

Usha Sinha

List of Publications by Year in descending order

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45
papers

1,794
citations

394421

19
h-index

265206

42
g-index

45
all docs

45
docs citations

45
times ranked

2104
citing authors

#	ARTICLE	IF	CITATIONS
1	Relationships between choline magnetic resonance spectroscopy, apparent diffusion coefficient and quantitative histopathology in human glioma. <i>Journal of Neuro-Oncology</i> , 2000, 50, 215-226.	2.9	251
2	In vivo diffusion-weighted MRI of the breast: Potential for lesion characterization. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 15, 693-704.	3.4	244
3	Inverse correlation between choline magnetic resonance spectroscopy signal intensity and the apparent diffusion coefficient in human glioma. <i>Magnetic Resonance in Medicine</i> , 1999, 41, 2-7.	3.0	150
4	In vivo diffusion tensor imaging of the human calf muscle. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 182-190.	3.4	145
5	Exploratory voxel-based analysis of diffusion indices and hemispheric asymmetry in normal aging. <i>Magnetic Resonance Imaging</i> , 2007, 25, 154-167.	1.8	116
6	Age-associated differences in triceps surae muscle composition and strength – an MRI-based cross-sectional comparison of contractile, adipose and connective tissue. <i>BMC Musculoskeletal Disorders</i> , 2014, 15, 209.	1.9	85
7	Geometric distortion correction of high-resolution 3 T diffusion tensor brain images. <i>Magnetic Resonance in Medicine</i> , 2005, 54, 1163-1171.	3.0	77
8	Functional Magnetic Resonance of Human Breast Tumors. <i>Annals of the New York Academy of Sciences</i> , 2002, 980, 95-115.	3.8	63
9	Human soleus muscle architecture at different ankle joint angles from magnetic resonance diffusion tensor imaging. <i>Journal of Applied Physiology</i> , 2011, 110, 807-819.	2.5	63
10	In vivo diffusion tensor imaging of human calf muscle. <i>Journal of Magnetic Resonance Imaging</i> , 2002, 15, 87-95.	3.4	60
11	Age-related differences in diffusion tensor indices and fiber architecture in the medial and lateral gastrocnemius. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 941-953.	3.4	44
12	Reproducibility analysis of diffusion tensor indices and fiber architecture of human calf muscles in vivo at 1.5 Tesla in neutral and plantarflexed ankle positions at rest. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 107-119.	3.4	41
13	Age-related differences in strain rate tensor of the medial gastrocnemius muscle during passive plantarflexion and active isometric contraction using velocity encoded MR imaging: Potential index of lateral force transmission. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 1852-1863.	3.0	39
14	Principal Component Analysis for Content-based Image Retrieval. <i>Radiographics</i> , 2002, 22, 1271-1289.	3.3	38
15	Phase imaging on a .2-T MR scanner: Application to temperature monitoring during ablation procedures. <i>Journal of Magnetic Resonance Imaging</i> , 1997, 7, 918-928.	3.4	34
16	A Review of Medical Imaging Informatics. <i>Annals of the New York Academy of Sciences</i> , 2002, 980, 168-197.	3.8	33
17	openSourcePACS: An Extensible Infrastructure for Medical Image Management. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2007, 11, 94-109.	3.2	24
18	Reduction of Electronic Noise From Radiofrequency Generator During Radiofrequency Ablation in Interventional MRI. <i>Journal of Computer Assisted Tomography</i> , 2002, 26, 308-316.	0.9	20

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19	Relationship of changes in strain rate indices estimated from velocity-encoded MR imaging to loss of muscle force following disuse atrophy. <i>Magnetic Resonance in Medicine</i> , 2018, 79, 912-922.	3.0	20
20	DataServer. <i>Academic Radiology</i> , 2002, 9, 670-678.	2.5	19
21	Black blood dual phase turbo FLASH MR imaging of the heart. <i>Journal of Magnetic Resonance Imaging</i> , 1996, 6, 484-494.	3.4	16
22	Microstructural analysis of skeletal muscle force generation during aging. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3295.	2.1	16
23	Role of the Extracellular Matrix in Loss of Muscle Force With Age and Unloading Using Magnetic Resonance Imaging, Biochemical Analysis, and Computational Models. <i>Frontiers in Physiology</i> , 2020, 11, 626.	2.8	16
24	Quantitative Metrics for Evaluating Parallel Acquisition Techniques in Diffusion Tensor Imaging at 3 Tesla. <i>Investigative Radiology</i> , 2006, 41, 806-814.	6.2	15
25	Shear strain rate from phase contrast velocity encoded MRI: Application to study effects of aging in the medial gastrocnemius muscle. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1351-1357.	3.4	15
26	Diffusion tensor imaging and diffusion modeling: Application to monitoring changes in the medial gastrocnemius in disuse atrophy induced by unilateral limb suspension. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 1655-1664.	3.4	15
27	Content Based Image Retrieval for MR Image Studies of Brain Tumors. , 2006, 2006, 3337-40.		14
28	Pixel-based meshfree modelling of skeletal muscles. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2016, 4, 73-85.	1.9	13
29	Teleradiology as a Foundation for an Enterprise-wide Health Care Delivery System. <i>Radiographics</i> , 2000, 20, 1137-1150.	3.3	12
30	Compressed sensing velocity encoded phase contrast imaging: Monitoring skeletal muscle kinematics. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 142-156.	3.0	12
31	Exploration of male urethral sphincter complex using diffusion tensor imaging (DTI)-based fiber-tracking. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1002-1011.	3.4	11
32	Interactive Software for Generation and Visualization of Structured Findings in Radiology Reports. <i>American Journal of Roentgenology</i> , 2000, 175, 609-612.	2.2	9
33	Mapping of spatial and temporal heterogeneity of plantar flexor muscle activity during isometric contraction: correlation of velocity-encoded MRI with EMG. <i>Journal of Applied Physiology</i> , 2015, 119, 558-568.	2.5	9
34	Physics-constrained local convexity data-driven modeling of anisotropic nonlinear elastic solids. <i>Data-Centric Engineering</i> , 2020, 1, .	2.3	9
35	Image Content Extraction: Application to MR Images of the Brain. <i>Radiographics</i> , 2001, 21, 535-547.	3.3	8
36	Magnetization transfer saturation imaging of human calf muscle: Reproducibility and sensitivity to regional and sex differences. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 1227-1237.	3.4	8

#	ARTICLE	IF	CITATIONS
37	3D Muscle Deformation Mapping at Submaximal Isometric Contractions: Applications to Aging Muscle. <i>Frontiers in Physiology</i> , 2020, 11, 600590.	2.8	7
38	Magnetic resonance imaging based muscle strain rate mapping during eccentric contraction to study effects of unloading induced by unilateral limb suspension. <i>European Journal of Translational Myology</i> , 2020, 30, 139-143.	1.7	7
39	3D multimodal spatial fuzzy segmentation of intramuscular connective and adipose tissue from ultrashort TE MR images of calf muscle. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 870-883.	3.0	6
40	Multiscale modeling of passive material influences on deformation and force output of skeletal muscles. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022, 38, e3571.	2.1	4
41	Pixel Based Meshfree Modeling of Skeletal Muscles. <i>Lecture Notes in Computer Science</i> , 2014, , 316-327.	1.3	3
42	Spin Lattice (T1) and Magnetization Transfer Saturation (MTsat) Imaging to Monitor Age-Related Differences in Skeletal Muscle Tissue. <i>Diagnostics</i> , 2022, 12, 584.	2.6	2
43	Designing a Patient Education Framework via Use Case Analysis. <i>Annals of the New York Academy of Sciences</i> , 2002, 980, 225-235.	3.8	1
44	Development of an indexed integrated neuroradiology reports for teaching file creation. , 2007, , .		0
45	Diffusion-Weighted and Diffusion Tensor Imaging: Applications in Skeletal Muscles. <i>Medical Radiology</i> , 2013, , 69-85.	0.1	0