Olivier ClÃ©ment

List of Publications by Year
in descending order

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120 papers	7,517 citations	57758 44 h-index	53230 85 g-index
124 all docs	124 docs citations	124 times ranked	10833 citing authors

#	Article	IF	Citations
1	Contrast induced nephropathy: updated ESUR Contrast Media Safety Committee guidelines. European Radiology, 2011, 21, 2527-2541.	4.5	750
2	Generation of Superparamagnetic Liposomes Revealed as Highly Efficient MRI Contrast Agents for in Vivo Imaging. Journal of the American Chemical Society, 2005, 127, 10676-10685.	13.7	416
3	Nephrogenic systemic fibrosis and gadolinium-based contrast media: updated ESUR Contrast Medium Safety Committee guidelines. European Radiology, 2013, 23, 307-318.	4.5	396
4	Post-contrast acute kidney injury â€“ Part 1: Definition, clinical features, incidence, role of contrast medium and risk factors. European Radiology, 2018, 28, 2845-2855.	4.5	306
5	Combining Magnetic Hyperthermia and Photodynamic Therapy for Tumor Ablation with Photoresponsive Magnetic Liposomes. ACS Nano, 2015, 9, 2904-2916.	14.6	284
6	The neuronal network responsible for paradoxical sleep and its dysfunctions causing narcolepsy and rapid eye movement (REM) behavior disorder. Sleep Medicine Reviews, 2011, 15, 153-163.	8.5	230
7	Localization of the Brainstem GABAergic Neurons Controlling Paradoxical (REM) Sleep. PLoS ONE, 2009, 4, e4272.	2.5	207
8	Heat-Generating Iron Oxide Nanocubes: Subtle â€œDestructuratorsâ€•of the Tumoral Microenvironment. ACS Nano, 2014, 8, 4268-4283.	14.6	200
9	Mucosal Imprinting of Vaccine-Induced CD8 ⁺ T Cells Is Crucial to Inhibit the Growth of Mucosal Tumors. Science Translational Medicine, 2013, 5, 172ra20.	12.4	195
10	Post-contrast acute kidney injury. Part 2: risk stratification, role of hydration and other prophylactic measures, patients taking metformin and chronic dialysis patients. European Radiology, 2018, 28, 2856-2869.	4.5	192
11	Superparamagnetic iron oxides as positive MR contrast agents: In vitro and in vivo evidence. Magnetic Resonance Imaging, 1993, 11, 509-519.	1.8	191
12	Ultra Magnetic Liposomes for MR Imaging, Targeting, and Hyperthermia. Langmuir, 2012, 28, 11834-11842.	3.5	177
13	Early Changes in Liver Perfusion Caused by Occult Metastases in Rats: Detection with Quantitative CT. Radiology, 2001, 218, 556-561.	7.3	138
14	Magnetic Targeting of Magnetoliposomes to Solid Tumors with MR Imaging Monitoring in Mice: Feasibility. Radiology, 2006, 239, 415-424.	7.3	135
15	Evidence that Neurons of the Sublaterodorsal Tegmental Nucleus Triggering Paradoxical (REM) Sleep Are Glutamatergic. Sleep, 2011, 34, 419-423.	1.1	135
16	Multifunctional Rare-Earth Vanadate Nanoparticles: Luminescent Labels, Oxidant Sensors, and MRI Contrast Agents. ACS Nano, 2014, 8, 11126-11137.	14.6	116
17	Functional imaging of the human placenta with magnetic resonance. American Journal of Obstetrics and Gynecology, 2015, 213, S103-S114.	1.3	106
18	Magnetic and Photoresponsive Theranosomes: Translating Cell-Released Vesicles into Smart Nanovectors for Cancer Therapy. ACS Nano, 2013, 7, 4954-4966.	14.6	105

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19	Effect of varying the molecular weight of the MR contrast agent Gd-DTPA-polylysine on blood pharmacokinetics and enhancement patterns. Journal of Magnetic Resonance Imaging, 1994, 4, 381-388.	3.4	104
20	Liver positive enhancement after injection of superparamagnetic nanoparticles: Respective role of circulating and uptaken particles. Magnetic Resonance Imaging, 1997, 15, 1025-1031.	1.8	97
21	Nephrotoxicity of iodinated contrast media: From pathophysiology to prevention strategies. European Journal of Radiology, 2019, 116, 231-241.	2.6	94
22	Cell labeling with magnetic nanoparticles: Opportunity for magnetic cell imaging and cell manipulation. Journal of Nanobiotechnology, 2013, 11, S7.	9.1	91
23	Glucose-Receptor MR Imaging of Tumors: Study in Mice with PEGylated Paramagnetic Niosomes. Radiology, 2004, 231, 135-142.	7.3	88
24	In vivo cellular imaging of lymphocyte trafficking by MRI: A tumor model approach to cell-based anticancer therapy. Magnetic Resonance in Medicine, 2006, 56, 498-508.	3.0	88
25	The Lateral Hypothalamic Area Controls Paradoxical (REM) Sleep by Means of Descending Projections to Brainstem GABAergic Neurons. Journal of Neuroscience, 2012, 32, 16763-16774.	3.6	85
26	Ventromedial medulla inhibitory neuron inactivation induces REM sleep without atonia and REM sleep behavior disorder. Nature Communications, 2018, 9, 504.	12.8	85
27	Giant Vesicles Containing Magnetic Nanoparticles and Quantum Dots: Feasibility and Tracking by Fiber Confocal Fluorescence Microscopy. Angewandte Chemie - International Edition, 2007, 46, 5421-5424.	13.8	84
28	Natural language processing of radiology reports for the detection of thromboembolic diseases and clinically relevant incidental findings. BMC Bioinformatics, 2014, 15, 266.	2.6	81
29	Early modifications of hepatic perfusion measured by functional CT in a rat model of hepatocellular carcinoma using a blood pool contrast agent. European Radiology, 2004, 14, 2125-2133.	4.5	79
30	Lymph node imaging: Basic principles. European Journal of Radiology, 2006, 58, 338-344.	2.6	77
31	MR lymphography using iron oxide nanoparticles in rats: Pharmacokinetics in the lymphatic system after intravenous injection. Journal of Magnetic Resonance Imaging, 2000, 12, 734-739.	3.4	76
32	Immediate reactions following iodinated contrast media injection: A study of 38 cases. European Journal of Radiology, 2011, 77, 495-501.	2.6	68
33	Placental Perfusion and Permeability: Simultaneous Assessment with Dual-Echo Contrast-enhanced MR Imaging in Mice. Radiology, 2006, 241, 737-745.	7.3	63
34	Placental Perfusion MR Imaging with Contrast Agents in a Mouse Model. Radiology, 2005, 235, 73-80.	7.3	62
35	Incidence of Nephrogenic Systemic Fibrosis in Patients Undergoing Dialysis After Contrast-Enhanced Magnetic Resonance Imaging With Gadolinium-Based Contrast Agents. Investigative Radiology, 2014, 49, 109-115.	6.2	61
36	Thermoresponsive Gel Embedded with Adipose Stem-Cell-Derived Extracellular Vesicles Promotes Esophageal Fistula Healing in a Thermo-Actuated Delivery Strategy. ACS Nano, 2018, 12, 9800-9814.	14.6	60

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37	Maternofetal Pharmacokinetics of a Gadolinium Chelate Contrast Agent in Mice. Radiology, 2011, 258, 455-460.	7.3	58
38	Opening of the blood-brain barrier with an unfocused ultrasound device in rabbits. Journal of Neurosurgery, 2013, 119, 887-898.	1.6	57
39	Frequent and Widespread Vascular Abnormalities in Human Signal Transducer and Activator of Transcription 3 Deficiency. Circulation: Cardiovascular Genetics, 2012, 5, 25-34.	5.1	56
40	Immediate Hypersensitivity to Contrast Agents: The French 5-year CIRTACI Study. EClinicalMedicine, 2018, 1, 51-61.	7.1	55
41	Incorporating radiomics into clinical trials: expert consensus endorsed by the European Society of Radiology on considerations for data-driven compared to biologically driven quantitative biomarkers. European Radiology, 2021, 31, 6001-6012.	4.5	53
42	In vivo single cell detection of tumorâ€infiltrating lymphocytes with a clinical 1.5 Tesla MRI system. Magnetic Resonance in Medicine, 2008, 60, 1292-1297.	3.0	52
43	Design, Properties, and In Vivo Behavior of SuperÂparamagnetic Persistent Luminescence Nanohybrids. Small, 2015, 11, 2696-2704.	10.0	49
44	Comparison of Gd-EOB-DTPA and Gd-DTPA for contrast-enhanced MR imaging of liver tumors. Journal of Magnetic Resonance Imaging, 1993, 3, 71-77.	3.4	48
45	Prevalence of nephrogenic systemic fibrosis in renal insufficiency patients: Results of the FINEST study. European Journal of Radiology, 2010, 73, 357-359.	2.6	45
46	Comprehensive model for simultaneous MRI determination of perfusion and permeability using a blood-pool agent in rats rhabdomyosarcoma. European Radiology, 2005, 15, 2497-2505.	4.5	44
47	Late adverse reactions to intravascular iodine based contrast media: an update. European Radiology, 2011, 21, 2305-2310.	4.5	43
48	Assessment of human placental perfusion by intravoxel incoherent motion MR imaging. Journal of Maternal-Fetal and Neonatal Medicine, 2019, 32, 293-300.	1.5	43
49	A gerbil model for rhombencephalitis due toListeria monocytogenes. Microbial Pathogenesis, 1997, 23, 39-48.	2.9	42
50	Can Magnetic Targeting of Magnetically Labeled Circulating Cells Optimize Intramyocardial Cell Retention?. Cell Transplantation, 2012, 21, 679-691.	2.5	41
51	In vivo cellular imaging of magnetically labeled hybridomas in the spleen with a 1.5-T clinical MRI system. Magnetic Resonance in Medicine, 2004, 52, 73-79.	3.0	40
52	New criteria for assessing fit quality in dynamic contrast-enhancedT1-weighted MRI for perfusion and permeability imaging. Magnetic Resonance in Medicine, 2005, 54, 868-877.	3.0	40
53	Netrin-4 promotes mural cell adhesion and recruitment to endothelial cells. Vascular Cell, 2014, 6, 1.	0.2	39
54	Endothelial Cellâ€“derived Microparticles Loaded with Iron Oxide Nanoparticles: Feasibility of MR Imaging Monitoring in Mice. Radiology, 2012, 263, 169-178.	7.3	38

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55	Nanohybrids with Magnetic and Persistent Luminescence Properties for Cell Labeling, Tracking, In Vivo Realâ€Time Imaging, and Magnetic Vectorization. Small, 2018, 14, e1800020.	10.0	38
56	Cell Sheet Transplantation for Esophageal Stricture Prevention after Endoscopic Submucosal Dissection in a Porcine Model. PLoS ONE, 2016, 11, e0148249.	2.5	37
57	Accuracy of perfusion MRI with high spatial but low temporal resolution to assess invasive breast cancer response to neoadjuvant chemotherapy: a retrospective study. BMC Cancer, 2011, 11, 361.	2.6	35
58	Considerations for the clinical use of contrast agents for cellular MRI in regenerative medicine. Contrast Media and Molecular Imaging, 2013, 8, 439-455.	0.8	34
59	Use of Intravoxel Incoherent Motion MR Imaging to Assess Placental Perfusion in a Murine Model of Placental Insufficiency. Investigative Radiology, 2013, 48, 17-23.	6.2	34
60	Magnetic Targeting of Rhodamine-Labeled Superparamagnetic Liposomes to Solid Tumors: In Vivo Tracking by Fibered Confocal Fluorescence Microscopy. Molecular Imaging, 2007, 6, 7290.2007.00004.	1.4	33
61	Iodine-based contrast media, multiple myeloma and monoclonal gammopathies: literature review and ESUR Contrast Media Safety Committee guidelines. European Radiology, 2018, 28, 683-691.	4.5	33
62	Fetoplacental Oxygenation in an Intrauterine Growth Restriction Rat Model by Using Blood Oxygen Levelâ€“Dependent MR Imaging at 4.7 T. Radiology, 2013, 269, 122-129.	7.3	32
63	Magnetic targeting of iron-oxide-labeled fluorescent hepatoma cells to the liver. European Radiology, 2009, 19, 1087-1096.	4.5	28
64	Bone marrow-derived mesenchymal stem cell-loaded fibrin patches act as a reservoir of paracrine factors in chronic myocardial infarction. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 3417-3427.	2.7	28
65	Safety aspects and pharmacokinetics of inhaled aerosolized gadolinium. Journal of Magnetic Resonance Imaging, 1993, 3, 125-130.	3.4	27
66	Realâ€time highâ€resolution magnetic resonance tracking of macrophage subpopulations in a murine inflammation model: a pilot study with a commercially available cryogenic probe. Contrast Media and Molecular Imaging, 2013, 8, 193-203.	0.8	27
67	Adipose Tissue Macrophages: MR Tracking to Monitor Obesity-associated Inflammation. Radiology, 2012, 263, 786-793.	7.3	26
68	Detection of zonal renal ischemia with contrast-enhanced MR imaging with a macromolecular blood pool contrast agent. Journal of Magnetic Resonance Imaging, 1992, 2, 311-319.	3.4	25
69	Local administration of stem cell-derived extracellular vesicles in a thermoresponsive hydrogel promotes a pro-healing effect in a rat model of colo-cutaneous post-surgical fistula. Nanoscale, 2021, 13, 218-232.	5.6	25
70	Capillary leakage of a macromolecular MRI agent, carboxymethyldextran-Gd-DTPA, in the liver: Pharmacokinetics and imaging implications. Magnetic Resonance Imaging, 1996, 14, 381-390.	1.8	24
71	Phenotypic Study of Human Gingival Fibroblasts Labeled With Superparamagnetic Anionic Nanoparticles. Journal of Periodontology, 2006, 77, 238-247.	3.4	24
72	Measurement of Placental Perfusion by Dynamic Contrast-Enhanced MRI at 4.7 T. Investigative Radiology, 2013, 48, 535-542.	6.2	22

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73	Designing 3D Mesenchymal Stem Cell Sheets Merging Magnetic and Fluorescent Features: When Cell Sheet Technology Meets Image-Guided Cell Therapy. Theranostics, 2016, 6, 739-751.	10.0	22
74	Succinate detection using in vivo 1H-MR spectroscopy identifies germline and somatic SDHx mutations in paragangliomas. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 1510-1517.	6.4	22
75	Overview of Contrast Enhancement with Iron Oxides. Investigative Radiology, 1994, 29, S75-S77.	6.2	21
76	Hepatocyte Targeting with Gd-EOB-DTPA. Investigative Radiology, 2001, 36, 9-14.	6.2	21
77	Signal-to-Noise Ratio Improvement in Dynamic Contrast-enhanced CT and MR Imaging with Automated Principal Component Analysis Filtering. Radiology, 2011, 258, 435-445.	7.3	20
78	Chelated or dechelated gadolinium deposition. Lancet Neurology, The, 2017, 16, 955.	10.2	19
79	Deconvolution Technique for Measuring Tissue Perfusion by Dynamic CT. Academic Radiology, 2002, 9, S205-S211.	2.5	18
80	Macromolecular Capillary Leakage Is Involved in the Onset of Anaphylactic Hypotension. Anesthesiology, 2012, 117, 1072-1079.	2.5	18
81	The Inhibition of the Dorsal Paragigantocellular Reticular Nucleus Induces Waking and the Activation of All Adrenergic and Noradrenergic Neurons: A Combined Pharmacological and Functional Neuroanatomical Study. PLoS ONE, 2014, 9, e96851.	2.5	18
82	Mechanisms of Action of Liver Contrast Agents: Impact for Clinical Use. Journal of Computer Assisted Tomography, 1999, 23, S45-S52.	0.9	15
83	In vivo imaging of transplanted hepatocytes with a 1.5-T clinical MRI systemâ€"initial experience in mice. European Radiology, 2008, 18, 59-69.	4.5	15
84	Assessment of Placental Perfusion in the Preeclampsia L-NAME Rat Model with High-Field Dynamic Contrast-Enhanced MRI. Fetal Diagnosis and Therapy, 2018, 44, 277-284.	1.4	14
85	Kidney and contrast media: Common viewpoint of the French Nephrology societies (SFNDT, FIRN, CJN) and the French Radiological Society (SFR) following ESUR guidelines. Diagnostic and Interventional Imaging, 2021, 102, 131-139.	3.2	14
86	Human Erythrocytes Covered with Magnetic Coreâ€"Shell Nanoparticles for Multimodal Imaging. Advanced Healthcare Materials, 2013, 2, 1209-1212.	7.6	13
87	Highly cohesive dual nanoassemblies for complementary multiscale bioimaging. Journal of Materials Chemistry B, 2014, 2, 7747-7755.	5.8	13
88	Measurement of liver blood volume using a macromolecular MRI contrast agent at equilibrium. Magnetic Resonance Imaging, 1997, 15, 415-421.	1.8	11
89	Metformin and Contrast Media. Radiology, 2010, 256, 672-673.	7.3	11
90	Assessing Perfusion and Capillary Permeability Changes Induced by a VEGF Inhibitor in Human Tumor Xenografts using Macromolecular MR Imaging Contrast Media. Academic Radiology, 2002, 9, S328-S329.	2.5	10

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91	Extracellular vesicles from adipose stromal cells combined with a thermoresponsive hydrogel prevent esophageal stricture after extensive endoscopic submucosal dissection in a porcine model. Nanoscale, 2021, 13, 14866-14878.	5.6	10
92	ADSC-sheet Transplantation to Prevent Stricture after Extended Esophageal Endoscopic Submucosal Dissection. Journal of Visualized Experiments, 2017, , .	0.3	9
93	Magnetic targeting of rhodamine-labeled superparamagnetic liposomes to solid tumors: in vivo tracking by fibered confocal fluorescence microscopy. Molecular Imaging, 2007, 6, 140-6.	1.4	9
94	Functional Imaging of Tumors Using CT and Iodinated Contrast Media of Different Molecular Weights. Academic Radiology, 2002, 9, S212-S214.	2.5	5
95	In vivo Imaging of Tumor Angiogenesis using Fluorescence Confocal Videomicroscopy. Journal of Visualized Experiments, 2013, , .	0.3	5
96	Acute Adverse Reactions to Contrast Media: Mechanisms and Prevention. Medical Radiology, 2014, , 51-60.	0.1	5
97	Evaluation of a new model of hind limb ischemia in rabbits. Journal of Vascular Surgery, 2018, 68, 849-857.	1.1	5
98	Human placental perfusion measured using dynamic contrast enhancement MRI. PLoS ONE, 2021, 16, e0256769.	2.5	5
99	Immediate and Late Adverse Reactions to Iodinated Contrast Media: A Pharmacological Point of View. Anti-Inflammatory and Anti-Allergy Agents in Medicinal Chemistry, 2006, 5, 105-117.	1.1	4
100	Non-invasive assessment of placental perfusion in vivo using arterial spin labeling (ASL) MRI: A preclinical study in rats. Placenta, 2019, 77, 39-45.	1.5	4
101	The rete mirabile of the eel: A useful model for the study of transcapillary passage of MR contrast agents. Journal of Magnetic Resonance Imaging, 1999, 9, 353-361.	3.4	3
102	Evaluation of Rat Heart Microvasculature with High-Spatial-Resolution Susceptibility-weighted MR Imaging. Radiology, 2013, 269, 277-282.	7.3	3
103	Enhancing digestive fistula healing by the off-label use of a thermoresponsive vessel occluder polymer associated with esophageal stent placement: A case report. Clinics and Research in Hepatology and Gastroenterology, 2021, 45, 101474.	1.5	3
104	Gadolinium Retention: What Do We Know?. Radiology, 2021, 301, 211401.	7.3	3
105	Science to Practice: Dual Contrast-enhanced MR Imaging to Monitor for Rejection of Pancreatic Islet Transplantation?. Radiology, 2013, 266, 693-694.	7.3	2
106	Antitumoral Effect of Mural Cells Assessed With High-Resolution MRI and Fluorescence Microscopy. American Journal of Roentgenology, 2015, 205, W11-W18.	2.2	2
107	A Newly Designed Enterocutaneous Esophageal Fistula Model in the Pig. Surgical Innovation, 2016, 23, 221-228.	0.9	2
108	Can We Monitor Cell Therapy with MR Imaging at Clinical Field Strength after Systemic Injection?. Radiology, 2005, 234, 3-3.	7.3	1

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109	HypersensibilitÃ© immÃ©diate auxÂproduits deÂcontraste. Sang Thrombose Vaisseaux, 2010, 22, 429-433.	0.1	1
110	Brainstem structures involved in rapid eye movement sleep behavior disorder. Sleep and Biological Rhythms, 2013, 11, 9-14.	1.0	1
111	Multiparametric optical and MR imaging demonstrate inhibition of tumor angiogenesis natural history by mural cell therapy. Magnetic Resonance in Medicine, 2014, 72, 841-849.	3.0	1
112	Hepatic vein thrombosis associated with segmental hypo-attenuation in the liver: an unusual complication of a haemodialysis catheter. Internal and Emergency Medicine, 2015, 10, 531-532.	2.0	1
113	Tumor Imaging. , 0, , 277-309.		0
114	Jejunojejunal intussusception after polypectomy by spiral enteroscopy in Peutzâ€“Jeghers syndrome. Endoscopy, 2015, 47, E540-E541.	1.8	0
115	Dynamic contrast enhanced â€“ MRI efficiency in detecting embolization-induced perfusion defects in a rabbit model of critical-limb-ischemia. Magnetic Resonance Imaging, 2022, 87, 88-96.	1.8	0
116	Full-field optical coherence tomography for the diagnosis of giant cell arteritis. , 2020, 15, e0234165.		0
117	Full-field optical coherence tomography for the diagnosis of giant cell arteritis. , 2020, 15, e0234165.		0
118	Full-field optical coherence tomography for the diagnosis of giant cell arteritis. , 2020, 15, e0234165.		0
119	Full-field optical coherence tomography for the diagnosis of giant cell arteritis. , 2020, 15, e0234165.		0
120	Lumbar Spine Posttherapeutic Imaging. Seminars in Musculoskeletal Radiology, 2022, 26, 314-328.	0.7	0