# Maryellen Lissak Giger

## List of Publications by Citations



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|---|---|---|---|
| 314 papers | 12,304 citations | 64 h-index | 101 g-index |
| 361 ext. papers | 14,659 ext. citations | 6.3 avg, IF | 6.64 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 314 | Artificial intelligence in cancer imaging: Clinical challenges and applications. *Ca-A Cancer Journal for Clinicians*, **2019**, 69, 127-157 | 220.7 | 319 |
| 313 | 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. *Radiology*, **2016**, 281, 382-391 | 20.5 | 297 |
| 312 | Deep learning in medical imaging and radiation therapy. *Medical Physics*, **2019**, 46, e1-e36 | 4.4 | 294 |
| 311 | Digital mammographic tumor classification using transfer learning from deep convolutional neural networks. *Journal of Medical Imaging*, **2016**, 3, 034501 | 2.6 | 278 |
| 310 | Computerized detection of pulmonary nodules on CT scans. *Radiographics*, **1999**, 19, 1303-11 | 5.4 | 269 |
| 309 | Improving breast cancer diagnosis with computer-aided diagnosis. *Academic Radiology*, **1999**, 6, 22-33 | 4.3 | 253 |
| 308 | A fuzzy c-means (FCM)-based approach for computerized segmentation of breast lesions in dynamic contrast-enhanced MR images. *Academic Radiology*, **2006**, 13, 63-72 | 4.3 | 252 |
| 307 | Volumetric texture analysis of breast lesions on contrast-enhanced magnetic resonance images. *Magnetic Resonance in Medicine*, **2007**, 58, 562-71 | 4.4 | 235 |
| 306 | Machine Learning in Medical Imaging. *Journal of the American College of Radiology*, **2018**, 15, 512-520 | 3.5 | 231 |
| 305 | Lung cancer: performance of automated lung nodule detection applied to cancers missed in a CT screening program. *Radiology*, **2002**, 225, 685-92 | 20.5 | 219 |
| 304 | Quantitative MRI radiomics in the prediction of molecular classifications of breast cancer subtypes in the TCGA/TCIA data set. *Npj Breast Cancer*, **2016**, 2, | 7.8 | 200 |
| 303 | 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. *Radiology*, **2013**, 267, 787-96 | 20.5 | 195 |
| 302 | Anniversary paper: History and status of CAD and quantitative image analysis: the role of Medical Physics and AAPM. *Medical Physics*, **2008**, 35, 5799-820 | 4.4 | 186 |
| 301 | A deep feature fusion methodology for breast cancer diagnosis demonstrated on three imaging modality datasets. *Medical Physics*, **2017**, 44, 5162-5171 | 4.4 | 183 |
| 300 | Automated detection of lung nodules in CT scans: preliminary results. *Medical Physics*, **2001**, 28, 1552-61 | 4.4 | 169 |
| 299 | Image feature analysis and computer-aided diagnosis in digital radiography. 3. Automated detection of nodules in peripheral lung fields. *Medical Physics*, **1988**, 15, 158-66 | 4.4 | 169 |
| 298 | Automatic identification and classification of characteristic kinetic curves of breast lesions on DCE-MRI. *Medical Physics*, **2006**, 33, 2878-87 | 4.4 | 154 |

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| 297 | Computerized diagnosis of breast lesions on ultrasound. *Medical Physics*, **2002**, 29, 157-64 | 4.4 | 153 |
| 296 | Automated computerized classification of malignant and benign masses on digitized mammograms. *Academic Radiology*, **1998**, 5, 155-68 | 4.3 | 153 |
| 295 | Cancerous breast lesions on dynamic contrast-enhanced MR images: computerized characterization for image-based prognostic markers. *Radiology*, **2010**, 254, 680-90 | 20.5 | 147 |
| 294 | Computerized interpretation of breast MRI: investigation of enhancement-variance dynamics. *Medical Physics*, **2004**, 31, 1076-82 | 4.4 | 146 |
| 293 | Computerized detection of pulmonary nodules in computed tomography images. *Investigative Radiology*, **1994**, 29, 459-65 | 10.1 | 146 |
| 292 | Digital image subtraction of temporally sequential chest images for detection of interval change. *Medical Physics*, **1994**, 21, 453-61 | 4.4 | 145 |
| 291 | Computerized analysis of breast lesions in three dimensions using dynamic magnetic-resonance imaging. *Medical Physics*, **1998**, 25, 1647-54 | 4.4 | 141 |
| 290 | Computerized lesion detection on breast ultrasound. *Medical Physics*, **2002**, 29, 1438-46 | 4.4 | 137 |
| 289 | Breast image analysis for risk assessment, detection, diagnosis, and treatment of cancer. *Annual Review of Biomedical Engineering*, **2013**, 15, 327-57 | 12 | 136 |
| 288 | Computerized detection of masses in digital mammograms: analysis of bilateral subtraction images. *Medical Physics*, **1991**, 18, 955-63 | 4.4 | 134 |
| 287 | Analysis of spiculation in the computerized classification of mammographic masses. *Medical Physics* , **1995**, 22, 1569-79 | 4.4 | 127 |
| 286 | Multifractal radiographic analysis of osteoporosis. *Medical Physics*, **1994**, 21, 503-8 | 4.4 | 126 |
| 285 | Automatic segmentation of breast lesions on ultrasound. *Medical Physics*, **2001**, 28, 1652-9 | 4.4 | 125 |
| 284 | Cell distance mapping identifies functional T follicular helper cells in inflamed human renal tissue. *Science Translational Medicine*, **2014**, 6, 230ra46 | 17.5 | 120 |
| 283 | Breast cancer: effectiveness of computer-aided diagnosis observer study with independent database of mammograms. *Radiology*, **2002**, 224, 560-8 | 20.5 | 116 |
| 282 | Deciphering Genomic Underpinnings of Quantitative MRI-based Radiomic Phenotypes of Invasive Breast Carcinoma. *Scientific Reports*, **2015**, 5, 17787 | 4.9 | 108 |
| 281 | Effect of case selection on the performance of computer-aided detection schemes. *Medical Physics*, **1994**, 21, 265-9 | 4.4 | 107 |
| 280 | Investigation of basic imaging properties in digital radiography. I. Modulation transfer function. *Medical Physics*, **1984**, 11, 287-95 | 4.4 | 107 |

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| 279 | Development of an improved CAD scheme for automated detection of lung nodules in digital chest images. *Medical Physics*, **1997**, 24, 1395-403 | 4.4 | 103 |
| 278 | Computerized analysis of digitized mammograms of BRCA1 and BRCA2 gene mutation carriers. *Radiology*, **2002**, 225, 519-26 | 20.5 | 100 |
| 277 | Prediction of clinical phenotypes in invasive breast carcinomas from the integration of radiomics and genomics data. *Journal of Medical Imaging*, **2015**, 2, 041007 | 2.6 | 99 |
| 276 | Quantitative imaging biomarkers: a review of statistical methods for computer algorithm comparisons. *Statistical Methods in Medical Research*, **2015**, 24, 68-106 | 2.3 | 99 |
| 275 | Computerized detection of clustered microcalcifications in digital mammograms using a shift-invariant artificial neural network. *Medical Physics*, **1994**, 21, 517-24 | 4.4 | 99 |
| 274 | Automatic segmentation of liver structure in CT images. *Medical Physics*, **1993**, 20, 71-8 | 4.4 | 97 |
| 273 | Investigation of basic imaging properties in digital radiography. 2. Noise Wiener spectrum. *Medical Physics*, **1984**, 11, 797-805 | 4.4 | 95 |
| 272 | Computerized detection of masses in digital mammograms: automated alignment of breast images and its effect on bilateral-subtraction technique. *Medical Physics*, **1994**, 21, 445-52 | 4.4 | 94 |
| 271 | Computerized detection of clustered microcalcifications in digital mammograms: applications of artificial neural networks. *Medical Physics*, **1992**, 19, 555-60 | 4.4 | 92 |
| 270 | Exploring nonlinear feature space dimension reduction and data representation in breast Cadx with Laplacian eigenmaps and t-SNE. *Medical Physics*, **2010**, 37, 339-51 | 4.4 | 88 |
| 269 | Automated segmentation of digitized mammograms. *Academic Radiology*, **1995**, 2, 1-9 | 4.3 | 86 |
| 268 | Classification of breast lesions with multimodality computer-aided diagnosis: observer study results on an independent clinical data set. *Radiology*, **2006**, 240, 357-68 | 20.5 | 85 |
| 267 | Computerized detection and classification of cancer on breast ultrasound. *Academic Radiology*, **2004**, 11, 526-35 | 4.3 | 84 |
| 266 | Computerized texture analysis of mammographic parenchymal patterns of digitized mammograms. *Academic Radiology*, **2005**, 12, 863-73 | 4.3 | 83 |
| 265 | Computerized analysis of mammographic parenchymal patterns for assessing breast cancer risk: effect of ROI size and location. *Medical Physics*, **2004**, 31, 549-55 | 4.4 | 75 |
| 264 | Automated lung segmentation in digitized posteroanterior chest radiographs. *Academic Radiology*, **1998**, 5, 245-55 | 4.3 | 74 |
| 263 | An improved shift-invariant artificial neural network for computerized detection of clustered microcalcifications in digital mammograms. *Medical Physics*, **1996**, 23, 595-601 | 4.4 | 74 |
| 262 | A dual-stage method for lesion segmentation on digital mammograms. *Medical Physics*, **2007**, 34, 4180-92 | 4.4 | 73 |

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| 261 | Performance of computer-aided diagnosis in the interpretation of lesions on breast sonography. *Academic Radiology*, **2004**, 11, 272-80 | 4.3 | 73 |
| 260 | Ideal observer approximation using Bayesian classification neural networks. *IEEE Transactions on Medical Imaging*, **2001**, 20, 886-99 | 11.7 | 73 |
| 259 | Fractal analysis of mammographic parenchymal patterns in breast cancer risk assessment. *Academic Radiology*, **2007**, 14, 513-21 | 4.3 | 72 |
| 258 | An improved computer-assisted diagnostic scheme using wavelet transform for detecting clustered microcalcifications in digital mammograms. *Academic Radiology*, **1996**, 3, 621-7 | 4.3 | 69 |
| 257 | Investigation of basic imaging properties in digital radiography. 6. MTFs of II-TV digital imaging systems. *Medical Physics*, **1985**, 12, 713-20 | 4.4 | 69 |
| 256 | Computer-aided detection and diagnosis of breast cancer. *Radiologic Clinics of North America*, **2000**, 38, 725-40 | 2.3 | 68 |
| 255 | Validation of quantitative analysis of multiparametric prostate MR images for prostate cancer detection and aggressiveness assessment: a cross-imager study. *Radiology*, **2014**, 271, 461-71 | 20.5 | 66 |
| 254 | 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, 1341-50 | 5.4 | 66 |
| 253 | Comparison of bilateral-subtraction and single-image processing techniques in the computerized detection of mammographic masses. *Investigative Radiology*, **1993**, 28, 473-81 | 10.1 | 65 |
| 252 | Computerized mass detection for digital breast tomosynthesis directly from the projection images. *Medical Physics*, **2006**, 33, 482-91 | 4.4 | 64 |
| 251 | Computerized classification of benign and malignant masses on digitized mammograms: a study of robustness. *Academic Radiology*, **2000**, 7, 1077-84 | 4.3 | 64 |
| 250 | Computerized analysis of mammographic parenchymal patterns for breast cancer risk assessment: feature selection. *Medical Physics*, **2000**, 27, 4-12 | 4.4 | 60 |
| 249 | Computer-aided detection of clustered microcalcifications on digital mammograms. *Medical and Biological Engineering and Computing*, **1995**, 33, 174-8 | 3.1 | 59 |
| 248 | Computerized detection of pulmonary nodules in digital chest images: use of morphological filters in reducing false-positive detections. *Medical Physics*, **1990**, 17, 861-5 | 4.4 | 59 |
| 247 | Computerized analysis of lesions in US images of the breast. *Academic Radiology*, **1999**, 6, 665-74 | 4.3 | 57 |
| 246 | Image feature analysis of false-positive diagnoses produced by automated detection of lung nodules. *Investigative Radiology*, **1992**, 27, 587-97 | 10.1 | 54 |
| 245 | Artificial intelligence in the interpretation of breast cancer on MRI. *Journal of Magnetic Resonance Imaging*, **2020**, 51, 1310-1324 | 5.6 | 54 |
| 244 | Computerized analysis of images in the detection and diagnosis of breast cancer. *Seminars in Ultrasound, CT and MRI*, **2004**, 25, 411-8 | 1.7 | 53 |

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| 243 | DCEMRI of breast lesions: is kinetic analysis equally effective for both mass and nonmass-like enhancement?. *Medical Physics*, **2008**, 35, 3102-9 | 4.4 | 52 |
| 242 | LUNGx Challenge for computerized lung nodule classification. *Journal of Medical Imaging*, **2016**, 3, 044506 | 2.6 | 50 |
| 241 | Measurement of the presampling modulation transfer function of film digitizers using a curve fitting technique. *Medical Physics*, **1990**, 17, 962-6 | 4.4 | 49 |
| 240 | Robustness of computerized lesion detection and classification scheme across different breast US platforms. *Radiology*, **2005**, 237, 834-40 | 20.5 | 48 |
| 239 | PROSTATEx Challenges for computerized classification of prostate lesions from multiparametric magnetic resonance images. *Journal of Medical Imaging*, **2018**, 5, 044501 | 2.6 | 48 |
| 238 | Using computer-extracted image phenotypes from tumors on breast magnetic resonance imaging to predict breast cancer pathologic stage. *Cancer*, **2016**, 122, 748-57 | 6.4 | 48 |
| 237 | Computerized characterization of mammographic masses: analysis of spiculation. *Cancer Letters*, **1994**, 77, 201-11 | 9.9 | 44 |
| 236 | Computer-aided detection of clustered microcalcifications: an improved method for grouping detected signals. *Medical Physics*, **1993**, 20, 1661-6 | 4.4 | 42 |
| 235 | Power spectral analysis of mammographic parenchymal patterns for breast cancer risk assessment. *Journal of Digital Imaging*, **2008**, 21, 145-52 | 5.3 | 41 |
| 234 | Computer-aided diagnosis in chest radiology. *Journal of Thoracic Imaging*, **1990**, 5, 67-76 | 5.6 | 41 |
| 233 | Transfer Learning From Convolutional Neural Networks for Computer-Aided Diagnosis: A Comparison of Digital Breast Tomosynthesis and Full-Field Digital Mammography. *Academic Radiology*, **2019**, 26, 735-743 | 4.3 | 40 |
| 232 | Variation in algorithm implementation across radiomics software. *Journal of Medical Imaging*, **2018**, 5, 044505 | 2.6 | 40 |
| 231 | Breast US computer-aided diagnosis workstation: performance with a large clinical diagnostic population. *Radiology*, **2008**, 248, 392-7 | 20.5 | 39 |
| 230 | Feature selection with limited datasets. *Medical Physics*, **1999**, 26, 2176-82 | 4.4 | 39 |
| 229 | Investigation of basic imaging properties in digital radiography. 7. Noise Wiener spectra of II-TV digital imaging systems. *Medical Physics*, **1986**, 13, 131-8 | 4.4 | 39 |
| 228 | Computerized assessment of breast lesion malignancy using DCE-MRI robustness study on two independent clinical datasets from two manufacturers. *Academic Radiology*, **2010**, 17, 822-9 | 4.3 | 38 |
| 227 | Reduction of false positives in computerized detection of lung nodules in chest radiographs using artificial neural networks, discriminant analysis, and a rule-based scheme. *Journal of Digital Imaging*, **1994**, 7, 196-207 | 5.3 | 38 |
| 226 | Digital Mammography in Breast Cancer: Additive Value of Radiomics of Breast Parenchyma. *Radiology*, **2019**, 291, 15-20 | 20.5 | 38 |

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| 225 | Deep learning in breast cancer risk assessment: evaluation of convolutional neural networks on a clinical dataset of full-field digital mammograms. *Journal of Medical Imaging*, **2017**, 4, 041304 | 2.6 | 36 |
| 224 | Most-enhancing tumor volume by MRI radiomics predicts recurrence-free survival "early on" in neoadjuvant treatment of breast cancer. *Cancer Imaging*, **2018**, 18, 12 | 5.6 | 35 |
| 223 | Multimodality computer-aided breast cancer diagnosis with FFDM and DCE-MRI. *Academic Radiology*, **2010**, 17, 1158-67 | 4.3 | 35 |
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| 221 | Computerized analysis of shadowing on breast ultrasound for improved lesion detection. *Medical Physics*, **2003**, 30, 1833-42 | 4.4 | 35 |
| 220 | A deep learning methodology for improved breast cancer diagnosis using multiparametric MRI. *Scientific Reports*, **2020**, 10, 10536 | 4.9 | 34 |
| 219 | Artificial Intelligence: reshaping the practice of radiological sciences in the 21st century. *British Journal of Radiology*, **2020**, 93, 20190855 | 3.4 | 34 |
| 218 | Investigation of basic imaging properties in digital radiography. 3. Effect of pixel size on SNR and threshold contrast. *Medical Physics*, **1985**, 12, 201-8 | 4.4 | 34 |
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| 216 | Use of clinical MRI maximum intensity projections for improved breast lesion classification with deep convolutional neural networks. *Journal of Medical Imaging*, **2018**, 5, 014503 | 2.6 | 33 |
| 215 | Radiogenomics of breast cancer using dynamic contrast enhanced MRI and gene expression profiling. *Cancer Imaging*, **2019**, 19, 48 | 5.6 | 32 |
| 214 | LUNGx Challenge for computerized lung nodule classification: reflections and lessons learned. *Journal of Medical Imaging*, **2015**, 2, 020103 | 2.6 | 32 |
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| 211 | Evaluation of clinical breast MR imaging performed with prototype computer-aided diagnosis breast MR imaging workstation: reader study. *Radiology*, **2011**, 258, 696-704 | 20.5 | 32 |
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| 209 | Computer-Aided Diagnosis in Mammography915-1004 | | 31 |
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| 207 | Potential usefulness of computerized nodule detection in screening programs for lung cancer. *Investigative Radiology*, **1992**, 27, 471-5 | 10.1 | 30 |
| 206 | Computerized three-class classification of MRI-based prognostic markers for breast cancer. *Physics in Medicine and Biology*, **2011**, 56, 5995-6008 | 3.8 | 29 |
| 205 | Evaluation of computer-aided diagnosis on a large clinical full-field digital mammographic dataset. *Academic Radiology*, **2008**, 15, 1437-45 | 4.3 | 28 |
| 204 | Characterization of bone quality using computer-extracted radiographic features. *Medical Physics*, **1999**, 26, 872-9 | 4.4 | 28 |
| 203 | Basic imaging properties of a large image intensifier-TV digital chest radiographic system. *Investigative Radiology*, **1987**, 22, 328-35 | 10.1 | 28 |
| 202 | Comparative analysis of image-based phenotypes of mammographic density and parenchymal patterns in distinguishing between BRCA1/2 cases, unilateral cancer cases, and controls. *Journal of Medical Imaging*, **2014**, 1, 031009 | 2.6 | 27 |
| 201 | Investigation of methods for the computerized detection and analysis of mammographic masses **1990**, | | 27 |
| 200 | Using quantitative image analysis to classify axillary lymph nodes on breast MRI: a new application for the Z 0011 Era. *European Journal of Radiology*, **2015**, 84, 392-397 | 4.7 | 25 |
| 199 | Combined use of T2-weighted MRI and T1-weighted dynamic contrast-enhanced MRI in the automated analysis of breast lesions. *Magnetic Resonance in Medicine*, **2011**, 66, 555-64 | 4.4 | 25 |
| 198 | Automated method for improving system performance of computer-aided diagnosis in breast ultrasound. *IEEE Transactions on Medical Imaging*, **2009**, 28, 122-8 | 11.7 | 25 |
| 197 | Performance of breast ultrasound computer-aided diagnosis: dependence on image selection. *Academic Radiology*, **2008**, 15, 1234-45 | 4.3 | 25 |
| 196 | Additive Benefit of Radiomics Over Size Alone in the Distinction Between Benign Lesions and Luminal A Cancers on a Large Clinical Breast MRI Dataset. *Academic Radiology*, **2019**, 26, 202-209 | 4.3 | 24 |
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| 194 | Comparison of imaging properties of a computed radiography system and screen-film systems. *Medical Physics*, **1991**, 18, 414-20 | 4.4 | 24 |
| 193 | Comparison of radiographic texture analysis from computed radiography and bone densitometry systems. *Medical Physics*, **2004**, 31, 882-91 | 4.4 | 23 |
| 192 | Computer-aided diagnosis in chest radiography. Preliminary experience. *Investigative Radiology*, **1993**, 28, 987-93 | 10.1 | 23 |
| 191 | Investigation of basic imaging properties in digital radiography. 13. Effect of simple structured noise on the detectability of simulated stenotic lesions. *Medical Physics*, **1989**, 16, 14-21 | 4.4 | 23 |
| 190 | Breast MRI radiomics: comparison of computer- and human-extracted imaging phenotypes. *European Radiology Experimental*, **2017**, 1, 22 | 4.5 | 22 |

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| 189 | Level set segmentation of breast masses in contrast-enhanced dedicated breast CT and evaluation of stopping criteria. *Journal of Digital Imaging*, **2014**, 27, 237-47 | 5.3 | 22 |
| 188 | Automated lung segmentation in digital lateral chest radiographs. *Medical Physics*, **1998**, 25, 1507-20 | 4.4 | 22 |
| 187 | Computer-Aided Diagnosis of Breast Cancer on Mammograms. *Breast Cancer*, **1997**, 4, 228-233 | 3.4 | 21 |
| 186 | Breast US computer-aided diagnosis system: robustness across urban populations in South Korea and the United States. *Radiology*, **2009**, 253, 661-71 | 20.5 | 20 |
| 185 | Computerized radiographic texture measures for characterizing bone strength: a simulated clinical setup using femoral neck specimens. *Medical Physics*, **1999**, 26, 2295-300 | 4.4 | 20 |
| 184 | Detection of lung nodules in digital chest radiographs using artificial neural networks: a pilot study. *Journal of Digital Imaging*, **1995**, 8, 88-94 | 5.3 | 20 |
| 183 | Estimating three-class ideal observer decision variables for computerized detection and classification of mammographic mass lesions. *Medical Physics*, **2004**, 31, 81-90 | 4.4 | 19 |
| 182 | Effect of dominant features on neural network performance in the classification of mammographic lesions. *Physics in Medicine and Biology*, **1999**, 44, 2579-95 | 3.8 | 19 |
| 181 | Investigation of basic imaging properties in digital radiography. 5. Characteristic curves of II-TV digital systems. *Medical Physics*, **1986**, 13, 13-8 | 4.4 | 19 |
| 180 | Comparison of Breast MRI Tumor Classification Using Human-Engineered Radiomics, Transfer Learning From Deep Convolutional Neural Networks, and Fusion Methods. *Proceedings of the IEEE*, **2020**, 108, 163-177 | 14.3 | 19 |
| 179 | Independent validation of machine learning in diagnosing breast Cancer on magnetic resonance imaging within a single institution. *Cancer Imaging*, **2019**, 19, 64 | 5.6 | 18 |
| 178 | Potential of computer-aided diagnosis of high spectral and spatial resolution (HiSS) MRI in the classification of breast lesions. *Journal of Magnetic Resonance Imaging*, **2014**, 39, 59-67 | 5.6 | 18 |
| 177 | Radiographic texture analysis of densitometric calcaneal images: relationship to clinical characteristics and to bone fragility. *Journal of Bone and Mineral Research*, **2010**, 25, 56-63 | 6.3 | 18 |
| 176 | Investigation of basic imaging properties in digital radiography. 8. Detection of simulated low-contrast objects in digital subtraction angiographic images. *Medical Physics*, **1986**, 13, 304-11 | 4.4 | 18 |
| 175 | Pilot study demonstrating potential association between breast cancer image-based risk phenotypes and genomic biomarkers. *Medical Physics*, **2014**, 41, 031917 | 4.4 | 17 |
| 174 | Computerized detection of breast cancer on automated breast ultrasound imaging of women with dense breasts. *Medical Physics*, **2014**, 41, 012901 | 4.4 | 17 |
| 173 | Simulation studies of data classification by artificial neural networks: potential applications in medical imaging and decision making. *Journal of Digital Imaging*, **1993**, 6, 117-25 | 5.3 | 17 |
| 172 | Computerized detection of masses in digital mammograms: investigation of feature-analysis techniques. *Journal of Digital Imaging*, **1994**, 7, 18-26 | 5.3 | 17 |

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| 171 | Relationships between computer-extracted mammographic texture pattern features and. *Breast Cancer Research*, **2014**, 16, 424 | 8.3 | 17 |
| 170 | Combined Benefit of Quantitative Three-Compartment Breast Image Analysis and Mammography Radiomics in the Classification of Breast Masses in a Clinical Data Set. *Radiology*, **2019**, 290, 621-628 | 20.5 | 17 |
| 169 | Interreader scoring variability in an observer study using dual-modality imaging for breast cancer detection in women with dense breasts. *Academic Radiology*, **2013**, 20, 847-53 | 4.3 | 16 |
| 168 | Three-dimensional approach to lung nodule detection in helical CT **1999**, | | 16 |
| 167 | Computerized detection of abnormal asymmetry in digital chest radiographs. *Medical Physics*, **1994**, 21, 1761-8 | 4.4 | 16 |
| 166 | Investigation of basic imaging properties in digital radiography 10. Structure mottle of II-TV digital imaging systems. *Medical Physics*, **1986**, 13, 843-9 | 4.4 | 16 |
| 165 | Segmentation of breast masses on dedicated breast computed tomography and three-dimensional breast ultrasound images. *Journal of Medical Imaging*, **2014**, 1, 014501 | 2.6 | 15 |
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| 162 | Quantifying in situ adaptive immune cell cognate interactions in humans. *Nature Immunology*, **2019**, 20, 503-513 | 19.1 | 15 |
| 161 | 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. *Radiology*, **2021**, 298, E11-E18 | 20.5 | 15 |
| 160 | Computerized analysis of radiographic bone patterns: effect of imaging conditions on performance. *Medical Physics*, **2000**, 27, 75-85 | 4.4 | 14 |
| 159 | Normalized BMD as a predictor of bone strength. *Academic Radiology*, **2000**, 7, 33-9 | 4.3 | 14 |
| 158 | Residual analysis of the water resonance signal in breast lesions imaged with high spectral and spatial resolution (HiSS) MRI: a pilot study. *Medical Physics*, **2014**, 41, 012303 | 4.4 | 13 |
| 157 | A study of T2-weighted MR image texture features and diffusion-weighted MR image features for computer-aided diagnosis of prostate cancer **2013**, | | 13 |
| 156 | Prevalence scaling: applications to an intelligent workstation for the diagnosis of breast cancer. *Academic Radiology*, **2008**, 15, 1446-57 | 4.3 | 13 |
| 155 | Potential effect of different radiologist reporting methods on studies showing benefit of CAD. *Academic Radiology*, **2008**, 15, 139-52 | 4.3 | 13 |
| 154 | Correlative feature analysis on FFDM. *Medical Physics*, **2008**, 35, 5490-500 | 4.4 | 13 |

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| 153 | Computer-Aided Diagnosis **2008**, 359-XXII | | 13 |
| 152 | Development of a high quality film duplication system using a laser digitizer: comparison with computed radiography. *Medical Physics*, **1993**, 20, 51-8 | 4.4 | 13 |
| 151 | Computerized Detection Of Lung Nodules In Digital Chest Radiographs **1987**, | | 13 |
| 150 | Special Section Guest Editorial:Radiomics and Imaging Genomics: Quantitative Imaging for Precision Medicine. *Journal of Medical Imaging*, **2015**, 2, 041001 | 2.6 | 12 |
| 149 | Bcl-2 as a Therapeutic Target in Human Tubulointerstitial Inflammation. *Arthritis and Rheumatology*, **2016**, 68, 2740-2751 | 9.5 | 12 |
| 148 | Radiomics robustness assessment and classification evaluation: A two-stage method demonstrated on multivendor FFDM. *Medical Physics*, **2019**, 46, 2145-2156 | 4.4 | 11 |
| 147 | Repeatability in computer-aided diagnosis: application to breast cancer diagnosis on sonography. *Medical Physics*, **2010**, 37, 2659-69 | 4.4 | 11 |
| 146 | Computer-aided detection and diagnosis of masses and clustered microcalcifications from digital mammograms **1993**, | | 11 |
| 145 | Harmonization of radiomic features of breast lesions across international DCE-MRI datasets. *Journal of Medical Imaging*, **2020**, 7, 012707 | 2.6 | 11 |
| 144 | Mammographic quantitative image analysis and biologic image composition for breast lesion characterization and classification. *Medical Physics*, **2014**, 41, 031915 | 4.4 | 10 |
| 143 | Update on the potential role of CAD in radiologic interpretations: are we making progress?. *Academic Radiology*, **2005**, 12, 669-70 | 4.3 | 10 |
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| 141 | Application of the EM algorithm to radiographic images. *Medical Physics*, **1992**, 19, 1175-82 | 4.4 | 10 |
| 140 | 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, 966-75 | 1.8 | 10 |
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| 135 | Analysis of a three-dimensional lung nodule detection method for thoracic CT scans **2000**, 3979, 103 | | 9 |
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