Gregory Severin

List of Publications by Year
in descending order

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58	1,357	361045	344852
papers	citations	20 h-index	36 g-index

59	59	59	1786
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Harvesting krypton isotopes from the off-gas of an irradiated water target to generate 76Br and 77Br. Scientific Reports, 2022, 12, 1433.	1.6	2
2	PET in vivo generators 134Ce and 140Nd on an internalizing monoclonal antibody probe. Scientific Reports, 2022, 12, 3863.	1.6	4
3	A Model for Radiolysis in a Flowing-Water Target during High-Intensity Proton Irradiation. ACS Omega, 2022, 7, 25860-25873.	1.6	4
4	Aqueous harvesting of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Zr</mml:mi><mml:mprescripts /><mml:none /><mml:mn>88</mml:mn></mml:mmultiscripts></mml:math>at a radioactive-ion-beam facility for cross-section measurements. Physical Review C, 2021, 103, .	1.1	7
5	Branching ratios for the three most intense gamma rays in the decay of 47Ca. Applied Radiation and Isotopes, 2021, 179, 109994.	0.7	0
6	A solid support generator of the Auger electron emitter rhodium-103m from [103Pd]palladium. Applied Radiation and Isotopes, 2020, 156, 108985.	0.7	9
7	Harvesting 48V at the National Superconducting Cyclotron Laboratory. Applied Radiation and Isotopes, 2020, 157, 109023.	0.7	10
8	Cs-131 as an experimental tool for the investigation and quantification of the radiotoxicity of intracellular Auger decays inÂvitro. International Journal of Radiation Biology, 2020, , 1-14.	1.0	2
9	Radiolysis and radionuclide production in a flowing-water target during fast 40Ca20+ irradiation.. Applied Radiation and Isotopes, 2020, 158, 109049.	0.7	9
10	Durability test of a flowing-water target for isotope harvesting. Nuclear Instruments & Methods in Physics Research B, 2020, 478, 34-45.	0.6	5
11	An isotope harvesting beam blocker for the National Superconducting Cyclotron Laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 959, 163526.	0.7	8
12	Harvesting⁶²Zn from an aqueous cocktail at the NSCL. New Journal of Chemistry, 2020, 44, 20861-20870.	1.4	3
13	Production, Collection, and Purification of Ca for the Generation of Sc through Isotope Harvesting at the National Superconducting Cyclotron Laboratory. ACS Omega, 2020, 5, 27864-27872.	1.6	1
14	Production, Collection, and Purification of ⁴⁷Ca for the Generation of ⁴⁷Sc through Isotope Harvesting at the National Superconducting Cyclotron Laboratory. ACS Omega, 2020, 5, 27864-27872.	1.6	10
15	Isotope harvesting at FRIB: additional opportunities for scientific discovery. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 100501.	1.4	35
16	¹³⁵La as an Auger-electron emitter for targeted internal radiotherapy. Physics in Medicine and Biology, 2018, 63, 015026.	1.6	19
17	Half-lives of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>La</mml:mi><mml:mprescripts /><mml:none /><mml:mn>132</mml:mn></mml:mmultiscripts></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>La</mml:mi><mml:mprescripts /><mml:none /><mml:mn>135</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2018, 97, .	1.1	9
18	Remote-loading of liposomes with manganese-52 and in vivo evaluation of the stabilities of 52Mn-DOTA and 64Cu-DOTA using radiolabelled liposomes and PET imaging. Journal of Controlled Release, 2018, 269, 100-109.	4.8	43

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19	Radiomanganese PET Detects Changes in Functional Î²-Cell Mass in Mouse Models of Diabetes. Diabetes, 2017, 66, 2163-2174.	0.3	32
20	Optimized procedures for manganese-52: Production, separation and radiolabeling. Applied Radiation and Isotopes, 2017, 121, 38-43.	0.7	37
21	Imaging neuronal pathways with 52Mn PET: Toxicity evaluation in rats. NeuroImage, 2017, 158, 112-125.	2.1	11
22	Neodymium-140 DOTA-LM3: Evaluation of an In Vivo Generator for PET with a Non-Internalizing Vector. Frontiers in Medicine, 2017, 4, 98.	1.2	9
23	Abstract 5203: Tissue factor targeted radionuclide therapy with177Lu-FVIIai inhibits tumor growth of human pancreatic cancer xenografts. , 2017, , .		0
24	In Vivo Radionuclide Generators for Diagnostics and Therapy. Bioinorganic Chemistry and Applications, 2016, 2016, 1-8.	1.8	31
25	Stable and highâ€yielding intrinsic ⁵⁹Feâ€radiolabeling of the intravenous iron preparations <scp>Monofer</scp> and <scp>Cosmofer</scp>. Journal of Labelled Compounds and Radiopharmaceuticals, 2016, 59, 375-382.	0.5	1
26	Transferrin receptor expression and role in transendothelial transport of transferrin in cultured brain endothelial monolayers. Molecular and Cellular Neurosciences, 2016, 76, 59-67.	1.0	29
27	Exploiting the Metal-Chelating Properties of the Drug Cargo for In Vivo Positron Emission Tomography Imaging of Liposomal Nanomedicines. ACS Nano, 2016, 10, 10294-10307.	7.3	83
28	Mouse Positron Emission Tomography Study of the Biodistribution of Gold Nanoparticles with Different Surface Coatings Using Embedded Copper-64. ACS Nano, 2016, 10, 9887-9898.	7.3	48
29	ImmunoPET/MR imaging allows specific detection of Aspergillus fumigatus lung infection in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1026-33.	3.3	119
30	Antibody-based PET of uPA/uPAR signaling with broad applicability for cancer imaging. Oncotarget, 2016, 7, 73912-73924.	0.8	13
31	Measurement of the branching ratio for the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math>decay of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mn>14</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2015, 92, .	1.1	8
32	Management of Tritium in European Spallation Source. Fusion Science and Technology, 2015, 67, 324-327.	0.6	1
33	Towards automated solid phase radiofluorination for dose-on-demand PET: retention of activity by solid support. Radiochimica Acta, 2015, 103, 227-232.	0.5	0
34	The impact of weakly bound 89Zr on preclinical studies: Non-specific accumulation in solid tumors and aspergillus infection. Nuclear Medicine and Biology, 2015, 42, 360-368.	0.3	32
35	Migration of radionuclides in a gas cooled solid state spallation target. Nuclear Engineering and Design, 2015, 282, 28-35.	0.8	0
36	Automated synthesis and PET evaluation of both enantiomers of [18F]FMISO. Nuclear Medicine and Biology, 2015, 42, 413-419.	0.3	7

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37	Novel Preparation Methods of ⁵²Mn for ImmunoPET Imaging. Bioconjugate Chemistry, 2015, 26, 2118-2124.	1.8	74
38	Bringing Radiotracing to Titanium-Based Antineoplastics: Solid Phase Radiosynthesis, PET and ex Vivo Evaluation of Antitumor Agent [⁴⁵Ti](salan)Ti(dipic). Journal of Medicinal Chemistry, 2015, 58, 7591-7595.	2.9	36
39	Measurement of the shape factor for the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math>decay of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mn>14</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review C, 2014, 90, .	1.1	9
40	Ga66ground stateÎ²spectrum. Physical Review C, 2014, 89, .	1.1	6
41	[sup 45]Ti extraction using hydroxamate resin. AIP Conference Proceedings, 2012, , .	0.3	11
42	Prompt radiation detectors to monitor target conditions. , 2012, , .		3
43	[sup 44g]Sc from metal calcium targets for PET. AIP Conference Proceedings, 2012, , .	0.3	8
44	Flexible, durable proton energy degraders for the GE PETtrace. , 2012, , .		1
45	Multimodality Imaging of Breast Cancer Experimental Lung Metastasis with Bioluminescence and a Monoclonal Antibody Dual-Labeled with ⁸⁹Zr and IRDye 800CW. Molecular Pharmaceutics, 2012, 9, 2339-2349.	2.3	63
46	Very high specific activity 66/68Ga from zinc targets for PET. Applied Radiation and Isotopes, 2012, 70, 1792-1796.	0.7	51
47	Cyclotron produced 44gSc from natural calcium. Applied Radiation and Isotopes, 2012, 70, 1526-1530.	0.7	89
48	An after-market, five-port vertical beam line extension for the PETtrace. , 2012, , .		2
49	Cross sections of the 36Ar(d,Î±)34mCl, 40Ar(d,Î±)38Cl, and 40Ar(d,p)41Ar nuclear reactions below 8.4MeV. Applied Radiation and Isotopes, 2012, 70, 355-359.	0.7	8
50	Positron emission tomography imaging of CD105 expression with 89Zr-Df-TRC105. European Journal of Nuclear Medicine and Molecular Imaging, 2012, 39, 138-148.	3.3	75
51	WE-C-217BCD-04: Multimodality Imaging of Breast Cancer Experimental Lung Metastasis. Medical Physics, 2012, 39, 3950-3950.	1.6	2
52	ImmunoPET and near-infrared fluorescence imaging of CD105 expression using a monoclonal antibody dual-labeled with (89)Zr and IRDye 800CW. American Journal of Translational Research (discontinued), 2012, 4, 333-46.	0.0	38
53	A superconducting beta spectrometer. Review of Scientific Instruments, 2011, 82, 073302.	0.6	7
54	89Zr Radiochemistry for Positron Emission Tomography. Medicinal Chemistry, 2011, 7, 389-394.	0.7	63

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55	The Unrealized Potential of 34mCl for Radiopharmaceutical Research with PET. Current Radiopharmaceuticals, 2011, 4, 102-108.	0.3	7
56	HaloTag: a novel reporter gene for positron emission tomography. American Journal of Translational Research (discontinued), 2011, 3, 392-403.	0.0	20
57	Half-life of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Ga</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>66</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review C, 2010, 82, .	1.1	9
58	Bisphosphonates Are Potent Inhibitors of Trypanosoma cruzi Farnesyl Pyrophosphate Synthase. Journal of Biological Chemistry, 2001, 276, 33930-33937.	1.6	134