. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 2059-2074	3.2	1
8	In vitro Preparation and Characterization of Magnetic Nanobubbles 2019,		1
7	2018,		1
6	Nanobubble Facilitated Optoporation and Photoacoustic Imaging of BT-474 Breast Cancer Cells 2018,		1
5	Ultrasound Triggered Drug Release from Affinity-Based Cyclodextrin Polymers for Infection Control. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 2513-2521	4.7	0

4	Intracellular vesicle entrapment of nanobubble ultrasound contrast agents targeted to PSMA promotes prolonged enhancement and stability and .. <i>Nanotheranostics</i> , 2022 , 6, 270-285	5.6	o
3	Extrusion: A New Method for Rapid Formulation of High-Yield, Monodisperse Nanobubbles.. <i>Small</i> , 2022 , e2200810	11	o
2	Tunable Polymer Embolic Implant for Vascular Occlusion. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 1849-1856	5.5	
1	TECHNIQUES IN X-RAY COMPUTED TOMOGRAPHY IN THE EVALUATION OF DRUG RELEASE SYSTEMS AND THEIR APPLICATION 2005 , 105-131		