

# Estanislao Arana

## List of Publications by Year in descending order

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104  
papers

1,984  
citations

201674

27  
h-index

289244

40  
g-index

119  
all docs

119  
docs citations

119  
times ranked

2675  
citing authors

#	ARTICLE	IF	CITATIONS
1	Classifying brain metastases by their primary site of origin using a radiomics approach based on texture analysis: a feasibility study. <i>European Radiology</i> , 2018, 28, 4514-4523.	4.5	106
2	Opportunistic screening for osteoporosis by routine CT in Southern Europe. <i>Osteoporosis International</i> , 2017, 28, 983-990.	3.1	94
3	Support vector machine classification of brain metastasis and radiation necrosis based on texture analysis in MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1362-1368.	3.4	83
4	Intradiploic epidermoid cysts. <i>Neuroradiology</i> , 1996, 38, 306-311.	2.2	81
5	Tumor Surface Regularity at MR Imaging Predicts Survival and Response to Surgery in Patients with Glioblastoma. <i>Radiology</i> , 2018, 288, 218-225.	7.3	78
6	Lumbar Spine: Agreement in the Interpretation of 1.5-T MR Images by Using the Nordic Modic Consensus Group Classification Form. <i>Radiology</i> , 2010, 254, 809-817.	7.3	66
7	Cognitive impairment: classification by <sup>1</sup> H magnetic resonance spectroscopy. <i>European Journal of Neurology</i> , 2004, 11, 187-193.	3.3	57
8	Spine Instability Neoplastic Score: agreement across different medical and surgical specialties. <i>Spine Journal</i> , 2016, 16, 591-599.	1.3	54
9	Influence of gray level and space discretization on brain tumor heterogeneity measures obtained from magnetic resonance images. <i>Computers in Biology and Medicine</i> , 2016, 78, 49-57.	7.0	53
10	CT and MR imaging of focal calvarial lesions.. <i>American Journal of Roentgenology</i> , 1999, 172, 1683-1688.	2.2	51
11	Universal scaling laws rule explosive growth in human cancers. <i>Nature Physics</i> , 2020, 16, 1232-1237.	16.7	50
12	Portal vein absence and nodular regenerative hyperplasia of the liver with giant inferior mesenteric vein. <i>Abdominal Imaging</i> , 1997, 22, 506-508.	2.0	47
13	Neurofibromatosis type 1 in children: MR imaging and follow-up studies of central nervous system findings. <i>European Journal of Radiology</i> , 1998, 26, 121-131.	2.6	47
14	Tumour heterogeneity in glioblastoma assessed by MRI texture analysis: a potential marker of survival. <i>British Journal of Radiology</i> , 2016, 89, 20160242.	2.2	47
15	Lack of robustness of textural measures obtained from 3D brain tumor MRIs impose a need for standardization. <i>PLoS ONE</i> , 2017, 12, e0178843.	2.5	47
16	Modic changes and associated features in Southern European chronic low back pain patients. <i>Spine Journal</i> , 2011, 11, 402-411.	1.3	46
17	Glioblastoma: does the pre-treatment geometry matter? A postcontrast T1 MRI-based study. <i>European Radiology</i> , 2017, 27, 1096-1104.	4.5	38
18	Dichotic listening and corpus callosum magnetic resonance imaging in relapsing-remitting multiple sclerosis with emphasis on sex differences.. <i>Neuropsychology</i> , 2002, 16, 275-281.	1.3	37

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19	Agreement in the interpretation of magnetic resonance images of the lumbar spine. <i>Acta Radiologica</i> , 2009, 50, 497-506.	1.1	35
20	Differentiation of benign and malignant lung lesions: Dual-Energy Computed Tomography findings. <i>European Journal of Radiology</i> , 2016, 85, 1765-1772.	2.6	35
21	Semiautomatic computer-aided classification of degenerative lumbar spine disease in magnetic resonance imaging. <i>Computers in Biology and Medicine</i> , 2015, 62, 196-205.	7.0	33
22	Effect of subcutaneous butylscopolamine administration in the reduction of peristaltic artifacts in 1.5-T MR fast abdominal examinations. <i>European Radiology</i> , 2003, 13, 294-298.	4.5	32
23	Craniopharyngiomas: identification of different semiological patterns with MRI. <i>European Radiology</i> , 2002, 12, 1829-1836.	4.5	30
24	Vertebral Endplate Changes Are Not Associated with Chronic Low Back Pain among Southern European Subjects: A Case Control Study. <i>American Journal of Neuroradiology</i> , 2012, 33, 1519-1524.	2.4	30
25	Brain metastases detection on MR by means of three-dimensional tumor appearance template matching. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 642-652.	3.4	30
26	A radiomics evaluation of 2D and 3D MRI texture features to classify brain metastases from lung cancer and melanoma. , 2017, 2017, 493-496.		30
27	Applied mathematics and nonlinear sciences in the war on cancer. <i>Applied Mathematics and Nonlinear Sciences</i> , 2016, 1, 423-436.	1.6	30
28	Primary Intraosseous Meningiomas. <i>Acta Radiologica</i> , 1996, 37, 937-942.	1.1	28
29	Semiautomatic Analysis of Phase Contrast Magnetic Resonance Imaging of Cerebrospinal Fluid Flow through the Aqueduct of Sylvius. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2006, 19, 78-87.	2.0	28
30	Appropriateness of lumbar spine magnetic resonance imaging in Spain. <i>European Journal of Radiology</i> , 2013, 82, 1008-1014.	2.6	27
31	Upper thoracic-spine disc degeneration in patients with cervical pain. <i>Skeletal Radiology</i> , 2004, 33, 29-33.	2.0	22
32	Corpus callosum function in verbal dichotic listening: Inferences from a longitudinal follow-up of Relapsing-Remitting Multiple Sclerosis patients. <i>Brain and Language</i> , 2009, 110, 101-105.	1.6	22
33	Disc degeneration and chronic low back pain: an association which becomes nonsignificant when endplate changes and disc contour are taken into account. <i>Neuroradiology</i> , 2014, 56, 25-33.	2.2	22
34	2D and 3D texture analysis to differentiate brain metastases on MR images: proceed with caution. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018, 31, 285-294.	2.0	22
35	Influence of Nomenclature in the Interpretation of Lumbar Disk Contour on MR Imaging: A Comparison of the Agreement Using the Combined Task Force and the Nordic Nomenclatures. <i>American Journal of Neuroradiology</i> , 2011, 32, 1143-1148.	2.4	21
36	Cost reduction in abdominal CT by weight-adjusted dose. <i>European Journal of Radiology</i> , 2009, 70, 507-511.	2.6	20

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37	Validation of Logistic Regression Models in Small Samples. Journal of Clinical Epidemiology, 1999, 52, 237-241.	5.0	19
38	Morphological MRI-based features provide pretreatment survival prediction in glioblastoma. European Radiology, 2019, 29, 1968-1977.	4.5	19
39	Prognostic models based on imaging findings in glioblastoma: Human versus Machine. Scientific Reports, 2019, 9, 5982.	3.3	16
40	Eikenella corrodens skull infection: A case report with review of the literature. World Neurosurgery, 1997, 47, 389-391.	1.3	15
41	Agreement between semi-automatic radiographic morphometry and Genant semi-quantitative method in the assessment of vertebral fractures. Osteoporosis International, 2012, 23, 2129-2134.	3.1	14
42	Validation Procedures in Radiologic Diagnostic Models. Investigative Radiology, 1999, 34, 636.	6.2	14
43	Relationship between low back pain, disability, MR imaging findings and health care provider. Skeletal Radiology, 2006, 35, 641-647.	2.0	13
44	Agreement in the assessment of metastatic spine disease using scoring systems. Radiotherapy and Oncology, 2015, 115, 135-140.	0.6	13
45	A fully automated level-set based segmentation method of thoracic and lumbar vertebral bodies in Computed Tomography images. , 2015, 2015, 3049-52.		11
46	Tumor Surface Regularity at MR Imaging Predicts Survival and Response to Surgery in Patients with Glioblastoma. Radiology, 0, , 171051.	7.3	11
47	Relationship between Northwick Park neck pain questionnaire and cervical spine MR imaging findings. European Spine Journal, 2006, 15, 1183-1188.	2.2	10
48	Morphologic Features on MR Imaging Classify Multifocal Glioblastomas in Different Prognostic Groups. American Journal of Neuroradiology, 2019, 40, 634-640.	2.4	10
49	Qualitative diagnosis of calvarial metastasis by neural network and logistic regression1. Academic Radiology, 2004, 11, 45-52.	2.5	9
50	Transparency Interrupted. JAMA Internal Medicine, 2013, 173, 2009.	5.1	9
51	Computer-aided detection of brain metastases using a three-dimensional template-based matching algorithm. , 2014, 2014, 2384-7.		9
52	Micro-computed tomography image-based evaluation of 3D anisotropy degree of polymer scaffolds. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 446-455.	1.6	9
53	Usefulness of ultrasound in dermatofibrosarcoma protuberans and correlation with histopathological findings: A series of 30 cases. Skin Research and Technology, 2021, 27, 701-708.	1.6	9
54	Dural enhancement with primary calvarial lesions. Neuroradiology, 2004, 46, 900-905.	2.2	8

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55	Intradiploic epidermoid cysts. <i>Neuroradiology</i> , 1996, 38, 306-311.	2.2	8
56	Focal Calvarial Bone Lesions. <i>Investigative Radiology</i> , 1998, 33, 738-745.	6.2	8
57	Overenthusiastic Interpretations of a Nonetheless Promising Study. <i>Transplantation</i> , 2012, 93, e6-e7.	1.0	7
58	Dichotic listening and corpus callosum magnetic resonance imaging in relapsing-remitting multiple sclerosis with emphasis on sex differences. <i>Neuropsychology</i> , 2002, 16, 275-81.	1.3	7
59	Calvarial eosinophilic granuloma: Diagnostic models and image feature selection with a neural network. <i>Academic Radiology</i> , 1998, 5, 427-434.	2.5	6
60	Magnetic resonance myelography evaluation of the lumbar spine end plates and intervertebral disks. <i>Acta Radiologica</i> , 2005, 46, 83-88.	1.1	6
61	Tratamiento no quirúrgico del schwannoma vestibular. <i>Acta Otorrinolaringológica Española</i> , 2015, 66, 185-191.	0.4	6
62	Metastatic Versus Osteoporotic Vertebral Fractures on MRI: A Blinded, Multicenter, and Multispecialty Observer Agreement Evaluation. <i>Journal of the National Comprehensive Cancer Network: JNCCN</i> , 2020, 18, 267-273.	4.9	6
63	Concomitant lower thoracic spine disc disease in lumbar spine MR imaging studies. <i>European Radiology</i> , 2002, 12, 2794-2798.	4.5	5
64	MR-myelography as an adjunct to the MR examination of the degenerative spine. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2004, 16, 203-210.	2.0	5
65	Functional diffusion map: A biomarker of brain metastases response to treatment based on magnetic resonance image analysis. , 2015, 2015, 4282-5.		5
66	Patología degenerativa en la columna lumbar. <i>Radiologia</i> , 2016, 58, 26-34.	0.5	5
67	Lung Metastases from Esophageal Granular Cell Tumor: An Undoubted Criterion for Malignancy. <i>Journal of Thoracic Oncology</i> , 2017, 12, 1320-1322.	1.1	5
68	Brain Metastasis Response to Stereotactic Radio Surgery: A Mathematical Approach. <i>Mathematics</i> , 2021, 9, 716.	2.2	5
69	Cost-effectiveness of iodinated contrast media for CT scanning in Spain: a decision-based analysis. <i>Imaging in Medicine</i> , 2012, 4, 193-199.	0.0	4
70	Letters. <i>Spine</i> , 2012, 37, 1014-1015.	2.0	4
71	Evaluación económica de intervenciones en enfermedades oncológicas en España: revisión sistemática y análisis comparativo. <i>Farmacia Hospitalaria</i> , 2012, 36, 141-147.	0.6	4
72	Automatic segmentation of the spine by means of a probabilistic atlas with a special focus on ribs suppression. Preliminary results. , 2015, 2015, 2014-7.		4

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73	Ki-67 immunoexpression and radiological assessment of necrosis improves accuracy of conventional and modified core biopsy systems in predicting the final grade assigned to adult-soft tissue sarcomas. An international collaborative study. <i>Pathology Research and Practice</i> , 2021, 225, 153562.	2.3	4
74	Comparison of different injection forms in CT examination of the upper abdomen. <i>Abdominal Imaging</i> , 2003, 28, 799-804.	2.0	3
75	Uncertainties in the Measurement of Lumbar Spinal Stenosis at MR Imaging: Are They Clinically Relevant?. <i>Radiology</i> , 2012, 263, 310-311.	7.3	3
76	A semiautomatic segmentation method, solid tissue classification and 3D reconstruction of mandible from computed tomography imaging for biomechanical analysis. , 2012, , .		3
77	A fully automated method for spinal canal detection in computed tomography images. , 2014, 2014, 5514-7.		3
78	Identifying the primary site of origin of MRI brain metastases from lung and breast cancer following a 2D radiomics approach. , 2017, , .		3
79	Low-high and high-low biphasic injection forms in computed tomography examinations of the upper abdomen. <i>Acta Radiologica</i> , 2006, 47, 10-14.	1.1	2
80	Fully automatic spinal canal segmentation for radiation therapy using a Gradient Vector Flow-based method on computed tomography images: A preliminary study. , 2014, 2014, 5518-21.		2
81	Malignant granular cell tumor of the cervical esophagus with loco-regional lymph node metastases. <i>Esophagus</i> , 2015, 12, 377-382.	1.9	2
82	Cartas al Director. <i>Radiologia</i> , 2007, 49, 455.	0.5	1
83	Estimating intracranial fluid dynamics using quantitative analyses of phase contrast magnetic resonance images. <i>Radiologia</i> , 2010, 52, 51-57.	0.5	1
84	Letters. <i>Spine</i> , 2012, 37, 1184-1185.	2.0	1
85	Letters. <i>Spine</i> , 2013, 38, 1901.	2.0	1
86	Automatic detection of local arterial input functions through Independent Component Analysis on Dynamic Contrast enhanced Magnetic Resonance Imaging. , 2015, 2015, 4294-7.		1
87	Comment on "Computer-Extracted Texture Features to Distinguish Cerebral Radionecrosis from Recurrent Brain Tumors on Multiparametric MRI: A Feasibility Study". <i>American Journal of Neuroradiology</i> , 2017, 38, E21-E21.	2.4	1
88	Administration of iodinated contrast: What is the risk in cancer patients?. <i>European Journal of Cancer Care</i> , 2021, 30, e13351.	1.5	1
89	Methodological concerns of "Intra-osseous basivertebral nerve radiofrequency ablation (BVA) for the treatment of vertebrogenic chronic low back pain". <i>Neuroradiology</i> , 2021, 63, 1747-1748.	2.2	1
90	Diagnostic imaging of focal calvarial bone lesions. Comparison of statistical and neural network models [in Spanish]. <i>Medical Physics</i> , 1998, 25, 361-361.	3.0	0

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91	Dementia spectroscopy and diagnostic yield. British Journal of Radiology, 2009, 82, 172-172.	2.2	0
92	Phraseology of disk herniation: An unproductive debate. Clinical Radiology, 2011, 66, 896.	1.1	0
93	Reply.. American Journal of Neuroradiology, 2013, 34, E9-E9.	2.4	0
94	TO THE EDITOR. Spine, 2013, 38, 93.	2.0	0
95	A Diffusely Hardened Thyroid Gland and Multiple Neck Lymphadenopathies. JAMA Otolaryngology - Head and Neck Surgery, 2015, 141, 181.	2.2	0
96	Algorithm programming for 3D fractal dimension evaluation. , 2016, , .		0
97	Re: "Prediction of skeletal-related events in patients with non-small cell lung cancer" use of Spine Instability Neoplastic Score (SINS). Supportive Care in Cancer, 2016, 24, 3273-3274.	2.2	0
98	The use of subject-specific Finite Element analysis of L1-L4 vertebra to screening osteoporosis in postmenopausal women. , 2017, 2017, 1832-1835.		0
99	Re: Are Modic changes associated with intervertebral disc cytokine profiles?. Spine Journal, 2018, 18, 377.	1.3	0
100	Letter regarding "Consensus recommendations for a standardized brain tumor imaging protocol for clinical trials in brain metastases" Neuro-Oncology, 2020, 22, 1705-1705.	1.2	0
101	Ethnic and socioeconomic biases may lead to unexpected positive consequences for patients. Spine Journal, 2020, 20, 1517.	1.3	0
102	Validation Procedures in Radiological Diagnostic Models. Neural Network and Logistic Regression. SSRN Electronic Journal, 0, , .	0.4	0
103	Dichotic listening and corpus callosum magnetic resonance imaging in relapsing-remitting multiple sclerosis with emphasis on sex differences.. Neuropsychology, 2002, 16, 275-281.	1.3	0
104	Malformaci3n cavernomatosa de la vena porta. Anales De Pediatr3a, 2007, 67, 611-613.	0.2	0