

# Leonard G Luyt

## List of Publications by Year in descending order

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89  
papers

1,771  
citations

304368

22  
h-index

329751

37  
g-index

102  
all docs

102  
docs citations

102  
times ranked

2699  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-Modal Magnetic Resonance and Fluorescence Imaging of Atherosclerotic Plaques in Vivo Using VCAM-1 Targeted Tobacco Mosaic Virus. <i>Nano Letters</i> , 2014, 14, 1551-1558.	4.5	145
2	Intravital Imaging of Human Prostate Cancer Using Viral Nanoparticles Targeted to Gastrin Releasing Peptide Receptors. <i>Small</i> , 2011, 7, 1664-1672.	5.2	100
3	A RHAMM Mimetic Peptide Blocks Hyaluronan Signaling and Reduces Inflammation and Fibrogenesis in Excisional Skin Wounds. <i>American Journal of Pathology</i> , 2012, 181, 1250-1270.	1.9	97
4	RHAMM Promotes Interphase Microtubule Instability and Mitotic Spindle Integrity through MEK1/ERK1/2 Activity. <i>Journal of Biological Chemistry</i> , 2010, 285, 26461-26474.	1.6	78
5	Evaluation of Anisole-Substituted Boron Difluoride Formazanate Complexes for Fluorescence Cell Imaging. <i>Chemistry - A European Journal</i> , 2015, 21, 15589-15599.	1.7	65
6	Molecular Engineering of Thiazole Orange Dye: Change of Fluorescent Signaling from Universal to Specific upon Binding with Nucleic Acids in Bioassay. <i>ACS Chemical Biology</i> , 2016, 11, 1019-1029.	1.6	64
7	Synthesis of bombesin-functionalized iron oxide nanoparticles and their specific uptake in prostate cancer cells. <i>Journal of Nanoparticle Research</i> , 2010, 12, 1599-1608.	0.8	53
8	Molecular imaging probes derived from natural peptides. <i>Natural Product Reports</i> , 2016, 33, 761-800.	5.2	52
9	$7\text{I}\pm$ - and $17\text{I}\pm$ -Substituted estrogens containing tridentate tricarbonyl rhenium/Technetium complexes: synthesis of estrogen receptor imaging agents and evaluation using microPET with technetium-94m. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 4977-4989.	1.4	44
10	Design and characterization of a fluorescent ghrelin analog for imaging the growth hormone secretagogue receptor 1a. <i>Regulatory Peptides</i> , 2011, 172, 69-76.	1.9	43
11	Evidence Supporting a Role for the Blood-Cerebrospinal Fluid Barrier Transporting Circulating Ghrelin into the Brain. <i>Molecular Neurobiology</i> , 2019, 56, 4120-4134.	1.9	42
12	Fluorine and Rhenium Substituted Ghrelin Analogues as Potential Imaging Probes for the Growth Hormone Secretagogue Receptor. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 2196-2203.	2.9	37
13	Design and Synthesis of Functionalized Cyclopentadienyl Tricarbonylmetal Complexes for Technetium-94m PET Imaging of Estrogen Receptors. <i>Bioconjugate Chemistry</i> , 2005, 16, 255-264.	1.8	33
14	Molecular Targeted Viral Nanoparticles as Tools for Imaging Cancer. <i>Methods in Molecular Biology</i> , 2014, 1108, 211-230.	0.4	33
15	High-Throughput Screening of One-Bead One-Compound Peptide Libraries Using Intact Cells. <i>ACS Combinatorial Science</i> , 2013, 15, 393-400.	3.8	32
16	Copper-assisted azide-alkyne cycloaddition chemistry as a tool for the production of emissive boron difluoride 3-cyanoformazanates. <i>Organic Chemistry Frontiers</i> , 2017, 4, 178-190.	2.3	29
17	A Trithiolate Tripodal Bifunctional Ligand for the Radiolabeling of Peptides with Gallium(III). <i>Bioconjugate Chemistry</i> , 2002, 13, 1140-1145.	1.8	28
18	Ghrelin receptor as a novel imaging target for prostatic neoplasms. <i>Prostate</i> , 2012, 72, 825-833.	1.2	27

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19	Synthesis, radiometal labeling and in vitro evaluation of a targeted PPIX derivative. <i>Applied Radiation and Isotopes</i> , 2012, 70, 505-511.	0.7	27
20	Design of peptide mimetics to block pro-inflammatory functions of HA fragments. <i>Matrix Biology</i> , 2019, 78-79, 346-356.	1.5	27
21	ParaCEST MRI contrast agents capable of derivatization via click chemistry. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 287-292.	1.5	26
22	Receptor for hyaluronan mediated motility (RHAMM/HMMR) is a novel target for promoting subcutaneous adipogenesis. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 223-237.	0.6	26
23	Molecular basis for activation and biased signaling at the thrombin-activated GPCR proteinase activated receptor-4 (PAR4). <i>Journal of Biological Chemistry</i> , 2020, 295, 2520-2540.	1.6	24
24	Characterization of a far-red analog of ghrelin for imaging GHS-R in P19-derived cardiomyocytes. <i>Peptides</i> , 2014, 54, 81-88.	1.2	23
25	Identification of a selective G-quadruplex DNA binder using a multistep virtual screening approach. <i>Chemical Communications</i> , 2015, 51, 198-201.	2.2	23
26	Viral nanoparticles decorated with novel EGFL7 ligands enable intravital imaging of tumor neovasculature. <i>Nanoscale</i> , 2017, 9, 12096-12109.	2.8	23
27	Discovery of Novel Integrin Ligands from Combinatorial Libraries Using a Multiplex Beads on a Bead Approach. <i>Nano Letters</i> , 2012, 12, 5957-5965.	4.5	22
28	Synthesis and Evaluation of Optical and PET GLP-1 Peptide Analogues for GLP-1R Imaging. <i>Molecular Imaging</i> , 2015, 14, 1-16.	0.7	22
29	Bridging computational modeling with amino acid replacements to investigate GHS-R1a-peptidomimetic recognition. <i>European Journal of Medicinal Chemistry</i> , 2016, 123, 822-833.	2.6	22
30	Structure-Activity Study of Ghrelin(1-8) Resulting in High Affinity Fluorine-Bearing Ligands for the Ghrelin Receptor. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 7256-7266.	2.9	20
31	A fast, reproducible and low-cost method for sequence deconvolution of bead™ peptides via target™ maldi-TOF/TOF mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2010, 45, 241-251.	0.7	19
32	Design, synthesis and in vitro characterization of Glucagon-Like Peptide-1 derivatives for pancreatic beta cell imaging by SPECT. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 1265-1272.	1.4	19
33	Water-soluble gold nanoparticles (AuNP) functionalized with a gadolinium(iii) chelate via Michael addition for use as a MRI contrast agent. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5628.	2.9	19
34	Identification, design and synthesis of tubulin-derived peptides as novel hyaluronan mimetic ligands for the receptor for hyaluronan-mediated motility (RHAMM/HMMR). <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 223-237.	0.6	26
35	Boosting the turn-on fluorescent signaling ability of thiazole orange dyes: The effectiveness of structural modification site and its unusual interaction behavior with nucleic acids. <i>Dyes and Pigments</i> , 2018, 159, 449-456.	2.0	17
36	Single Isomer Technetium-99m Tamoxifen Conjugates. <i>Bioconjugate Chemistry</i> , 2000, 11, 175-181.	1.8	16

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37	Pharmacokinetics and Pharmacodynamics of Hyaluronan Infused into Healthy Human Volunteers. <i>The Open Drug Metabolism Journal</i> , 2009, 3, 43-55.	0.5	16
38	An N2S2Bifunctional Chelator for Technetium-99m and Rhenium-186 Complexation, Conjugation, and Epimerization to a Single Isomer. <i>Bioconjugate Chemistry</i> , 1999, 10, 470-479.	1.8	15
39	Contrast agents possessing high temperature sensitivity. <i>Chemical Communications</i> , 2011, 47, 9194.	2.2	15
40	Imaging of Homeostatic, Neoplastic, and Injured Tissues by HA-Based Probes. <i>Biomacromolecules</i> , 2012, 13, 12-22.	2.6	15
41	Development of Candidates for Positron Emission Tomography (PET) Imaging of Ghrelin Receptor in Disease: Design, Synthesis, and Evaluation of Fluorine-Bearing Quinazolinone Derivatives. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 1261-1275.	2.9	15
42	The interaction of a structural flexible small molecule with nucleic acid structures: Investigation of the origin of fluorescence signal discrimination in sensing and the utilization in live cell imaging. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 543-551.	4.0	14
43	Mono- and Tetraalkyne Modified Ligands and Their Eu <sup>3+</sup> Complexes Utilizing "Click" Chemistry to Expand the Scope of Conjugation Chemistry. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 6532-6543.	1.2	13
44	Changes in the Cardiac GHSR1a-Ghrelin System Correlate With Myocardial Dysfunction in Diabetic Cardiomyopathy in Mice. <i>Journal of the Endocrine Society</i> , 2018, 2, 178-189.	0.1	13
45	A Hyaluronan-binding Peptide (P15-1) Reduces Inflammatory and Catabolic Events in IL-1 $\beta$ -treated Human Articular Chondrocytes. <i>Scientific Reports</i> , 2020, 10, 1441.	1.6	11
46	Targeting Glioblastoma Using a Novel Peptide Specific to a Deglycosylated Isoform of Brevican. <i>Advanced Therapeutics</i> , 2021, 4, 2000244.	1.6	11
47	MRI ParaCEST agents that improve amide based pH measurements by limiting inner sphere water T <sub>2</sub> exchange. <i>RSC Advances</i> , 2014, 4, 1666-1674.	1.7	10
48	Novel Methods of Determining Urinary Calculi Composition: Petrographic Thin Sectioning of Calculi and Nanoscale Flow Cytometry Urinalysis. <i>Scientific Reports</i> , 2016, 6, 19328.	1.6	10
49	A Compact and Synthetically Accessible Fluorine-18 Labelled Cyclooctyne Prosthetic Group for Labelling of Biomolecules by Copper-Free Click Chemistry. <i>ChemMedChem</i> , 2018, 13, 1625-1628.	1.6	10
50	Amino-Substituted 2,2'-Bipyridine Ligands as Fluorescent Indicators for Zn <sup>II</sup> and Applications for Fluorescence Imaging of Prostate Cells. <i>Chemistry - A European Journal</i> , 2018, 24, 14539-14546.	1.7	10
51	A dual modality <sup>99m</sup> Tc/Re( <i>i</i> )-labelled T140 analogue for imaging of CXCR4 expression. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 598-608.	1.5	10
52	Dynamics of the Ghrelin/Growth Hormone Secretagogue Receptor System in the Human Heart Before and After Cardiac Transplantation. <i>Journal of the Endocrine Society</i> , 2019, 3, 748-762.	0.1	10
53	Nitrene-Modified Gold Nanoparticles: Synthesis, Characterization, and Their Potential as <sup>18</sup> F-Labeled Positron Emission Tomography Probes via I-SPANC. <i>ACS Omega</i> , 2019, 4, 19106-19115.	1.6	9
54	A convenient synthesis of 6,6'-dialkoxythioindigo dyes suitable for doping into a liquid crystal host. <i>Tetrahedron Letters</i> , 1994, 35, 7549-7552.	0.7	8

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55	Complexes of selected late period lanthanide(III) cations with 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid amide (DOTAM)-alkyl ligands "A new platform for the development of paramagnetic chemical exchange saturation transfer (PARACEST) magnetic resonance imaging (MRI) contrast agents. Canadian Journal of Chemistry, 2013, 91, 211-219.	0.6	8
56	An Integrated Imaging Probe Design: The Synthesis of <sup>99m</sup> Tc/Re-Containing Macrocyclic Peptide Scaffolds. Chemistry - A European Journal, 2015, 21, 568-578.	1.7	8
57	Design of a Microfluidic Chip for Magnetic-Activated Sorting of One-Bead-One-Compound Libraries. ACS Combinatorial Science, 2016, 18, 271-278.	3.8	8
58	Synthesis and Cell-Based Screening of One-Bead-One-Compound Peptide Libraries. Methods in Molecular Biology, 2015, 1248, 223-237.	0.4	8
59	The development of peptide-boron difluoride formazanate conjugates as fluorescence imaging agents. RSC Advances, 2020, 10, 18970-18977.	1.7	8
60	Investigation of isomer formation upon coordination of bifunctional histidine analogues with <sup>99m</sup> Tc/Re(CO) <sub>3</sub> . Dalton Transactions, 2012, 41, 2950.	1.6	7
61	Introduction of Peripheral Carboxylates to Decrease the Charge on Tm <sup>3+</sup> DOTAM-Alkyl Complexes: Implications for Detection Sensitivity and in Vivo Toxicity of PARACEST MRI Contrast Agents. Journal of Medicinal Chemistry, 2015, 58, 6516-6532.	2.9	7
62	Development of a [ <sup>68</sup> Ga]-ghrelin analogue for PET imaging of the ghrelin receptor (GHS-R1a). MedChemComm, 2018, 9, 1761-1767.	3.5	7
63	Peptidomimetic growth hormone secretagogue derivatives for positron emission tomography imaging of the ghrelin receptor. European Journal of Medicinal Chemistry, 2018, 157, 1500-1511.	2.6	7
64	The development of a near infrared inulin optical probe for measuring glomerular filtration rate. International Journal of Biological Macromolecules, 2019, 123, 255-260.	3.6	7
65	Bombesin-functionalized water-soluble gold nanoparticles for targeting prostate cancer. Journal of Interdisciplinary Nanomedicine, 2017, 2, 174-187.	3.6	6
66	A truncated RHAMM protein for discovering novel therapeutic peptides. Bioorganic and Medicinal Chemistry, 2018, 26, 5194-5203.	1.4	6
67	Regional Differences in the Ghrelin-Growth Hormone Secretagogue Receptor Signalling System in Human Heart Disease. CJC Open, 2021, 3, 182-194.	0.7	6
68	Lysine conjugates for the labelling of peptides with technetium-99m and rhenium. Journal of Labelled Compounds and Radiopharmaceuticals, 2000, 43, 403-412.	0.5	5
69	The development of organometallic OBOC peptide libraries and sequencing of N-terminal rhenium(I) tricarbonyl-containing peptides utilizing MALDI tandem mass spectrometry. Canadian Journal of Chemistry, 2015, 93, 234-243.	0.6	5
70	A study of <sup>99m</sup> Tc/Re-tricarbonyl complexes of 4-amino-1,8-naphthalimides. Dalton Transactions, 2019, 48, 14077-14084.	1.6	5
71	High Affinity Fluorescent Probe for Proteinase-Activated Receptor 2 (PAR2). ACS Medicinal Chemistry Letters, 2019, 10, 1045-1050.	1.3	5
72	A Decade's Progress in the Development of Molecular Imaging Agents Targeting the Growth Hormone Secretagogue Receptor. Molecular Imaging, 2020, 19, 153601212095262.	0.7	5

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73	Incorporation of Fluorine into an OBOC Peptide Library by Copper-Free Click Chemistry toward the Discovery of PET Imaging Agents. <i>ACS Combinatorial Science</i> , 2020, 22, 109-113.	3.8	5
74	Synthesis of a poly(Gd(III)-DOTA)-PNA conjugate as a potential MRI contrast agent via post-synthetic click chemistry functionalization. <i>RSC Advances</i> , 2017, 7, 45222-45226.	1.7	4
75	Development and Characterization of an <sup>18</sup> F-labeled Ghrelin Peptidomimetic for Imaging the Cardiac Growth Hormone Secretagogue Receptor. <i>Molecular Imaging</i> , 2018, 17, 153601211880958.	0.7	4
76	The Chimera That Curbs Appetite. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 11037-11038.	2.9	4
77	<sup>18</sup> F-Labeled PET Probe Targeting Enhancer of Zeste Homologue 2 (EZH2) for Cancer Imaging. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 334-340.	1.3	4
78	Stapled ghrelin peptides as fluorescent imaging probes. <i>Peptide Science</i> , 2019, 111, e24055.	1.0	4
79	Synthesis of Rhenium-Centric Reverse Turn Mimics. <i>Chemistry - A European Journal</i> , 2012, 18, 12999-13007.	1.7	3
80	Scorpion-like dithiocarbamato-carboxylate ligands for linking M(CO) <sub>3</sub> + (M=Tc, Re). <i>European Physical Journal D</i> , 2003, 53, A543-A548.	0.4	2
81	Dysprosium(III) and thulium(III) complexes of DO3A-monoanilides: an investigation of electronic effects on their relaxometric and amide-based PARACEST properties. <i>Canadian Journal of Chemistry</i> , 2015, 93, 244-252.	0.6	2
82	Single Amino Acid Replacement in G <sub>12</sub> Leads to a 70-fold Increase in Binding toward GHSR1a. <i>ChemMedChem</i> , 2019, 14, 1762-1766.	1.6	2
83	New dithiocarbamato-carboxylate chelation units for linking M(CO) <sub>3</sub> + (M = Tc, Re) species to other molecules. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2001, 44, S486-S488.	0.5	1
84	Evaluation of 6-([ <sup>18</sup> F] fluoroacetamido)-1-hexanoic-anilide (18F-FAHA) as imaging probe in tumor xenograft mice model. , 2016, , .		1
85	Radiofluorination of non-activated aromatic prosthetic groups for synthesis and evaluation of fluorine-18 labelled ghrelin(1-8) analogues. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 8812-8820.	1.5	1
86	Preparation of cyclopentadienyl tricarbonyl technetium-94m complexes. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2001, 44, S489.	0.5	0
87	Viral Nanoparticles: Intravital Imaging of Human Prostate Cancer Using Viral Nanoparticles Targeted to Gastrin-Releasing Peptide Receptors (Small 12/2011). <i>Small</i> , 2011, 7, 1602-1602.	5.2	0
88	Frontispiece: An Integrated Imaging Probe Design: The Synthesis of <sup>99m</sup> Tc/Re-Containing Macrocyclic Peptide Scaffolds. <i>Chemistry - A European Journal</i> , 2015, 21, n/a-n/a.	1.7	0
89	In vivo multimodal imaging of hyaluronan-mediated inflammatory response in articular cartilage. <i>Osteoarthritis and Cartilage</i> , 2021, , .	0.6	0