Pasquina Marzola

List of Publications by Year
in descending order

118 papers	3,760 citations	136740 32 h-index	143772 57 g-index
118 all docs	118 docs citations	118 times ranked	6198 citing authors

#	Article	IF	Citations
1	A role for leukocyte-endothelial adhesion mechanisms in epilepsy. Nature Medicine, 2008, 14, 1377-1383.	15.2	453
2	Magnetoâ€Plasmonic Auâ€Fe Alloy Nanoparticles Designed for Multimodal SERSâ€MRIâ€CT Imaging. Small, 2014, 10, 2476-2486.	5.2	156
3	Efficient In Vitro Labeling of Human Neural Precursor Cells with Superparamagnetic Iron Oxide Particles: Relevance for In Vivo Cell Tracking. Stem Cells, 2008, 26, 505-516.	1.4	150
4	Magnetic resonance imaging of changes elicited by status epilepticus in the rat brain: diffusion-weighted and T2-weighted images, regional blood volume maps, and direct correlation with tissue and cell damage. NeuroImage, 2003, 18, 375-389.	2.1	123
5	Mesenchymal stem cells share molecular signature with mesenchymal tumor cells and favor early tumor growth in syngeneic mice. Oncogene, 2008, 27, 2542-2551.	2.6	114
6	In VitroandIn VivoStudy of Solid Lipid Nanoparticles Loaded with Superparamagnetic Iron Oxide. Journal of Drug Targeting, 2003, 11, 19-24.	2.1	100
7	Multispectral Cerenkov luminescence tomography for small animal optical imaging. Optics Express, 2011, 19, 12605.	1.7	99
8	Early Antiangiogenic Activity of SU11248 Evaluated In vivo by Dynamic Contrast-Enhanced Magnetic Resonance Imaging in an Experimental Model of Colon Carcinoma. Clinical Cancer Research, 2005, 11, 5827-5832.	3.2	98
9	Magnetic resonance imaging of ultrasmall superparamagnetic iron oxide-labeled exosomes from stem cells: a new method to obtain labeled exosomes. International Journal of Nanomedicine, 2016, 11, 2481.	3.3	93
10	In Vivo Assessment of Antiangiogenic Activity of SU6668 in an Experimental Colon Carcinoma Model. Clinical Cancer Research, 2004, 10, 739-750.	3.2	82
11	Magnetic Nanoparticles-Templated Assembly of Protein Subunits: A New Platform for Carbohydrate-Based MRI Nanoprobes. Journal of the American Chemical Society, 2011, 133, 4889-4895.	6.6	79
12	High field MRI in preclinical research. European Journal of Radiology, 2003, 48, 165-170.	1.2	74
13	PEG-capped, lanthanide doped GdF3 nanoparticles: luminescent and T2 contrast agents for optical and MRI multimodal imaging. Nanoscale, 2012, 4, 7682.	2.8	72
14	Classic hippocampal sclerosis and hippocampalâ€onset epilepsy produced by a single â€œcrypticâ€episode of focal hippocampal excitation in awake rats. Journal of Comparative Neurology, 2010, 518, 3381-3407.	0.9	68
15	Mesenchymal Stem Cells Prevent Acute Rejection and Prolong Graft Function in Pancreatic Islet Transplantation. Diabetes Technology and Therapeutics, 2010, 12, 435-446.	2.4	64
16	Hydration and protein dynamics: frequency domain fluorescence spectroscopy of proteins in reverse micelles. The Journal of Physical Chemistry, 1991, 95, 9488-9495.	2.9	62
17	Pilocarpine-Induced Status Epilepticus in Rats Involves Ischemic and Excitotoxic Mechanisms. PLoS ONE, 2007, 2, e1105.	1.1	62
18	ASC-Exosomes Ameliorate the Disease Progression in SOD1(G93A) Murine Model Underlining Their Potential Therapeutic Use in Human ALS. International Journal of Molecular Sciences, 2020, 21, 3651.	1.8	61

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19	In vivo quantitative lipidic map of brown adipose tissue by chemical shift imaging at 4.7 tesla. Journal of Lipid Research, 1999, 40, 1395-1400.	2.0	57
20	Functional Magnetic Resonance Imaging of Rats with Experimental Autoimmune Encephalomyelitis Reveals Brain Cortex Remodeling. Journal of Neuroscience, 2015, 35, 10088-10100.	1.7	54
21	4D Multimodal Nanomedicines Made of Nonequilibrium Auâ€“Fe Alloy Nanoparticles. ACS Nano, 2020, 14, 12840-12853.	7.3	53
22	Mammary carcinoma provides highly tumourigenic and invasive reactive stromal cells. Carcinogenesis, 2005, 26, 1868-1878.	1.3	51
23	Does Pilocarpine-Induced Epilepsy in Adult Rats Require Status epilepticus?. PLoS ONE, 2009, 4, e5759.	1.1	51
24	Magnetic Nanoparticles from Magnetospirillum gryphiswaldense Increase the Efficacy of Thermotherapy in a Model of Colon Carcinoma. PLoS ONE, 2014, 9, e108959.	1.1	49
25	Cathepsin K Null Mice Show Reduced Adiposity during the Rapid Accumulation of Fat Stores. PLoS ONE, 2007, 2, e683.	1.1	48
26	Synthesis and characterization of polyethylenimine-based iron oxide composites as novel contrast agents for MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2009, 22, 77-87.	1.1	46
27	Labeling and Magnetic Resonance Imaging of Exosomes Isolated from Adipose Stem Cells. Current Protocols in Cell Biology, 2017, 75, 3.44.1-3.44.15.	2.3	44
28	Polyunsaturated fatty acids mapping by1H MR-chemical shift imaging. Magnetic Resonance in Medicine, 2001, 46, 879-883.	1.9	41
29	A method for on-line background subtraction in frequency domain fluorometry. Journal of Fluorescence, 1991, 1, 153-162.	1.3	40
30	In Vivo Phenotyping of the ob/ob Mouse by Magnetic Resonance Imaging and ¹Hâ€Magnetic Resonance Spectroscopy. Obesity, 2006, 14, 405-414.	1.5	40
31	Characterization of magnetic nanoparticles from Magnetospirillum Gryphiswaldense as potential theranostics tools. Contrast Media and Molecular Imaging, 2016, 11, 139-145.	0.4	34
32	Binding of Gadobenate Dimeglumine to Proteins Extravasated into Interstitial Space Enhances Conspicuity of Reperfused Infarcts. Investigative Radiology, 1994, 29, S50-S53.	3.5	33
33	Structural and functional MRI following 4-aminopyridine-induced seizures: A comparative imaging and anatomical study. Neurobiology of Disease, 2006, 21, 80-89.	2.1	33
34	In vivo mapping of fractional plasma volume (fpv) and endothelial transfer coefficient (Kps) in solid tumors using a macromolecular contrast agent: Correlation with histology and ultrastructure. International Journal of Cancer, 2003, 104, 462-468.	2.3	32
35	In vivo visualization of transplanted pancreatic islets by MRI: comparison between in vivo, histological and electron microscopy findings. Contrast Media and Molecular Imaging, 2009, 4, 135-142.	0.4	32
36	Evaluation of lung inflammation induced by intratracheal administration of LPS in mice: comparison between MRI and histology. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2010, 23, 93-101.	1.1	32

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37	A SERRS/MRI multimodal contrast agent based on naked Au nanoparticles functionalized with a Gd(iii) loaded PEG polymer for tumor imaging and localized hyperthermia. Nanoscale, 2018, 10, 1272-1278.	2.8	31
38	Magnetosomes Extracted from Magnetospirillum gryphiswaldense as Theranostic Agents in an Experimental Model of Glioblastoma. Contrast Media and Molecular Imaging, 2018, 2018, 1-12.	0.4	31
39	Co-Transplantation of Endothelial Progenitor Cells and Pancreatic Islets to Induce Long-Lasting Normoglycemia in Streptozotocin-Treated Diabetic Rats. PLoS ONE, 2014, 9, e94783.	1.1	30
40	Tumor Vessel Compression Hinders Perfusion of Ultrasonographic Contrast Agents. Neoplasia, 2005, 7, 528-536.	2.3	29
41	In Vivo Long-Term Magnetic Resonance Imaging Activity of Ferritin-Based Magnetic Nanoparticles versus a Standard Contrast Agent. Journal of Medicinal Chemistry, 2014, 57, 5686-5692.	2.9	29
42	Polymer-coated silver-iron nanoparticles as efficient and biodegradable MRI contrast agents. Journal of Colloid and Interface Science, 2021, 596, 332-341.	5.0	28
43	Contrast-enhanced MRI of brown adipose tissue after pharmacological stimulation. Magnetic Resonance in Medicine, 2006, 55, 715-718.	1.9	27
44	Multifunctional nanoprobes based on upconverting lanthanide doped CaF₂: towards biocompatible materials for biomedical imaging. Biomaterials Science, 2014, 2, 1158-1171.	2.6	27
45	Comparison between signal-to-noise ratio, liver-to-muscle ratio, and 1/T2 for the noninvasive assessment of liver iron content by MRI. Journal of Magnetic Resonance Imaging, 2003, 17, 589-592.	1.9	25
46	Investigation of adipose tissues in Zucker rats using in vivo and ex vivo magnetic resonance spectroscopy. Journal of Lipid Research, 2011, 52, 330-336.	2.0	25
47	Epithelial and Mesenchymal Tumor Compartments Exhibit In Vivo Complementary Patterns of Vascular Perfusion and Glucose Metabolism. Neoplasia, 2007, 9, 900-908.	2.3	24
48	Liposomes derivatized with multimeric copies of KCCYSL peptide as targeting agents for HER-2-overexpressing tumor cells. International Journal of Nanomedicine, 2017, Volume 12, 501-514.	3.3	24
49	Biocompatible Ironâ€“Boron Nanoparticles Designed for Neutron Capture Therapy Guided by Magnetic Resonance Imaging. Advanced Healthcare Materials, 2021, 10, e2001632.	3.9	24
50	Evaluation of the hepatocyte-specific contrast agent gadobenate dimeglumine for MR imaging of acute hepatitis in a rat model. Journal of Magnetic Resonance Imaging, 1997, 7, 147-152.	1.9	21
51	DCE-MRI using small-molecular and albumin-binding contrast agents in experimental carcinomas with different stromal content. European Journal of Radiology, 2011, 78, 52-59.	1.2	21
52	Preclinical In vivo Imaging for Fat Tissue Identification, Quantification, and Functional Characterization. Frontiers in Pharmacology, 2016, 7, 336.	1.6	20
53	The neuroprotective activity of the glycine receptor antagonist GV150526: an in vivo study by magnetic resonance imaging. European Journal of Pharmacology, 2001, 419, 147-153.	1.7	19
54	Effect of Tamoxifen in an Experimental Model of Breast Tumor Studied by Dynamic Contrast-Enhanced Magnetic Resonance Imaging and Different Contrast Agents. Investigative Radiology, 2005, 40, 421-429.	3.5	19

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55	1H MRI of pneumococcal pneumonia in a murine model. Journal of Magnetic Resonance Imaging, 2005, 22, 170-174.	1.9	19
56	Off-resonance experiments and contrast agents to improve magnetic resonance imaging. Magnetic Resonance in Medicine, 1998, 39, 124-131.	1.9	18
57	Sequential average segmented microscopy for high signal-to-noise ratio motion-artifact-free in vivo heart imaging. Biomedical Optics Express, 2013, 4, 2095.	1.5	18
58	Easy formulation of liposomal doxorubicin modified with a bombesin peptide analogue for selective targeting of GRP receptors overexpressed by cancer cells. Drug Delivery and Translational Research, 2019, 9, 215-226.	3.0	18
59	Fast and Minimally Invasive Determination of the Unsaturation Index of White Fat Depots by Microâ€Raman Spectroscopy. Lipids, 2011, 46, 659-667.	0.7	17
60	Oil Coreâ€“PEG Shell Nanocarriers for In Vivo MRI Imaging. Advanced Healthcare Materials, 2019, 8, e1801313.	3.9	16
61	Iron Oxide Nanoparticles as Theranostic Agents in Cancer Immunotherapy. Nanomaterials, 2021, 11, 1950.	1.9	16
62	Cerebral cortex three-dimensional profiling in human fetuses by magnetic resonance imaging. Journal of Anatomy, 2004, 204, 465-474.	0.9	15
63	Tumor microvasculature observed using different contrast agents: a comparison between Gd-DTPA-Albumin and B-22956/1 in an experimental model of mammary carcinoma. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2008, 21, 169-176.	1.1	15
64	Effect of dietary supplementation with zinc sulphate on the aging process: a study using high field intensity MRI and chemical shift imaging. Biomedicine and Pharmacotherapy, 1998, 52, 454-458.	2.5	14
65	Regional Cerebral Blood Volume Mapping after Ischemic Lesions. NeuroImage, 2000, 12, 418-424.	2.1	14
66	Pathological animal models in the experimental evaluation of tumour microvasculature with magnetic resonance imaging. Radiologia Medica, 2007, 112, 319-328.	4.7	14
67	Nanoaggregates of iron poly-oxo-clusters obtained by laser ablation in aqueous solution of phosphonates. Journal of Colloid and Interface Science, 2018, 522, 208-216.	5.0	14
68	Polymer-coated superparamagnetic iron oxide nanoparticles as T2 contrast agent for MRI and their uptake in liver. Future Science OA, 2019, 5, FSO235.	0.9	14
69	In-vivo quantitative hydrolipidic map of perirenal adipose tissue by chemical shift imaging at 4.7 Tesla. International Journal of Obesity, 2001, 25, 457-461.	1.6	13
70	USE OF MAGNETIC RESONANCE IMAGING FOR DIAGNOSIS OF A SPINAL TUMOR IN A CAT. Veterinary Radiology and Ultrasound, 1999, 40, 267-270.	0.4	12
71	In vivo mapping of spontaneous mammary tumors in transgenic mice using MRI and ultrasonography. Journal of Magnetic Resonance Imaging, 2004, 19, 570-579.	1.9	12
72	Sub-chronic nicotine-induced changes in regional cerebral blood volume and transversal relaxation time patterns in the rat: a magnetic resonance study. Neuroscience Letters, 2005, 377, 195-199.	1.0	12

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73	MR imaging and targeting of human breast cancer cells with folate decorated nanoparticles. RSC Advances, 2015, 5, 39760-39770.	1.7	12
74	Bayesian estimation of relaxation times T1 in MR images of irradiated Fricke-agarose gels. Magnetic Resonance Imaging, 2000, 18, 721-731.	1.0	11
75	Cancer-associated stroma affects FDG uptake in experimental carcinomas. Implications for FDG-PET delineation of radiotherapy target. European Journal of Nuclear Medicine and Molecular Imaging, 2009, 36, 616-623.	3.3	11
76	Delayed Muscle Injuries in Arterial Insufficiency: Contrast-enhanced MR Imaging and³¹P Spectroscopy in Rats. Radiology, 2001, 220, 413-419.	3.6	10
77	Magnetic Resonance Imaging in Animal Models of Pathologies. Methods in Enzymology, 2004, 386, 177-200.	0.4	10
78	Manganese-enhanced magnetic resonance imaging investigation of the interferon-Î± model of depression in rats. Magnetic Resonance Imaging, 2014, 32, 529-534.	1.0	10
79	¹Hâ€MR spectroscopy characterization of the adipose tissue associated with colorectal tumor. Journal of Magnetic Resonance Imaging, 2014, 39, 469-474.	1.9	10
80	MRI reveals therapeutical efficacy of stem cells: An experimental study on the SOD1(G93A) animal model. Magnetic Resonance in Medicine, 2018, 79, 459-469.	1.9	10
81	The hydrolipidic ratio inÂage-related maturation ofÂadipose tissues. Biomedicine and Pharmacotherapy, 2006, 60, 139-143.	2.5	9
82	Visual MRI: Merging information visualization and non-parametric clustering techniques for MRI dataset analysis. Artificial Intelligence in Medicine, 2008, 44, 183-199.	3.8	9
83	DCE-MRI Data Analysis for Cancer Area Classification. Methods of Information in Medicine, 2009, 48, 248-253.	0.7	9
84	Theranostic Role of ³²P-ATP as Radiopharmaceutical for the Induction of Massive Cell Death within Avascular Tumor Core. Theranostics, 2017, 7, 4399-4409.	4.6	9
85	Chemical Shift Imaging at 4.7 Tesla of Thymus in Young and Old Mice. Journal of Magnetic Resonance Imaging, 1999, 10, 97-101.	1.9	8
86	Magnetic resonance imaging of the rat Harderian gland. Journal of Anatomy, 2002, 201, 231-238.	0.9	8
87	Ozone Treatment of Grapes During Withering for Amarone Wine: A Multimodal Imaging and Spectroscopic Analysis. Microscopy and Microanalysis, 2018, 24, 564-573.	0.2	8
88	Nanoparticles exhibiting self-regulating temperature as innovative agents for Magnetic Fluid Hyperthermia. Nanotheranostics, 2021, 5, 333-347.	2.7	8
89	Quantum dots labelling allows detection of the homing of mesenchymal stem cells administered as immunomodulatory therapy in an experimental model of pancreatic islets transplantation. Journal of Anatomy, 2017, 230, 381-388.	0.9	7
90	Drug targeting of airway surface liquid: A pharmacological MRI approach. Biomedicine and Pharmacotherapy, 2008, 62, 410-419.	2.5	6

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91	Inhibition of tyrosine kinase receptors by SU6668 promotes abnormal stromal development at the periphery of carcinomas. British Journal of Cancer, 2009, 100, 1575-1580.	2.9	6
92	Secretory response induced by essential oils on airway surface fluid: A pharmacological MRI study. Journal of Ethnopharmacology, 2009, 124, 630-634.	2.0	6
93	Washout of small molecular contrast agent in carcinoma-derived experimental tumors. Microvascular Research, 2009, 78, 370-378.	1.1	6
94	3D Printing of Rat Salivary Glands: The Submandibular-Sublingual Complex. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2014, 43, 239-244.	0.3	6
95	Multifunctional Nanovectors Based on Polyamidoamine Polymers for Theranostic Application. Journal of Nanoscience and Nanotechnology, 2019, 19, 5020-5026.	0.9	6
96	Biocompatible, photo-responsive layer-by-layer polymer nanocapsules with an oil core: in vitro and in vivo study. Journal of the Royal Society Interface, 2022, 19, 20210800.	1.5	6
97	Comparison of results of scanning electron microscopy and magnetic resonance imaging before and after administration of a radiographic contrast agent in the tendon of the deep digital flexor muscle obtained from horse cadavers. American Journal of Veterinary Research, 2000, 61, 321-325.	0.3	5
98	Correlation MRI/ultrastructure in cerebral ischemic lesions: application to the interpretation of cortical layered areas. Magnetic Resonance Imaging, 2002, 20, 479-486.	1.0	5
99	Early versus late GDâ€ÐTPA MRI enhancement in experimental glioblastomas. Journal of Magnetic Resonance Imaging, 2011, 33, 550-556.	1.9	5
100	Dynamic MRI reveals that the magnitude of the ischemia-related enhancement in skeletal muscle is age-dependent. Magnetic Resonance in Medicine, 2003, 49, 386-390.	1.9	4
101	Proton Magnetic Resonance Spectroscopy: Ex vivo study to investigate its prognostic role in colorectal cancer. Biomedicine and Pharmacotherapy, 2013, 67, 593-597.	2.5	4
102	Magneto-Plasmonic Au-Fe Alloy Nanoparticles Designed for Multimodal SERS-MRI-CT Imaging. Small, 2014, 10, 3823-3823.	5.2	4
103	Pancreatic cancer growth using magnetic resonance and bioluminescence imaging. Magnetic Resonance Imaging, 2015, 33, 592-599.	1.0	4
104	EGFR-Targeted Magnetic Nanovectors Recognize, in Vivo, Head and Neck Squamous Cells Carcinoma-Derived Tumors. ACS Medicinal Chemistry Letters, 2017, 8, 1230-1235.	1.3	4
105	Dynamic contrast-enhanced magnetic resonance imaging of the sarcopenic muscle. BMC Medical Imaging, 2002, 2, 2.	1.4	3
106	A new model of rectal cancer with regional lymph node metastasis allowing in vivo evaluation by imaging biomarkers. Biomedicine and Pharmacotherapy, 2011, 65, 401-406.	2.5	3
107	Potential role of combined FDG PET/CT & contrast enhancement MRI in a rectal carcinoma model with nodal metastases characterized by a poor FDG-avidity. European Journal of Radiology, 2012, 81, 658-662.	1.2	3
108	Morphogenetic events in the perinodal connective tissue in a metastatic cancer model. Biomedicine and Pharmacotherapy, 2013, 67, 1-6.	2.5	3

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109	Regional cerebral blood volume (rCBV) and trasversal relaxation time (T2) mapping of the rat limbic system during pre-puberal and adult age. Neuroscience Letters, 2004, 364, 141-144.	1.0	2
110	Innovation in Contrast Agents for Magnetic Resonance Imaging. Current Medical Imaging, 2006, 2, 291-298.	0.4	2
111	MRI characterization of rat brain aging at structural and functional level: Clues for translational applications. Experimental Gerontology, 2021, 152, 111432.	1.2	2
112	Learning Approach to Analyze Tumour Heterogeneity in DCE-MRI Data During Anti-cancer Treatment. Lecture Notes in Computer Science, 2009, , 385-389.	1.0	1
113	A PC-based workstation for processing and analysis of MRI data. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 7, 16-20.	1.1	0
114	Small animal optical multispectral Cerenkov tomography. , 2011, , .		0
115	IMAGING TECHNIQUES FOR THE EVALUATION OF GRAPES IN WITHERING FOR AMARONE WINE PRODUCTION. Istituto Lombardo - Accademia Di Scienze E Lettere - Incontri Di Studio, 0, , .	0.0	0
116	Heterogeneous Enhancement Pattern in DCE-MRI Reveals the Morphology of Normal Lymph Nodes: An Experimental Study. Contrast Media and Molecular Imaging, 2019, 2019, 1-9.	0.4	0
117	Porous Si Microparticles Infiltrated with Magnetic Nanospheres. Nanomaterials, 2020, 10, 463.	1.9	0
118	Towards Information Visualization and Clustering Techniques for MRI Data Sets. Lecture Notes in Computer Science, 2005, , 315-319.	1.0	0