Carmen Burtea

List of Publications by Year
in descending order

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50 papers	1,662 citations	279487 23 h-index	288905 40 g-index
51 all docs	51 docs citations	51 times ranked	2813 citing authors

#	Article	IF	Citations
1	Crucial Ignored Parameters on Nanotoxicology: The Importance of Toxicity Assay Modifications and â€œCell Visionâ€• PLoS ONE, 2012, 7, e29997.	1.1	154
2	Cell â€œvisionâ€• complementary factor of protein corona in nanotoxicology. Nanoscale, 2012, 4, 5461.	2.8	143
3	Contrast Agents: Magnetic Resonance. Handbook of Experimental Pharmacology, 2008, , 135-165.	0.9	96
4	Molecular imaging of Î±vÎ²3 integrin expression in atherosclerotic plaques with a mimetic of RGD peptide grafted to Gd-DTPAâ€. Cardiovascular Research, 2008, 78, 148-157.	1.8	93
5	Peptidic Targeting of Phosphatidylserine for the MRI Detection of Apoptosis in Atherosclerotic Plaques. Molecular Pharmaceutics, 2009, 6, 1903-1919.	2.3	78
6	How to quantify iron in an aqueous or biological matrix: a technical note. Contrast Media and Molecular Imaging, 2009, 4, 299-304.	0.4	73
7	Significance of cell â€œobserverâ€•and protein source in nanobiosciences. Journal of Colloid and Interface Science, 2013, 392, 431-445.	5.0	73
8	Development of a Magnetic Resonance Imaging Protocol for the Characterization of Atherosclerotic Plaque by Using Vascular Cell Adhesion Molecule-1 and Apoptosis-Targeted Ultrasmall Superparamagnetic Iron Oxide Derivatives. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, e36-48.	1.1	72
9	Magnetic resonance imaging of inflammation with a specific selectin-targeted contrast agent. Magnetic Resonance in Medicine, 2005, 53, 800-807.	1.9	64
10	Polyglycerolâ€grafted superparamagnetic iron oxide nanoparticles: highly efficient MRI contrast agent for liver and kidney imaging and potential scaffold for cellular and molecular imaging. Contrast Media and Molecular Imaging, 2012, 7, 185-194.	0.4	64
11	Hard corona composition and cellular toxicities of the graphene sheets. Colloids and Surfaces B: Biointerfaces, 2013, 109, 212-218.	2.5	64
12	C-MALISA (cellular magnetic-linked immunosorbent assay), a new application of cellular ELISA for MRI. Journal of Inorganic Biochemistry, 2005, 99, 1135-1144.	1.5	59
13	Synthesis, Characterization, and Pharmacokinetic Evaluation of a Potential MRI Contrast Agent Containing Two Paramagnetic Centers with Albumin Binding Affinity. Chemistry - A European Journal, 2005, 11, 3077-3086.	1.7	47
14	Magnetic Resonance Molecular Imaging of Vascular Cell Adhesion Molecule-1 Expression in Inflammatory Lesions Using a Peptide-Vectorized Paramagnetic Imaging Probe. Journal of Medicinal Chemistry, 2009, 52, 4725-4742.	2.9	45
15	Potential amyloid plaque-specific peptides for the diagnosis of Alzheimer's disease. Neurobiology of Aging, 2010, 31, 1679-1689.	1.5	44
16	Corona protein composition and cytotoxicity evaluation of ultra-small zeolites synthesized from template free precursor suspensions. Toxicology Research, 2013, 2, 270.	0.9	41
17	Pharmacokinetic andin vivo evaluation of a self-assembled gadolinium(III)-iron(II) contrast agent with high relaxivity. Contrast Media and Molecular Imaging, 2006, 1, 267-278.	0.4	39
18	A Tripodal Rutheniumâ€“Gadolinium Metallostar as a Potential Î±vÎ²3Integrin Specific Bimodal Imaging Contrast Agent. Inorganic Chemistry, 2012, 51, 6405-6411.	1.9	38

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19	Ferritin-induced relaxation in tissues: An in vitro study. Journal of Magnetic Resonance Imaging, 2004, 20, 690-696.	1.9	32
20	In vitro biomedical applications of functionalized iron oxide nanoparticles, including those not related to magnetic properties. Contrast Media and Molecular Imaging, 2011, 6, 236-250.	0.4	32
21	In vitro and in vivo characterization of several functionalized ultrasmall particles of iron oxide, vectorized against amyloid plaques and potentially able to cross the bloodâ€“brain barrier: toward earlier diagnosis of Alzheimer's disease by molecular imaging. Contrast Media and Molecular Imaging, 2015, 10, 211-224.	0.4	32
22	Design and evaluation of a 6-mer amyloid-beta protein derived phage display library for molecular targeting of amyloid plaques in Alzheimer's disease: Comparison with two cyclic heptapeptides derived from a randomized phage display library. Peptides, 2011, 32, 1232-1243.	1.2	27
23	Phage Display Screening for Tumor Necrosis Factor-Î±-Binding Peptides: Detection of Inflammation in a Mouse Model of Hepatitis. International Journal of Peptides, 2013, 2013, 1-9.	0.7	27
24	Synthesis, Characterization, and Toxicity Evaluation of Dextran-Coated Iron Oxide Nanoparticles. Metals, 2017, 7, 63.	1.0	24
25	From Phage Display to Magnetophage, a New Tool for Magnetic Resonance Molecular Imaging. Bioconjugate Chemistry, 2007, 18, 1251-1258.	1.8	21
26	A Modular Approach towards the Synthesis of Targetâ€Specific MRI Contrast Agents. European Journal of Inorganic Chemistry, 2011, 2011, 3577-3585.	1.0	19
27	Development of a peptideâ€functionalized imaging nanoprobe for the targeting of (FXYD2)Î³a as a highly specific biomarker of pancreatic beta cells. Contrast Media and Molecular Imaging, 2015, 10, 398-412.	0.4	19
28	Ultrasmall particle of iron oxideâ€”RGD peptidomimetic conjugate: synthesis and characterisation. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 1861-1865.	1.0	18
29	Development of an LDL Receptor-Targeted Peptide Susceptible to Facilitate the Brain Access of Diagnostic or Therapeutic Agents. Biology, 2020, 9, 161.	1.3	13
30	Screening for peptides targeted to IL-7RÎ± for molecular imaging of rheumatoid arthritis synovium. Arthritis Research and Therapy, 2016, 18, 230.	1.6	12
31	A glycosylated complex of gadolinium, a new potential contrast agent for magnetic resonance angiography?. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 2246-2249.	1.0	10
32	Validation by Magnetic Resonance Imaging of the Diagnostic Potential of a Heptapeptide-Functionalized Imaging Probe Targeted to Amyloid-Î² and Able to Cross the Blood-Brain Barrier. Journal of Alzheimer's Disease, 2017, 60, 1547-1565.	1.2	10
33	Morphology and fibreâ€type distribution in the tongue of the <scp>P</scp>ogona vitticeps <scp>I</scp>izard (<scp>I</scp>guania, <scp>A</scp>gamidae). Journal of Anatomy, 2014, 225, 377-389.	0.9	9
34	Early detection of colonic dysplasia by magnetic resonance molecular imaging with a contrast agent raised against the colon cancer marker MUC5AC. Contrast Media and Molecular Imaging, 2016, 11, 211-221.	0.4	9
35	Imaging of Human Insulin Secreting Cells with Gd-DOTA-P88, a Paramagnetic Contrast Agent Targeting the Beta Cell Biomarker FXYD2Î³a. Molecules, 2018, 23, 2100.	1.7	9
36	Development of New Glucosylated Derivatives of Gadolinium Diethylenetriaminepentaacetic for Magnetic Resonance Angiography. Investigative Radiology, 2003, 38, 320-333.	3.5	8

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37	Molecular and cellular biology of PCSK9: impact on glucose homeostasis. Journal of Drug Targeting, 2022, 30, 948-960.	2.1	8
38	Synthesis and characterization of new lowâ€molecularâ€weight lysineâ€conjugated Gdâ€DTPA contrast agents. Contrast Media and Molecular Imaging, 2011, 6, 229-235.	0.4	6
39	Chemical and in vitro characterizations of a promising bimodal AGuIX probe able to target apoptotic cells for applications in MRI and optical imaging. Contrast Media and Molecular Imaging, 2016, 11, 381-395.	0.4	5
40	Novel Polymeric Micelles-Coated Magnetic Nanoparticles for In Vivo Bioimaging of Liver: Toxicological Profile and Contrast Enhancement. Materials, 2020, 13, 2722.	1.3	5
41	Molecular Imaging of Galectin-1 Expression as a Biomarker of Papillary Thyroid Cancer by Using Peptide-Functionalized Imaging Probes. Biology, 2020, 9, 53.	1.3	5
42	Development of new glucosylated derivatives of gadolinium diethylenetriaminepentaacetic for magnetic resonance angiography. Investigative Radiology, 2003, 38, 320-33.	3.5	4
43	Toward a new and noninvasive diagnostic method of papillary thyroid cancer by using peptide vectorized contrast agents targeted to galectin-1. Medical Oncology, 2017, 34, 184.	1.2	3
44	Title is missing!. Investigative Radiology, 2003, 38, 320-333.	3.5	2
45	Comparative study of the visual system of two psammophilic lizards (Scincus scincus & Eumeces) Tj ETQq1 1 0.784314 rgBT /Overloc	0.7	2
46	Spinâ€“spin relaxation times in myocardial hypertrophy induced by endocrine agents in rat. Magnetic Resonance Materials in Physics, Biology, and Medicine, 1998, 7, 184-198.	1.1	1
47	Preparation and Evaluation of Novel Sugar Dendritic Gd-DTPA Complexes for MRI Contrast Agents and Phospha Sugars for Anti-Tumour Agents. Advanced Materials Research, 2011, 222, 217-220.	0.3	1
48	Modulation of adiponectin receptors AdipoR1 and AdipoR2 by phage display-derived peptides in inÂvitro and inÂvivo models. Journal of Drug Targeting, 2020, 28, 831-851.	2.1	1
49	STUDIES ON PREPARATION AND CHARACTERIZATION OF NOVEL MRI CONTRAST AGENTS FOR TARGETING ORGANS AND BLOOD VESSELS. Heterocyclic Communications, 2007, 13, .	0.6	0
50	Editorial for â€œNew Cluster Analysis Method for Quantitative <scp>DCEâ€MRI</scp> Assessing Tumor Heterogeneity Induced by <scp>E7130</scp> Treatment to a Breast Cancer Mouse Modelâ€. Journal of Magnetic Resonance Imaging, 2022, 56, 1832-1833.	1.9	0