

Supplemental Table 1. The 50 top-cited articles ranked by citation numbers.

Rank	Article	Citation count
1	Wahl RL, Jacene H, Kasamon Y, Lodge MA. From RECIST to PERCIST: Evolving Considerations for PET response criteria in solid tumors. <i>J Nucl Med.</i> 2009;50 Suppl 1:122S-150S	1407
2	Investigators P. Value of the ventilation/perfusion scan in acute pulmonary embolism. Results of the prospective investigation of pulmonary embolism diagnosis (PIOPED). <i>JAMA.</i> 1990;263(20):2753-2759	1366
3	Tillisch J, Brunkin R, Marshall R, et al. Reversibility of cardiac wall-motion abnormalities predicted by positron tomography. <i>N Engl J Med.</i> 1986;314(14):884-888	1129
4	Beyer T, Townsend DW, Brun T, et al. A combined PET/CT scanner for clinical oncology. <i>J Nucl Med.</i> 2000;41(8):1369-1379	1089
5	Lardinois D, Weder W, Hany TF, et al. Staging of non-small-cell lung cancer with integrated positron-emission tomography and computed tomography. <i>N Engl J Med.</i> 2003;348(25):2500-2507	947
6	Pieterman RM, van Putten JW, Meuzelaar JJ, et al. Preoperative staging of non-small-cell lung cancer with positron-emission tomography. <i>N Engl J Med.</i> 2000;343(4):254-261	794
7	Rohren EM, Turkington TG, Coleman RE. Clinical applications of PET in oncology. <i>Radiology.</i> 2004;231(2):305-332	774
8	Gould MK, Maclean CC, Kuschner WG, Rydzak CE, Owens DK. Accuracy of positron emission tomography for diagnosis of pulmonary nodules and mass lesions: a meta-analysis. <i>JAMA.</i> 2001;285(7):914-924	702
9	Boellaard R, O'Doherty MJ, Weber WA, et al. FDG PET and PET/CT: EANM procedure guidelines for tumour PET imaging: version 1.0. <i>Eur J Nucl Med Mol Imaging.</i> 2010;37(1):181-200	702
10	Minoshima S, Frey KA, Koeppe RA, Foster NL, Kuhl DE. A diagnostic approach in Alzheimer's disease using three-dimensional stereotactic surface projections of fluorine-18-FDG PET. <i>J Nucl Med.</i> 1995;36(7):1238-1248	668
11	Edwards CL, Hayes RL. Tumor scanning with 67Ga citrate. <i>J Nucl Med.</i> 1969;10(2):103-105	650
12	Pavel DG, Zimmer M, Patterson VN. In vivo labeling of red blood cells with 99mTc: a new approach to blood pool visualization. <i>J Nucl Med.</i> 1977;18(3):305-308	629

- 13 Wackers FJ, Berman DS, Maddahi J, et al. Technetium-99m hexakis 2-methoxyisobutyl isonitrile: human biodistribution, dosimetry, safety, and preliminary comparison to thallium-201 for myocardial perfusion imaging. *J Nucl Med.* 1989;30(3):301-311 585
- 14 Gabriel M, Decristoforo C, Kendler D, et al. 68Ga-DOTA-Tyr3-octreotide PET in neuroendocrine tumors: comparison with somatostatin receptor scintigraphy and CT. *J Nucl Med.* 2007;48(4):508-518 580
- 15 Shreve PD, Anzai Y, Wahl RL. Pitfalls in oncologic diagnosis with FDG PET imaging: physiologic and benign variants. *Radiographics.* 1999;19(1):61-77; quiz 150-151 559
- 16 Fletcher JW, Djulbegovic B, Soares HP, et al. Recommendations on the use of 18F-FDG PET in oncology. *J Nucl Med.* 2008;49(3):480-508 559
- 17 Hull RD, Hirsh J, Carter CJ, et al. Pulmonary angiography, ventilation lung scanning, and venography for clinically suspected pulmonary embolism with abnormal perfusion lung scan. *Ann Intern Med.* 1983;98(6):891-899 549
- 18 Silverman DH, Small GW, Chang CY, et al. Positron emission tomography in evaluation of dementia: Regional brain metabolism and long-term outcome. *JAMA.* 2001;286(17):2120-2127 526
- 19 Gambhir SS, Czernin J, Schwimmer J, Silverman DH, Coleman RE, Phelps ME. A tabulated summary of the FDG PET literature. *J Nucl Med.* 2001;42(5 Suppl):1S-93S. 515
- 20 Keyes JW, Jr. SUV: Standard uptake or silly useless value? *J Nucl Med.* 1995;36(10):1836-1839 513
- 21 van Tinteren H, Hoekstra OS, Smit EF, et al. Effectiveness of positron emission tomography in the preoperative assessment of patients with suspected non-small-cell lung cancer: the PLUS multicentre randomised trial. *Lancet.* 2002;359(9315):1388-1393 512
- 22 Shankar LK, Hoffman JM, Bacharach S, et al. Consensus recommendations for the use of 18F-FDG PET as an indicator of therapeutic response in patients in National Cancer Institute Trials. *J Nucl Med.* 2006;47(6):1059-1066 481
- 23 Taillefer R, Boucher Y, Potvin C, Lambert R. Detection and localization of parathyroid adenomas in patients with hyperparathyroidism using a single radionuclide imaging procedure with technetium-99m-sestamibi (double-phase study). *J Nucl Med.* 1992;33(10):1801-1807. 480
- 24 Small GW, Kepe V, Ercoli LM, et al. PET of brain amyloid and tau in mild cognitive impairment. *N Engl J Med.* 2006;355(25):2652-2663 467
- 25 McCann UD, Szabo Z, Scheffel U, Dannals RF, Ricaurte GA. Positron emission tomographic evidence of toxic effect of MDMA ("Ecstasy") on brain serotonin neurons in human beings. *Lancet.* 1998;352(9138):1433-1437 465

- 26 Mosconi L. Brain glucose metabolism in the early and specific diagnosis of Alzheimer's disease. FDG-PET studies in MCI and AD. *Eur J Nucl Med Mol Imaging*. 2005;32(4):486-510 464
- 27 Dwamena BA, Sonnad SS, Angobaldo JO, Wahl RL. Metastases from non-small cell lung cancer: mediastinal staging in the 1990s--meta-analytic comparison of PET and CT. *Radiology*. 1999;213(2):530-536. 455
- 28 Kuhl DE, Barrio JR, Huang SC, et al. Quantifying local cerebral blood flow by N-isopropyl-p-[123I]iodoamphetamine (IMP) tomography. *J Nucl Med*. 1982;23(3):196-203. 453
- 29 Zasadny KR, Wahl RL. Standardized uptake values of normal tissues at PET with 2-[fluorine-18]-fluoro-2-deoxy-D-glucose: variations with body weight and a method for correction. *Radiology*. 1993;189(3):847-850 448
- 30 Gould MK, Kuschner WG, Rydzak CE, et al. Test performance of positron emission tomography and computed tomography for mediastinal staging in patients with non-small-cell lung cancer: a meta-analysis. *Ann Intern Med*. 2003;139(11):879-892 443
- 31 Even-Sapir E, Metser U, Mishani E, Lievshitz G, Lerman H, Leibovitch I. The detection of bone metastases in patients with high-risk prostate cancer: 99mTc-MDP Planar bone scintigraphy, single- and multi-field-of-view SPECT, 18F-fluoride PET, and 18F-fluoride PET/CT. *J Nucl Med*. 2006;47(2):287-297 439
- 32 Patz EF, Jr., Lowe VJ, Hoffman JM, et al. Focal pulmonary abnormalities: evaluation with F-18 fluorodeoxyglucose PET scanning. *Radiology*. 1993;188(2):487-490 437
- 33 Nestle U, Kremp S, Schaefer-Schuler A, et al. Comparison of different methods for delineation of 18F-FDG PET-positive tissue for target volume definition in radiotherapy of patients with non-Small cell lung cancer. *J Nucl Med*. 2005;46(8):1342-1348 432
- 34 Farrer C, Franck N, Georgieff N, Frith CD, Decety J, Jeannerod M. Modulating the experience of agency: a positron emission tomography study. *Neuroimage*. 2003;18(2):324-333 427
- 35 Bar-Shalom R, Yefremov N, Guralnik L, et al. Clinical performance of PET/CT in evaluation of cancer: additional value for diagnostic imaging and patient management. *J Nucl Med*. 2003;44(8):1200-1209 424
- 36 Zhuang H, Pourdehnad M, Lambright ES, et al. Dual time point 18F-FDG PET imaging for differentiating malignant from inflammatory processes. *J Nucl Med*. 2001;42(9):1412-1417 423
- 37 Rasey JS, Koh WJ, Evans ML, et al. Quantifying regional hypoxia in human tumors with positron emission tomography of [18F]fluoromisonidazole: a pretherapy study of 37 patients. *Int J Radiat Oncol Biol Phys*. 1996;36(2):417-428. 414

- 38 Jager PL, Vaalburg W, Pruim J, de Vries EG, Langen KJ, Piers DA. Radiolabeled amino acids: basic aspects and clinical applications in oncology. *J Nucl Med.* 2001;42(3):432-445 411
- 39 Shaw LJ, Iskandrian AE. Prognostic value of gated myocardial perfusion SPECT. *J Nucl Cardiol.* 2004;11(2):171-185 407
- 40 Hara T, Kosaka N, Kishi H. PET imaging of prostate cancer using carbon-11-choline. *J Nucl Med.* 1998;39(6):990-995 401
- 41 Porter AT, McEwan AJ, Powe JE, et al. Results of a randomized phase-III trial to evaluate the efficacy of strontium-89 adjuvant to local field external beam irradiation in the management of endocrine resistant metastatic prostate cancer. *Int J Radiat Oncol Biol Phys.* 1993;25(5):805-813 401
- 42 Wahl RL, Cody RL, Hutchins GD, Mudgett EE. Primary and metastatic breast carcinoma: initial clinical evaluation with PET with the radiolabeled glucose analogue 2-[F-18]-fluoro-2-deoxy-D-glucose. *Radiology.* 1991;179(3):765-770 401
- 43 Krenning EP, Bakker WH, Kooij PP, et al. Somatostatin receptor scintigraphy with indium-111-DTPA-D-Phe-1-octreotide in man: metabolism, dosimetry and comparison with iodine-123-Tyr-3-octreotide. *J Nucl Med.* 1992;33(5):652-658 397
- 44 Boellaard R, Delgado-Bolton R, Oyen WJ, et al. FDG PET/CT: EANM procedure guidelines for tumour imaging: version 2.0. *Eur J Nucl Med Mol Imaging.* 2015;42(2):328-354 394
- 45 Friedland RP, Budinger TF, Ganz E, et al. Regional cerebral metabolic alterations in dementia of the Alzheimer type: positron emission tomography with [18F]fluorodeoxyglucose. *J Comput Assist Tomogr.* 1983;7(4):590-598 393
- 46 Garcia EV, Van Train K, Maddahi J, et al. Quantification of rotational thallium-201 myocardial tomography. *J Nucl Med.* 1985;26(1):17-26 390
- 47 Afshar-Oromieh A, Zechmann CM, Malcher A, et al. Comparison of PET imaging with a (68%)Ga-labelled PSMA ligand and (18%)F-choline-based PET/CT for the diagnosis of recurrent prostate cancer. *Eur J Nucl Med Mol Imaging.* 2014;41(1):11-20 387
- 48 Bradley J, Thorstad WL, Mutic S, et al. Impact of FDG-PET on radiation therapy volume delineation in non-small-cell lung cancer. *Int J Radiat Oncol Biol Phys.* 2004;59(1):78-86 374
- 49 Hawkins PN, Lavender JP, Pepys MB. Evaluation of systemic amyloidosis by scintigraphy with 123I-labeled serum amyloid P component. *N Engl J Med.* 1990;323(8):508-513 371
- 50 Eiber M, Maurer T, Souvatzoglou M, et al. Evaluation of Hybrid (68)Ga-PSMA Ligand PET/CT in 248 Patients with Biochemical Recurrence After Radical Prostatectomy. *J Nucl Med.* 2015;56(5):668-674 369

Supplemental Table 2. The 50 top Altmetric articles ranked by Altmetric Attention Scores

Rank	Article	Altmetric Attention Score
1	Magnussen RA, Binzel K, Zhang J, et al. ACL graft metabolic activity assessed by (18)FDG PET-MRI. <i>Knee.</i> 2017;24(4):792-797	2487
2	Amen DG, Trujillo M, Keator D, et al. Gender-Based Cerebral Perfusion Differences in 46,034 Functional Neuroimaging Scans. <i>J Alzheimers Dis.</i> 2017;60(2):605-614	681
3	Jones DT, Knopman DS, Graff-Radford J, et al. In vivo F-18-AV-1451 tau PET signal in MAPT mutation carriers varies by expected tau isoforms. <i>Neurology.</i> 2018;90(11): E947	602
4	Smith C. Postmortem Autopsy-Confirmation of Antemortem [F-18] FDDNP-PET Scans in a Football Player with Chronic Traumatic Encephalopathy COMMENT. <i>Neurosurgery.</i> 2018;82(2):246-246	540
5	Armstrong AJ, Anand A, Edenbrandt L, et al. Phase 3 Assessment of the Automated Bone Scan Index as a Prognostic Imaging Biomarker of Overall Survival in Men With Metastatic Castration-Resistant Prostate Cancer A Secondary Analysis of a Randomized Clinical Trial. <i>Jama Oncol.</i> 2018;4(7):944-951	519
6	Grootendorst MR, Cariati M, Pinder SE, et al. Intraoperative Assessment of Tumor Resection Margins in Breast-Conserving Surgery Using F-18-FDG Cerenkov Luminescence Imaging: A First-in-Human Feasibility Study. <i>J Nucl Med.</i> 2017;58(6):891-898	508
7	James OG, Doraiswamy PM, Borges-Neto S. PET imaging of tau pathology in Alzheimer's disease and tauopathies. <i>Front Neurol.</i> 2015;6	494
8	Johnson KA, Minoshima S, Bohnen NI, et al. Appropriate use criteria for amyloid PET: A report of the Amyloid Imaging Task Force, the Society of Nuclear Medicine and Molecular Imaging, and the Alzheimer's Association. <i>Alzheimers Dement.</i> 2013;9(1): E1-E16	483
9	Mielke MM, Hagen CE, Xu J, et al. Plasma phospho-tau181 increases with Alzheimer's disease clinical severity and is associated with tau- and amyloid-positron emission tomography. <i>Alzheimers Dement.</i> 2018;14(8):989-997	479
10	Bateman TM. Cardiac sarcoidosis: An important niche for PET, but a journey just begun. <i>J Nucl Cardiol.</i> 2017;24(2):425-428	455
11	Sun YJ, Yu HJ, Ma JQ, Lu PO. The Role of F-18-FDG PET/CT Integrated Imaging in Distinguishing Malignant from Benign Pleural Effusion. <i>Plos One.</i> 2016;11(8)	450
12	Kanemura S, Kurabayashi K, Funaguchi N, et al. Metabolic response assessment with 18F-FDG-PET/CT is superior to modified RECIST for the evaluation of response to	437

- platinum-based doublet chemotherapy in malignant pleural mesothelioma. *Eur J Radiol*. 2017; 86:92-98
- Kitajima K, Doi H, Kuribayashi K, et al. Prognostic value of pretreatment volume-based quantitative (18)F-FDG PET/CT parameters in patients with malignant pleural mesothelioma. *Eur J Radiol*. 2017; 86:176-183 437
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- Chen ST, Siddarth P, Merrill DA, et al. FDDNP-PET Tau Brain Protein Binding Patterns in Military Personnel with Suspected Chronic Traumatic Encephalopathy. *J Alzheimers Dis*. 2018;65(1):79-88 417
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	Blakkisrud J, Londalen A, Martinsen ACT, et al. Tumor-Absorbed Dose for Non-Hodgkin Lymphoma Patients Treated with the Anti-CD37 Antibody Radionuclide Conjugate Lu-177-Lilotomab Satetraxetan. <i>J Nucl Med.</i> 2017;58(1):48-54	321
24	Healy MA, Yin HY, Reddy RM, Wong SL. Use of Positron Emission Tomography to Detect Recurrence and Associations with Survival in Patients With Lung and Esophageal Cancers. <i>Jnci-J Natl Cancer Inst.</i> 2016;108(7)	320
25	Mehanna H, Wong WL, McConkey CC, et al. PET-CT Surveillance versus Neck Dissection in Advanced Head and Neck Cancer. <i>New Engl J Med.</i> 2016;374(15):1444-1454	271
26	Chen MK, Mecca AP, Naganawa M, et al. Assessing Synaptic Density in Alzheimer Disease with Synaptic Vesicle Glycoprotein 2A Positron Emission Tomographic Imaging. <i>Jama Neurol.</i> 2018;75(10):1215-1224	246
27	Scholl M, Lockhart SN, Schonhaut DR, et al. PET Imaging of Tau Deposition in the Aging Human Brain. <i>Neuron.</i> 2016;89(5):971-982	245
28	Greenwood JP, Ripley DP, Berry C, et al. Effect of Care Guided by Cardiovascular Magnetic Resonance, Myocardial Perfusion Scintigraphy, or NICE Guidelines on Subsequent Unnecessary Angiography Rates The CE-MARC 2 Randomized Clinical Trial. <i>Jama-J Am Med Assoc.</i> 2016;316(10):1051-1060	226
29	Grove N, Zheng M, Bristow RE, Eskander RN. Extensive Tattoos Mimicking Lymphatic Metastasis on Positron Emission Tomography Scan in a Patient with Cervical Cancer. <i>Obstet Gynecol.</i> 2015;126(1):182-185	223
30	Hofman MS, Violet J, Hicks RJ, et al. [(177)Lu]-PSMA-617 radionuclide treatment in patients with metastatic castration-resistant prostate cancer (LuPSMA trial): a single-centre, single-arm, phase 2 study. <i>Lancet Oncol.</i> 2018;19(6):825-833	212
31	Ramanan VK, Risacher SL, Nho K, et al. GWAS of longitudinal amyloid accumulation on 18F-florbetapir PET in Alzheimer's disease implicates microglial activation gene IL1RAP. <i>Brain.</i> 2015;138(Pt 10):3076-3088	187
32	Kramer SD, Betzel T, Mu LJ, et al. Evaluation of C-11-Me-NB1 as a Potential PET Radioligand for Measuring GluN2B-Containing NMDA Receptors, Drug Occupancy, and Receptor Cross Talk. <i>J Nucl Med.</i> 2018;59(4):698-703	179
33	Sanches RF, Osorio FD, dos Santos RG, et al. Antidepressant Effects of a Single Dose of Ayahuasca in Patients with Recurrent Depression A SPECT Study. <i>J Clin Psychopharmac.</i> 2016;36(1):77-81	171
34	Frick A, Ahs F, Engman J, et al. Serotonin Synthesis and Reuptake in Social Anxiety Disorder A Positron Emission Tomography Study. <i>Jama Psychiat.</i> 2015;72(8):794-802	170
35	Palmqvist S, Zetterberg H, Mattsson N, et al. Detailed comparison of amyloid PET and	160
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- 40 Healy MA, Yin HY, Reddy RM, Wong SL. Use of Positron Emission Tomography to Detect Recurrence and Associations with Survival in Patients With Lung and Esophageal Cancers. *Jnci-J Natl Cancer Inst*. 2016;108(7)
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- 43 Greenwood JP, Herzog BA, Brown JM, et al. Prognostic Value of Cardiovascular Magnetic Resonance and Single-Photon Emission Computed Tomography in Suspected Coronary Heart Disease: Long-Term Follow-up of a Prospective, Diagnostic Accuracy Cohort Study. *Ann Intern Med*. 2016;165(1):1
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- 46 Joshi NV, Vesey AT, Williams MC, et al. 18F-fluoride positron emission tomography for identification of ruptured and high-risk coronary atherosclerotic plaques: a prospective clinical trial. *Lancet*. 2014;383(9918):705-713
- 47 Papadakis GZ, Holland SM, Quezado M, Patronas NJ. Adrenal cryptococcosis in an immunosuppressed patient showing intensely increased metabolic activity on (18)F-FDG PET/CT. *Endocrine*. 2016;54(3):834-836

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