

# Maryellen Lissak Giger

## List of Publications by Year in descending order

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350  
papers

17,123  
citations

12597

71  
h-index

21239

119  
g-index

361  
all docs

361  
docs citations

361  
times ranked

12731  
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial intelligence in cancer imaging: Clinical challenges and applications. <i>Ca-A Cancer Journal for Clinicians</i> , 2019, 69, 127-157.	157.7	965
2	Deep learning in medical imaging and radiation therapy. <i>Medical Physics</i> , 2019, 46, e1-e36.	1.6	513
3	Digital mammographic tumor classification using transfer learning from deep convolutional neural networks. <i>Journal of Medical Imaging</i> , 2016, 3, 034501.	0.8	391
4	MR Imaging Radiomics Signatures for Predicting the Risk of Breast Cancer Recurrence as Given by Research Versions of MammaPrint, Oncotype DX, and PAM50 Gene Assays. <i>Radiology</i> , 2016, 281, 382-391.	3.6	387
5	Machine Learning in Medical Imaging. <i>Journal of the American College of Radiology</i> , 2018, 15, 512-520.	0.9	383
6	Computerized Detection of Pulmonary Nodules on CT Scans. <i>Radiographics</i> , 1999, 19, 1303-1311.	1.4	343
7	A Fuzzy C-Means (FCM)-Based Approach for Computerized Segmentation of Breast Lesions in Dynamic Contrast-Enhanced MR Images <sup>1</sup> . <i>Academic Radiology</i> , 2006, 13, 63-72.	1.3	316
8	Improving breast cancer diagnosis with computer-aided diagnosis. <i>Academic Radiology</i> , 1999, 6, 22-33.	1.3	306
9	A deep feature fusion methodology for breast cancer diagnosis demonstrated on three imaging modality datasets. <i>Medical Physics</i> , 2017, 44, 5162-5171.	1.6	292
10	Volumetric texture analysis of breast lesions on contrast-enhanced magnetic resonance images. <i>Magnetic Resonance in Medicine</i> , 2007, 58, 562-571.	1.9	270
11	Quantitative MRI radiomics in the prediction of molecular classifications of breast cancer subtypes in the TCGA/TCIA data set. <i>Npj Breast Cancer</i> , 2016, 2, .	2.3	266
12	Lung Cancer: Performance of Automated Lung Nodule Detection Applied to Cancers Missed in a CT Screening Program. <i>Radiology</i> , 2002, 225, 685-692.	3.6	264
13	Anniversary Paper: History and status of CAD and quantitative image analysis: The role of <i>Medical Physics</i> and AAPM. <i>Medical Physics</i> , 2008, 35, 5799-5820.	1.6	250
14	Quantitative Analysis of Multiparametric Prostate MR Images: Differentiation between Prostate Cancer and Normal Tissue and Correlation with Gleason Score—A Computer-aided Diagnosis Development Study. <i>Radiology</i> , 2013, 267, 787-796.	3.6	229
15	Image feature analysis and computer-aided diagnosis in digital radiography. 3. Automated detection of nodules in peripheral lung fields. <i>Medical Physics</i> , 1988, 15, 158-166.	1.6	218
16	Automated detection of lung nodules in CT scans: Preliminary results. <i>Medical Physics</i> , 2001, 28, 1552-1561.	1.6	217
17	Digital image subtraction of temporally sequential chest images for detection of interval change. <i>Medical Physics</i> , 1994, 21, 453-461.	1.6	190
18	Computerized lesion detection on breast ultrasound. <i>Medical Physics</i> , 2002, 29, 1438-1446.	1.6	186

#	ARTICLE	IF	CITATIONS
19	Automatic identification and classification of characteristic kinetic curves of breast lesions on DCE-MRI. <i>Medical Physics</i> , 2006, 33, 2878-2887.	1.6	184
20	Computerized diagnosis of breast lesions on ultrasound. <i>Medical Physics</i> , 2002, 29, 157-164.	1.6	183
21	Computerized detection of masses in digital mammograms: Analysis of bilateral subtraction images. <i>Medical Physics</i> , 1991, 18, 955-963.	1.6	181
22	Computerized Detection of Pulmonary Nodules in Computed Tomography Images. <i>Investigative Radiology</i> , 1994, 29, 459-465.	3.5	180
23	Automated computerized classification of malignant and benign masses on digitized mammograms. <i>Academic Radiology</i> , 1998, 5, 155-168.	1.3	178
24	Breast Image Analysis for Risk Assessment, Detection, Diagnosis, and Treatment of Cancer. <i>Annual Review of Biomedical Engineering</i> , 2013, 15, 327-357.	5.7	175
25	Cancerous Breast Lesions on Dynamic Contrast-enhanced MR Images: Computerized Characterization for Image-based Prognostic Markers. <i>Radiology</i> , 2010, 254, 680-690.	3.6	172
26	Computerized analysis of breast lesions in three dimensions using dynamic magnetic-resonance imaging. <i>Medical Physics</i> , 1998, 25, 1647-1654.	1.6	171
27	Computerized interpretation of breast MRI: Investigation of enhancement-variance dynamics. <i>Medical Physics</i> , 2004, 31, 1076-1082.	1.6	169
28	Cell Distance Mapping Identifies Functional T Follicular Helper Cells in Inflamed Human Renal Tissue. <i>Science Translational Medicine</i> , 2014, 6, 230ra46.	5.8	162
29	Automatic segmentation of breast lesions on ultrasound. <i>Medical Physics</i> , 2001, 28, 1652-1659.	1.6	159
30	Multifractal radiographic analysis of osteoporosis. <i>Medical Physics</i> , 1994, 21, 503-508.	1.6	158
31	Analysis of spiculation in the computerized classification of mammographic masses. <i>Medical Physics</i> , 1995, 22, 1569-1579.	1.6	155
32	Computerized detection of clustered microcalcifications in digital mammograms using a shift-invariant artificial neural network. <i>Medical Physics</i> , 1994, 21, 517-524.	1.6	145
33	Investigation of basic imaging properties in digital radiography. I. Modulation transfer function. <i>Medical Physics</i> , 1984, 11, 287-295.	1.6	142
34	Breast Cancer: Effectiveness of Computer-aided Diagnosisâ€”Observer Study with Independent Database of Mammograms. <i>Radiology</i> , 2002, 224, 560-568.	3.6	138
35	Quantitative imaging biomarkers: A review of statistical methods for computer algorithm comparisons. <i>Statistical Methods in Medical Research</i> , 2015, 24, 68-106.	0.7	137
36	Investigation of basic imaging properties in digital radiography. 2. Noise Wiener spectrum. <i>Medical Physics</i> , 1984, 11, 797-805.	1.6	134

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37	Deciphering Genomic Underpinnings of Quantitative MRI-based Radiomic Phenotypes of Invasive Breast Carcinoma. <i>Scientific Reports</i> , 2015, 5, 17787.	1.6	134
38	Computerized detection of clustered microcalcifications in digital mammograms: Applications of artificial neural networks. <i>Medical Physics</i> , 1992, 19, 555-560.	1.6	132
39	Development of an improved CAD scheme for automated detection of lung nodules in digital chest images. <i>Medical Physics</i> , 1997, 24, 1395-1403.	1.6	132
40	Effect of case selection on the performance of computer-aided detection schemes. <i>Medical Physics</i> , 1994, 21, 265-269.	1.6	129
41	Prediction of clinical phenotypes in invasive breast carcinomas from the integration of radiomics and genomics data. <i>Journal of Medical Imaging</i> , 2015, 2, 041007.	0.8	126
42	Automatic segmentation of liver structure in CT images. <i>Medical Physics</i> , 1993, 20, 71-78.	1.6	125
43	Computerized detection of masses in digital mammograms: Automated alignment of breast images and its effect on bilateral-subtraction technique. <i>Medical Physics</i> , 1994, 21, 445-452.	1.6	125
44	Automated segmentation of digitized mammograms. <i>Academic Radiology</i> , 1995, 2, 1-9.	1.3	120
45	Computerized Analysis of Digitized Mammograms of BRCA1 and BRCA2 Gene Mutation Carriers. <i>Radiology</i> , 2002, 225, 519-526.	3.6	119
46	Exploring nonlinear feature space dimension reduction and data representation in breast CADx with Laplacian eigenmaps and t-SNE. <i>Medical Physics</i> , 2010, 37, 339-351.	1.6	118
47	Artificial intelligence in the interpretation of breast cancer on MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1310-1324.	1.9	116
48	Guest editorial computer-aided diagnosis in medical imaging. <i>IEEE Transactions on Medical Imaging</i> , 2001, 20, 1205-1208.	5.4	112
49	Computerized Texture Analysis of Mammographic Parenchymal Patterns of Digitized Mammograms <sup>1</sup> . <i>Academic Radiology</i> , 2005, 12, 863-873.	1.3	103
50	An improved shift-invariant artificial neural network for computerized detection of clustered microcalcifications in digital mammograms. <i>Medical Physics</i> , 1996, 23, 595-601.	1.6	98
51	Computerized detection and classification of cancer on breast ultrasound <sup>1</sup> . <i>Academic Radiology</i> , 2004, 11, 526-535.	1.3	98
52	Classification of Breast Lesions with Multimodality Computer-aided Diagnosis: Observer Study Results on an Independent Clinical Data Set. <i>Radiology</i> , 2006, 240, 357-368.	3.6	98
53	PROSTATEx Challenges for computerized classification of prostate lesions from multiparametric magnetic resonance images. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	98
54	Computerized analysis of mammographic parenchymal patterns for assessing breast cancer risk: Effect of ROI size and location. <i>Medical Physics</i> , 2004, 31, 549-555.	1.6	96

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55	Investigation of basic imaging properties in digital radiography. 6. MTFs of II-TV digital imaging systems. Medical Physics, 1985, 12, 713-720.	1.6	94
56	Computer-aided detection of clustered microcalcifications on digital mammograms. Medical and Biological Engineering and Computing, 1995, 33, 174-178.	1.6	92
57	A dual-stage method for lesion segmentation on digital mammograms. Medical Physics, 2007, 34, 4180-4193.	1.6	92
58	Automated lung segmentation in digitized posteroanterior chest radiographs. Academic Radiology, 1998, 5, 245-255.	1.3	89
59	Performance of computer-aided diagnosis in the interpretation of lesions on breast sonography. Academic Radiology, 2004, 11, 272-280.	1.3	87
60	Comparison of Bilateral-Subtraction and Single-Image Processing Techniques in the Computerized Detection of Mammographic Masses. Investigative Radiology, 1993, 28, 473-481.	3.5	86
61	Fractal Analysis of Mammographic Parenchymal Patterns in Breast Cancer Risk Assessment. Academic Radiology, 2007, 14, 513-521.	1.3	86
62	A deep learning methodology for improved breast cancer diagnosis using multiparametric MRI. Scientific Reports, 2020, 10, 10536.	1.6	86
63	Ideal observer approximation using Bayesian classification neural networks. IEEE Transactions on Medical Imaging, 2001, 20, 886-899.	5.4	85
64	Computerized mass detection for digital breast tomosynthesis directly from the projection images. Medical Physics, 2006, 33, 482-491.	1.6	85
65	Automated Breast Ultrasound in Breast Cancer Screening of Women With Dense Breasts: Reader Study of Mammography-Negative and Mammography-Positive Cancers. American Journal of Roentgenology, 2016, 206, 1341-1350.	1.0	85
66	Computerized detection of pulmonary nodules in digital chest images: Use of morphological filters in reducing false-positive detections. Medical Physics, 1990, 17, 861-865.	1.6	84
67	An improved computer-assisted diagnostic scheme using wavelet transform for detecting clustered microcalcifications in digital mammograms. Academic Radiology, 1996, 3, 621-627.	1.3	83
68	COMPUTER-AIDED DETECTION AND DIAGNOSIS OF BREAST CANCER. Radiologic Clinics of North America, 2000, 38, 725-740.	0.9	80
69	LUNGx Challenge for computerized lung nodule classification. Journal of Medical Imaging, 2016, 3, 044506.	0.8	80
70	Computerized analysis of mammographic parenchymal patterns for breast cancer risk assessment: Feature selection. Medical Physics, 2000, 27, 4-12.	1.6	78
71	Image Feature Analysis of False-Positive Diagnoses Produced by Automated Detection of Lung Nodules. Investigative Radiology, 1992, 27, 587-597.	3.5	75
72	Validation of Quantitative Analysis of Multiparametric Prostate MR Images for Prostate Cancer Detection and Aggressiveness Assessment: A Cross-Imager Study. Radiology, 2014, 271, 461-471.	3.6	72

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73	Computerized classification of benign and malignant masses on digitized mammograms: A study of robustness. <i>Academic Radiology</i> , 2000, 7, 1077-1084.	1.3	71
74	Computerized analysis of images in the detection and diagnosis of breast cancer. <i>Seminars in Ultrasound, CT and MRI</i> , 2004, 25, 411-418.	0.7	70
75	Transfer Learning From Convolutional Neural Networks for Computer-Aided Diagnosis: A Comparison of Digital Breast Tomosynthesis and Full-Field Digital Mammography. <i>Academic Radiology</i> , 2019, 26, 735-743.	1.3	70
76	Computer-Aided Diagnosis in Radiology. <i>Academic Radiology</i> , 2002, 9, 1-3.	1.3	67
77	Digital Mammography in Breast Cancer: Additive Value of Radiomics of Breast Parenchyma. <i>Radiology</i> , 2019, 291, 15-20.	3.6	66
78	Computerized analysis of lesions in US images of the breast. <i>Academic Radiology</i> , 1999, 6, 665-674.	1.3	63
79	Artificial Intelligence: reshaping the practice of radiological sciences in the 21st century. <i>British Journal of Radiology</i> , 2020, 93, 20190855.	1.0	63
80	Measurement of the presampling modulation transfer function of film digitizers using a curve fitting technique. <i>Medical Physics</i> , 1990, 17, 962-966.	1.6	61
81	Variation in algorithm implementation across radiomics software. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	60
82	Robustness of Computerized Lesion Detection and Classification Scheme across Different Breast US Platforms. <i>Radiology</i> , 2005, 237, 834-840.	3.6	58
83	DCEMRI of breast lesions: Is kinetic analysis equally effective for both mass and nonmass-like enhancement?. <i>Medical Physics</i> , 2008, 35, 3102-3109.	1.6	58
84	Using computer-extracted image phenotypes from tumors on breast magnetic resonance imaging to predict breast cancer pathologic stage. <i>Cancer</i> , 2016, 122, 748-757.	2.0	58
85	A review of explainable and interpretable AI with applications in COVID-19 imaging. <i>Medical Physics</i> , 2022, 49, 1-14.	1.6	58
86	Investigation of basic imaging properties in digital radiography. 7. Noise Wiener spectra of II-TV digital imaging systems. <i>Medical Physics</i> , 1986, 13, 131-138.	1.6	56
87	Computer-aided diagnosis in chest radiology. <i>Journal of Thoracic Imaging</i> , 1990, 5, 67-76.	0.8	56
88	Computer-Aided Diagnosis in Mammography. , 0, , 915-1004.		55
89	Use of clinical MRI maximum intensity projections for improved breast lesion classification with deep convolutional neural networks. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	54
90	Computer-aided detection of clustered microcalcifications: An improved method for grouping detected signals. <i>Medical Physics</i> , 1993, 20, 1661-1666.	1.6	53

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91	Deep learning in breast cancer risk assessment: evaluation of convolutional neural networks on a clinical dataset of full-field digital mammograms. <i>Journal of Medical Imaging</i> , 2017, 4, 1.	0.8	53
92	Computerized characterization of mammographic masses: analysis of spiculation. <i>Cancer Letters</i> , 1994, 77, 201-211.	3.2	52
93	Power Spectral Analysis of Mammographic Parenchymal Patterns for Breast Cancer Risk Assessment. <i>Journal of Digital Imaging</i> , 2008, 21, 145-152.	1.6	51
94	Guest Editorial: LUNGx Challenge for computerized lung nodule classification: reflections and lessons learned. <i>Journal of Medical Imaging</i> , 2015, 2, 020103.	0.8	51
95	Most-enhancing tumor volume by MRI radiomics predicts recurrence-free survival in early-stage neoadjuvant treatment of breast cancer. <i>Cancer Imaging</i> , 2018, 18, 12.	1.2	51
96	Multimodality Computer-Aided Breast Cancer Diagnosis with FFDM and DCE-MRI. <i>Academic Radiology</i> , 2010, 17, 1158-1167.	1.3	50
97	Reduction of false positives in computerized detection of lung nodules in chest radiographs using artificial neural networks, discriminant analysis, and a rule-based scheme. <i>Journal of Digital Imaging</i> , 1994, 7, 196-207.	1.6	49
98	Breast US Computer-aided Diagnosis Workstation: Performance with a Large Clinical Diagnostic Population. <i>Radiology</i> , 2008, 248, 392-397.	3.6	49
99	Radiogenomics of breast cancer using dynamic contrast enhanced MRI and gene expression profiling. <i>Cancer Imaging</i> , 2019, 19, 48.	1.2	48
100	Computerized Assessment of Breast Lesion Malignancy using DCE-MRI. <i>Academic Radiology</i> , 2010, 17, 822-829.	1.3	47
101	Feature selection with limited datasets. <i>Medical Physics</i> , 1999, 26, 2176-2182.	1.6	46
102	Comparison of Breast MRI Tumor Classification Using Human-Engineered Radiomics, Transfer Learning From Deep Convolutional Neural Networks, and Fusion Methods. <i>Proceedings of the IEEE</i> , 2020, 108, 163-177.	16.4	45
103	Investigation of basic imaging properties in digital radiography. 3. Effect of pixel size on SNR and threshold contrast. <i>Medical Physics</i> , 1985, 12, 201-208.	1.6	44
104	Investigation of methods for the computerized detection and analysis of mammographic masses. <i>Proceedings of SPIE</i> , 1990, , .	0.8	44
105	Computerized analysis of shadowing on breast ultrasound for improved lesion detection. <i>Medical Physics</i> , 2003, 30, 1833-1842.	1.6	44
106	Relationships between computer-extracted mammographic texture pattern features and BRCA1/2 mutation status: a cross-sectional study. <i>Breast Cancer Research</i> , 2014, 16, 424.	2.2	44
107	Computerized Scheme for the Detection of Pulmonary Nodules. <i>Investigative Radiology</i> , 1992, 27, 124-129.	3.5	42
108	Computerized Analysis of Mammographic Parenchymal Patterns on a Large Clinical Dataset of Full-Field Digital Mammograms: Robustness Study with Two High-Risk Datasets. <i>Journal of Digital Imaging</i> , 2012, 25, 591-598.	1.6	41

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109	Additive Benefit of Radiomics Over Size Alone in the Distinction Between Benign Lesions and Luminal A Cancers on a Large Clinical Breast MRI Dataset. <i>Academic Radiology</i> , 2019, 26, 202-209.	1.3	41
110	Independent validation of machine learning in diagnosing breast Cancer on magnetic resonance imaging within a single institution. <i>Cancer Imaging</i> , 2019, 19, 64.	1.2	41
111	Potential Usefulness of Computerized Nodule Detection in Screening Programs for Lung Cancer. <i>Investigative Radiology</i> , 1992, 27, 471-475.	3.5	39
112	Multimodality Computerized Diagnosis of Breast Lesions Using Mammography and Sonography1. <i>Academic Radiology</i> , 2005, 12, 970-979.	1.3	38
113	Normal parenchymal enhancement patterns in women undergoing MR screening of the breast. <i>European Radiology</i> , 2011, 21, 1374-1382.	2.3	38
114	Evaluation of Clinical Breast MR Imaging Performed with Prototype Computer-aided Diagnosis Breast MR Imaging Workstation: Reader Study. <i>Radiology</i> , 2011, 258, 696-704.	3.6	37
115	Intelligent CAD workstation for breast imaging using similarity to known lesions and multiple visual prompt aids. , 2002, 4684, 768.		36
116	Computerized three-class classification of MRI-based prognostic markers for breast cancer. <i>Physics in Medicine and Biology</i> , 2011, 56, 5995-6008.	1.6	35
117	Automated Method for Improving System Performance of Computer-Aided Diagnosis in Breast Ultrasound. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 122-128.	5.4	34
118	Combined use of $T_2$ -weighted MRI and $T_1$ -weighted dynamic contrast-enhanced MRI in the automated analysis of breast lesions. <i>Magnetic Resonance in Medicine</i> , 2011, 66, 555-564.	1.9	34
119	Evaluation of Computer-aided Diagnosis on a Large Clinical Full-field Digital Mammographic Dataset. <i>Academic Radiology</i> , 2008, 15, 1437-1445.	1.3	33
120	Investigation of basic imaging properties in digital radiography. 13. Effect of simple structured noise on the detectability of simulated stenotic lesions. <i>Medical Physics</i> , 1989, 16, 14-21.	1.6	32
121	Harmonization of radiomic features of breast lesions across international DCE-MRI datasets. <i>Journal of Medical Imaging</i> , 2020, 7, 1.	0.8	32
122	Basic Imaging Properties of a Large Image Intensifier-TV Digital Chest Radiographic System. <i>Investigative Radiology</i> , 1987, 22, 328-335.	3.5	31
123	Breast image feature learning with adaptive deconvolutional networks. <i>Proceedings of SPIE</i> , 2012, , .	0.8	31
124	Comparative analysis of image-based phenotypes of mammographic density and parenchymal patterns in distinguishing between $BRCA1/2$ cases, unilateral cancer cases, and controls. <i>Journal of Medical Imaging</i> , 2014, 1, 031009.	0.8	31
125	Comparison of imaging properties of a computed radiography system and screen-film systems. <i>Medical Physics</i> , 1991, 18, 414-420.	1.6	30
126	Artificial Intelligence and Cellular Segmentation in Tissue Microscopy Images. <i>American Journal of Pathology</i> , 2021, 191, 1693-1701.	1.9	30



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127	Characterization of bone quality using computer-extracted radiographic features. <i>Medical Physics</i> , 1999, 26, 872-879.	1.6	29
128	Comparison of radiographic texture analysis from computed radiography and bone densitometry systems. <i>Medical Physics</i> , 2004, 31, 882-891.	1.6	29
129	Performance of Breast Ultrasound Computer-aided Diagnosis. <i>Academic Radiology</i> , 2008, 15, 1234-1245.	1.3	29
130	Breast MRI radiomics: comparison of computer- and human-extracted imaging phenotypes. <i>European Radiology Experimental</i> , 2017, 1, 22.	1.7	29
131	Combined Benefit of Quantitative Three-Compartment Breast Image Analysis and Mammography Radiomics in the Classification of Breast Masses in a Clinical Data Set. <i>Radiology</i> , 2019, 290, 621-628.	3.6	29
132	Investigation of basic imaging properties in digital radiography. 5. Characteristic curves of II-TV digital systems. <i>Medical Physics</i> , 1986, 13, 13-18.	1.6	28
133	Computer-Aided Diagnosis in Chest Radiography Preliminary Experience. <i>Investigative Radiology</i> , 1993, 28, 987-993.	3.5	28
134	Using quantitative image analysis to classify axillary lymph nodes on breast MRI: A new application for the Z 0011 Era. <i>European Journal of Radiology</i> , 2015, 84, 392-397.	1.2	28
135	Estimating three-class ideal observer decision variables for computerized detection and classification of mammographic mass lesions. <i>Medical Physics</i> , 2003, 31, 81-90.	1.6	27
136	Improved Classification of Benign and Malignant Breast Lesions Using Deep Feature Maximum Intensity Projection MRI in Breast Cancer Diagnosis Using Dynamic Contrast-enhanced MRI. <i>Radiology: Artificial Intelligence</i> , 2021, 3, e200159.	3.0	27
137	Computer aided diagnosis of breast cancer on mammograms. <i>Breast Cancer</i> , 1997, 4, 228-233.	1.3	26
138	Quantifying in situ adaptive immune cell cognate interactions in humans. <i>Nature Immunology</i> , 2019, 20, 503-513.	7.0	26
139	<title>Computer-aided detection and diagnosis of masses and clustered microcalcifications from digital mammograms</title>. , 1993, , .		25
140	Automated lung segmentation in digital lateral chest radiographs. <i>Medical Physics</i> , 1998, 25, 1507-1520.	1.6	25
141	Detection of lung nodules in digital chest radiographs using artificial neural networks: A pilot study. <i>Journal of Digital Imaging</i> , 1995, 8, 88-94.	1.6	24
142	Effect of dominant features on neural network performance in the classification of mammographic lesions. <i>Physics in Medicine and Biology</i> , 1999, 44, 2579-2595.	1.6	24
143	Breast US Computer-aided Diagnosis System: Robustness across Urban Populations in South Korea and the United States. <i>Radiology</i> , 2009, 253, 661-671.	3.6	24
144	Update on the potential of computer-aided diagnosis for breast cancer. <i>Future Oncology</i> , 2010, 6, 1-4.	1.1	24

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145	Computerized radiographic texture measures for characterizing bone strength: A simulated clinical setup using femoral neck specimens. <i>Medical Physics</i> , 1999, 26, 2295-2300.	1.6	23
146	Computer-Aided Diagnosis. , 2008, , 359-XXII.		23
147	Radiographic texture analysis of densitometric calcaneal images: Relationship to clinical characteristics and to bone fragility. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 56-63.	3.1	23
148	Level Set Segmentation of Breast Masses in Contrast-Enhanced Dedicated Breast CT and Evaluation of Stopping Criteria. <i>Journal of Digital Imaging</i> , 2014, 27, 237-247.	1.6	23
149	Investigation of basic imaging properties in digital radiography. 8. Detection of simulated low-contrast objects in digital subtraction angiographic images. <i>Medical Physics</i> , 1986, 13, 304-311.	1.6	22
150	Computerized detection of masses in digital mammograms: Investigation of feature-analysis techniques. <i>Journal of Digital Imaging</i> , 1994, 7, 18-26.	1.6	22
151	Potential of computer-aided diagnosis of high spectral and spatial resolution (HiSS) MRI in the classification of breast lesions. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 39, 59-67.	1.9	22
152	Bcl-2 as a Therapeutic Target in Human Tubulointerstitial Inflammation. <i>Arthritis and Rheumatology</i> , 2016, 68, 2740-2751.	2.9	22
153	Radiomics robustness assessment and classification evaluation: A two-stage method demonstrated on multivendor $\text{FFDM}$ . <i>Medical Physics</i> , 2019, 46, 2145-2156.	1.6	22
154	Prevalence Scaling. <i>Academic Radiology</i> , 2008, 15, 1446-1457.	1.3	21
155	Pilot study demonstrating potential association between breast cancer image-based risk phenotypes and genomic biomarkers. <i>Medical Physics</i> , 2014, 41, 031917.	1.6	21
156	Breast MRI radiomics for the pretreatment prediction of response to neoadjuvant chemotherapy in node-positive breast cancer patients. <i>Journal of Medical Imaging</i> , 2019, 6, 1.	0.8	21
157	Radiomics methodology for breast cancer diagnosis using multiparametric magnetic resonance imaging. <i>Journal of Medical Imaging</i> , 2020, 7, 044502.	0.8	21
158	Relationships between computer-extracted mammographic texture pattern features and. <i>Breast Cancer Research</i> , 2014, 16, 424.	2.2	21
159	Specific in situ inflammatory states associate with progression to renal failure in lupus nephritis. <i>Journal of Clinical Investigation</i> , 2022, 132, .	3.9	21
160	Simulation studies of data classification by artificial neural networks: Potential applications in medical imaging and decision making. <i>Journal of Digital Imaging</i> , 1993, 6, 117-125.	1.6	20
161	Computerized detection of breast cancer on automated breast ultrasound imaging of women with dense breasts. <i>Medical Physics</i> , 2013, 41, 012901.	1.6	20
162	Special Report of the RSNA COVID-19 Task Force: The Short- and Long-term Financial Impact of the COVID-19 Pandemic on Private Radiology Practices. <i>Radiology</i> , 2021, 298, E11-E18.	3.6	20

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163	Investigation of basic imaging properties in digital radiography. 10. Structure mottle of II-TV digital imaging systems. Medical Physics, 1986, 13, 843-849.	1.6	19
164	Computerized detection of abnormal asymmetry in digital chest radiographs. Medical Physics, 1994, 21, 1761-1768.	1.6	19
165	<title>Three-dimensional approach to lung nodule detection in helical CT</title>. , 1999, , .		19
166	A study of T2-weighted MR image texture features and diffusion-weighted MR image features for computer-aided diagnosis of prostate cancer. , 2013, , .		19
167	Effect of pixel size on detectability of low-contrast signals in digital radiography. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 966.	0.8	18
168		1.6	18
169	Segmentation of breast masses on dedicated breast computed tomography and three-dimensional breast ultrasound images. Journal of Medical Imaging, 2014, 1, 014501.	0.8	18
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