Bradley J Erickson

List of Publications by Year
in descending order

149	7,618	81839 39	58549 82
papers	citations	h-index	g-index

150	150	150	10278
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Machine Learning for Medical Imaging. Radiographics, 2017, 37, 505-515.	1.4	994
2	Deep Learning for Brain MRI Segmentation: State of the Art and Future Directions. Journal of Digital Imaging, 2017, 30, 449-459.	1.6	758
3	Imaging Classification of Autosomal Dominant Polycystic Kidney Disease. Journal of the American Society of Nephrology: JASN, 2015, 26, 160-172.	3.0	439
4	Consensus recommendations for a standardized Brain Tumor Imaging Protocol in clinical trials. Neuro-Oncology, 2015, 17, 1188-98.	0.6	346
5	The RSNA Pediatric Bone Age Machine Learning Challenge. Radiology, 2019, 290, 498-503.	3.6	277
6	The Effects of Changes in Utilization and Technological Advancements ofÂCross-Sectional Imaging onÂRadiologist Workload. Academic Radiology, 2015, 22, 1191-1198.	1.3	266
7	A Roadmap for Foundational Research on Artificial Intelligence in Medical Imaging: From the 2018 NIH/RSNA/ACR/The Academy Workshop. Radiology, 2019, 291, 781-791.	3.6	241
8	Automated Abdominal Segmentation of CT Scans for Body Composition Analysis Using Deep Learning. Radiology, 2019, 290, 669-679.	3.6	219
9	A Survey of Deep-Learning Applications in Ultrasound: Artificial Intelligenceâ€“Powered Ultrasound for Improving Clinical Workflow. Journal of the American College of Radiology, 2019, 16, 1318-1328.	0.9	170
10	Predicting Deletion of Chromosomal Arms 1p/19q in Low-Grade Gliomas from MR Images Using Machine Intelligence. Journal of Digital Imaging, 2017, 30, 469-476.	1.6	167
11	FLAIR histogram segmentation for measurement of leukoaraiosis volume. Journal of Magnetic Resonance Imaging, 2001, 14, 668-676.	1.9	152
12	Residual Deep Convolutional Neural Network Predicts MGMT Methylation Status. Journal of Digital Imaging, 2017, 30, 622-628.	1.6	152
13	MRI texture features as biomarkers to predict MGMT methylation status in glioblastomas. Medical Physics, 2016, 43, 2835-2844.	1.6	142
14	Validation of neuroradiologic response assessment in gliomas: Measurement by RECIST, two-dimensional, computer-assisted tumor area, and computer-assisted tumor volume methods1. Neuro-Oncology, 2006, 8, 156-165.	0.6	117
15	Toolkits and Libraries for Deep Learning. Journal of Digital Imaging, 2017, 30, 400-405.	1.6	116
16	Performance of an Artificial Multi-observer Deep Neural Network for Fully Automated Segmentation of Polycystic Kidneys. Journal of Digital Imaging, 2017, 30, 442-448.	1.6	112
17	Consensus recommendations for a dynamic susceptibility contrast MRI protocol for use in high-grade gliomas. Neuro-Oncology, 2020, 22, 1262-1275.	0.6	109
18	Quantitative Imaging in Cancer Clinical Trials. Clinical Cancer Research, 2016, 22, 284-290.	3.2	106

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19	Deep Learning in Radiology: Does One SizeÂFit All?. Journal of the American College of Radiology, 2018, 15, 521-526.	0.9	96
20	The RSNA International COVID-19 Open Radiology Database (RICORD). Radiology, 2021, 299, E204-E213.	3.6	95
21	Challenges Related to Artificial Intelligence Research in Medical Imaging and the Importance of Image Analysis Competitions. Radiology: Artificial Intelligence, 2019, 1, e180031.	3.0	88
22	Discerning Tumor Status from Unstructured MRI Reportsâ€"Completeness of Information in Existing Reports and Utility of Automated Natural Language Processing. Journal of Digital Imaging, 2010, 23, 119-132.	1.6	85
23	Irreversible Compression of Medical Images. Journal of Digital Imaging, 2002, 15, 5-14.	1.6	83
24	RIL-Contour: a Medical Imaging Dataset Annotation Tool for and with Deep Learning. Journal of Digital Imaging, 2019, 32, 571-581.	1.6	72
25	Brain Gliomas: Multicenter Standardized Assessment of Dynamic Contrast-enhanced and Dynamic Susceptibility Contrast MR Images. Radiology, 2018, 287, 933-943.	3.6	70
26	Automatic Measurement of Kidney and Liver Volumes from MR Images of Patients Affected by Autosomal Dominant Polycystic Kidney Disease. Journal of the American Society of Nephrology: JASN, 2019, 30, 1514-1522.	3.0	67
27	Addressing the Coming Radiology Crisis?The Society for Computer Applications in Radiology Transforming the Radiological Interpretation Process (TRIP?) Initiative. Journal of Digital Imaging, 2004, 17, 235-243.	1.6	66
28	Computer-Aided Detection of Intracranial Aneurysms in MR Angiography. Journal of Digital Imaging, 2011, 24, 86-95.	1.6	65
29	Computer-Aided Detection and Diagnosis at the Start of the Third Millennium. Journal of Digital Imaging, 2002, 15, 59-68.	1.6	60
30	What Does Deep Learning See? Insights From a Classifier Trained to Predict Contrast Enhancement Phase From CT Images. American Journal of Roentgenology, 2018, 211, 1184-1193.	1.0	58
31	Image texture features predict renal function decline in patients with autosomal dominantÂpolycystic kidney disease. Kidney International, 2017, 92, 1206-1216.	2.6	54
32	Magicianâ€™s Corner: 9. Performance Metrics for Machine Learning Models. Radiology: Artificial Intelligence, 2021, 3, e200126.	3.0	54
33	An analytical look at the effects of compression on medical images. Journal of Digital Imaging, 1997, 10, 60-66.	1.6	53
34	Automated Segmentation of Hyperintense Regions in FLAIR MRI Using Deep Learning. Tomography, 2016, 2, 334-340.	0.8	52
35	A Deep Learning Tool for Automated Radiographic Measurement of Acetabular Component Inclination and Version After Total Hip Arthroplasty. Journal of Arthroplasty, 2021, 36, 2510-2517.e6.	1.5	52
36	3 Tesla magnetic resonance imaging with and without corticotropin releasing hormone stimulation for the detection of microadenomas in Cushingâ€™s syndrome. Clinical Endocrinology, 2010, 72, 793-799.	1.2	46

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37	Generative Adversarial Networks to Synthesize Missing T1 and FLAIR MRI Sequences for Use in a Multisequence Brain Tumor Segmentation Model. Radiology, 2021, 299, 313-323.	3.6	46
38	Deep learning can see the unseeable: predicting molecular markers from MRI of brain gliomas. Clinical Radiology, 2019, 74, 367-373.	0.5	44
39	Multisite Concordance of DSC-MRI Analysis for Brain Tumors: Results of a National Cancer Institute Quantitative Imaging Network Collaborative Project. American Journal of Neuroradiology, 2018, 39, 1008-1016.	1.2	43
40	Phase 1/2 trial of temsirolimus and sorafenib in the treatment of patients with recurrent glioblastoma: North Central Cancer Treatment Group Study/Alliance N0572. Cancer, 2018, 124, 1455-1463.	2.0	41
41	Automatic total kidney volume measurement on follow-up magnetic resonance images to facilitate monitoring of autosomal dominant polycystic kidney disease progression. Nephrology Dialysis Transplantation, 2016, 31, gfv314.	0.4	40
42	SOUP-GAN: Super-Resolution MRI Using Generative Adversarial Networks. Tomography, 2022, 8, 905-919.	0.8	40
43	A quantitative symmetryâ€based analysis of hyperacute ischemic stroke lesions in noncontrast computed tomography. Medical Physics, 2017, 44, 192-199.	1.6	39
44	A Review of the Automated Detection of Change in Serial Imaging Studies of the Brain. Journal of Digital Imaging, 2004, 17, 158-174.	1.6	38
45	Image Sharing: Evolving Solutions in the Age of Interoperability. Journal of the American College of Radiology, 2014, 11, 1260-1269.	0.9	37
46	Quantitative MRI of kidneys in renal disease. Abdominal Radiology, 2018, 43, 629-638.	1.0	37
47	Utilizing magnetization transfer imaging to investigate tissue remodeling in a murine model of autosomal dominant polycystic kidney disease. Magnetic Resonance in Medicine, 2016, 75, 1466-1473.	1.9	35
48	Evaluation of irreversible compression of digitized posterior-anterior chest radiographs. Journal of Digital Imaging, 1997, 10, 97-102.	1.6	33
49	Differences Between Schizophrenic and Normal Subjects Using Network Properties from fMRI. Journal of Digital Imaging, 2018, 31, 252-261.	1.6	33
50	Deep Learning Artificial Intelligence Model for Assessment of Hip Dislocation Risk Following Primary Total Hip Arthroplasty From Postoperative Radiographs. Journal of Arthroplasty, 2021, 36, 2197-2203.e3.	1.5	32
51	Semiautomated Segmentation of Polycystic Kidneys in T2-Weighted MR Images. American Journal of Roentgenology, 2016, 207, 605-613.	1.0	31
52	Automatic semantic segmentation of kidney cysts in MR images of patients affected by autosomal-dominant polycystic kidney disease. Abdominal Radiology, 2021, 46, 1053-1061.	1.0	29
53	Electronic imaging impact on image and report turnaround times. Journal of Digital Imaging, 1999, 12, 155-159.	1.6	28
54	Basic Artificial Intelligence Techniques. Radiologic Clinics of North America, 2021, 59, 933-940.	0.9	27

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55	Robust brain extraction tool for CT head images. Neurocomputing, 2020, 392, 189-195.	3.5	25
56	Clinical, biological, radiological, and pathological comparison of sparsely and densely granulated somatotroph adenomas: a single center experience from a cohort of 131 patients with acromegaly. Pituitary, 2021, 24, 192-206.	1.6	25
57	Evaluating Multisite rCBV Consistency from DSC-MRI Imaging Protocols and Postprocessing Software Across the NCI Quantitative Imaging Network Sites Using a Digital Reference Object (DRO). Tomography, 2019, 5, 110-117.	0.8	25
58	Semi-automated segmentation of pre-operative low grade gliomas in magnetic resonance imaging. Cancer Imaging, 2015, 15, 12.	1.2	24
59	Automated segmentation of endometrial cancer on MR images using deep learning. Scientific Reports, 2021, 11, 179.	1.6	24
60	Patient-directed Internet-based Medical Image Exchange:. Academic Radiology, 2016, 23, 237-244.	1.3	23
61	Using germline variants to estimate glioma and subtype risks. Neuro-Oncology, 2019, 21, 451-461.	0.6	23
62	The Role of Open-Source Software in Innovation and Standardization in Radiology. Journal of the American College of Radiology, 2005, 2, 927-931.	0.9	22
63	Variability and accuracy of different software packages for dynamic susceptibility contrast magnetic resonance imaging for distinguishing glioblastoma progression from pseudoprogression. Journal of Medical Imaging, 2015, 2, 026001.	0.8	20
64	Requirements for an Enterprise Digital Image Archive. Journal of Digital Imaging, 2001, 14, 72-82.	1.6	19
65	Triple-dose contrast/magnetization transfer suppressed imaging of 'non-enhancing' brain gliomas. Journal of Neuro-Oncology, 2002, 60, 25-29.	1.4	19
66	REAL-TIME MUTUAL-INFORMATION-BASED LINEAR REGISTRATION ON THE CELL BROADBAND ENGINE PROCESSOR. , 2007, , .		19
67	Experience with Importation of Electronic Images into the Medical Record from Physical Media. Journal of Digital Imaging, 2011, 24, 694-699.	1.6	19
68	Complete abdomen and pelvis segmentation using Uâ€net variant architecture. Medical Physics, 2020, 47, 5609-5618.	1.6	17
69	Induction of Leptin Expression in Orbital Preadipocyte Fibroblasts. Thyroid, 2001, 11, 221-226.	2.4	16
70	Part 2. Automated Change Detection and Characterization Applied to Serial MR of Brain Tumors may Detect Progression Earlier than Human Experts. Journal of Digital Imaging, 2007, 20, 321-328.	1.6	16
71	Difference in white matter microstructure in differential diagnosis of normal pressure hydrocephalus and Alzheimer's disease. Clinical Neurology and Neurosurgery, 2016, 140, 52-59.	0.6	16
72	Machine Learning: Discovering the Future of Medical Imaging. Journal of Digital Imaging, 2017, 30, 391-391.	1.6	16

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73	Image display for clinicians on medical record workstations. Journal of Digital Imaging, 1997, 10, 38-40.	1.6	15
74	Magicianâ€™s Corner: How to Start Learning about Deep Learning. Radiology: Artificial Intelligence, 2019, 1, e190072.	3.0	15
75	Fully Automated Segmentation of Head CT Neuroanatomy Using Deep Learning. Radiology: Artificial Intelligence, 2020, 2, e190183.	3.0	15
76	A randomized phase 1b cross-over study of the safety of low-dose pioglitazone for treatment of autosomal dominant polycystic kidney disease. CKJ: Clinical Kidney Journal, 2021, 14, 1738-1746.	1.4	15
77	Semantic Instance Segmentation of Kidney Cysts in MR Images: A Fully Automated 3D Approach Developed Through Active Learning. Journal of Digital Imaging, 2021, 34, 773-787.	1.6	15
78	Cerebral blood volume and apparent diffusion coefficient â€“ Valuable predictors of non-response to bevacizumab treatment in patients with recurrent glioblastoma. Journal of the Neurological Sciences, 2019, 405, 116433.	0.3	14
79	The basics of diffusion and perfusion imaging in brain tumors. Applied Radiology, 2014, 43, 22-29.	0.1	14
80	Performance and function of a desktop viewer at mayo clinic scottsdale. Journal of Digital Imaging, 2000, 13, 147-152.	1.6	13
81	Redefining the 3D Topography of the Acetabular Safe Zone. Journal of Bone and Joint Surgery - Series A, 2022, 104, 239-245.	1.4	13
82	An algorithm for automatic segmentation and classification of magnetic resonance brain images. Journal of Digital Imaging, 1998, 11, 74-82.	1.6	12
83	MIRMAID: A Content Management System for Medical Image Analysis Research. Radiographics, 2015, 35, 1461-1468.	1.4	12
84	<scp>Magnetic Resonance Imaging</scp> Correlates of Multiple Sclerosis Immunopathological Patterns. Annals of Neurology, 2021, 90, 440-454.	2.8	12
85	Evaluating the Use of rCBV as a Tumor Grade and Treatment Response Classifier Across NCI Quantitative Imaging Network Sites: Part II of the DSC-MRI Digital Reference Object (DRO) Challenge. Tomography, 2020, 6, 203-208.	0.8	12
86	Automated measurement of total kidney volume from 3D ultrasound images of patients affected by polycystic kidney disease and comparison to MR measurements. Abdominal Radiology, 2022, 47, 2408-2419.	1.0	12
87	DEWEY: The DICOM-Enabled Workflow Engine System. Journal of Digital Imaging, 2014, 27, 309-313.	1.6	11
88	Functional requirements of a desktop clinical image display application. Journal of Digital Imaging, 2001, 14, 149-152.	1.6	10
89	Standards for Business Analytics and Departmental Workflow. Journal of Digital Imaging, 2013, 26, 53-57.	1.6	10
90	Multisite Image Data Collection and Management Using the RSNA Image Sharing Network. Translational Oncology, 2014, 7, 36-39.	1.7	10

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91	Usefulness of dynamic <scp>MRI</scp> enhancement measures for the diagnosis of <scp>ACTH</scp>â€producing pituitary adenomas. Clinical Endocrinology, 2015, 82, 267-273.	1.2	10
92	Extraction of brain tissue from CT head images using fully convolutional neural networks. , 2018, , .		10
93	Clinician usage patterns of a desktop radiology information display application. Journal of Digital Imaging, 1998, 11, 137-141.	1.6	9
94	Supervised Segmentation of Polycystic Kidneys: a New Application for Stereology Data. Journal of Digital Imaging, 2014, 27, 514-519.	1.6	9
95	Standardizing total kidney volume measurements for clinical trials of autosomal dominant polycystic kidney disease. CKJ: Clinical Kidney Journal, 2019, 12, 71-77.	1.4	9
96	Deep Learning for Radiographic Measurement of Femoral Component Subsidence Following Total Hip Arthroplasty. Radiology: Artificial Intelligence, 2022, 4, .	3.0	9
97	New Opportunities in Computer-Aided Diagnosis: Change Detection and Characterization. Journal of the American College of Radiology, 2006, 3, 468-469.	0.9	8
98	Web based tools for visualizing imaging data and development of XNATView, a zero footprint image viewer. Frontiers in Neuroinformatics, 2014, 8, 53.	1.3	8
99	Determining age and sex-specific distribution of pancreatic whole-gland CT attenuation using artificial intelligence aided image segmentation: Associations with body composition and pancreatic cancer risk. Pancreatology, 2021, 21, 1524-1530.	0.5	8
100	Evaluation of the accuracy of a continuous speech recognition software system in radiology. Journal of Digital Imaging, 2000, 13, 211-212.	1.6	7
101	Automated detection of Focal Cortical Dysplasia lesions on T1-weighted MRI using volume-based distributional features. , 2011, , .		7
102	Towards a More Cloud-Friendly Medical Imaging Applications Architecture: A Modest Proposal. Journal of Digital Imaging, 2013, 26, 58-64.	1.6	7
103	Where size matters: imaging-based biomarkers for patient stratification. Neuro-Oncology, 2017, 19, 7-8.	0.6	7
104	Magicianâ€™s Corner: 4. Image Segmentation with U-Net. Radiology: Artificial Intelligence, 2020, 2, e190161.	3.0	7
105	Reduction of unnecessary thyroid biopsies using deep learning. , 2019, , .		7
106	Dynamic Susceptibility Contrast-MRI Quantification Software Tool: Development and Evaluation. Tomography, 2016, 2, 448-456.	0.8	7
107	Image registration improves confidence and accuracy of image interpretation. Cancer Informatics, 2007, 4, 19-24.	0.9	7
108	Effect of Automated Image Registration on Radiologist Interpretation. Journal of Digital Imaging, 2007, 20, 105-113.	1.6	6

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109	A Multicenter Observer Performance Study of 3D JPEG2000 Compression of Thin-Slice CT. Journal of Digital Imaging, 2010, 23, 639-643.	1.6	6
110	Whitepapers on Imaging Infrastructure for Research. Journal of Digital Imaging, 2012, 25, 449-453.	1.6	6
111	The diagnosis and outcome of Krukenberg tumors. Journal of Gastrointestinal Oncology, 2021, 12, 226-236.	0.6	6
112	Deep Neural Network for Cardiac Magnetic Resonance Image Segmentation. Journal of Imaging, 2022, 8, 149.	1.7	6
113	Whitepapers on Imaging Infrastructure for Research Part Three: Security and Privacy. Journal of Digital Imaging, 2012, 25, 692-702.	1.6	5
114	Imaging Infrastructure for Research. Part 2. Data Management Practices. Journal of Digital Imaging, 2012, 25, 566-569.	1.6	5
115	Magicianâ€™s Corner: 2. Optimizing a Simple Image Classifier. Radiology: Artificial Intelligence, 2019, 1, e190113.	3.0	5
116	Magicianâ€™s Corner: 7. Using Convolutional Neural Networks to Reduce Noise in Medical Images. Radiology: Artificial Intelligence, 2020, 2, e200036.	3.0	5
117	Automated Aneurysm Detection: Emerging from the Shallow End of the Deep Learning Pool. Radiology, 2021, 298, 164-165.	3.6	5
118	Deep Learning Improves the Temporal Reproducibility of Aortic Measurement. Journal of Digital Imaging, 2021, 34, 1183-1189.	1.6	5
119	Evaluating a picture archiving communication system workstation. Journal of Digital Imaging, 1997, 10, 12-13.	1.6	4
120	Impact of electronic imaging on clinician behavior in the urgent care setting. Journal of Digital Imaging, 1999, 12, 148-151.	1.6	4
121	Imaging in Clinical Trials. Cancer Informatics, 2007, 4, 117693510700400.	0.9	4
122	Emergent, After Hours Magnetic Resonance Imaging of the Spine. Journal of Neuroimaging, 2015, 25, 590-594.	1.0	4
123	Magicianâ€™s Corner: 6. TensorFlow and TensorBoard. Radiology: Artificial Intelligence, 2020, 2, e200012.	3.0	4
124	Persistent homology approach distinguishes potential pattern between â€œEarlyâ€•and â€œNot Earlyâ€•hepatic decompensation groups using MRI modalities. Current Directions in Biomedical Engineering, 2021, 7, 488-491.	0.2	4
125	READS: A radiology-oriented electronic analysis and display station. Journal of Digital Imaging, 1997, 10, 67-69.	1.6	3
126	Evaluating a picture archiving and communications system workstation. Journal of Digital Imaging, 1999, 12, 223-225.	1.6	3

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127	Fully Automated and Robust Tracking of Transient Waves inÂStructured Anatomies Using Dynamic Programming. Ultrasound in Medicine and Biology, 2016, 42, 2504-2512.	0.7	3
128	Magicianâ€™s Corner: 5. Generative Adversarial Networks. Radiology: Artificial Intelligence, 2020, 2, e190215.	3.0	3
129	Evaluation of a deep learning architecture for MR imaging prediction of ATRX in glioma patients. , 2018, , .		3
130	Predictive modeling, machine learning, and statistical issues. , 2019, , 151-168.		3
131	Imaging in clinical trials. Cancer Informatics, 2007, 4, 13-8.	0.9	3
132	The evolution of electronic imaging in the medical environment. Journal of Digital Imaging, 1998, 11, 71-74.	1.6	2
133	Image Registration Improves Confidence and Accuracy of Image Interpretation. Cancer Informatics, 2007, 4, 117693510700400.	0.9	2
134	Change Detection & Characterization: A New Tool for Imaging Informatics and Cancer Research. Cancer Informatics, 2007, 4, 117693510700400.	0.9	2
135	Increased signal intensity within glioblastoma resection cavities on fluid-attenuated inversion recovery imaging to detect early progressive disease in patients receiving radiotherapy with concomitant temozolomide therapy. Neuroradiology, 2018, 60, 35-42.	1.1	2
136	Magicianâ€™s Corner: 3. Image Wrangling. Radiology: Artificial Intelligence, 2019, 1, e190126.	3.0	2
137	Can my computer tell me if this tumor is IDH mutated?. Neuro-Oncology, 2020, 22, 311-312.	0.6	2
138	Artificial intelligence in medicine: Technical basis and clinical applications. , 2021, , 19-34.		2
139	Imaging Systems in Radiology. , 2021, , 733-753.		2
140	Thyroid Nodule Size as a Predictor of Malignancy in Follicular and Hurthle Neoplasms. Asian Pacific Journal of Cancer Prevention, 2021, 22, 2597-2602.	0.5	2
141	Betti-Number Based Machine-Learning Classifier Frame-work for Predicting the Hepatic Decompensation in Patients with Primary Sclerosing Cholangitis. , 2022, , .		2
142	A method for rapid computation of maximum intensity projection images. Journal of Digital Imaging, 1997, 10, 207-208.	1.6	1
143	Semiautomated Quantitation of Carotid Artery Stenosis in Gadolinium-Bolus Magnetic Resonance Angiography. Journal of Digital Imaging, 2002, 15, 69-77.	1.6	1
144	Characteristics of Dynamic Magnetic Resonance Image Enhancement in Prolactinomas Resistant to Dopamine Agonist Therapy. Journal of Investigative Medicine, 2015, 63, 529-533.	0.7	1

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145	Magicianâ€™s Corner: 8: How to Connect an Artificial Intelligence Tool to PACS. Radiology: Artificial Intelligence, 2021, 3, e200105.	3.0	1
146	Change detection & characterization: a new tool for imaging informatics and cancer research. Cancer Informatics, 2007, 4, 1-11.	0.9	1
147	Utilization of computerized tomography scan in the management of acute pancreatitis at a large tertiary institution. Pancreatology, 2021, 22, 83-83.	0.5	0
148	BPNSTs: In the eye of the beholder. Neuro-Oncology, 2022, , .	0.6	0
149	Genome-wide expression reveals potential biomarkers in breast cancer bone metastasis. Journal of Integrative Bioinformatics, 2022, .	1.0	0