

Nikolaos Papanikolaou

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

3,113
citations

159585

30
h-index

161849

54
g-index

92
all docs

92
docs citations

92
times ranked

3181
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiomics/Radiogenomics in Lung Cancer: Basic Principles and Initial Clinical Results. <i>Cancers</i> , 2022, 14, 1657.	3.7	15
2	Comparison of MRI Features of Fat Fraction and ADC for Early Treatment Response Assessment in Participants with Multiple Myeloma. <i>Radiology</i> , 2022, 304, 137-144.	7.3	18
3	Machine learning in predicting extracapsular extension (ECE) of prostate cancer with MRI: a protocol for a systematic literature review. <i>BMJ Open</i> , 2022, 12, e052342.	1.9	1
4	Discrimination of Tumor Texture Based on MRI Radiomic Features: Is There a Volume Threshold? A Phantom Study. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5465.	2.5	2
5	A multicenter study on radiomic features from T2-weighted images of a customized MR pelvic phantom setting the basis for robust radiomic models in clinics. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 1713-1726.	3.0	22
6	Improving performance and generalizability in radiogenomics: a pilot study for prediction of IDH1/2 mutation status in gliomas with multicentric data. <i>Journal of Medical Imaging</i> , 2021, 8, 031905.	1.5	5
7	Breast cancer surgery with augmented reality. <i>Breast</i> , 2021, 56, 14-17.	2.2	34
8	Radiomics in Oncology: A Practical Guide. <i>Radiographics</i> , 2021, 41, 1717-1732.	3.3	139
9	Diffusion-weighted imaging and texture analysis: current role for diffuse liver disease. <i>Abdominal Radiology</i> , 2020, 45, 3523-3531.	2.1	9
10	UniProt-Related Documents (UniReD): assisting wet lab biologists in their quest on finding novel counterparts in a protein network. <i>NAR Genomics and Bioinformatics</i> , 2020, 2, lqaa005.	3.2	8
11	CT-Based Radiomics Analysis to Predict Malignancy in Patients with Intraductal Papillary Mucinous Neoplasm (IPMN) of the Pancreas. <i>Cancers</i> , 2020, 12, 3089.	3.7	32
12	New boundaries of liver imaging: from morphology to function. <i>European Journal of Internal Medicine</i> , 2020, 79, 12-22.	2.2	2
13	Quantification of tumor burden in multiple myeloma by atlas-based semi-automatic segmentation of WB-DWI. <i>Cancer Imaging</i> , 2020, 20, 6.	2.8	16
14	How to develop a meaningful radiomic signature for clinical use in oncologic patients. <i>Cancer Imaging</i> , 2020, 20, 33.	2.8	110
15	Interpretable artificial intelligence framework for COVID-19 screening on chest X-rays. <i>Experimental and Therapeutic Medicine</i> , 2020, 20, 727-735.	1.8	85
16	Advancing Covid-19 differentiation with a robust preprocessing and integration of multi-institutional open repository computer tomography datasets for deep learning analysis. <i>Experimental and Therapeutic Medicine</i> , 2020, 20, 1-1.	1.8	10
17	Artificial intelligence radiogenomics for advancing precision and effectiveness in oncologic care (Review). <i>International Journal of Oncology</i> , 2020, 57, 43-53.	3.3	49
18	Diffusion tensor-based fiber tracking of the male urethral sphincter complex in patients undergoing radical prostatectomy: a feasibility study. <i>Insights Into Imaging</i> , 2020, 11, 126.	3.4	0

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19	Perfusion Magnetic Resonance as a Biomarker for Sorafenib-Treated Advanced Hepatocellular Carcinoma: A Pilot Study. <i>GE Portuguese Journal of Gastroenterology</i> , 2019, 26, 260-267.	0.8	4
20	Sparse Representations on DW-MRI: A Study on Pancreas. , 2019, , .		0
21	Challenges and Promises of Radiomics for Rectal Cancer. <i>Current Colorectal Cancer Reports</i> , 2019, 15, 175-180.	0.5	6
22	Automatic Detection and Segmentation of Lung Lesions using Deep Residual CNNs. , 2019, , .		4
23	Functional and molecular MRI of the bone marrow in multiple myeloma. <i>British Journal of Radiology</i> , 2018, 91, 20170389.	2.2	25
24	Correlation between quantitative and semiquantitative parameters in DCE-MRI with a blood pool agent in rectal cancer: can semiquantitative parameters be used as a surrogate for quantitative parameters?. <i>Abdominal Radiology</i> , 2017, 42, 1342-1349.	2.1	14
25	Thin isotropic FLAIR MR images at 1.5T increase the yield of focal cortical dysplasia transmantle sign detection in frontal lobe epilepsy. <i>Epilepsy Research</i> , 2017, 132, 1-7.	1.6	14
26	Diffusion weighted imaging in patients with rectal cancer: Comparison between Gaussian and non-Gaussian models. <i>PLoS ONE</i> , 2017, 12, e0184197.	2.5	6
27	Apparent Diffusion Coefficient Quantification in Determining the Histological Diagnosis of Malignant Liver Lesions. <i>Journal of Cancer</i> , 2016, 7, 730-735.	2.5	14
28	Addressing Intravoxel Incoherent Motion challenges through an optimized fitting framework for quantification of perfusion. , 2016, , .		0
29	Fiber tracking: A qualitative and quantitative comparison between four different software tools on the reconstruction of major white matter tracts. <i>European Journal of Radiology Open</i> , 2016, 3, 153-161.	1.6	49
30	Diffusion-weighted MR imaging of pancreatic cancer: A comparison of mono-exponential, bi-exponential and non-Gaussian kurtosis models. <i>European Journal of Radiology Open</i> , 2016, 3, 79-85.	1.6	27
31	Evidence for APOBEC3B mRNA and protein expression in oral squamous cell carcinomas. <i>Experimental and Molecular Pathology</i> , 2016, 101, 314-319.	2.1	10
32	Visualizing tumor environment with perfusion and diffusion MRI. , 2016, , .		2
33	Prognostic value of preoperative dynamic contrast-enhanced MRI perfusion parameters for high-grade glioma patients. <i>Neuroradiology</i> , 2016, 58, 1197-1208.	2.2	45
34	Diffusion Modelling Tool (DMT) for the analysis of Diffusion Weighted Imaging (DWI) Magnetic Resonance Imaging (MRI) data. , 2016, , .		7
35	Thrombocytopenia in critically ill patients with severe sepsis/septic shock: Prognostic value and association with a distinct serum cytokine profile. <i>Journal of Critical Care</i> , 2016, 32, 9-15.	2.2	50
36	Role of Magnetic Resonance Imaging in Primary Rectal Cancer – Standard Protocol and Beyond. <i>Seminars in Ultrasound, CT and MRI</i> , 2016, 37, 323-330.	1.5	8

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37	Automated and Semiautomated Segmentation of Rectal Tumor Volumes on Diffusion-Weighted MRI: Can It Replace Manual Volumetry?. International Journal of Radiation Oncology Biology Physics, 2016, 94, 824-831.	0.8	50
38	Magnetization transfer imaging to assess tumour response after chemoradiotherapy in rectal cancer. European Radiology, 2016, 26, 390-397.	4.5	13
39	Whole-liver diffusion-weighted MRI histogram analysis. European Journal of Gastroenterology and Hepatology, 2015, 27, 399-404.	1.6	10
40	Magnetization Transfer Ratio. Investigative Radiology, 2014, 49, 29-34.	6.2	30
41	A software prototype for the assessment of tumor treatment response using diffusion and perfusion MR imaging. , 2012, 2012, 388-91.		1
42	Comparison between two-point and four-point methods for quantification of apparent diffusion coefficient of normal liver parenchyma and focal lesions. Value of normalization with spleen. European Journal of Radiology, 2010, 73, 305-309.	2.6	51
43	Crohn's disease lymphadenopathy: MR imaging findings. European Journal of Radiology, 2009, 69, 425-428.	2.6	45
44	Respiratory gated diffusion-weighted imaging of the liver: value of apparent diffusion coefficient measurements in the differentiation between most commonly encountered benign and malignant focal liver lesions. European Radiology, 2008, 18, 486-492.	4.5	220
45	Preoperative Imaging Staging of Rectal Cancer. Digestive Diseases, 2007, 25, 20-32.	1.9	35
46	Myocardial and liver iron status using a fastT2* quantitative MRI (T2*qMRI) technique. Magnetic Resonance in Medicine, 2007, 57, 742-753.	3.0	34
47	Experimental determination of the effect of detector size on profile measurements in narrow photon beams. Medical Physics, 2006, 33, 3700-3710.	3.0	64
48	3D polymer gel dosimetry using a 3D (DESS) and a 2D MultiEcho SE (MESE) sequence. Journal of Physics: Conference Series, 2006, 56, 259-262.	0.4	0
49	Use of polymer gel dosimetry for the determination of the detector size effect on profile measurements of a 5 mm diameter photon beam. Journal of Physics: Conference Series, 2006, 56, 245-248.	0.4	1
50	Fractional anisotropy and mean diffusivity measurements on normal human brain: comparison between low- and high-resolution diffusion tensor imaging sequences. European Radiology, 2006, 16, 187-192.	4.5	35
51	Imaging of small intestinal Crohn's disease: comparison between MR enteroclysis and conventional enteroclysis. European Radiology, 2006, 16, 1915-1925.	4.5	150
52	Magnetic resonance imaging evaluation of small intestinal Crohn's disease. Bailliere's Best Practice and Research in Clinical Gastroenterology, 2006, 20, 137-156.	2.4	72
53	Dark Lumen MR Colonography: Can High Spatial Resolution VIBE Imaging Improve the Detection of Colorectal Masses?. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2006, 178, 1073-1078.	1.3	4
54	Complementary role of helical CT cholangiography to MR cholangiography in the evaluation of biliary function and kinetics. European Radiology, 2005, 15, 2130-2139.	4.5	14

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55	Quantification of magnetization transfer rate and native T1 relaxation time of the brain: correlation with magnetization transfer ratio measurements in patients with multiple sclerosis. <i>Neuroradiology</i> , 2005, 47, 189-196.	2.2	30
56	Magnetic Resonance Enteroclysis. <i>Seminars in Ultrasound, CT and MRI</i> , 2005, 26, 237-246.	1.5	39
57	T2 relaxation time analysis in patients with multiple sclerosis: correlation with magnetization transfer ratio. <i>European Radiology</i> , 2004, 14, 115-122.	4.5	47
58	Assessment of Crohn's disease activity in the small bowel with MR and conventional enteroclysis: preliminary results. <i>European Radiology</i> , 2004, 14, 1017-1024.	4.5	172
59	Real-time high-resolution MRI for the assessment of gastric motility: Pre- and postpharmacological stimuli. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 19, 453-458.	3.4	35
60	Real time high resolution magnetic resonance imaging for the assessment of gastric motility disorders. <i>Gut</i> , 2004, 53, 1256-1261.	12.1	108
61	MR colonography with fecal tagging: comparison between 2D turbo FLASH and 3D FLASH sequences. <i>European Radiology</i> , 2003, 13, 448-452.	4.5	21
62	Detection of malignant bone marrow involvement with dynamic contrast-enhanced magnetic resonance imaging. <i>Annals of Oncology</i> , 2003, 14, 152-158.	1.2	58
63	Transtympanic Iontophoresis with a Biocompatible Paramagnetic Solution at MR Imaging: Experimental Feasibility Study in Rabbits. <i>Radiology</i> , 2002, 223, 689-694.	7.3	1
64	Biexponential T2 Relaxation Time Analysis of the Brain. <i>Investigative Radiology</i> , 2002, 37, 363-367.	6.2	24
65	Technical Challenges and Clinical Applications of Magnetic Resonance Enteroclysis. <i>Topics in Magnetic Resonance Imaging</i> , 2002, 13, 397-408.	1.2	20
66	Optimization of a contrast medium suitable for conventional enteroclysis, MR enteroclysis, and virtual MR enteroscopy. <i>Abdominal Imaging</i> , 2002, 27, 517-522.	2.0	27
67	Development of contrast-enhanced virtual MR cholangioscopy: a feasibility study. <i>European Radiology</i> , 2002, 12, 1438-1441.	4.5	14
68	Hepatic involvement in hereditary hemorrhagic telangiectasia (Rendu-Osler-Weber disease). <i>European Radiology</i> , 2002, 12, S51-S55.	4.5	23
69	MR enteroclysis: technical considerations and clinical applications. <i>European Radiology</i> , 2002, 12, 2651-2658.	4.5	156
70	Contrast-Enhanced Magnetic Resonance Cholangiography Versus Heavily T2-Weighted Magnetic Resonance Cholangiography. <i>Investigative Radiology</i> , 2001, 36, 682-686.	6.2	38
71	Increased signal intensity on fat-suppressed three-dimensional T1-weighted pulse sequences in patellar tendon: magic angle effect?. <i>Skeletal Radiology</i> , 2001, 30, 67-71.	2.0	21
72	T2-weighted magnetic resonance imaging of the liver: comparison of fat-suppressed GRASE with conventional spin echo, fat-suppressed turbo spin echo, and gradient echo at 1.0 T. <i>Abdominal Imaging</i> , 2001, 26, 139-145.	2.0	6

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73	MR enteroclysis protocol optimization: comparison between 3D FLASH with fat saturation after intravenous gadolinium injection and true FISP sequences. <i>European Radiology</i> , 2001, 11, 908-913.	4.5	98
74	MR Enteroclysis Imaging of Crohn Disease. <i>Radiographics</i> , 2001, 21, S161-S172.	3.3	183
75	Deformity of the Superior Mesenteric Vein. <i>American Journal of Roentgenology</i> , 2001, 176, 1600-1601.	2.2	0
76	MR Imaging of the Small Bowel with a True-FISP Sequence After Enteroclysis with Water Solution. <i>Investigative Radiology</i> , 2000, 35, 707-711.	6.2	87
77	Comparison of dual spin echo echo planar imaging (SE_EPI), turbo spin echo with fat suppression and conventional dual spin echo sequences for T2-weighted MR imaging of focal liver lesions. <i>Magnetic Resonance Imaging</i> , 2000, 18, 715-719.	1.8	10
78	Comparison of echo planar imaging, gradient echo and fast spin echo MR scans of knee menisci. <i>Computerized Medical Imaging and Graphics</i> , 2000, 24, 309-316.	5.8	6
79	Single-shot turbo spin-echo MR myelography: comparison with 3D-turbo spin-echo MR myelography and T2-turbo spin-echo at 1T. <i>Computerized Medical Imaging and Graphics</i> , 2000, 24, 37-42.	5.8	4
80	Blueberry juice used per os in upper abdominal MR imaging: composition and initial clinical data. <i>European Radiology</i> , 2000, 10, 909-913.	4.5	56
81	Non-invasive myocardial iron assessment in thalassaemic patients: T2 relaxometry and magnetization transfer ratio measurements. <i>Acta Radiologica</i> , 2000, 41, 348-351.	1.1	28
82	MR Cholangiopancreatography Before and After Oral Blueberry Juice Administration. <i>Journal of Computer Assisted Tomography</i> , 2000, 24, 229-234.	0.9	52
83	MR Imaging of the Liver Using an Ultrafast 3D Multi-Shot EPI Sequence. <i>Acta Radiologica</i> , 1999, 40, 322-325.	1.1	2
84	Comparison of T1-weighted spin-echo and 3D T1-weighted multi-shot echo planar pulse sequences in imaging the brain at 1T. <i>Magnetic Resonance Imaging</i> , 1999, 17, 663-668.	1.8	3
85	Magnetic resonance cholangiopancreatography: Comparison between respiratory-triggered turbo spin echo and breath hold single-shot turbo spin echo sequences. <i>Magnetic Resonance Imaging</i> , 1999, 17, 1255-1260.	1.8	23
86	MR cholangiopancreatography at 0.5 T with a 3D inversion recovery turbo-spin-echo sequence. <i>European Radiology</i> , 1997, 7, 1318-1322.	4.5	4
87	Acute subarachnoid haemorrhage: detection with magnetic resonance imaging. <i>British Journal of Radiology</i> , 1996, 69, 601-609.	2.2	22
88	Bone marrow lesions: evaluation with fat-suppression turbo spin echo MR imaging at 0.5 T. <i>European Radiology</i> , 1996, 6, 895-9.	4.5	2
89	Cyclopia and exadactyly: CT and MRI findings. <i>Dentomaxillofacial Radiology</i> , 0, 28, 372-374.	2.7	0