

Piero A Salvadori

List of Publications by Year in descending order

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105
papers

3,892
citations

147726

31
h-index

133188

59
g-index

107
all docs

107
docs citations

107
times ranked

4364
citing authors

#	ARTICLE	IF	CITATIONS
1	Prognostic Role of Myocardial Blood Flow Impairment in Idiopathic Left Ventricular Dysfunction. <i>Circulation</i> , 2002, 105, 186-193.	1.6	401
2	Coronary vasodilation is impaired in both hypertrophied and nonhypertrophied myocardium of patients with hypertrophic cardiomyopathy: A study with nitrogen-13 ammonia and positron emission tomography. <i>Journal of the American College of Cardiology</i> , 1991, 17, 879-886.	1.2	316
3	Microfluidics in radiopharmaceutical chemistry. <i>Nuclear Medicine and Biology</i> , 2013, 40, 776-787.	0.3	188
4	Myocardial Blood Flow Response to Pacing Tachycardia and to Dipyridamole Infusion in Patients With Dilated Cardiomyopathy Without Overt Heart Failure. <i>Circulation</i> , 1995, 92, 796-804.	1.6	184
5	The makers of the Protoaurignacian and implications for Neandertal extinction. <i>Science</i> , 2015, 348, 793-796.	6.0	153
6	Fatty Acid Metabolism in the Liver, Measured by Positron Emission Tomography, Is Increased in Obese Individuals. <i>Gastroenterology</i> , 2010, 139, 846-856.e6.	0.6	144
7	Coronary reserve and exercise ECG in patients with chest pain and normal coronary angiograms.. <i>Circulation</i> , 1992, 86, 179-186.	1.6	120
8	Boron analysis and boron imaging in biological materials for Boron Neutron Capture Therapy (BNCT). <i>Critical Reviews in Oncology/Hematology</i> , 2008, 68, 66-90.	2.0	117
9	Role of 2-[18F]-Fluorodeoxyglucose (FDG) Positron Emission Tomography (PET) in the Early Assessment of Response to Chemotherapy in Metastatic Breast Cancer Patients. <i>Clinical Breast Cancer</i> , 2000, 1, 156-161.	1.1	90
10	Effect of verapamil on absolute myocardial blood flow in hypertrophic cardiomyopathy. <i>American Journal of Cardiology</i> , 1994, 74, 363-368.	0.7	86
11	Assessment of anatomic and physiological severity of single-vessel coronary artery lesions by dipyridamole echocardiography. Comparison with positron emission tomography and quantitative arteriography.. <i>Circulation</i> , 1994, 89, 753-761.	1.6	83
12	Guideline to regulations for radiopharmaceuticals in early phase clinical trials in the EU. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2008, 35, 2144-2151.	3.3	78
13	Alteration in regulation of myocardial blood flow in one-vessel coronary artery disease determined by positron emission tomography. <i>American Journal of Cardiology</i> , 1993, 72, 538-543.	0.7	77
14	Microfluidic approach for fast labeling optimization and dose-on-demand implementation. <i>Nuclear Medicine and Biology</i> , 2010, 37, 547-555.	0.3	74
15	Global alteration in perfusion response to increasing oxygen consumption in patients with single-vessel coronary artery disease.. <i>Circulation</i> , 1994, 90, 1696-1705.	1.6	73
16	Effects of single and fractionated low-dose irradiation on vascular endothelial cells. <i>Atherosclerosis</i> , 2014, 235, 510-518.	0.4	60
17	Radiochemistry on chip: towards dose-on-demand synthesis of PET radiopharmaceuticals. <i>Lab on A Chip</i> , 2013, 13, 2328.	3.1	58
18	Adrenergically mediated coronary vasoconstriction in patients with Syndrome X. <i>Cardiovascular Drugs and Therapy</i> , 1994, 8, 221-226.	1.3	56

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19	Microvascular dysfunction in collateral-dependent myocardium. <i>Journal of the American College of Cardiology</i> , 1995, 26, 615-623.	1.2	56
20	Mismatch between uniform increase in cardiac glucose uptake and regional contractile dysfunction in pacing-induced heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H2747-H2756.	1.5	55
21	Application of the nucleophilic substitution reaction to the synthesis of No-carrier-added [¹⁸ F]fluorobenzene and other ¹⁸ F-labeled aryl fluorides. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1984, 21, 533-547.	0.5	54
22	Expression analysis of facilitative glucose transporters (GLUTs) in human thyroid carcinoma cell lines and primary tumors. <i>Molecular and Cellular Endocrinology</i> , 2008, 291, 57-62.	1.6	54
23	Dose-on-demand of diverse ¹⁸ F-fluorocholeline derivatives through a two-step microfluidic approach. <i>Nuclear Medicine and Biology</i> , 2011, 38, 637-644.	0.3	53
24	Residual coronary reserve identifies segmental viability in patients with wall motion abnormalities. <i>Journal of the American College of Cardiology</i> , 1995, 26, 342-350.	1.2	49
25	Structural Abnormalities of the Coronary Arterial Wall "in Addition to Luminal Narrowing" Affect Myocardial Blood Flow Reserve. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1704-1712.	2.8	48
26	Piscivory in a Miocene Cetotheriidae of Peru: first record of fossilized stomach content for an extinct baleen-bearing whale. <i>Die Naturwissenschaften</i> , 2015, 102, 70.	0.6	46
27	Correlation between hydroperoxide-induced chemiluminescence of the heart and its function. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1983, 762, 241-247.	1.9	40
28	Regional myocardial blood flow in stable angina pectoris associated with isolated significant narrowing of either the left anterior descending or left circumflex coronary artery. <i>American Journal of Cardiology</i> , 1993, 72, 990-994.	0.7	40
29	MicroPET/CT imaging of $\alpha_v\beta_3$ integrin via a novel ⁶⁸ Ga-NOTA-RGD peptidomimetic conjugate in rat myocardial infarction. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013, 40, 1265-1274.	3.3	38
30	¹⁸ F-FDG assessment of glucose disposal and production rates during fasting and insulin stimulation: a validation study. <i>Journal of Nuclear Medicine</i> , 2006, 47, 1016-22.	2.8	33
31	NEMA NU-4 Performance Evaluation of the IRIS PET/CT Preclinical Scanner. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2017, 1, 301-309.	2.7	31
32	Synthesis of the (r)(-)-enantiomers of the pheromone components of several species of trogoderma [coleoptera: dermestidae]. <i>Tetrahedron</i> , 1979, 35, 2039-2042.	1.0	30
33	Analysis of image sharpness reproducibility on a novel engineered micro-CT scanner with variable geometry and embedded recalibration software. <i>Physica Medica</i> , 2012, 28, 166-173.	0.4	29
34	Maternal Obesity and Cardiac Development in the Offspring. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1750-1755.	2.3	29
35	Guidelines to PET measurements of the target occupancy in the brain for drug development. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016, 43, 2255-2262.	3.3	28
36	The dawn of dentistry in the late upper Paleolithic: An early case of pathological intervention at Riparo Fredian. <i>American Journal of Physical Anthropology</i> , 2017, 163, 446-461.	2.1	28

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37	3D enamel thickness in Neandertal and modern human permanent canines. <i>Journal of Human Evolution</i> , 2017, 113, 162-172.	1.3	28
38	Evaluation of the Effect of a Gamma Irradiated DBM-Pluronic F127 Composite on Bone Regeneration in Wistar Rat. <i>PLoS ONE</i> , 2015, 10, e0125110.	1.1	28
39	On-chip pre-concentration and complexation of [¹⁸ F]fluoride ions via regenerable anion exchange particles for radiochemical synthesis of Positron Emission Tomography tracers. <i>Journal of Chromatography A</i> , 2011, 1218, 4714-4719.	1.8	27
40	Effects of long time exposure to simulated micro- and hypergravity on skeletal architecture. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 51, 1-12.	1.5	27
41	Positron emission tomography and [¹⁸ F]BPA: A perspective application to assess tumour extraction of boron in BNCT. <i>Applied Radiation and Isotopes</i> , 2009, 67, S351-S354.	0.7	26
42	Synthesis and characterization of the tetraazamacrocyclic 4,10-dimethyl-1,4,7,10-tetraazacyclododecane-1,7-diacetic acid (H ₂ Me ₂ DO ₂ A) and of its neutral copper(II) complex [Cu(Me ₂ DO ₂ A)]. A new ⁶⁴ Cu-labeled macrocyclic complex for positron emission tomography imaging. <i>Dalton Transactions RSC</i> , 2000, , 2393-2401.	2.3	23
43	Positron Emission Tomography Radiosynthesis in Microreactors. <i>Journal of Flow Chemistry</i> , 2012, 2, 37-42.	1.2	23
44	Optimization of nucleophilic ¹⁸ F radiofluorinations using a microfluidic reaction approach. <i>Nature Protocols</i> , 2014, 9, 2017-2029.	5.5	23
45	Biodistribution of the fatty acid analogue ¹⁸ F-FTHA: plasma and tissue partitioning between lipid pools during fasting and hyperinsulinemia. <i>Journal of Nuclear Medicine</i> , 2007, 48, 455-62.	2.8	21
46	A Neanderthal deciduous human molar with incipient carious infection from the Middle Palaeolithic De Nadale cave, Italy. <i>American Journal of Physical Anthropology</i> , 2017, 162, 370-376.	2.1	20
47	Combined Effect of Fatty Diet and Cognitive Decline on Brain Metabolism, Food Intake, Body Weight, and Counteraction by Intranasal Insulin Therapy in 3Å-Tg Mice. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 188.	1.8	20
48	Design, synthesis and preliminary evaluation of ¹⁸ F-labelled 1,8-naphthyridin- and quinolin-2-one-3-carboxamide derivatives for PET imaging of CB ₂ cannabinoid receptor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 2532-2535.	1.0	19
49	Baseline/post-nitrate Tc-99m tetrofosmin mismatch for the assessment of myocardial viability in patients with severe left ventricular dysfunction: comparison with baseline Tc-99m tetrofosmin scintigraphy/FDG PET imaging. <i>Journal of Nuclear Cardiology</i> , 2004, 11, 142-151.	1.4	18
50	[¹¹ C]palmitate kinetics across the splanchnic bed in arterial, portal and hepatic venous plasma during fasting and euglycemic hyperinsulinemia. <i>Nuclear Medicine and Biology</i> , 2006, 33, 521-528.	0.3	18
51	Brain Glucose Overexposure and Lack of Acute Metabolic Flexibility in Obesity and Type 2 Diabetes: A PET-[¹⁸ F]FDG Study in Zucker and ZDF Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010, 30, 895-899.	2.4	18
52	Purification of 2-[¹⁸ F]fluoro-2-deoxy-d-glucose by on-chip solid-phase extraction. <i>Journal of Chromatography A</i> , 2013, 1280, 117-121.	1.8	18
53	Effects of Long-term Treatment with Verapamil on Left Ventricular Function and Myocardial Blood Flow in Patients with Dilated Cardiomyopathy Without Overt Heart Failure. <i>Journal of Cardiovascular Pharmacology</i> , 2000, 36, 744-750.	0.8	18
54	Digital liver biopsy: Bio-imaging of fatty liver for translational and clinical research. <i>World Journal of Hepatology</i> , 2018, 10, 231-245.	0.8	18

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55	Hardware and software modifications on the Advion NanoTek microfluidic platform to extend flexibility for radiochemical synthesis. <i>Applied Radiation and Isotopes</i> , 2014, 84, 40-47.	0.7	17
56	Maternal high-fat feeding leads to alterations of brain glucose metabolism in the offspring: positron emission tomography study in a porcine model. <i>Diabetologia</i> , 2016, 59, 813-821.	2.9	17
57	Phantom dosimeters examined by NMR analysis: a promising technique for 3-D determination of absorbed dose. <i>Applied Radiation and Isotopes</i> , 1997, 48, 1477-1484.	0.7	16
58	Radioactivity resistance evaluation of polymeric materials for application in radiopharmaceutical production at microscale. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 35-44.	1.0	16
59	Use of 1,8-bis-(dimethylamino)-naphthalene/H18F complex as new radiofluorinating agent. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2004, 47, 373-383.	0.5	15
60	A reexamination of the Middle Paleolithic human remains from Riparo Tagliente, Italy. <i>Quaternary International</i> , 2016, 425, 437-444.	0.7	15
61	EEG, PET, SPET and MRI in intractable childhood epilepsies: possible surgical correlations. <i>Child's Nervous System</i> , 1995, 11, 672-678.	0.6	14
62	Middle paleolithic human deciduous incisor from Grotta del Cavallo, Italy. <i>American Journal of Physical Anthropology</i> , 2016, 161, 506-512.	2.1	14
63	Noninvasive identification of limited coronary flow reserve in hypertrophic cardiomyopathy. <i>Coronary Artery Disease</i> , 1992, 3, 513-522.	0.3	13
64	Tumor Targeting Potential and Metabolism of 5-[125I]Iodo-2'-Deoxyuridine Injected Intratumorally in Patients with Breast Cancer. <i>Annals of the New York Academy of Sciences</i> , 1993, 698, 204-211.	1.8	13
65	Evidence for a systemic defect of resistance-sized arterioles in hypertrophic cardiomyopathy. <i>Coronary Artery Disease</i> , 1993, 4, 67-108.	0.3	12
66	A micro-PET/CT approach using O-(2-[18F]fluoroethyl)-l-tyrosine in an experimental animal model of F98 glioma for BNCT. <i>Applied Radiation and Isotopes</i> , 2011, 69, 1717-1720.	0.7	12
67	Fabrication of SU-8 microreactors for radiopharmaceutical production. <i>Microelectronic Engineering</i> , 2011, 88, 1664-1667.	1.1	12
68	Elevated glycemia and brain glucose utilization predict BDNF lowering since early life. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 447-455.	2.4	12
69	Implementation of a quality assurance system according to GMP and ISO 9001:2008 standard for radiopharmaceutical production in a public research centre. <i>Accreditation and Quality Assurance</i> , 2012, 17, 341-348.	0.4	11
70	Tolerance of Water in Microfluidic Radiofluorinations: A Potential Methodological Shift?. <i>Journal of Flow Chemistry</i> , 2014, 4, 86-91.	1.2	10
71	Toward PET imaging of A2B adenosine receptors: a carbon-11 labeled triazinobenzimidazole tracer. <i>Nuclear Medicine and Biology</i> , 2016, 43, 309-317.	0.3	10
72	Magnetic resonance imaging for the study of mummies. <i>Magnetic Resonance Imaging</i> , 2016, 34, 785-794.	1.0	10

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73	Magnetic resonance spectroscopy and imaging for the study of fossils. <i>Magnetic Resonance Imaging</i> , 2016, 34, 730-742.	1.0	10
74	In vitro neutron irradiation of glioma and endothelial cultured cells. <i>Applied Radiation and Isotopes</i> , 2009, 67, S336-S340.	0.7	9
75	Imaging and Laboratory Biomarkers in Cardiovascular Disease. <i>Current Pharmaceutical Design</i> , 2009, 15, 1131-1141.	0.9	9
76	Contribution of organ blood flow, intrinsic tissue clearance and glycaemia to the regulation of glucose use in obese and type 2 diabetic rats: A PET study. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2011, 21, 726-732.	1.1	9
77	Independent effects of circulating glucose, insulin and NEFA on cardiac triacylglycerol accumulation and myocardial insulin resistance in a swine model. <i>Diabetologia</i> , 2014, 57, 1937-1946.	2.9	8
78	Magnetically driven nanoparticles: ¹⁸ F-FDG radiolabelling and positron emission tomography biodistribution study. <i>Contrast Media and Molecular Imaging</i> , 2016, 11, 561-571.	0.4	8
79	Numerical simulation of novel concept 4D cardiac microtomography for small rodents based on all-optical Thomson scattering X-ray sources. <i>Scientific Reports</i> , 2019, 9, 8439.	1.6	8
80	^{99m} Tc-Aprotinin for the Study of Renal Morphology and Tubular Function. <i>Uremia Investigation</i> , 1985, 9, 139-146.	0.1	7
81	Quantitative micro-CT based coronary artery profiling using interactive local thresholding and cylindrical coordinates. <i>Technology and Health Care</i> , 2015, 23, 557-570.	0.5	7
82	Chirality influences the biological activity of the sex pheromones of the khapra beetle. <i>Die Naturwissenschaften</i> , 1979, 66, 211-211.	0.6	6
83	28. Accuracy of Qualitative and Semiquantitative Analysis of ¹⁸ F-FDG Positron Emission Tomography Scans in the Evaluation of Primary and Metastatic Lesions. <i>Molecular Imaging and Biology</i> , 2000, 3, 182.	0.3	6
84	Development of an automated modular system for the synthesis of [¹¹ C]acetate. <i>Nuclear Medicine Communications</i> , 2010, 31, 1033-1039.	0.5	6
85	[¹¹ C]diclofenac sodium: synthesis and PET assessment of transdermal penetration. <i>Nuclear Medicine and Biology</i> , 2011, 38, 181-189.	0.3	6
86	Similar patterns of myocardial metabolism and perfusion in patients with type 2 diabetes and heart disease of ischaemic and non-ischaemic origin. <i>Diabetologia</i> , 2012, 55, 2494-2500.	2.9	6
87	In vitro study of human proximal femur microstructure: analysis of the relationship between micro-computed tomography data and quantitative ultrasound parameters. <i>IET Science, Measurement and Technology</i> , 2016, 10, 193-199.	0.9	6
88	Alveolar Bone Remodeling with or without Collagen Filling of the Extraction Socket: A High-Resolution X-ray Tomography Animal Study. <i>Journal of Clinical Medicine</i> , 2022, 11, 2493.	1.0	6
89	Significance of both negative T waves and stress-induced normalization of the repolarization phase in infarcted patients: a positron-emission-tomography assessment of regulation of myocardial blood flow and viability of myocardium. <i>Coronary Artery Disease</i> , 2001, 12, 205-215.	0.3	5
90	A Dose-Response Elevation in Hepatic Glucose Uptake is Paralleled by Liver Triglyceride Synthesis and Release. <i>Endocrine Research</i> , 2011, 36, 9-18.	0.6	5

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91	Analytical procedure for mapping the distribution of ¹⁰ B and ⁹⁹ Tc markers in cryo-sections of animal tissue samples by secondary ion mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 911-920.	1.5	4
92	Implementation of Good Manufacturing Practice in small-volume production of [¹⁸ F]FDG: a case report of performance measurements. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 293, 757-762.	0.7	4
93	A historical case of amelogenesis imperfecta: <i>Giovanna of Austria, Grand Duchess of Tuscany (1547-1578)</i> . <i>European Journal of Oral Sciences</i> , 2014, 122, 1-6.	0.7	4
94	Performance evaluation of the CT component of the IRIS PET/CT preclinical tomograph. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 805, 135-144.	0.7	4
95	Preliminary Investigation of a Novel ¹⁸ F Radiopharmaceutical for Imaging CB2 Receptors in a SOD Mouse Model. <i>Australian Journal of Chemistry</i> , 2021, 74, 443.	0.5	4
96	Measurement of ultraweak chemiluminescence emitted from isolated and perfused rat hearts. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1984, 3, 936-944.	0.4	2
97	Maternal and Sex Dependency of Insulin Resistance: Longitudinal PET and Echocardiography Study from the Healthy Fetus to the Adult Minipig. <i>Journal of Nuclear Medicine</i> , 2011, 52, 1993-2000.	2.8	2
98	Performances of a TRACERlab FX C synthesis module using a Ni-nanopowder/molecular sieves mixed catalyst. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 299, 2005-2011.	0.7	2
99	Dipyridamole-induced ST segment depression in hypertrophic cardiomyopathy is associated with a reduced coronary flow response. <i>Journal of the American College of Cardiology</i> , 1991, 17, A166.	1.2	1
100	Three-dimensional parametric mapping in quantitative micro-CT imaging of post-surgery femoral head-neck samples: preliminary results. <i>Clinical Cases in Mineral and Bone Metabolism</i> , 2015, 12, 243-6.	1.0	1
101	Identification of chemical byproducts in the radiofluorination of structurally complex arylodonium salts. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 303, 1021-1027.	0.7	1
102	The role of quality management system in the monitoring and continuous improvement of GMP-regulated short-lived radiopharmaceutical manufacture. <i>Accreditation and Quality Assurance</i> , 2014, 19, 343-354.	0.4	0
103	Synthesis and In Vivo Imaging of N-(3-[¹¹ C]Methoxybenzyl)-2-(3-Methoxyphenyl)ethylaniline as a Potential Targeting Agent for P-glycoprotein. <i>Molecular Imaging and Biology</i> , 2016, 18, 916-923.	1.3	0
104	Letter to the editor: Reply to Hardy & Buckley: Earliest evidence of bitumen from <i>Homo</i> sp. teeth is from El Sidro'n. <i>American Journal of Physical Anthropology</i> , 2017, 164, 214-215.	2.1	0
105	POSITRON EMISSION TOMOGRAPHY APPLICATION TO DRUG DEVELOPMENT AND RESEARCH. , 2007, , 341-351.		0