

Serghei Malkov

List of Publications by Year in descending order

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45
papers

1,212
citations

394421

19
h-index

377865

34
g-index

49
all docs

49
docs citations

49
times ranked

1692
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Clinical and Automated Breast Density Measurements: Implications for Risk Prediction and Supplemental Screening. <i>Radiology</i> , 2016, 279, 710-719.	7.3	145
2	Volume of Mammographic Density and Risk of Breast Cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2011, 20, 1473-1482.	2.5	143
3	Agreement of Mammographic Measures of Volumetric Breast Density to MRI. <i>PLoS ONE</i> , 2013, 8, e81653.	2.5	109
4	Single x-ray absorptiometry method for the quantitative mammographic measure of fibroglandular tissue volume. <i>Medical Physics</i> , 2009, 36, 5525-5536.	3.0	68
5	Compositional breast imaging using a dual-energy mammography protocol. <i>Medical Physics</i> , 2010, 37, 164-174.	3.0	60
6	Automated and Clinical Breast Imaging Reporting and Data System Density Measures Predict Risk for Screen-Detected and Interval Cancers. <i>Annals of Internal Medicine</i> , 2018, 168, 757-765.	3.9	56
7	Hip Fractures Risk in Older Men and Women Associated With DXA-Derived Measures of Thigh Subcutaneous Fat Thickness, Cross-Sectional Muscle Area, and Muscle Density. <i>Journal of Bone and Mineral Research</i> , 2015, 30, 1414-1421.	2.8	52
8	Relationship of Terminal Duct Lobular Unit Involution of the Breast with Area and Volume Mammographic Densities. <i>Cancer Prevention Research</i> , 2016, 9, 149-158.	1.5	42
9	Application of Two-Dimensional Correlation Infrared Spectroscopy to the Study of Miscible Polymer Blends. <i>Macromolecules</i> , 2003, 36, 8156-8163.	4.8	39
10	Longitudinal Changes in Volumetric Breast Density with Tamoxifen and Aromatase Inhibitors. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2017, 26, 930-937.	2.5	37
11	Mammographic texture and risk of breast cancer by tumor type and estrogen receptor status. <i>Breast Cancer Research</i> , 2016, 18, 122.	5.0	35
12	Two-Dimensional Correlation Infrared Spectroscopic Study of N-Methylacetamide as a Function of Temperature. <i>Journal of Physical Chemistry A</i> , 2003, 107, 7697-7703.	2.5	32
13	Application of Two-Dimensional Correlation Infrared Spectroscopy to the Study of Immiscible Polymer Blends. <i>Macromolecules</i> , 2003, 36, 8148-8155.	4.8	32
14	Breast Density Assessment in Adolescent Girls Using Dual-Energy X-ray Absorptiometry: A Feasibility Study. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2008, 17, 1709-1713.	2.5	30
15	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.	7.3	29
16	The Effect of Change in Body Mass Index on Volumetric Measures of Mammographic Density. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2015, 24, 1724-1730.	2.5	26
17	Application of Generalized Two-Dimensional Infrared Correlation Spectroscopy to the Study of a Hydrogen-Bonded Blend. <i>Applied Spectroscopy</i> , 2004, 58, 1074-1081.	2.2	23
18	Comparison of breast density measured by dual energy X-ray absorptiometry with mammographic density among adult women in Hawaii. <i>Cancer Epidemiology</i> , 2011, 35, 188-193.	1.9	20

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19	Circulating insulin-like growth factor-I, insulin-like growth factor binding protein-3 and terminal duct lobular unit involution of the breast: a cross-sectional study of women with benign breast disease. <i>Breast Cancer Research</i> , 2016, 18, 24.	5.0	18
20	Deep learning networks find unique mammographic differences in previous negative mammograms between interval and screen-detected cancers: a case-case study. <i>Cancer Imaging</i> , 2019, 19, 41.	2.8	18
21	Mammary collagen architecture and its association with mammographic density and lesion severity among women undergoing image-guided breast biopsy. <i>Breast Cancer Research</i> , 2021, 23, 105.	5.0	17
22	Mammographic quantitative image analysis and biologic image composition for breast lesion characterization and classification. <i>Medical Physics</i> , 2014, 41, 031915.	3.0	15
23	Application of convolutional neural networks to breast biopsies to delineate tissue correlates of mammographic breast density. <i>Npj Breast Cancer</i> , 2019, 5, 43.	5.2	12
24	Relationships between mammographic density, tissue microvessel density, and breast biopsy diagnosis. <i>Breast Cancer Research</i> , 2016, 18, 88.	5.0	11
25	Determinants of volumetric breast density in Chilean premenopausal women. <i>Breast Cancer Research and Treatment</i> , 2017, 162, 343-352.	2.5	10
26	Relationship of circulating insulin-like growth factor-I and binding proteins with mammographic density among women undergoing image-guided diagnostic breast biopsy. <i>Breast Cancer Research</i> , 2019, 21, 81.	5.0	10
27	Improvements to Single Energy Absorptiometry Method for Digital Mammography to Quantify Breast Tissue Density. <i>Lecture Notes in Computer Science</i> , 2008, , 1-8.	1.3	5
28	Novel single x-ray absorptiometry method to solve for volumetric breast density in mammograms with paddle tilt. , 2007, , .		3
29	Dual-Energy X-Ray Absorptiometry Method Using a Full Field Digital Mammography System. <i>Lecture Notes in Computer Science</i> , 2008, , 108-115.	1.3	3
30	Derived mammographic masking measures based on simulated lesions predict the risk of interval cancer after controlling for known risk factors: a case-case analysis. <i>Medical Physics</i> , 2019, 46, 1309-1316.	3.0	2
31	Comparison of Subregional Breast Density with Whole Breast Density. <i>Lecture Notes in Computer Science</i> , 2010, , 402-407.	1.3	2
32	Compositional Three-Component Breast Imaging of Fibroadenoma and Invasive Cancer Lesions: Pilot Study. <i>Lecture Notes in Computer Science</i> , 2014, , 109-114.	1.3	1
33	Automated volumetric breast density derived by shape and appearance modeling. <i>Proceedings of SPIE</i> , 2014, 9034, 90342T.	0.8	1
34	Deep learning and three-compartment breast imaging in breast cancer diagnosis. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
35	Using Digital Pathology to Understand Epithelial Characteristics of Benign Breast Disease among Women Undergoing Diagnostic Image-Guided Breast Biopsy. <i>Cancer Prevention Research</i> , 2019, 12, 861-870.	1.5	1
36	Dual-energy three-compartment breast imaging for compositional biomarkers to improve detection of malignant lesions. <i>Communications Medicine</i> , 2021, 1, .	4.2	1

#	ARTICLE	IF	CITATIONS
37	Automated Volumetric Breast Density Derived by Statistical Model Approach. Lecture Notes in Computer Science, 2014, , 257-264.	1.3	1
38	A Measure of Regional Mammographic Masking Based on the CDMAM Phantom. Lecture Notes in Computer Science, 2016, , 525-531.	1.3	1
39	Do Women with Low Breast Density Have Regionally High Breast Density?. Lecture Notes in Computer Science, 2016, , 548-553.	1.3	1
40	Energy Dependence of Water and Lipid Calibration Materials for Three-Compartment Breast Imaging. Lecture Notes in Computer Science, 2016, , 554-563.	1.3	1
41	Combining 3D optical imaging and dual energy absorptiometry to measure three compositional components. , 2014, 8937, 893714.		0
42	Roles of biologic breast tissue composition and quantitative image analysis of mammographic images in breast tumor characterization. , 2014, , .		0
43	Identification, segmentation, and characterization of microcalcifications on mammography. , 2016, , .		0
44	Improvements and Performance of Diagnostic Compositional Imaging Using a Novel Dual-Energy X-ray Technique. Lecture Notes in Computer Science, 2012, , 569-574.	1.3	0
45	Cross-Calibration and Longitudinal Quality Control of Hologic Selenia Full-Field Digital Mammography Systems for Volumetric Breast Density Measurements. Lecture Notes in Computer Science, 2008, , 740-747.	1.3	0