JosÃ© Gerardo Tamez-PeÃ±a

List of Publications by Year
in descending order

102 papers	1,774 citations	516710 16 h-index	289244 40 g-index
108 all docs	108 docs citations	108 times ranked	2873 citing authors

#	Article	IF	Citations
1	SurvExpress: An Online Biomarker Validation Tool and Database for Cancer Gene Expression Data Using Survival Analysis. PLoS ONE, 2013, 8, e74250.	2.5	646
2	The acutely ACL injured knee assessed by MRI: changes in joint fluid, bone marrow lesions, and cartilage during the first year. Osteoarthritis and Cartilage, 2009, 17, 161-167.	1.3	133
3	Comparison of radiographic joint space width with magnetic resonance imaging cartilage morphometry: Analysis of longitudinal data from the osteoarthritis initiative. Arthritis Care and Research, 2010, 62, 932-937.	3.4	103
4	The acutely ACL injured knee assessed by MRI: are large volume traumatic bone marrow lesions a sign of severe compression injury?. Osteoarthritis and Cartilage, 2008, 16, 829-836.	1.3	98
5	Volumetric computerized tomography as a measurement of periprosthetic acetabular osteolysis and its correlation with wear. Arthritis Research, 2002, 4, 59.	2.0	88
6	Unsupervised Segmentation and Quantification of Anatomical Knee Features: Data From the Osteoarthritis Initiative. IEEE Transactions on Biomedical Engineering, 2012, 59, 1177-1186.	4.2	87
7	GridMass: a fast two-dimensional feature detection method for LC/MS. Journal of Mass Spectrometry, 2015, 50, 165-174.	1.6	52
8	Benchmarking machine learning models for late-onset alzheimerâ€™s disease prediction from genomic data. BMC Bioinformatics, 2019, 20, 709.	2.6	41
9	The Use of Sequential MR Image Sets for Determining Tibiofemoral Motion:â€ƒReliability of Coordinate Systems and Accuracy of Motion Tracking Algorithm. Journal of Biomechanical Engineering, 2003, 125, 246-253.	1.3	37
10	Baseline knee adduction moment interacts with body mass index to predict loss of medial tibial cartilage volume over 2.5 years in knee Osteoarthritis. Journal of Orthopaedic Research, 2017, 35, 2476-2483.	2.3	37
11	Knee adduction moment relates to medial femoral and tibial cartilage morphology in clinical knee osteoarthritis. Journal of Biomechanics, 2015, 48, 3495-3501.	2.1	34
12	Equivalence and precision of knee cartilage morphometry between different segmentation teams, cartilage regions, and MR acquisitions. Osteoarthritis and Cartilage, 2012, 20, 869-879.	1.3	32
13	The effect of anterior cruciate ligament injury on bone curvature: exploratory analysis in the KANON trial. Osteoarthritis and Cartilage, 2014, 22, 959-968.	1.3	31
14	Segmentation, surface extraction, and thickness computation of articular cartilage. , 2002, , .		26
15	Acute changes in knee cartilage transverse relaxation time after running and bicycling. Journal of Biomechanics, 2017, 53, 171-177.	2.1	25
16	Region of interest analysis: by selecting regions with denuded areas can we detect greater amounts of change?. Osteoarthritis and Cartilage, 2010, 18, 175-183.	1.3	19
17	Quantitative 3D MRI reveals limited intra-lesional bony overgrowth atÂ1 year after microfracture-based cartilage repair. Osteoarthritis and Cartilage, 2014, 22, 800-804.	1.3	17
18	Improved Diagnostic Multimodal Biomarkers for Alzheimerâ€™s Disease and Mild Cognitive Impairment. BioMed Research International, 2015, 2015, 1-11.	1.9	16

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19	Trajectories of femorotibial cartilage thickness among persons with or at risk of knee osteoarthritis: development of a prediction model to identify progressors. Osteoarthritis and Cartilage, 2019, 27, 257-265.	1.3	16
20	Magnetization-prepared rapid acquisition with gradient echo magnetic resonance imaging signal and texture features for the prediction of mild cognitive impairment to Alzheimerâ€™s disease progression. Journal of Medical Imaging, 2014, 1, 031005.	1.5	15
21	Radiogenomics analysis identifies correlations of digital mammography with clinical molecular signatures in breast cancer. PLoS ONE, 2018, 13, e0193871.	2.5	15
22	<title>Unsupervised statistical segmentation of multispectral volumetric MRI images</title>. , 1999, , .		13
23	<title>MRI isotropic resolution reconstruction from two orthogonal scans</title>. , 2001, 4322, 87.		12
24	COMPADRE: an R and web resource for pathway activity analysis by component decompositions. Bioinformatics, 2012, 28, 2701-2702.	4.1	9
25	Bilateral Image Subtraction and Multivariate Models for the Automated Triaging of Screening Mammograms. BioMed Research International, 2015, 2015, 1-12.	1.9	9
26	VALORATE: fast and accurate log-rank test in balanced and unbalanced comparisons of survival curves and cancer genomics. Bioinformatics, 2017, 33, 1900-1901.	4.1	9
27	Robust Discovery of Mild Cognitive Impairment Subtypes and Their Risk of Alzheimer's Disease Conversion Using Unsupervised Machine Learning and Gaussian Mixture Modeling. Current Alzheimer Research, 2021, 18, 595-606.	1.4	9
28	Post-concussive mTBI in Student Athletes: MRI Features and Machine Learning. Frontiers in Neurology, 2021, 12, 734329.	2.4	9
29	Identification of outcome-related driver mutations in cancer using conditional co-occurrence distributions. Scientific Reports, 2017, 7, 43350.	3.3	8
30	Predictive features of breast cancer on Mexican screening mammography patients. , 2013, , .		7
31	Identification and Temporal Characterization of Features Associated with the Conversion from Mild Cognitive Impairment to Alzheimerâ€™s Disease. Current Alzheimer Research, 2018, 15, 751-763.	1.4	7
32	Local force model for cardiac dynamics analysis from volumetric image sequences. Computerized Medical Imaging and Graphics, 2003, 27, 437-446.	5.8	6
33	Atlas based method for the automated segmentation and quantification of knee features: Data from the osteoarthritis initiative. , 2011, , .		6
34	On the use of coupled shape priors for segmentation of magnetic resonance images of the knee. IEEE Journal of Biomedical and Health Informatics, 2014, 19, 1-1.	6.3	6
35	Multivariate Radiological-Based Models for the Prediction of Future Knee Pain: Data from the OAI. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-10.	1.3	5
36	Measurement of thermally ablated lesions in sonoelastographic images using level set methods. , 2008, , .		4

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37	125 CARTILAGE-BONE CONTRAST BEHAVIOR IN OAI PROGRESSION SUB-COHORT; CORRELATION TO WOMAC SCORES. Osteoarthritis and Cartilage, 2009, 17, S74-S75.	1.3	4
38	Minimum joint space width (mJSW) of patellofemoral joint on standing â€œskylineâ€•radiographs: test-retest reproducibility and comparison with quantitative magnetic resonance imaging (qMRI). Skeletal Radiology, 2013, 42, 1573-1582.	2.0	4
39	Local image registration a comparison for bilateral registration mammography. , 2013, , .		4
40	Wide association study of radiological features that predict future knee OA pain: data from the OAI. Proceedings of SPIE, 2014, , .	0.8	4
41	Knee Osteoarthritis pain prediction from X-ray imaging: Data from Osteoarthritis Initiative. , 2014, , .		4
42	Risk profiles for negative and positive COVID-19 hospitalized patients. Computers in Biology and Medicine, 2021, 136, 104753.	7.0	4
43	Evaluation of distance maps from fast GRE MRI as a tool to study the knee joint space. , 2003, , .		3
44	Structural biomarkers predict onset of knee pain: data from the osteoarthritis initiative. Osteoarthritis and Cartilage, 2012, 20, S34.	1.3	3
45	Efficient Gene Selection for Cancer Prognostic Biomarkers Using Swarm Optimization and Survival Analysis. Current Bioinformatics, 2016, 11, 310-323.	1.5	3
46	Ensemble of SVM, Random-Forest and the BSWiMS Method to Predict and Describe Structural Associations with Fluid Intelligence Scores from T1-Weighed MRI. Lecture Notes in Computer Science, 2019, , 47-56.	1.3	3
47	Virtual performance assessment of 3D quantification systems. , 2005, , .		2
48	Segmentation by surface-to-image registration. , 2006, 6144, 41.		2
49	A wide association study of predictors of future knee pain: data from the osteoarthritis initiative. Osteoarthritis and Cartilage, 2012, 20, S85.	1.3	2
50	Can T2 relaxation be used to predict koos other symptoms? - data from the osteoarthritis initiative. Osteoarthritis and Cartilage, 2012, 20, S208-S209.	1.3	2
51	Quantitative 3D MRI as a Valid Endpoint for Randomized Clinical Trials in Cartilage Repair and its Correlation with Repair Tissue Collagen Architecture. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2013, 29, e133-e134.	2.7	2
52	Improved multimodal biomarkers for Alzheimer's disease and mild cognitive impairment diagnosis: data from ADNI. Proceedings of SPIE, 2013, , .	0.8	2
53	Bilateral image subtraction features for multivariate automated classification of breast cancer risk. , 2014, , .		2
54	Scan-rescan precision of subchondral bone curvature maps from routine 3D DESS water excitation sequences: Data from the Osteoarthritis Initiative. Computers in Biology and Medicine, 2016, 69, 83-91.	7.0	2

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55	[P1â€“253]: LONGITUDINAL DIFFERENCES IN THE PROGRESSION FROM MCI TO AD BETWEEN HISPANIC AND NONâ€HISPANIC SUBJECTS. Alzheimer's and Dementia, 2017, 13, P344.	0.8	2
56	<title>Cardiac dynamic analysis using hierarchical shape models and Gaussian curvature recovery: an integrated approach</title>. , 1996, , .		1
57	Semi-automated CT-based analysis of regional bone-density in contra lateral total hip replacement. , 2004, , .		1
58	Structural quantification of cartilage changes using statistical parametric mapping. , 2007, , .		1
59	323 THICKNESS DELTA MAPS: METHODOLOGY FOR THE SPATIAL DETECTION AND QUANTIFICATION LONGITUDINAL CHANGES IN CARTILAGE THICKNESS. Osteoarthritis and Cartilage, 2007, 15, C180-C181.	1.3	1
60	428 CHARACTERIZATION OF A FULLY AUTOMATED KNEE SEGMENTATION SYSTEM ON THE OAI DESS SEQUENCES. Osteoarthritis and Cartilage, 2009, 17, S228.	1.3	1
61	112 EARLY DETECTION OF CHANGES IN ARTICULAR CARTILAGE MORPHOLOGY: DATA FROM THE OSTEOARTHRITIS INITIATIVE. Osteoarthritis and Cartilage, 2010, 18, S57-S58.	1.3	1
62	120 DETECTION OF EARLY CHANGES IN SUBCHONDRAL BONE PLATE CURVATURE IN OA: DATA FROM THE OSTEOARTHRITIS INITIATIVE. Osteoarthritis and Cartilage, 2010, 18, S60-S61.	1.3	1
63	127 ATLAS-BASED STANDARDIZED QUANTIFICATION OF CARTILAGE THICKNESS MAPS: DATA FROM THE OSTEOARTHRITIS INITIATIVE. Osteoarthritis and Cartilage, 2010, 18, S64-S65.	1.3	1
64	420 ADVANCED MRI-BASED MEASUREMENTS AS SURROGATE MARKERS OF KOOS PAIN AND KOOS OTHER KNEE SYMPTOMS: DATA FROM THE OSTEOARTHRITIS INITIATIVE. Osteoarthritis and Cartilage, 2010, 18, S187.	1.3	1
65	393 SPATIO-TEMPORAL ANALYSIS OF THE SIGNIFICANT CHANGES IN CARTILAGE MORPHOLOGY: DATA FROM THE OSTEOARTHRITIS INITIATIVE. Osteoarthritis and Cartilage, 2011, 19, S181-S182.	1.3	1
66	The effect of anterior cruciate ligament injury on bone curvature over 5 years: the Kanon trial. Osteoarthritis and Cartilage, 2013, 21, S138-S139.	1.3	1
67	The peak adduction moment and adduction moment impulse at the knee relate to tibial and femoral cartilage morphology. Osteoarthritis and Cartilage, 2013, 21, S44.	1.3	1
68	MRI signal and texture features for the prediction of MCI to Alzheimer's disease progression. , 2014, , .		1
69	Osteoarthritis pain prediction using X-ray features: data from OAI. Osteoarthritis and Cartilage, 2014, 22, S275-S276.	1.3	1
70	3D thickness maps derived from automated segmentation of knee articular cartilage at 1.5 T: a feasibility study using 3D FS DESS, 3D PD FS FSE, and 2D PD FS FSE. Osteoarthritis and Cartilage, 2014, 22, S284.	1.3	1
71	Do Knee Moments Normalized to Measures of Knee Cartilage Area Better Classify the Severity of Knee Osteoarthritis?. Journal of Applied Biomechanics, 2015, 31, 415-422.	0.8	1
72	Knee mechanics interact with body mass index to predict cartilage loss over 2.5 years in people with clinical knee osteoarthritis. Osteoarthritis and Cartilage, 2016, 24, S47.	1.3	1

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73	Incorporating Breast Asymmetry Studies into CADx Systems. , 0, , .		1
74	Differences in the Progression from Mild Cognitive Impairment to Alzheimer's Disease between APOE4 Carriers and Non-Carriers. , 2019, , .		1
75	Radiological Pain Predictors in Knee Osteoarthritis, a Four Feature Selection Comparison: Data from the OAI. Lecture Notes in Computer Science, 2014, , 351-360.	1.3	1
76	<title>Local force model for cardiac dynamics analysis based on CT volumetric image sequences</title>. , 1997, 2962, 2.		0
77	An automated system for the analysis of peri-prosthetic osteolysis progression. Proceedings of SPIE, 2008, , .	0.8	0
78	119 OBJECTIVE IMAGE-BASED MULTIVARIABLE OA STAGE BIOMARKER: DEVELOPMENT AND CHARACTERIZATION USING THE OAI DATA SETS. Osteoarthritis and Cartilage, 2009, 17, S71-S72.	1.3	0
79	119 AUTOMATED MRI ATLAS-BASED STANDARDIZED QUANTIFICATION OF SUBCHONDRAL BONE PLATE CURVATURE: DATA FROM THE OSTEOARTHRITIS INITIATIVE. Osteoarthritis and Cartilage, 2010, 18, S60.	1.3	0
80	394 PREDICTION OF THE ONSET OF KNEE PAIN BY QUANTITATIVE MRI: DATA FROM THE OSTEOARTHRHIS INHIATIVE. Osteoarthritis and Cartilage, 2011, 19, S182.	1.3	0
81	Can bone shape predict who will have their knee replaced? - Data from the oai. Osteoarthritis and Cartilage, 2012, 20, S75-S76.	1.3	0
82	Do location and extent of bone shape abnormalities differentiate normal knees from those with end-stage disease? - data from the OAI. Osteoarthritis and Cartilage, 2012, 20, S211-S212.	1.3	0
83	Pre-operative evaluation of patients undergoing knee articular cartilage repair: MRI 3D thickness maps derived from a validated, automated segmentation platform - initial results. Osteoarthritis and Cartilage, 2013, 21, S202.	1.3	0
84	Quantitative MRI (QMRI) features predict symptomatic knee pain during the next year: data from the OAI. Osteoarthritis and Cartilage, 2014, 22, S262-S263.	1.3	0
85	qMRI-based risk factors for symptomatic knee pain: data from the OAI. Osteoarthritis and Cartilage, 2014, 22, S258-S259.	1.3	0
86	MRI morphological and quantitative evaluation of knee allograft repair at 3, 6 and 9 months post-op: early surveillance demonstrates nascent physiological incorporation of allograft material in pain free patients. Osteoarthritis and Cartilage, 2014, 22, S154-S155.	1.3	0
87	Can T2 predict who will develop ROA? Data from the OAI. Osteoarthritis and Cartilage, 2014, 22, S243-S244.	1.3	0
88	P3-210: T2 AND PROTON DENSITY SIGNAL- AND TEXTURE-RELATED FEATURES FOR THE PREDICTION OF MCI TO ALZHEIMER'S DISEASE PROGRESSION. , 2014, 10, P707-P708.		0
89	P1-168: A time series analysis of ADNI data reveals novel Alzheimer's-dementia-associated factors. , 2015, 11, P408-P409.		0
90	Variation in knee shape predicts the future onset of radiographic knee osteoarthritis (RKOA) and this variation is different in males compared to females. Osteoarthritis and Cartilage, 2015, 23, A208-A209.	1.3	0

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91	Knee osteoarthritis image registration: data from the Osteoarthritis Initiative. Proceedings of SPIE, 2015, , .	0.8	0
92	Detecting subjects at risk of radiological progression: Data from the OAI. Osteoarthritis and Cartilage, 2016, 24, S72-S73.	1.3	0
93	Compositional changes in tibiofemoral cartilage after running and bicycling. Osteoarthritis and Cartilage, 2016, 24, S286.	1.3	0
94	The effect of anterior cruciate ligament reconstruction on the area of subchondral bone covered by cartilage. Osteoarthritis and Cartilage, 2016, 24, S271.	1.3	0
95	Longitudinal gender-specific differences in the conversion from mild cognitive impairment to Alzheimer's disease. , 2018, , .		0
96	Evaluating the propensity of an elevated nutritional risk in osteoarthritis: data from the Canadian longitudinal study on aging. Osteoarthritis and Cartilage, 2018, 26, S256-S257.	1.3	0
97	Exploration and modeling of breast cancer radiomics data associated with recurrence outcomes. , 2021, , .		0
98	COVID-19 classification using thermal images. , 2021, , .		0
99	MRI for OA Diagnosis and Drug Development. , 2012, , 1-52.		0
100	Measuring hippocampal neuroanatomical asymmetry to better diagnose Alzheimer's disease. , 2019, , .		0
101	Prediction of MCI to AD risk of conversion survival models: qMRI vs CSF measures and cognitive assessments. , 2020, , .		0
102	Comparing Different Supervised Classification Algorithms to Detect Arrhythmia in an ECG. Lecture Notes in Networks and Systems, 2021, , 153-165.	0.7	0