

Xavier Montet

List of Publications by Year in descending order

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105
papers

4,847
citations

101496

36
h-index

98753

67
g-index

109
all docs

109
docs citations

109
times ranked

8113
citing authors

#	ARTICLE	IF	CITATIONS
1	Gut Microbiota Orchestrates Energy Homeostasis during Cold. <i>Cell</i> , 2015, 163, 1360-1374.	13.5	581
2	Multivalent Effects of RGD Peptides Obtained by Nanoparticle Display. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 6087-6093.	2.9	355
3	Microbiota depletion promotes browning of white adipose tissue and reduces obesity. <i>Nature Medicine</i> , 2015, 21, 1497-1501.	15.2	324
4	Nanoparticle Imaging of Integrins on Tumor Cells. <i>Neoplasia</i> , 2006, 8, 214-222.	2.3	226
5	Computed tomography of the chest with model-based iterative reconstruction using a radiation exposure similar to chest X-ray examination: preliminary observations. <i>European Radiology</i> , 2013, 23, 360-366.	2.3	188
6	Tomographic Fluorescence Mapping of Tumor Targets. <i>Cancer Research</i> , 2005, 65, 6330-6336.	0.4	176
7	Interaction of Functionalized Superparamagnetic Iron Oxide Nanoparticles with Brain Structures. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 318, 108-116.	1.3	168
8	Imaging Pancreatic Cancer with a Peptide-Nanoparticle Conjugate Targeted to Normal Pancreas. <i>Bioconjugate Chemistry</i> , 2006, 17, 905-911.	1.8	145
9	Targeting Vascular NADPH Oxidase 1 Blocks Tumor Angiogenesis through a PPAR α Mediated Mechanism. <i>PLoS ONE</i> , 2011, 6, e14665.	1.1	128
10	Tomographic Fluorescence Imaging of Tumor Vascular Volume in Mice. <i>Radiology</i> , 2007, 242, 751-758.	3.6	115
11	Insertion of Nanoparticle Clusters into Vesicle Bilayers. <i>ACS Nano</i> , 2014, 8, 3451-3460.	7.3	82
12	Surgical management of adrenal metastases. <i>Langenbeck's Archives of Surgery</i> , 2012, 397, 179-194.	0.8	76
13	Nanoparticles for the Optical Imaging of Tumor selectin. <i>Neoplasia</i> , 2005, 7, 904-911.	2.3	69
14	Adapting anatomy teaching to surgical trends: a combination of classical dissection, medical imaging, and 3D-printing technologies. <i>Surgical and Radiologic Anatomy</i> , 2016, 38, 361-367.	0.6	67
15	Ultrasound diagnosis of anterior iliopsoas impingement in total hip replacement. <i>Skeletal Radiology</i> , 2004, 33, 112-116.	1.2	65
16	Clot-Based Radiomics Predict a Mechanical Thrombectomy Strategy for Successful Recanalization in Acute Ischemic Stroke. <i>Stroke</i> , 2020, 51, 2488-2494.	1.0	63
17	Incidental adrenal lesions detected on enhanced abdominal dual-energy CT: Can the diagnostic workup be shortened by the implementation of virtual unenhanced images?. <i>European Journal of Radiology</i> , 2014, 83, 1746-1751.	1.2	57
18	Low-dose computed tomography for the diagnosis of pneumonia in elderly patients: a prospective, interventional cohort study. <i>European Respiratory Journal</i> , 2018, 51, 1702375.	3.1	56

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19	Simultaneous fluorescence imaging of protease expression and vascularity during murine colonoscopy for colonic lesion characterization. <i>Gastrointestinal Endoscopy</i> , 2006, 64, 589-597.	0.5	52
20	Inflow effect correction in fast gradient-echo perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 885-891.	1.9	51
21	Hepatic PTEN deficiency improves muscle insulin sensitivity and decreases adiposity in mice. <i>Journal of Hepatology</i> , 2015, 62, 421-429.	1.8	49
22	Participation in lung cancer screening programs: are there gender and social differences? A systematic review. <i>Public Health Reviews</i> , 2018, 39, 23.	1.3	49
23	Ectopic UCP1 Overexpression in White Adipose Tissue Improves Insulin Sensitivity in Lou/C Rats, a Model of Obesity Resistance. <i>Diabetes</i> , 2015, 64, 3700-3712.	0.3	48
24	What is the diagnostic performance of 18-FDG-PET/MR compared to PET/CT for the N- and M- staging of breast cancer?. <i>European Radiology</i> , 2019, 29, 1787-1798.	2.3	48
25	Magnetic Resonance Imaging With Hepatospecific Contrast Agents in Cirrhotic Rat Livers. <i>Investigative Radiology</i> , 2005, 40, 187-194.	3.5	47
26	Diagnostic accuracy of digitized periapical radiographs validated against micro-computed tomography scanning in evaluating orthodontically induced apical root resorption. <i>European Journal of Oral Sciences</i> , 2008, 116, 467-472.	0.7	47
27	Differentiating kidney stones from phleboliths in unenhanced low-dose computed tomography using radiomics and machine learning. <i>European Radiology</i> , 2019, 29, 4776-4782.	2.3	47
28	Noninvasive Measurement of Absolute Renal Perfusion by Contrast Medium-Enhanced Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2003, 38, 584-592.	3.5	46
29	Kinetics of Gadobenate Dimeglumine in Isolated Perfused Rat Liver: MR Imaging Evaluation. <i>Radiology</i> , 2003, 229, 119-125.	3.6	45
30	Clinical utility of 18F-FDG-PET/MR for preoperative breast cancer staging. <i>European Radiology</i> , 2016, 26, 2297-2307.	2.3	45
31	Model-Based Iterative Reconstruction (MBIR) for the Reduction of Metal Artifacts on CT. <i>American Journal of Roentgenology</i> , 2015, 205, 380-385.	1.0	44
32	Cell Internalization of Magnetic Nanoparticles Using Transfection Agents. <i>Molecular Imaging</i> , 2007, 6, 7290.2006.00028.	0.7	43
33	Molecular imaging by micro-CT: specific E-selectin imaging. <i>European Radiology</i> , 2009, 19, 2487-2494.	2.3	42
34	Improved Visualization of Vessels and Hepatic Tumors by Micro-Computed Tomography (CT) Using Iodinated Liposomes. <i>Investigative Radiology</i> , 2007, 42, 652-658.	3.5	41
35	High-resolution sonography of compressive neuropathies of the wrist. <i>Journal of Clinical Ultrasound</i> , 2004, 32, 451-461.	0.4	40
36	High-Resolution Magnetic Resonance Imaging Quantitatively Detects Individual Pancreatic Islets. <i>Diabetes</i> , 2011, 60, 2853-2860.	0.3	38

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37	Radiomics and Machine Learning Differentiate Soft-Tissue Lipoma and Liposarcoma Better than Musculoskeletal Radiologists. <i>Sarcoma</i> , 2020, 2020, 1-9.	0.7	38
38	Transfection Agent Induced Nanoparticle Cell Loading. <i>Molecular Imaging</i> , 2005, 4, 153535002005051.	0.7	37
39	In vivo labelling of resting monocytes in the reticuloendothelial system with fluorescent iron oxide nanoparticles prior to injury reveals that they are mobilized to infarcted myocardium. <i>European Heart Journal</i> , 2010, 31, 1410-1420.	1.0	37
40	Accuracy of cone-beam computed tomography for syndesmosis injury diagnosis compared to conventional computed tomography. <i>Foot and Ankle Surgery</i> , 2020, 26, 265-272.	0.8	36
41	Superparamagnetic nanoparticles - a tool for early diagnostics. <i>Swiss Medical Weekly</i> , 2010, 140, w13081.	0.8	36
42	The Empty Azygos Fissure. <i>Journal of Radiology Case Reports</i> , 2013, 7, 10-5.	0.2	34
43	Respiratory-Gated MRgHIFU in Upper Abdomen Using an MR-Compatible In-Bore Digital Camera. <i>BioMed Research International</i> , 2014, 2014, 1-9.	0.9	33
44	Imaging of fractures of the lateral process of the talus, a frequently missed diagnosis. <i>European Journal of Radiology</i> , 2003, 47, 64-70.	1.2	32
45	Macrophage migration inhibitory factor deficiency leads to age-dependent impairment of glucose homeostasis in mice. <i>Journal of Endocrinology</i> , 2010, 206, 297-306.	1.2	30
46	The Lou/C rat: a model of spontaneous food restriction associated with improved insulin sensitivity and decreased lipid storage in adipose tissue. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 296, E1120-E1132.	1.8	29
47	Experimental noninferiority trial of synthetic small-caliber biodegradable versus stable vascular grafts. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2013, 146, 400-407.e1.	0.4	28
48	DIEP flap for breast reconstruction: Is Abdominal fat thickness associated with post-operative complications?. <i>Journal of Plastic, Reconstructive and Aesthetic Surgery</i> , 2017, 70, 1068-1075.	0.5	28
49	Magnetic Resonance-Guided Shielding of Prefocal Acoustic Obstacles in Focused Ultrasound Therapy. <i>Investigative Radiology</i> , 2013, 48, 366-380.	3.5	27
50	Urinary stone detection and characterisation with dual-energy CT urography after furosemide intravenous injection: preliminary results. <i>European Radiology</i> , 2014, 24, 709-714.	2.3	27
51	Hyaluronic Acid Filler in HIV-Associated Facial Lipoatrophy: Evaluation of Tissue Distribution and Morphology with MRI. <i>Dermatology</i> , 2015, 230, 367-374.	0.9	27
52	Intramuscular ganglion arising from the acromioclavicular joint. <i>Clinical Imaging</i> , 2004, 28, 109-112.	0.8	25
53	Pancreatic magnetic resonance imaging after manganese injection distinguishes type 2 diabetic and normoglycemic patients. <i>Islets</i> , 2012, 4, 243-248.	0.9	24
54	Targeting GLP-1 receptors for repeated magnetic resonance imaging differentiates graded losses of pancreatic beta cells in mice. <i>Diabetologia</i> , 2015, 58, 304-312.	2.9	24

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55	Radiological findings of complications after lung transplantation. <i>Insights Into Imaging</i> , 2018, 9, 709-719.	1.6	24
56	Sonographic and MRI appearance of tensor fasciae suralis muscle, an uncommon cause of popliteal swelling. <i>Skeletal Radiology</i> , 2002, 31, 536-538.	1.2	23
57	Female Hydrocele: The Cyst of Nuck. <i>Urologia Internationalis</i> , 2009, 82, 242-245.	0.6	22
58	Genetic Ablation of MiR-22 Fosters Diet-Induced Obesity and NAFLD Development. <i>Journal of Personalized Medicine</i> , 2020, 10, 170.	1.1	21
59	Orthodontically induced cervical root resorption in humans is associated with the amount of tooth movement. <i>European Journal of Orthodontics</i> , 2017, 39, 534-540.	1.1	20
60	Mild hyperthermia by MR-guided focused ultrasound in an ex vivo model of osteolytic bone tumour: optimization of the spatio-temporal control of the delivered temperature. <i>Journal of Translational Medicine</i> , 2019, 17, 350.	1.8	20
61	Treatment with direct-acting antivirals improves peripheral insulin sensitivity in non-diabetic, lean chronic hepatitis C patients. <i>PLoS ONE</i> , 2019, 14, e0217751.	1.1	20
62	Enzyme-based visualization of receptor-ligand binding in tissues. <i>Laboratory Investigation</i> , 2006, 86, 517-525.	1.7	18
63	Model-Based Iterative Reconstruction Versus Adaptive Statistical Iterative Reconstruction in Low-Dose Abdominal CT for Urolithiasis. <i>American Journal of Roentgenology</i> , 2014, 203, 336-340.	1.0	18
64	Rational Use of CT-Scan for the Diagnosis of Pneumonia: Comparative Accuracy of Different Strategies. <i>Journal of Clinical Medicine</i> , 2019, 8, 514.	1.0	17
65	Mir-21 Suppression Promotes Mouse Hepatocarcinogenesis. <i>Cancers</i> , 2021, 13, 4983.	1.7	17
66	Generative Adversarial Networks Improve the Reproducibility and Discriminative Power of Radiomic Features. <i>Radiology: Artificial Intelligence</i> , 2020, 2, e190035.	3.0	16
67	Image quality of low mA CT pulmonary angiography reconstructed with model based iterative reconstruction versus standard CT pulmonary angiography reconstructed with filtered back projection: an equivalency trial. <i>European Radiology</i> , 2015, 25, 1665-1671.	2.3	15
68	Diagnosis of Urothelial Tumors With a Dedicated Dual-Source Dual-Energy MDCT Protocol: Preliminary Results. <i>American Journal of Roentgenology</i> , 2014, 202, W357-W364.	1.0	14
69	Periodontal parameters and cervical root resorption during orthodontic tooth movement. <i>Journal of Clinical Periodontology</i> , 2008, 35, 501-506.	2.3	13
70	Alterations in lipid metabolism and thermogenesis with emergence of brown adipocytes in white adipose tissue in diet-induced obesity-resistant Lou/C rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E1146-E1157.	1.8	13
71	Impact of iterative reconstructions on objective and subjective emphysema assessment with computed tomography: a prospective study. <i>European Radiology</i> , 2017, 27, 2950-2956.	2.3	13
72	Supraposition of unopposed molars in young and adult rats. <i>Archives of Oral Biology</i> , 2009, 54, 40-44.	0.8	12

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73	Fat suppression techniques for breast MRI: Dixon versus spectral fat saturation for 3D T1-weighted at 3ÅT. <i>Radiologia Medica</i> , 2017, 122, 731-742.	4.7	12
74	Evaluating the effect of increased pitch, iterative reconstruction and dual source CT on dose reduction and image quality. <i>British Journal of Radiology</i> , 2018, 91, 20170443.	1.0	12
75	Metallic artifact reduction by evaluation of the additional value of iterative reconstruction algorithms in hip prosthesis computed tomography imaging. <i>Medicine (United States)</i> , 2019, 98, e14341.	0.4	12
76	ECG-triggered high-pitch CT for simultaneous assessment of the aorta and coronary arteries. <i>Journal of Cardiovascular Computed Tomography</i> , 2016, 10, 407-413.	0.7	10
77	Assessment of intra-articular volume of the wrist: a comparative study between CT-arthrography and dissection. <i>Surgical and Radiologic Anatomy</i> , 2005, 27, 444-449.	0.6	9
78	Multivalent glibenclamide to generate islet specific imaging probes. <i>Biomaterials</i> , 2016, 75, 1-12.	5.7	9
79	Dual-energy computed tomographic imaging of pulmonary hypertension. <i>Swiss Medical Weekly</i> , 2016, 146, w14328.	0.8	9
80	An Albumin-Activated Far-Red Fluorochrome for InÅ€...Vivo Imaging. <i>ChemMedChem</i> , 2006, 1, 66-69.	1.6	8
81	Å%ochographie desÅnerfs desÅmembres infÅ©rieurs. <i>Revue Du Rhumatisme (Edition Francaise)</i> , 2007, 74, 415-423.	0.0	7
82	A New MDCT Technique for the Detection and Anatomical Exploration of Urogenital Fistulas. <i>American Journal of Roentgenology</i> , 2012, 198, W160-W162.	1.0	7
83	Standardized fluoroscopyÅbased technique to measure intraoperative cup anteversion. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2307-2312.	1.2	7
84	Low Iodine Contrast Injection for CT Acquisition Prior to Transcatheter Aortic Valve Replacement: Aorta Assessment and Screening for Coronary Artery Disease. <i>Academic Radiology</i> , 2019, 26, e150-e160.	1.3	7
85	Value of liver computed tomography with iodixanol 270, 80 kVp and iterative reconstruction. <i>World Journal of Radiology</i> , 2016, 8, 693.	0.5	7
86	Long-Term Survival with Regorafenib in KRAS-Mutated Metastatic Rectal Cancer. <i>Case Reports in Oncology</i> , 2018, 10, 1029-1034.	0.3	6
87	Wet avalanches: long-term evolution in the Western Alps under climate and human forcing. <i>Climate of the Past</i> , 2018, 14, 1299-1313.	1.3	6
88	Iterative Algorithms Applied to Treated Intracranial Aneurysms. <i>Clinical Neuroradiology</i> , 2019, 29, 741-749.	1.0	6
89	Pulmonary Perfusion Changes as Assessed by Contrast-Enhanced Dual-Energy Computed Tomography after Endoscopic Lung Volume Reduction by Coils. <i>Respiration</i> , 2016, 92, 404-413.	1.2	5
90	CT vaginography: a new CT technique for imaging of upper and middle vaginal fistulas. <i>British Journal of Radiology</i> , 2017, 90, 20160947.	1.0	5

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91	Prostatic Utricle Cyst as the Most Likely Cause in a Case of Recurrent Episodes of Hematospermia. Case Reports in Urology, 2017, 2017, 1-3.	0.1	5
92	Imaging patterns of Pneumocystis jirovecii pneumonia in HIV-positive and renal transplant patients â€“ a multicentre study. Swiss Medical Weekly, 2019, 149, w20130.	0.8	5
93	Ossifying metaplasia of urothelial metastases: original case with review of the literature. BMC Medical Imaging, 2015, 15, 30.	1.4	4
94	Emphysema quantification using hybrid versus model-based generations of iterative reconstruction. Medicine (United States), 2019, 98, e14450.	0.4	4
95	Gastrointestinal relapse of multiple myeloma and sustained response to lenalidomide: a case report. Journal of Medical Case Reports, 2011, 5, 110.	0.4	3
96	Classification of magnetic resonance images from rabbit renal perfusion. Chemometrics and Intelligent Laboratory Systems, 2009, 98, 173-181.	1.8	2
97	Colovesical fistula causing an uncommon reason for failure of computed tomography colonography: a case report. Journal of Medical Case Reports, 2012, 6, 214.	0.4	2
98	Ampullary micropapillary adenocarcinoma widely metastatic to the lymph nodes: A case report. Human Pathology: Case Reports, 2018, 14, 12-15.	0.2	2
99	Clitoral Anatomy, Physiology and Pathology Demystified by Imaging. Current Medical Imaging, 2018, 14, 366-373.	0.4	1
100	About a case of pulmonary blastoma. European Journal of Radiology Extra, 2004, 49, 17-21.	0.1	0
101	Tumor Imaging. , 0, , 277-309.		0
102	Approaches for Imaging Pancreatic Islets: Recent Advances and Future Prospects. , 2015, , 59-81.		0
103	Scintigraphic Identification of Gastric Tissue in a Mediastinal Mass. Clinical Nuclear Medicine, 2016, 41, 207-208.	0.7	0
104	MAGNETIC RESONANCE AND BIOLUMINESCENCE IMAGING MONITOR QUANTITATIVE DIFFERENCES IN PANCREATIC ISLETS AND THEIR REGENERATION AFTER BETA CELL LOSS. FASEB Journal, 2013, 27, 531.2.	0.2	0
105	Approaches for Imaging Pancreatic Islets: Recent Advances and Future Prospects. , 2014, , 1-21.		0