

# Nicolas Grenier

## List of Publications by Year in descending order

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65  
papers

4,262  
citations

117625

34  
h-index

128289

60  
g-index

68  
all docs

68  
docs citations

68  
times ranked

4668  
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of prostate systematic and targeted biopsy on the basis of multiparametric MRI in biopsy-naive patients (MRI-FIRST): a prospective, multicentre, paired diagnostic study. <i>Lancet Oncology</i> , The, 2019, 20, 100-109.	10.7	701
2	In Vivo MR Imaging of Intravascularly Injected Magnetically Labeled Mesenchymal Stem Cells in Rat Kidney and Liver. <i>Radiology</i> , 2004, 233, 781-789.	7.3	232
3	Diffusion tensor MRI of the human kidney. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 14, 42-49.	3.4	217
4	Supersonic Shear Wave Elastography of In Vivo Pig Kidney: Influence of Blood Pressure, Urinary Pressure and Tissue Anisotropy. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 1559-1567.	1.5	214
5	Renal diffusion and BOLD MRI in experimental diabetic nephropathy. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 17, 104-113.	3.4	209
6	Validation of quantitative BOLD MRI measurements in kidney: Application to unilateral ureteral obstruction. <i>Kidney International</i> , 2005, 67, 2305-2312.	5.2	149
7	Local hyperthermia with MR-guided focused ultrasound: Spiral trajectory of the focal point optimized for temperature uniformity in the target region. <i>Journal of Magnetic Resonance Imaging</i> , 2000, 12, 571-583.	3.4	140
8	MR thermometry for monitoring tumor ablation. <i>European Radiology</i> , 2007, 17, 2401-2410.	4.5	136
9	MR Evaluation of the Glomerular Homing of Magnetically Labeled Mesenchymal Stem Cells in a Rat Model of Nephropathy. <i>Radiology</i> , 2006, 238, 200-210.	7.3	133
10	Hyperthermia by MR-guided focused ultrasound: Accurate temperature control based on fast MRI and a physical model of local energy deposition and heat conduction. <i>Magnetic Resonance in Medicine</i> , 2000, 43, 342-347.	3.0	129
11	Three-dimensional spatial and temporal temperature control with MR thermometry-guided focused ultrasound (MRgHIFU). <i>Magnetic Resonance in Medicine</i> , 2009, 61, 603-614.	3.0	117
12	Quantitative elastography of renal transplants using supersonic shear imaging: a pilot study. <i>European Radiology</i> , 2012, 22, 2138-2146.	4.5	113
13	Automatic spatial and temporal temperature control for MR-guided focused ultrasound using fast 3D MR thermometry and multispiral trajectory of the focal point. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1005-1015.	3.0	101
14	Magnetic resonance imaging biomarkers for chronic kidney disease: a position paper from the European Cooperation in Science and Technology Action PARENCHIMA. <i>Nephrology Dialysis Transplantation</i> , 2018, 33, ii4-ii14.	0.7	91
15	Feasibility of MR-guided focused ultrasound with real-time temperature mapping and continuous sonication for ablation of VX2 carcinoma in rabbit thigh. <i>Magnetic Resonance in Medicine</i> , 2003, 49, 89-98.	3.0	90
16	Nephrotoxic Nephritis and Obstructive Nephropathy: Evaluation with MR Imaging Enhanced with Ultrasmall Superparamagnetic Iron Oxide—Preliminary Findings in a Rat Model. <i>Radiology</i> , 2000, 217, 819-826.	7.3	72
17	Real-Time Control of Focused Ultrasound Heating Based on Rapid MR Thermometry. <i>Investigative Radiology</i> , 1999, 34, 190-193.	6.2	72
18	Radiologic imaging of the renal parenchyma structure and function. <i>Nature Reviews Nephrology</i> , 2016, 12, 348-359.	9.6	71

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19	Consensus-based technical recommendations for clinical translation of renal BOLD MRI. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2020, 33, 199-215.	2.0	68
20	USPIO-enhanced MR imaging of macrophage infiltration in native and transplanted kidneys: initial results in humans. <i>European Radiology</i> , 2007, 17, 2898-2907.	4.5	64
21	Incidence of Nephrogenic Systemic Fibrosis in Patients Undergoing Dialysis After Contrast-Enhanced Magnetic Resonance Imaging With Gadolinium-Based Contrast Agents. <i>Investigative Radiology</i> , 2014, 49, 109-115.	6.2	61
22	De Novo Renal Tumors Arising in Kidney Transplants: Midterm Outcome after Percutaneous Thermal Ablation. <i>Radiology</i> , 2011, 260, 900-907.	7.3	55
23	Measurement of Glomerular Filtration Rate With Magnetic Resonance Imaging: Principles, Limitations, and Expectations. <i>Seminars in Nuclear Medicine</i> , 2008, 38, 47-55.	4.6	52
24	How accurate is dynamic contrast-enhanced MRI in the assessment of renal glomerular filtration rate? A critical appraisal. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 27, 925-931.	3.4	51
25	MR imaging of intrarenal macrophage infiltration in an experimental model of nephrotic syndrome. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 156-162.	3.0	50
26	Detection of intrarenal microstructural changes with supersonic shear wave elastography in rats. <i>European Radiology</i> , 2012, 22, 243-250.	4.5	49
27	Grayscale and Color Doppler Features of Testicular Lymphoma. <i>Journal of Ultrasound in Medicine</i> , 2015, 34, 1139-1145.	1.7	44
28	Is Multiparametric MRI Useful for Differentiating Oncocytomas From Chromophobe Renal Cell Carcinomas?. <i>American Journal of Roentgenology</i> , 2017, 208, 343-350.	2.2	44
29	Improvement of MRI functional measurement with automatic movement correction in native and transplanted kidneys. <i>Journal of Magnetic Resonance Imaging</i> , 2008, 28, 970-978.	3.4	41
30	Real-time Contrast-enhanced Transrectal US-guided Prostate Biopsy: Diagnostic Accuracy in Men with Previously Negative Biopsy Results and Positive MR Imaging Findings. <i>Radiology</i> , 2013, 269, 159-166.	7.3	41
31	Combined Late Gadolinium-Enhanced and Double-Echo Chemical-Shift MRI Help to Differentiate Renal Oncocytomas With High Central T2 Signal Intensity From Renal Cell Carcinomas. <i>American Journal of Roentgenology</i> , 2013, 200, 830-838.	2.2	36
32	Chronic Urinary Obstruction: Evaluation of Dynamic Contrast-enhanced MR Urography for Measurement of Split Renal Function. <i>Radiology</i> , 2014, 273, 801-812.	7.3	36
33	In vivo imaging of prostate cancer using an anti-PSMA scFv fragment as a probe. <i>Scientific Reports</i> , 2016, 6, 23314.	3.3	36
34	Non-invasive determination of tissue thermal parameters from high intensity focused ultrasound treatment monitored by volumetric MRI thermometry. <i>NMR in Biomedicine</i> , 2009, 22, 843-851.	2.8	35
35	Update of Renal Imaging. <i>Seminars in Nuclear Medicine</i> , 2006, 36, 3-15.	4.6	32
36	Percutaneous Cryoablation of Symptomatic Localized Venous Malformations: Preliminary Short-term Results. <i>Journal of Vascular and Interventional Radiology</i> , 2013, 24, 823-827.	0.5	32

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37	<i>In vivo</i> characterization of tissue thermal properties of the kidney during local hyperthermia induced by MR-guided high-intensity focused ultrasound. <i>NMR in Biomedicine</i> , 2011, 24, 799-806.	2.8	31
38	Mid-term outcomes after percutaneous cryoablation of symptomatic abdominal wall endometriosis: comparison with surgery alone in a single institution. <i>European Radiology</i> , 2017, 27, 4298-4306.	4.5	31
39	First-pass evaluation of renal perfusion with turboflash MR imaging and superparamagnetic iron oxide particles. <i>Journal of Magnetic Resonance Imaging</i> , 1993, 3, 83-91.	3.4	30
40	Contrast agents for functional and cellular MRI of the kidney. <i>European Journal of Radiology</i> , 2006, 60, 341-352.	2.6	28
41	Multiparametric Magnetic Resonance Imaging of Solid Renal Tumors: A Practical Algorithm. <i>Seminars in Ultrasound, CT and MRI</i> , 2017, 38, 47-58.	1.5	28
42	USPIO-Enhanced MR imaging of glycerol-induced acute renal failure in the rabbit. <i>Magnetic Resonance Imaging</i> , 1995, 13, 233-240.	1.8	27
43	Functional Renal Imaging: New Trends in Radiology and Nuclear Medicine. <i>Seminars in Nuclear Medicine</i> , 2011, 41, 61-72.	4.6	26
44	Radiology Imaging of Renal Structure and Function by Computed Tomography, Magnetic Resonance Imaging, and Ultrasound. <i>Seminars in Nuclear Medicine</i> , 2011, 41, 45-60.	4.6	25
45	Science to Practice: Can Diffusion-weighted MR Imaging Findings Be Used as Biomarkers to Monitor the Progression of Renal Fibrosis?. <i>Radiology</i> , 2010, 255, 667-668.	7.3	23
46	Prognostic imaging biomarkers for diabetic kidney disease (iBEAt): study protocol. <i>BMC Nephrology</i> , 2020, 21, 242.	1.8	22
47	Renal Functional Contrast-Enhanced Magnetic Resonance Imaging. <i>Investigative Radiology</i> , 2005, 40, 295-305.	6.2	21
48	Combination of Cell Delivery and Thermoinducible Transcription for in Vivo Spatiotemporal Control of Gene Expression: A Feasibility Study. <i>Radiology</i> , 2011, 258, 496-504.	7.3	20
49	Evaluation of experimentally induced renal hypoperfusion using iron oxide particles and fast magnetic resonance imaging. <i>Academic Radiology</i> , 1995, 2, 293-299.	2.5	19
50	Renal hemodynamics and oxygenation in transient renal artery occluded rats evaluated with iron-oxide particles and oxygenation-sensitive imaging. <i>Zeitschrift Fur Medizinische Physik</i> , 2010, 20, 134-142.	1.5	19
51	Imaging protocols for renal multiparametric MRI and MR urography: results of a consensus conference from the French Society of Genitourinary Imaging. <i>European Radiology</i> , 2020, 30, 2103-2114.	4.5	19
52	Evaluation of Intrarenal Distribution of Ultrasmall Superparamagnetic Iron Oxide Particles by Magnetic Resonance Imaging and Modification by Furosemide and Water Restriction. <i>Investigative Radiology</i> , 1994, 29, 540-546.	6.2	18
53	Rapid ELISA D-Dimer Testing in the Exclusion of Venous Thromboembolism in Hospitalized Patients. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2000, 6, 77-81.	1.7	16
54	Kidney and contrast media: Common viewpoint of the French Nephrology societies (SFNDT, FIRN, CJN) and the French Radiological Society (SFR) following ESUR guidelines. <i>Diagnostic and Interventional Imaging</i> , 2021, 102, 131-139.	3.2	14

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55	Diagnosis accuracy of a new challenger for thrombosis exclusion, the StratusÂ® CS DDMR. Clinica Chimica Acta, 2005, 354, 181-189.	1.1	9
56	Ultrasound Elastography of the Kidney. Ultrasound Clinics, 2013, 8, 551-564.	0.2	9
57	Principles and basic concepts of molecular imaging. Pediatric Radiology, 2011, 41, 144-160.	2.0	8
58	Molecular Magnetic Resonance Imaging of the Genitourinary Tract: Recent Results and Future Directions. Magnetic Resonance Imaging Clinics of North America, 2008, 16, 627-641.	1.1	1
59	Renal Transplantation: Epidemiological, Clinical, Radiological and Surgical Considerations. , 2008, , 51-98.		1
60	Ultrasound-Induced Expression of a Heat Shock Promoter-Driven Transgene Delivered in the Kidney by Genetically Modified Mesenchymal Stem Cells. , 2007, , 171-179.		1
61	Other Organs. , 0, , 311-332.		0
62	Functional Imaging of the Kidney. Medical Radiology, 2010, , 845-869.	0.1	0
63	Research Perspectives and Future Trends in Renal Imaging. Medical Radiology, 2010, , 879-896.	0.1	0
64	Elastography of the Kidney. , 2021, , 227-238.		0
65	Research Perspectives and Future Trends in Renal Imaging. Medical Radiology, 2014, , 871-887.	0.1	0