

Jacob Sosna

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

448
citations

840776

11
h-index

839539

18
g-index

53
all docs

53
docs citations

53
times ranked

669
citing authors

#	ARTICLE	IF	CITATIONS
1	Hepatic Thermal Ablation: Effect of Device and Heating Parameters on Local Tissue Reactions and Distant Tumor Growth. <i>Radiology</i> , 2016, 281, 782-792.	7.3	86
2	Spectral material characterization with dual-energy CT: comparison of commercial and investigative technologies in phantoms. <i>Acta Radiologica</i> , 2015, 56, 960-969.	1.1	30
3	Biochemical phosphates observed using hyperpolarized ³¹ P in physiological aqueous solutions. <i>Nature Communications</i> , 2017, 8, 341.	12.8	25
4	CT Colonography: Positioning Order and Intracolonic Pressure. <i>American Journal of Roentgenology</i> , 2008, 191, W175-W180.	2.2	21
5	Real-time ALT and LDH activities determined in viable precision-cut mouse liver slices using hyperpolarized [¹³ C]pyruvate—Implications for studies on biopsied liver tissues. <i>NMR in Biomedicine</i> , 2019, 32, e4043.	2.8	20
6	Clinical evaluation of a robotic system for precise CT-guided percutaneous procedures. <i>Abdominal Radiology</i> , 2021, 46, 5007-5016.	2.1	19
7	Factors associated with surgery in patients with intra-abdominal fistulizing Crohn's disease. <i>World Journal of Gastroenterology</i> , 2016, 22, 10380.	3.3	18
8	Multiple myeloma involving the thyroid cartilage: case report. <i>American Journal of Neuroradiology</i> , 2002, 23, 316-8.	2.4	16
9	Hyperpolarized product selective saturating excitations for determination of changes in metabolic reaction rates in real-time. <i>NMR in Biomedicine</i> , 2020, 33, e4189.	2.8	13
10	Planar strain analysis of liver undergoing microwave thermal ablation using x-ray CT. <i>Medical Physics</i> , 2015, 42, 372-380.	3.0	12
11	Radiologist Found Liable for Malpractice in Israel for Causing a Patient's Suicide by Sending a "Bad News" Report: Can This Happen in the United States?. <i>American Journal of Roentgenology</i> , 2017, 208, 241-244.	2.2	12
12	Significance of enhanced cerebral gray-white matter contrast at 80kVp compared to conventional 120kVp CT scan in the evaluation of acute stroke. <i>Journal of Clinical Neuroscience</i> , 2014, 21, 1591-1594.	1.5	11
13	Long-lived ¹⁵ N Hyperpolarization and Rapid Relaxation as a Potential Basis for Repeated First Pass Perfusion Imaging — Marked Effects of Deuteration and Temperature. <i>ChemPhysChem</i> , 2018, 19, 2148-2152.	2.1	11
14	In-Cell Determination of Lactate Dehydrogenase Activity in a Luminal Breast Cancer Model — ex vivo Investigation of Excised Xenograft Tumor Slices Using dDNP Hyperpolarized [1- ¹³ C]pyruvate. <i>Sensors</i> , 2019, 19, 2089.	3.8	11
15	Hyperpolarized [¹⁵ N]nitrate as a potential long lived hyperpolarized contrast agent for MRI. <i>Journal of Magnetic Resonance</i> , 2019, 299, 188-195.	2.1	11
16	An iodine-calcium separation analysis and virtually non-contrasted image generation obtained with single source dual energy MDCT. , 2008, , .		10
17	Is RECIST Version 1.1 Reliable for Tumor Response Assessment in Metastatic Cancer?. <i>Radiology</i> , 2019, 290, 357-358.	7.3	10
18	Real-time ex-vivo measurement of brain metabolism using hyperpolarized [1- ¹³ C]pyruvate. <i>Scientific Reports</i> , 2018, 8, 9564.	3.3	9

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19	Impurities of [1-13C]Pyruvic Acid and a Method to Minimize Their Signals for Hyperpolarized Pyruvate Metabolism Studies. <i>Applied Magnetic Resonance</i> , 2018, 49, 1085-1098.	1.2	9
20	A unique noncathartic CT colonography approach by using two-layer dual-energy MDCT and a special algorithmic colon cleansing method., 2008, , .		8
21	Writing a Great Review for Radiology. <i>Radiology</i> , 2020, 295, 496-498.	7.3	8
22	Dual energy CT in acute appendicitis: value of low mono-energy. <i>Clinical Imaging</i> , 2021, 77, 213-218.	1.5	7
23	Ipsilateral Opposite-Side Aspiration in Resistant Pneumothorax After CT Image Guided Lung Biopsy. <i>Chest</i> , 2013, 144, 947-951.	0.8	6
24	Diffusion weighted magnetic resonance imaging of pre and post treatment nasopharyngeal carcinoma. <i>Surgical Oncology</i> , 2019, 30, 122-125.	1.6	6
25	Fewer Reproducible Radiomic Features Mean Better Reproducibility within the Same Patient. <i>Radiology</i> , 2019, 293, 592-593.	7.3	6
26	[13C6,D8]2-deoxyglucose phosphorylation by hexokinase shows selectivity for the β -anomer. <i>Scientific Reports</i> , 2019, 9, 19683.	3.3	6
27	The metabolic representation of ischemia in rat brain slices: A hyperpolarized ^{13}C magnetic resonance study. <i>NMR in Biomedicine</i> , 2021, 34, e4509.	2.8	6
28	LDH and PDH Activities in the Ischemic Brain and the Effect of Reperfusion—An Ex Vivo MR Study in Rat Brain Slices Using Hyperpolarized [1-13C]Pyruvate. <i>Metabolites</i> , 2021, 11, 210.	2.9	6
29	Science to Practice: Can Semiquantitative Contrast-enhanced CT Be Used to Evaluate Hepatic Fibrosis?. <i>Radiology</i> , 2013, 266, 1-2.	7.3	4
30	Correlation between lactate dehydrogenase/pyruvate dehydrogenase activities ratio and tissue pH in the perfused mouse heart: A potential noninvasive indicator of cardiac pH provided by hyperpolarized magnetic resonance. <i>NMR in Biomedicine</i> , 2021, 34, e4444.	2.8	4
31	Differentiation of Heterogeneous Mouse Liver from HCC by Hyperpolarized ^{13}C Magnetic Resonance. <i>Sci</i> , 2021, 3, 8.	3.0	4
32	Noninvasive microwave ablation zone radii estimation using x-ray CT image analysis. <i>Medical Physics</i> , 2016, 43, 4476-4482.	3.0	3
33	Optical flow and image segmentation analysis for noninvasive precise mapping of microwave thermal ablation in X-ray CT scans - <i>ex vivo</i> study. <i>International Journal of Hyperthermia</i> , 2018, 34, 744-755.	2.5	3
34	International survey on residency programs in radiology: similarities and differences among 17 countries. <i>Clinical Imaging</i> , 2021, 79, 230-234.	1.5	3
35	The Sensitivity of Phosphocholine ^{13}C Chemical Shifts to pH. <i>Applied Magnetic Resonance</i> , 2016, 47, 111-120.	1.2	2
36	Prevalence of polyps $\geq 6\text{ mm}$ on follow-up CT colonography in a cohort with no significant colon polyps at baseline. <i>Clinical Imaging</i> , 2019, 55, 1-7.	1.5	2

#	ARTICLE	IF	CITATIONS
37	Peer-reviewed Publications in 2020: Still Needed?. Radiology, 2020, 295, 495-495.	7.3	2
38	The Effect of Gadolinium Doping in [¹³ C ₆ , ² H ₇]Glucose Formulations on ¹³ C Dynamic Nuclear Polarization at 3.35...T. ChemPhysChem, 2020, 21, 251-256.	2.1	2
39	Application of the Steady-state Variable Nutation Angle Method for Faster Determinations of Long T1Sâ€”an Approach Useful for the Design of Hyperpolarized Mr Molecular Probes. Magnetic Resonance Insights, 2015, 8s1, MRI.S29358.	2.5	1
40	Deep Learning for Automated Normal Liver Volume Estimation. Radiology, 2021, , 212010.	7.3	1
41	Virtual nonenhanced abdominal dual-energy MDCT: Analysis of image characteristics. World Journal of Radiology, 2012, 4, 167.	1.1	1
42	Accumulation of 3â€”aminopropylphosphonate in the ex vivo brain observed by phosphorusâ€”31 nuclear magnetic resonance. NMR in Biomedicine, 2022, , e4721.	2.8	1
43	Photon-counting Detector CT: Initial Analysis of Virtual Noncontrast Imaging. Radiology, 2022, 305, 116-117.	7.3	1
44	Decreased-Purgation CT Colonography: State of the Art. Current Colorectal Cancer Reports, 2011, 7, 71-79.	0.5	0
45	1 Hâ€”decoupling and Isotopic Labeling for the Measurement of the Longitudinal Relaxation Time of Hyperpolarized 13 Câ€”Methylenes in Choline Analogs. Israel Journal of Chemistry, 2019, 59, 1014-1019.	2.3	0
46	Clinical and Radiologic Characteristics of Intra-Abdominal Fistulizing Crohnâ€™s Disease. Digestion, 2020, 101, 667-673.	2.3	0
47	In vivo noninvasive threeâ€”dimensional (3D) assessment of microwave thermal ablation zone using nonâ€”contrastâ€”enhanced xâ€”ray CT. Medical Physics, 2020, 47, 4721-4734.	3.0	0
48	The Value of Virtual Unenhanced Dual-Energy CT for Renal Mass and Hematuria Evaluation. Radiology, 2021, 298, 620-621.	7.3	0
49	Editorial Comment: CT Colonography Set at a 10-mm Positive Threshold Most Effectively Targets Advanced Neoplasia. American Journal of Roentgenology, 2021, 217, 830-830.	2.2	0
50	Observation of glucose-6-phosphate anomeric exchange in real-time using dDNP hyperpolarised NMR. RSC Advances, 2020, 10, 41197-41201.	3.6	0