

Mattrey, Rf

List of Publications by Year in descending order

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33
papers

1,053
citations

471509

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434195

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all docs

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docs citations

33
times ranked

1752
citing authors

#	ARTICLE	IF	CITATIONS
1	Therapeutic Enzyme-Responsive Nanoparticles for Targeted Delivery and Accumulation in Tumors. <i>Advanced Materials</i> , 2015, 27, 4611-4615.	21.0	218
2	Initial Experience with Contrast-Enhanced Sonography of the Prostate. <i>American Journal of Roentgenology</i> , 2000, 174, 1575-1580.	2.2	95
3	Hyposialylated IgG activates endothelial IgG receptor Fc β RIIB to promote obesity-induced insulin resistance. <i>Journal of Clinical Investigation</i> , 2017, 128, 309-322.	8.2	82
4	The Potential Role of Perfluorochemicals (PFCS) in Diagnostic Imaging. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 1994, 22, 295-313.	0.9	64
5	Polymer-Stabilized Perfluorobutane Nanodroplets for Ultrasound Imaging Agents. <i>Journal of the American Chemical Society</i> , 2017, 139, 15-18.	13.7	59
6	Neural progenitor cells labeling with microbubble contrast agent for ultrasound imaging in vivo. <i>Biomaterials</i> , 2013, 34, 4926-4935.	11.4	49
7	Sentinel Lymph Node Imaging with Microbubble Ultrasound Contrast Material. <i>Academic Radiology</i> , 2002, 9, S231-S235.	2.5	47
8	Spatial Angular Compounding Technique for H-Scan Ultrasound Imaging. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 267-277.	1.5	47
9	Toward optimization of <i>in vivo</i> super-resolution ultrasound imaging using size-selected microbubble contrast agents. <i>Medical Physics</i> , 2017, 44, 6304-6313.	3.0	45
10	Focal Liver Lesions: Computer-aided Diagnosis by Using Contrast-enhanced US Cine Recordings. <i>Radiology</i> , 2018, 286, 1062-1071.	7.3	37
11	An Overview of Perfluorooctylbromide Application as a Synthetic Oxygen Carrier and Imaging Agent for X-Ray, Ultrasound and Nuclear Magnetic Resonance. <i>Biomaterials, Artificial Cells, and Artificial Organs</i> , 1988, 16, 411-420.	0.2	29
12	Thrombin-Activatable Microbubbles as Potential Ultrasound Contrast Agents for the Detection of Acute Thrombosis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37587-37596.	8.0	28
13	Advances in contrast media research1. <i>Academic Radiology</i> , 2003, 10, 1450-1460.	2.5	27
14	Hollow iron-silica nanoshells for enhanced high intensity focused ultrasound. <i>Journal of Surgical Research</i> , 2014, 190, 391-398.	1.6	26
15	Polymeric Gd-DOTA amphiphiles form spherical and fibril-shaped nanoparticle MRI contrast agents. <i>Chemical Science</i> , 2016, 7, 4230-4236.	7.4	26
16	Preparation and Application of Highly Concentrated Perfluorooctylbromide Fluorocarbon Emulsions. <i>Biomaterials, Artificial Cells, and Artificial Organs</i> , 1988, 16, 441-442.	0.2	22
17	Accomplishments and challenges in stem cell imaging in vivo. <i>Drug Discovery Today</i> , 2019, 24, 492-504.	6.4	22
18	Bubble Inflation Using Phase-Change Perfluorocarbon Nanodroplets as a Strategy for Enhanced Ultrasound Imaging and Therapy. <i>Langmuir</i> , 2020, 36, 2954-2965.	3.5	20

#	ARTICLE	IF	CITATIONS
19	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
20	Effect of ultrasound transmit power on liver enhancement with Imagent ^{1/2} US, a PFC-stabilized microbubble contrast agent. International Journal of Imaging Systems and Technology, 1997, 8, 82-88.	4.1	14
21	In Vivo Transfection and Detection of Gene Expression of Stem Cells Preloaded with DNA-carrying Microbubbles. Radiology, 2015, 276, 518-525.	7.3	12
22	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
23	Characterizing Breast Lesions Using Quantitative Parametric 3D Subharmonic Imaging: A Multicenter Study. Academic Radiology, 2020, 27, 1065-1074.	2.5	10
24	Microbubbles Cloaked with Hydrogels as Activatable Ultrasound Contrast Agents. ACS Applied Materials & Interfaces, 2020, 12, 52298-52306.	8.0	10
25	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
26	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
27	^{3D} Harmonic and Subharmonic Imaging for Characterizing Breast Lesions. Journal of Ultrasound in Medicine, 2022, 41, 1667-1675.	1.7	5
28	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
29	The use of Imagent ^R BP in Diagnostic Imaging Research and ¹⁹ F Magnetic Resonance for PO ₂ Measurements. 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
30	Characterization of indeterminate breast lesions on B-mode ultrasound using automated machine learning models. Journal of Medical Imaging, 2020, 7, .	1.5	2
31	Contrast-enhanced nonlinear 3D ultrasound imaging of breast lesions in a clinical population. , 2016, , .		1
32	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
33	Quantitative 3D subharmonic imaging for characterizing breast lesions. , 2017, , .		0