Mattrey, Rf

List of Publications by Year
in descending order

33 papers	1,053 citations	471509 17 h-index	434195 31 g-index
33 all docs	33 docs citations	33 times ranked	1752 citing authors

#	Article	IF	Citations
1	<scp>3D</scp> Harmonic and Subharmonic Imaging for Characterizing Breast Lesions. Journal of Ultrasound in Medicine, 2022, 41, 1667-1675.	1.7	5
2	Catalase-Loaded Silica Nanoparticles Formulated via Direct Surface Modification as Potential Oxygen Generators for Hypoxia Relief. ACS Applied Materials & Interfaces, 2021, 13, 5945-5954.	8.0	10
3	Characterizing Breast Lesions Using Quantitative Parametric 3D Subharmonic Imaging: A Multicenter Study. Academic Radiology, 2020, 27, 1065-1074.	2.5	10
4	Microbubbles Cloaked with Hydrogels as Activatable Ultrasound Contrast Agents. ACS Applied Materials & Interfaces, 2020, 12, 52298-52306.	8.0	10
5	Bubble Inflation Using Phase-Change Perfluorocarbon Nanodroplets as a Strategy for Enhanced Ultrasound Imaging and Therapy. Langmuir, 2020, 36, 2954-2965.	3.5	20
6	Characterization of indeterminate breast lesions on B-mode ultrasound using automated machine learning models. Journal of Medical Imaging, 2020, 7, .	1.5	2
7	Catalase-Containing Silica Particles as Ultrasound-Based Hydrogen Peroxide Sensors to Determine Infected From Noninfected Fluid Collections in Humans. American Journal of Roentgenology, 2019, 213, W9-W16.	2.2	1
8	Fluorous-phase iron oxide nanoparticles as enhancers of acoustic droplet vaporization of perfluorocarbons with supra-physiologic boiling point. Journal of Controlled Release, 2019, 302, 54-62.	9.9	11
9	Accomplishments and challenges in stem cell imaging in vivo. Drug Discovery Today, 2019, 24, 492-504.	6.4	22
10	Spatial Angular Compounding Technique for H-Scan Ultrasound Imaging. Ultrasound in Medicine and Biology, 2018, 44, 267-277.	1.5	47
11	Focal Liver Lesions: Computer-aided Diagnosis by Using Contrast-enhanced US Cine Recordings. Radiology, 2018, 286, 1062-1071.	7.3	37
12	Polymer-Stabilized Perfluorobutane Nanodroplets for Ultrasound Imaging Agents. Journal of the American Chemical Society, 2017, 139, 15-18.	13.7	59
13	Toward optimization of in vivo superâ€resolution ultrasound imaging using sizeâ€selected microbubble contrast agents. Medical Physics, 2017, 44, 6304-6313.	3.0	45
14	Thrombin-Activatable Microbubbles as Potential Ultrasound Contrast Agents for the Detection of Acute Thrombosis. ACS Applied Materials & Interfaces, 2017, 9, 37587-37596.	8.0	28
15	Quantitative 3D subharmonic imaging for characterizing breast lesions. , 2017, , .		0
16	Hyposialylated IgG activates endothelial IgG receptor FcÎ³RIIB to promote obesity-induced insulin resistance. Journal of Clinical Investigation, 2017, 128, 309-322.	8.2	82
17	Contrast-Enhanced Ultrasound (CEUS) for the Diagnosis and Management of Hepatocellular Carcinoma: Current Status and Future Trends. Current Hepatology Reports, 2016, 15, 307-316.	0.9	4
18	Contrast-enhanced nonlinear 3D ultrasound imaging of breast lesions in a clinical population. , 2016, , .		1

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19	Staging of fibrosis in experimental non-alcoholic steatohepatitis by quantitative molecular imaging in rat models. Nuclear Medicine and Biology, 2016, 43, 179-187.	0.6	9
20	Polymeric Gd-DOTA amphiphiles form spherical and fibril-shaped nanoparticle MRI contrast agents. Chemical Science, 2016, 7, 4230-4236.	7.4	26
21	Therapeutic Enzymeâ€Responsive Nanoparticles for Targeted Delivery and Accumulation in Tumors. Advanced Materials, 2015, 27, 4611-4615.	21.0	218
22	In Vivo Transfection and Detection of Gene Expression of Stem Cells Preloaded with DNA-carrying Microbubbles. Radiology, 2015, 276, 518-525.	7.3	12
23	Tumor Detection at 3 Tesla with an Activatable Cell Penetrating Peptide Dendrimer (ACPPD-Gd), a T1 Magnetic Resonance (MR) Molecular Imaging Agent. PLoS ONE, 2015, 10, e0137104.	2.5	18
24	Hollow iron-silica nanoshells for enhanced high intensity focused ultrasound. Journal of Surgical Research, 2014, 190, 391-398.	1.6	26
25	Neural progenitor cells labeling with microbubble contrast agent for ultrasound imaging inÂvivo. Biomaterials, 2013, 34, 4926-4935.	11.4	49
26	Advances in contrast media research1. Academic Radiology, 2003, 10, 1450-1460.	2.5	27
27	Sentinel Lymph Node Imaging with Microbubble Ultrasound Contrast Material. Academic Radiology, 2002, 9, S231-S235.	2.5	47
28	Initial Experience with Contrast-Enhanced Sonography of the Prostate. American Journal of Roentgenology, 2000, 174, 1575-1580.	2.2	95
29	Effect of ultrasound transmit power on liver enhancement with Imagentï¿½ US, a PFC-stabilized microbubble contrast agent. International Journal of Imaging Systems and Technology, 1997, 8, 82-88.	4.1	14
30	The Potential Role of Perfluorochemicals (PFCS) in Diagnostic Imaging. Artificial Cells, Blood Substitutes, and Biotechnology, 1994, 22, 295-313.	0.9	64
31	The use of Imagent^RBP in Diagnostic Imaging Research and¹⁹F Magnetic Resonance for PO₂Measurements. Biomaterials, Artificial Cells, and Immobilization Biotechnology: Official Journal of the International Society for Artificial Cells and Immobilization Biotechnology, 1992, 20, 917-920.	0.2	3
32	An Overview of Perfluoroctylbromideâ€"Application as a Synthetic Oxygen Carrier and Imaging Agent for X-Ray, Ultrasound and Nuclear Magnetic Resonance. Biomaterials, Artificial Cells, and Artificial Organs, 1988, 16, 411-420.	0.2	29
33	Preparation and Application of Highly Concentrated Perfluoroctylbromide Fluorocarbon Emulsions. Biomaterials, Artificial Cells, and Artificial Organs, 1988, 16, 441-442.	0.2	22