

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 | Accumulation of 3-aminopropylphosphonate in the ex vivo brain observed by phosphorus-31 nuclear magnetic resonance. <i>NMR in Biomedicine</i> , 2022, , e4721. | 2.8 | 1 |
| 2 | Photon-counting Detector CT: Initial Analysis of Virtual Noncontrast Imaging. <i>Radiology</i> , 2022, 305, 116-117. | 7.3 | 1 |
| 3 | 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 |
| 4 | Differentiation of Heterogeneous Mouse Liver from HCC by Hyperpolarized 13C Magnetic Resonance. <i>Sci</i> , 2021, 3, 8. | 3.0 | 4 |
| 5 | 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 |
| 6 | The Value of Virtual Unenhanced Dual-Energy CT for Renal Mass and Hematuria Evaluation. <i>Radiology</i> , 2021, 298, 620-621. | 7.3 | 0 |
| 7 | 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 |
| 8 | Clinical evaluation of a robotic system for precise CT-guided percutaneous procedures. <i>Abdominal Radiology</i> , 2021, 46, 5007-5016. | 2.1 | 19 |
| 9 | Dual energy CT in acute appendicitis: value of low mono-energy. <i>Clinical Imaging</i> , 2021, 77, 213-218. | 1.5 | 7 |
| 10 | Editorial Comment: CT Colonography Set at a 10-mm Positive Threshold Most Effectively Targets Advanced Neoplasia. <i>American Journal of Roentgenology</i> , 2021, 217, 830-830. | 2.2 | 0 |
| 11 | International survey on residency programs in radiology: similarities and differences among 17 countries. <i>Clinical Imaging</i> , 2021, 79, 230-234. | 1.5 | 3 |
| 12 | Deep Learning for Automated Normal Liver Volume Estimation. <i>Radiology</i> , 2021, , 212010. | 7.3 | 1 |
| 13 | Clinical and Radiologic Characteristics of Intra-Abdominal Fistulizing Crohn's Disease. <i>Digestion</i> , 2020, 101, 667-673. | 2.3 | 0 |
| 14 | 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 |
| 15 | In vivo noninvasive three-dimensional (3D) assessment of microwave thermal ablation zone using non-contrast-enhanced x-ray CT. <i>Medical Physics</i> , 2020, 47, 4721-4734. | 3.0 | 0 |
| 16 | Peer-reviewed Publications in 2020: Still Needed?. <i>Radiology</i> , 2020, 295, 495-495. | 7.3 | 2 |
| 17 | The Effect of Gadolinium Doping in [¹³ C ₆ , ² H ₇]Glucose Formulations on ¹³ C Dynamic Nuclear Polarization at 3.35...T. <i>ChemPhysChem</i> , 2020, 21, 251-256. | 2.1 | 2 |
| 18 | Writing a Great Review for Radiology. <i>Radiology</i> , 2020, 295, 496-498. | 7.3 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Observation of glucose-6-phosphate anomeric exchange in real-time using dDNP hyperpolarised NMR. RSC Advances, 2020, 10, 41197-41201. | 3.6 | 0 |
| 20 | Diffusion weighted magnetic resonance imaging of pre and post treatment nasopharyngeal carcinoma. Surgical Oncology, 2019, 30, 122-125. | 1.6 | 6 |
| 21 | Fewer Reproducible Radiomic Features Mean Better Reproducibility within the Same Patient. Radiology, 2019, 293, 592-593. | 7.3 | 6 |
| 22 | 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. NMR in Biomedicine, 2019, 32, e4043. | 2.8 | 20 |
| 23 | Prevalence of polyps ≥ 6 mm on follow-up CT colonography in a cohort with no significant colon polyps at baseline. Clinical Imaging, 2019, 55, 1-7. | 1.5 | 2 |
| 24 | 1H decoupling and Isotopic Labeling for the Measurement of the Longitudinal Relaxation Time of Hyperpolarized ¹³ C Methylens in Choline Analogs. Israel Journal of Chemistry, 2019, 59, 1014-1019. | 2.3 | 0 |
| 25 | 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. Sensors, 2019, 19, 2089. | 3.8 | 11 |
| 26 | [¹³ C ₆ ,D ₈]2-deoxyglucose phosphorylation by hexokinase shows selectivity for the β -anomer. Scientific Reports, 2019, 9, 19683. | 3.3 | 6 |
| 27 | Is RECIST Version 1.1 Reliable for Tumor Response Assessment in Metastatic Cancer?. Radiology, 2019, 290, 357-358. | 7.3 | 10 |
| 28 | Hyperpolarized [¹⁵ N]nitrate as a potential long lived hyperpolarized contrast agent for MRI. Journal of Magnetic Resonance, 2019, 299, 188-195. | 2.1 | 11 |
| 29 | Long-lived ¹⁵ N Hyperpolarization and Rapid Relaxation as a Potential Basis for Repeated First Pass Perfusion Imaging—Marked Effects of Deuteration and Temperature. ChemPhysChem, 2018, 19, 2148-2152. | 2.1 | 11 |
| 30 | Optical flow and image segmentation analysis for noninvasive precise mapping of microwave thermal ablation in X-ray CT scans - ex vivo study. International Journal of Hyperthermia, 2018, 34, 744-755. | 2.5 | 3 |
| 31 | Real-time ex-vivo measurement of brain metabolism using hyperpolarized [1- ¹³ C]pyruvate. Scientific Reports, 2018, 8, 9564. | 3.3 | 9 |
| 32 | Impurities of [1- ¹³ C]Pyruvic Acid and a Method to Minimize Their Signals for Hyperpolarized Pyruvate Metabolism Studies. Applied Magnetic Resonance, 2018, 49, 1085-1098. | 1.2 | 9 |
| 33 | Biochemical phosphates observed using hyperpolarized ³¹ P in physiological aqueous solutions. Nature Communications, 2017, 8, 341. | 12.8 | 25 |
| 34 | 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?. American Journal of Roentgenology, 2017, 208, 241-244. | 2.2 | 12 |
| 35 | Hepatic Thermal Ablation: Effect of Device and Heating Parameters on Local Tissue Reactions and Distant Tumor Growth. Radiology, 2016, 281, 782-792. | 7.3 | 86 |
| 36 | Noninvasive microwave ablation zone radii estimation using x-ray CT image analysis. Medical Physics, 2016, 43, 4476-4482. | 3.0 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | The Sensitivity of Phosphocholine ¹³ C Chemical Shifts to pH. Applied Magnetic Resonance, 2016, 47, 111-120. | 1.2 | 2 |
| 38 | Factors associated with surgery in patients with intra-abdominal fistulizing Crohn's disease. World Journal of Gastroenterology, 2016, 22, 10380. | 3.3 | 18 |
| 39 | Planar strain analysis of liver undergoing microwave thermal ablation using x-ray CT. Medical Physics, 2015, 42, 372-380. | 3.0 | 12 |
| 40 | Application of the Steady-state Variable Nutation Angle Method for Faster Determinations of Long T1's—an Approach Useful for the Design of Hyperpolarized Mr Molecular Probes. Magnetic Resonance Insights, 2015, 8s1, MRI.S29358. | 2.5 | 1 |
| 41 | Spectral material characterization with dual-energy CT: comparison of commercial and investigative technologies in phantoms. Acta Radiologica, 2015, 56, 960-969. | 1.1 | 30 |
| 42 | Significance of enhanced cerebral gray-white matter contrast at 80kVp compared to conventional 120kVp CT scan in the evaluation of acute stroke. Journal of Clinical Neuroscience, 2014, 21, 1591-1594. | 1.5 | 11 |
| 43 | Science to Practice: Can Semiquantitative Contrast-enhanced CT Be Used to Evaluate Hepatic Fibrosis?. Radiology, 2013, 266, 1-2. | 7.3 | 4 |
| 44 | Ipsilateral Opposite-Side Aspiration in Resistant Pneumothorax After CT Image Guided Lung Biopsy. Chest, 2013, 144, 947-951. | 0.8 | 6 |
| 45 | Virtual nonenhanced abdominal dual-energy MDCT: Analysis of image characteristics. World Journal of Radiology, 2012, 4, 167. | 1.1 | 1 |
| 46 | Decreased-Purgation CT Colonography: State of the Art. Current Colorectal Cancer Reports, 2011, 7, 71-79. | 0.5 | 0 |
| 47 | CT Colonography: Positioning Order and Intracolonic Pressure. American Journal of Roentgenology, 2008, 191, W175-W180. | 2.2 | 21 |
| 48 | A unique noncathartic CT colonography approach by using two-layer dual-energy MDCT and a special algorithmic colon cleansing method. , 2008, , . | | 8 |
| 49 | An iodine-calcium separation analysis and virtually non-contrasted image generation obtained with single source dual energy MDCT. , 2008, , . | | 10 |
| 50 | Multiple myeloma involving the thyroid cartilage: case report. American Journal of Neuroradiology, 2002, 23, 316-8. | 2.4 | 16 |