

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	Dual-energy three-compartment breast imaging for compositional biomarkers to improve detection of malignant lesions. <i>Communications Medicine</i> , 2021, 1, .	4.2	1
2	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
3	Relationship of circulating insulin-like growth factor-I and binding proteins 1â€“7 with mammographic density among women undergoing image-guided diagnostic breast biopsy. <i>Breast Cancer Research</i> , 2019, 21, 81.	5.0	10
4	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
5	Derived mammographic masking measures based on simulated lesions predict the risk of interval cancer after controlling for known risk factors: a caseâ€“case analysis. <i>Medical Physics</i> , 2019, 46, 1309-1316.	3.0	2
6	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
7	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
8	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
9	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
10	Deep learning and three-compartment breast imaging in breast cancer diagnosis. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
11	Determinants of volumetric breast density in Chilean premenopausal women. <i>Breast Cancer Research and Treatment</i> , 2017, 162, 343-352.	2.5	10
12	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
13	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
14	Identification, segmentation, and characterization of microcalcifications on mammography. , 2016, , .		0
15	Relationships between mammographic density, tissue microvessel density, and breast biopsy diagnosis. <i>Breast Cancer Research</i> , 2016, 18, 88.	5.0	11
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	A Measure of Regional Mammographic Masking Based on the CDMAM Phantom. Lecture Notes in Computer Science, 2016, , 525-531.	1.3	1
20	Do Women with Low Breast Density Have Regionally High Breast Density?. Lecture Notes in Computer Science, 2016, , 548-553.	1.3	1
21	Energy Dependence of Water and Lipid Calibration Materials for Three-Compartment Breast Imaging. Lecture Notes in Computer Science, 2016, , 554-563.	1.3	1
22	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. Journal of Bone and Mineral Research, 2015, 30, 1414-1421.	2.8	52
23	The Effect of Change in Body Mass Index on Volumetric Measures of Mammographic Density. Cancer Epidemiology Biomarkers and Prevention, 2015, 24, 1724-1730.	2.5	26
24	Compositional Three-Component Breast Imaging of Fibroadenoma and Invasive Cancer Lesions: Pilot Study. Lecture Notes in Computer Science, 2014, , 109-114.	1.3	1
25	Combining 3D optical imaging and dual energy absorptiometry to measure three compositional components. , 2014, 8937, 893714.		0
26	Roles of biologic breast tissue composition and quantitative image analysis of mammographic images in breast tumor characterization. , 2014, , .		0
27	Automated volumetric breast density derived by shape and appearance modeling. Proceedings of SPIE, 2014, 9034, 90342T.	0.8	1
28	Mammographic quantitative image analysis and biologic image composition for breast lesion characterization and classification. Medical Physics, 2014, 41, 031915.	3.0	15
29	Automated Volumetric Breast Density Derived by Statistical Model Approach. Lecture Notes in Computer Science, 2014, , 257-264.	1.3	1
30	Agreement of Mammographic Measures of Volumetric Breast Density to MRI. PLoS ONE, 2013, 8, e81653.	2.5	109
31	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
32	Comparison of breast density measured by dual energy X-ray absorptiometry with mammographic density among adult women in Hawaii. Cancer Epidemiology, 2011, 35, 188-193.	1.9	20
33	Volume of Mammographic Density and Risk of Breast Cancer. Cancer Epidemiology Biomarkers and Prevention, 2011, 20, 1473-1482.	2.5	143
34	Compositional breast imaging using a dual-energy mammography protocol. Medical Physics, 2010, 37, 164-174.	3.0	60
35	Comparison of Subregional Breast Density with Whole Breast Density. Lecture Notes in Computer Science, 2010, , 402-407.	1.3	2
36	Single x-ray absorptiometry method for the quantitative mammographic measure of fibroglandular tissue volume. Medical Physics, 2009, 36, 5525-5536.	3.0	68

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37	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
38	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
39	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
40	Cross-Calibration and Longitudinal Quality Control of Hologic Selenia Full-Field Digital Mammography Systems for Volumetric Breast Density Measurements. <i>Lecture Notes in Computer Science</i> , 2008, , 740-747.	1.3	0
41	Novel single x-ray absorptiometry method to solve for volumetric breast density in mammograms with paddle tilt. , 2007, , .		3
42	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
43	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
44	Application of Two-Dimensional Correlation Infrared Spectroscopy to the Study of Immiscible Polymer Blends. <i>Macromolecules</i> , 2003, 36, 8148-8155.	4.8	32
45	Application of Two-Dimensional Correlation Infrared Spectroscopy to the Study of Miscible Polymer Blends. <i>Macromolecules</i> , 2003, 36, 8156-8163.	4.8	39