Sun Mi Kim

List of Publications by Year
in descending order

59 papers	1,115 citations	471509 17 h-index	434195 31 g-index
61 all docs	61 docs citations	61 times ranked	1746 citing authors

#	Article	IF	Citations
1	Breast Cancer Screening With Mammography Plus Ultrasonography or Magnetic Resonance Imaging in Women 50 Years or Younger at Diagnosis and Treated With Breast Conservation Therapy. JAMA Oncology, 2017, 3, 1495.	7.1	112
2	Joint Weakly and Semi-Supervised Deep Learning for Localization and Classification of Masses in Breast Ultrasound Images. IEEE Transactions on Medical Imaging, 2019, 38, 762-774.	8.9	107
3	Screening Mammographyâ€“detected Cancers: Sensitivity of a Computer-aided Detection System Applied to Full-Field Digital Mammograms. Radiology, 2007, 244, 104-111.	7.3	70
4	Logistic LASSO regression for the diagnosis of breast cancer using clinical demographic data and the BI-RADS lexicon for ultrasonography. Ultrasonography, 2018, 37, 36-42.	2.3	67
5	Sonographically Guided Core Biopsy of the Breast: Comparison of 14-Gauge Automated Gun and 11-Gauge Directional Vacuum-Assisted Biopsy Methods. Korean Journal of Radiology, 2005, 6, 102.	3.4	65
6	A computer-aided diagnosis system using artificial intelligence for the diagnosis and characterization of breast masses on ultrasound. Medicine (United States), 2019, 98, e14146.	1.0	64
7	Trastuzumab-Conjugated Liposome-Coated Fluorescent Magnetic Nanoparticles to Target Breast Cancer. Korean Journal of Radiology, 2014, 15, 411.	3.4	53
8	Real-time sentinel lymph node biopsy guidance using combined ultrasound, photoacoustic, fluorescence imaging: in vivo proof-of-principle and validation with nodal obstruction. Scientific Reports, 2017, 7, 45008.	3.3	47
9	Benign Intraductal Papilloma without Atypia on Core Needle Biopsy Has a Low Rate of Upgrading to Malignancy after Excision. Journal of Breast Cancer, 2018, 21, 80.	1.9	43
10	Prediction of Subclinical Coronary Artery Disease With Breast Arterial Calcification and Low Bone Mass in AsymptomaticÂWomen. JACC: Cardiovascular Imaging, 2019, 12, 1202-1211.	5.3	42
11	The Management Strategy of Benign Solitary Intraductal Papilloma on Breast Core Biopsy. Clinical Breast Cancer, 2017, 17, 367-372.	2.4	35
12	Ultrasound-guided vacuum-assisted biopsy of microcalcifications detected at screening mammography. Acta Radiologica, 2009, 50, 602-609.	1.1	33
13	Benign Breast Papilloma without Atypia: Outcomes of Surgical Excision versus US-guided Directional Vacuum-assisted Removal or US Follow-up. Radiology, 2019, 293, 72-80.	7.3	31
14	Comparison of strain and shear wave elastography for qualitative and quantitative assessment of breast masses in the same population. Scientific Reports, 2018, 8, 6197.	3.3	28
15	Comparison of Sonography With Sonographically Guided Fineâ€Needle Aspiration Biopsy and Coreâ€Needle Biopsy for Initial Axillary Staging of Breast Cancer. Journal of Ultrasound in Medicine, 2013, 32, 2177-2184.	1.7	22
16	An Artificial Tactile Neuron Enabling Spiking Representation of Stiffness and Disease Diagnosis. Advanced Materials, 2022, 34, e2201608.	21.0	20
17	Comparison of the Diagnostic Performance of Synthetic Versus Acquired High bâ€Value (1500) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Resonance Imaging, 2019, 49, 857-863.	3.4	19
18	Prognostic Significance of a Complete Response on Breast MRI in Patients Who Received Neoadjuvant Chemotherapy According to the Molecular Subtype. Korean Journal of Radiology, 2015, 16, 986.	3.4	17

#	Article	IF	Citations
19	A prototype hand-held tri-modal instrument for in vivo ultrasound, photoacoustic, and fluorescence imaging. Review of Scientific Instruments, 2015, 86, 034901.	1.3	17
20	Usefulness of preoperative breast magnetic resonance imaging with a dedicated axillary sequence for the detection of axillary lymph node metastasis in patients with early ductal breast cancer. Radiologia Medica, 2019, 124, 1220-1228.	7.7	16
21	A Comparison of Logistic Regression Analysis and an Artificial Neural Network Using the BI-RADS Lexicon for Ultrasonography in Conjunction with Introbserver Variability. Journal of Digital Imaging, 2012, 25, 599-606.	2.9	15
22	Microcalcifications and Peritumoral Edema Predict Survival Outcome in Luminal Breast Cancer Treated with Neoadjuvant Chemotherapy. Radiology, 2022, 304, 310-319.	7.3	15
23	Ultrasound-guided cable-free 13-gauge vacuum-assisted biopsy of non-mass breast lesions. PLoS ONE, 2017, 12, e0179182.	2.5	13
24	Predictors of Invasive Breast Cancer in Patients With Ductal Carcinoma In Situ in Ultrasoundâ€Guided Core Needle Biopsy. Journal of Ultrasound in Medicine, 2019, 38, 481-488.	1.7	12
25	Reliability of automated versus handheld breast ultrasound examinations of suspicious breast masses. Ultrasonography, 2019, 38, 264-271.	2.3	12
26	Clinical and Radiologic Features of Neuroendocrine Breast Carcinomas. Journal of Ultrasound in Medicine, 2014, 33, 1511-1518.	1.7	11
27	Diagnostic Performance of Artificial Intelligence-Based Computer-Aided Diagnosis for Breast Microcalcification on Mammography. Diagnostics, 2021, 11, 1409.	2.6	11
28	Contralateral lesions detected by preoperative MRI in patients with recently diagnosed breast cancer: Application of MR CAD in differentiation of benign and malignant lesions. European Journal of Radiology, 2012, 81, 1520-1526.	2.6	9
29	Reproducibility of Apparent Diffusion Coefficient Measurements in Malignant Breast Masses. Journal of Korean Medical Science, 2015, 30, 1689.	2.5	9
30	Development of a Management Algorithm for the Diagnosis of Cellular Fibroepithelial Lesions From Core Needle Biopsies. International Journal of Surgical Pathology, 2018, 26, 684-692.	0.8	9
31	Diagnosis of Columnar Cell Lesions and Atypical Ductal Hyperplasia by Ultrasound-Guided Core Biopsy: Findings Associated with Underestimation of Breast Carcinoma. Ultrasound in Medicine and Biology, 2016, 42, 1457-1463.	1.5	8
32	Factors Affecting Breast Cancer Detectability on Digital Breast Tomosynthesis and Two-Dimensional Digital Mammography in Patients with Dense Breasts. Korean Journal of Radiology, 2019, 20, 58.	3.4	7
33	False-negative results on computer-aided detection software in preoperative automated breast ultrasonography of breast cancer patients. Ultrasonography, 2021, 40, 83-92.	2.3	6
34	A Novel Cascade Classifier for Automatic Microcalcification Detection. PLoS ONE, 2015, 10, e0143725.	2.5	6
35	Effect of Estrogen Receptor Expression Level and Hormonal Therapy on Prognosis of Early Breast Cancer. Cancer Research and Treatment, 2022, 54, 1081-1090.	3.0	6
36	A New Full-Field Digital Mammography System with and without the Use of an Advanced Post-Processing Algorithm: Comparison of Image Quality and Diagnostic Performance. Korean Journal of Radiology, 2014, 15, 305.	3.4	5

#	Article	IF	Citations
37	Reliability of Computer-Assisted Breast Density Estimation: Comparison of Interactive Thresholding, Semiautomated, and Fully Automated Methods. American Journal of Roentgenology, 2016, 207, 126-134.	2.2	5
38	Clinicopathological and Imaging Features of Breast Cancer in Korean Women under 40 Years of Age. Journal of the Korean Society of Radiology, 2017, 76, 375.	0.2	5
39	Prognostic implications of regression of metastatic axillary lymph nodes after neoadjuvant chemotherapy in patients with breast cancer. Scientific Reports, 2021, 11, 12128.	3.3	5
40	External validation and modification of nomogram for predicting positive resection margins before breast conserving surgery. Breast Cancer Research and Treatment, 2020, 183, 373-380.	2.5	4
41	Prognostic Significance of Transverse Relaxation Rate (R2*) in Blood Oxygenation Level-Dependent Magnetic Resonance Imaging in Patients with Invasive Breast Cancer. PLoS ONE, 2016, 11, e0158500.	2.5	4
42	Application of magnetic resonance computer-aided diagnosis for preoperatively determining invasive disease in ultrasonography-guided core needle biopsy-proven ductal carcinoma in situ. Medicine (United States), 2020, 99, e21257.	1.0	3
43	Quantitative analysis of breast parenchymal background enhancement (BPE) on magnetic resonance (MR) imaging: Association with mammographic breast density and aggressiveness of the primary cancer in postmenopausal women.. Journal of Clinical Oncology, 2013, 31, 38-38.	1.6	3
44	Reproducibility of Computer-Aided Detection System in Digital Mammograms. Journal of the Korean Radiological Society, 2005, 52, 137.	0.0	3
45	Magnetic Resonance Imaging Factors Predicting Re-excision in Breast Cancer Patients Having Undergone Conserving Therapy. Journal of the Korean Society of Magnetic Resonance in Medicine, 2014, 18, 133.	0.1	3
46	Does Adding Diffuse Optical Tomography to Sonography Improve Differentiation Between Benign and Malignant Breast Lesions?. Journal of Ultrasound in Medicine, 2015, 34, 749-757.	1.7	2
47	Ultrasonography and ultrasound-guided fine-needle aspiration biopsy can predict a heavy nodal metastatic burden in early-stage breast cancer. Ultrasonography, 2021, 40, 520-529.	2.3	2
48	Five-years of Breast Cancer Management in a New Hospital: Analysis Using Clinical Data Warehouse. Journal of Breast Cancer, 2010, 13, 96.	1.9	2
49	Breast Magnetic Resonance Imaging-Guided Biopsy. Journal of the Korean Society of Radiology, 2016, 74, 351.	0.2	2
50	A Survey on Current Trends of Breast Imaging Practices in Korea. Journal of the Korean Society of Radiology, 2019, 80, 919.	0.2	2
51	Comparison of One- and Two-Region of Interest Strain Elastography Measurements in the Differential Diagnosis of Breast Masses. Korean Journal of Radiology, 2020, 21, 431.	3.4	2
52	The Axillary Arch of Langer (Axillopectoral Muscle): A Case Report. Journal of Breast Cancer, 2008, 11, 106.	1.9	1
53	Current Practices in Breast Magnetic Resonance Imaging: a Survey Involving the Korean Society of Breast Imaging. Investigative Magnetic Resonance Imaging, 2017, 21, 233.	0.4	1
54	Clinical Applications of Automated Breast Ultrasound: Screening for Breast Cancer. Journal of the Korean Society of Radiology, 2019, 80, 32.	0.2	1

#	Article	IF	Citations
55	Using a mobile device for margin assessment of specimen mammography in breast-conserving surgery. Medicine (United States), 2021, 100, e27243.	1.0	1
56	Comparison of ultrasound with ultrasound-guided fine-needle aspiration biopsy and core needle biopsy for initial axillary staging of breast cancer patients.. Journal of Clinical Oncology, 2013, 31, 96-96.	1.6	1
57	Axillary ultrasonographic criteria to predict chemotherapy response in breast cancer patients receiving neoadjuvant chemotherapy.. Journal of Clinical Oncology, 2014, 32, 48-48.	1.6	1
58	Adenoma of the Nipple. [Chapchi] Journal Taehan Oekwa Hakhoe, 2009, 77, 134.	1.1	0
59	Significance of incidentally detected oval, circumscribed enhancing lesions on preoperative breast MRI.. Journal of Clinical Oncology, 2015, 33, 12-12.	1.6	0