

Leonard G Luyt

List of Publications by Year in descending order

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89
papers

1,771
citations

304743

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docs citations

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times ranked

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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.	9.1	145
2	Intravital Imaging of Human Prostate Cancer Using Viral Nanoparticles Targeted to Gastrinâ€Releasing Peptide Receptors. <i>Small</i> , 2011, 7, 1664-1672.	10.0	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.	3.8	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.	3.4	78
5	Evaluation of Anisoleâ€Substituted Boron Difluoride Formazanate Complexes for Fluorescence Cell Imaging. <i>Chemistry - A European Journal</i> , 2015, 21, 15589-15599.	3.3	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.	3.4	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.	1.9	53
8	Molecular imaging probes derived from natural peptides. <i>Natural Product Reports</i> , 2016, 33, 761-800.	10.3	52
9	7Î±- and 17Î±-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.	3.0	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.	4.0	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.	6.4	37
13	Design and Synthesis of Functionalized Cyclopentadienyl Tricarbonylmatal Complexes for Technetium-94m PET Imaging of Estrogen Receptors. <i>Bioconjugate Chemistry</i> , 2005, 16, 255-264.	3.6	33
14	Molecular Targeted Viral Nanoparticles as Tools for Imaging Cancer. <i>Methods in Molecular Biology</i> , 2014, 1108, 211-230.	0.9	33
15	High-Throughput Screening of One-Beadâ€One-Compound Peptide Libraries Using Intact Cells. <i>ACS Combinatorial Science</i> , 2013, 15, 393-400.	3.8	32
16	Copper-assisted azideâ€alkyne cycloaddition chemistry as a tool for the production of emissive boron difluoride 3-cyanoformazanates. <i>Organic Chemistry Frontiers</i> , 2017, 4, 178-190.	4.5	29
17	A Trithiolate Tripodal Bifunctional Ligand for the Radiolabeling of Peptides with Gallium(III). <i>Bioconjugate Chemistry</i> , 2002, 13, 1140-1145.	3.6	28
18	Ghrelin receptor as a novel imaging target for prostatic neoplasms. <i>Prostate</i> , 2012, 72, 825-833.	2.3	27

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19	Synthesis, radiometal labeling and in vitro evaluation of a targeted PPIX derivative. Applied Radiation and Isotopes, 2012, 70, 505-511.	1.5	27
20	Design of peptide mimetics to block pro-inflammatory functions of HA fragments. Matrix Biology, 2019, 78-79, 346-356.	3.6	27
21	ParaCEST MRI contrast agents capable of derivatization via "click" chemistry. Organic and Biomolecular Chemistry, 2012, 10, 287-292.	2.8	26
22	Receptor for hyaluronan mediated motility (RHAMM/HMMR) is a novel target for promoting subcutaneous adipogenesis. Integrative Biology (United Kingdom), 2017, 9, 223-237.	1.3	26
23	Molecular basis for activation and biased signaling at the thrombin-activated GPCR proteinase activated receptor-4 (PAR4). Journal of Biological Chemistry, 2020, 295, 2520-2540.	3.4	24
24	Characterization of a far-red analog of ghrelin for imaging GHS-R in P19-derived cardiomyocytes. Peptides, 2014, 54, 81-88.	2.4	23
25	Identification of a selective G-quadruplex DNA binder using a multistep virtual screening approach. Chemical Communications, 2015, 51, 198-201.	4.1	23
26	Viral nanoparticles decorated with novel EGFL7 ligands enable intravital imaging of tumor neovasculature. Nanoscale, 2017, 9, 12096-12109.	5.6	23
27	Discovery of Novel Integrin Ligands from Combinatorial Libraries Using a Multiplex "Beads on a Bead" Approach. Nano Letters, 2012, 12, 5957-5965.	9.1	22
28	Synthesis and Evaluation of Optical and PET GLP-1 Peptide Analogues for GLP-1R Imaging. Molecular Imaging, 2015, 14, 1-16.	1.4	22
29	Bridging computational modeling with amino acid replacements to investigate GHS-R1a-peptidomimetic recognition. European Journal of Medicinal Chemistry, 2016, 123, 822-833.	5.5	22
30	Structure-Activity Study of Ghrelin (1-8) Resulting in High Affinity Fluorine-Bearing Ligands for the Ghrelin Receptor. Journal of Medicinal Chemistry, 2017, 60, 7256-7266.	6.4	20
31	A fast, reproducible and low-cost method for sequence deconvolution of "on-bead"™ peptides via "on-target"™ maldi-TOF/TOF mass spectrometry. Journal of Mass Spectrometry, 2010, 45, 241-251.	1.6	19
32	Design, synthesis and in vitro characterization of Glucagon-Like Peptide-1 derivatives for pancreatic beta cell imaging by SPECT. Bioorganic and Medicinal Chemistry, 2010, 18, 1265-1272.	3.0	19
33	Water-soluble gold nanoparticles (AuNP) functionalized with a gadolinium(iii) chelate via Michael addition for use as a MRI contrast agent. Journal of Materials Chemistry B, 2013, 1, 5628.	5.8	19
34	Identification, design and synthesis of tubulin-derived peptides as novel hyaluronan mimetic ligands for the receptor for hyaluronan-mediated motility (RHAMM/HMMR). Integrative Biology (United Kingdom), 2017, 9, 223-237.	1.3	19
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. Dyes and Pigments, 2018, 159, 449-456.	3.7	17
36	Single Isomer Technetium-99m Tamoxifen Conjugates. Bioconjugate Chemistry, 2000, 11, 175-181.	3.6	16

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37	Pharmacokinetics and Pharmacodynamics of Hyaluronan Infused into Healthy Human Volunteers. The Open Drug Metabolism Journal, 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. Bioconjugate Chemistry, 1999, 10, 470-479.	3.6	15
39	Contrast agents possessing high temperature sensitivity. Chemical Communications, 2011, 47, 9194.	4.1	15
40	Imaging of Homeostatic, Neoplastic, and Injured Tissues by HA-Based Probes. Biomacromolecules, 2012, 13, 12-22.	5.4	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. Journal of Medicinal Chemistry, 2018, 61, 1261-1275.	6.4	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. Sensors and Actuators B: Chemical, 2017, 250, 543-551.	7.8	14
43	Mono- and Tetraalkyne Modified Ligands and Their Eu ³⁺ Complexes Utilizing "Click" Chemistry to Expand the Scope of Conjugation Chemistry. European Journal of Organic Chemistry, 2011, 2011, 6532-6543.	2.4	13
44	Changes in the Cardiac GHSR1a-Ghrelin System Correlate With Myocardial Dysfunction in Diabetic Cardiomyopathy in Mice. Journal of the Endocrine Society, 2018, 2, 178-189.	0.2	13
45	A Hyaluronan-binding Peptide (P15-1) Reduces Inflammatory and Catabolic Events in IL-1 β -treated Human Articular Chondrocytes. Scientific Reports, 2020, 10, 1441.	3.3	11
46	Targeting Glioblastoma Using a Novel Peptide Specific to a Deglycosylated Isoform of Brevican. Advanced Therapeutics, 2021, 4, 2000244.	3.2	11
47	MRI ParaCEST agents that improve amide based pH measurements by limiting inner sphere water T ₂ exchange. RSC Advances, 2014, 4, 1666-1674.	3.6	10
48	Novel Methods of Determining Urinary Calculi Composition: Petrographic Thin Sectioning of Calculi and Nanoscale Flow Cytometry Urinalysis. Scientific Reports, 2016, 6, 19328.	3.3	10
49	A Compact and Synthetically Accessible Fluorine-18 Labelled Cyclooctyne Prosthetic Group for Labelling of Biomolecules by Copper-Free Click Chemistry. ChemMedChem, 2018, 13, 1625-1628.	3.2	10
50	Amino-Substituted 2,2'-Bipyridine Ligands as Fluorescent Indicators for Zn ^{II} and Applications for Fluorescence Imaging of Prostate Cells. Chemistry - A European Journal, 2018, 24, 14539-14546.	3.3	10
51	A dual modality ^{99m} Tc/Re(¹⁸⁶ Re)-labelled T140 analogue for imaging of CXCR4 expression. Organic and Biomolecular Chemistry, 2019, 17, 598-608.	2.8	10
52	Dynamics of the Ghrelin/Growth Hormone Secretagogue Receptor System in the Human Heart Before and After Cardiac Transplantation. Journal of the Endocrine Society, 2019, 3, 748-762.	0.2	10
53	Nitrone-Modified Gold Nanoparticles: Synthesis, Characterization, and Their Potential as ¹⁸ F-Labeled Positron Emission Tomography Probes via I-SPANC. ACS Omega, 2019, 4, 19106-19115.	3.5	9
54	A convenient synthesis of 6,6'-dialkoxythioindigo dyes suitable for doping into a liquid crystal host. Tetrahedron Letters, 1994, 35, 7549-7552.	1.4	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 â€” 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.	1.1	8
56	An Integrated Imaging Probe Design: The Synthesis of ^{99m} Tc/Reâ€”Containing Macrocyclic Peptide Scaffolds. Chemistry - A European Journal, 2015, 21, 568-578.	3.3	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.	0.9	8
59	The development of peptideâ€”boron difluoride formazanate conjugates as fluorescence imaging agents. RSC Advances, 2020, 10, 18970-18977.	3.6	8
60	Investigation of isomer formation upon coordination of bifunctional histidine analogues with ^{99m} Tc/Re(CO) ₃ . Dalton Transactions, 2012, 41, 2950.	3.3	7
61	Introduction of Peripheral Carboxylates to Decrease the Charge on Tm ³⁺ DOTAM-Alkyl Complexes: Implications for Detection Sensitivity and in Vivo Toxicity of PARACEST MRI Contrast Agents. Journal of Medicinal Chemistry, 2015, 58, 6516-6532.	6.4	7
62	Development of a [⁶⁸ Ga]-ghrelin analogue for PET imaging of the ghrelin receptor (GHS-R1a). MedChemComm, 2018, 9, 1761-1767.	3.4	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.	5.5	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.	7.5	7
65	Bombesinâ€”functionalized waterâ€”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.	3.0	6
67	Regional Differences in the Ghrelin-Growth Hormone Secretagogue Receptor Signalling System in Human Heart Disease. CJC Open, 2021, 3, 182-194.	1.5	6
68	Lysine conjugates for the labelling of peptides with technetium-99m and rhenium. Journal of Labelled Compounds and Radiopharmaceuticals, 2000, 43, 403-412.	1.0	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.	1.1	5
70	A study of ^{99m} Tc/Re-tricarbonyl complexes of 4-amino-1,8-naphthalimides. Dalton Transactions, 2019, 48, 14077-14084.	3.3	5
71	High Affinity Fluorescent Probe for Proteinase-Activated Receptor 2 (PAR2). ACS Medicinal Chemistry Letters, 2019, 10, 1045-1050.	2.8	5
72	A Decadeâ€™s Progress in the Development of Molecular Imaging Agents Targeting the Growth Hormone Secretagogue Receptor. Molecular Imaging, 2020, 19, 153601212095262.	1.4	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. ACS Combinatorial Science, 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. RSC Advances, 2017, 7, 45222-45226.	3.6	4
75	Development and Characterization of an ¹⁸ F-labeled Ghrelin Peptidomimetic for Imaging the Cardiac Growth Hormone Secretagogue Receptor. Molecular Imaging, 2018, 17, 153601211880958.	1.4	4
76	The Chimera That Curbs Appetite. Journal of Medicinal Chemistry, 2018, 61, 11037-11038.	6.4	4
77	¹⁸ F-Labeled PET Probe Targeting Enhancer of Zeste Homologue 2 (EZH2) for Cancer Imaging. ACS Medicinal Chemistry Letters, 2019, 10, 334-340.	2.8	4
78	Stapled ghrelin peptides as fluorescent imaging probes. Peptide Science, 2019, 111, e24055.	1.8	4
79	Synthesis of Rhenium-Centric Reverse Turn Mimics. Chemistry - A European Journal, 2012, 18, 12999-13007.	3.3	3
80	Scorpion-like dithiocarbamate-carboxylate ligands for linking M(CO) ₃ + (M=Tc, Re). European Physical Journal D, 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. Canadian Journal of Chemistry, 2015, 93, 244-252.	1.1	2
82	Single Amino Acid Replacement in G _q 7039 Leads to a 70-fold Increase in Binding toward GHS-R1a. ChemMedChem, 2019, 14, 1762-1766.	3.2	2
83	New dithiocarbamate-carboxylate chelation units for linking M(CO) ₃ ⁺ (M = Tc, Re) species to other molecules. Journal of Labelled Compounds and Radiopharmaceuticals, 2001, 44, S486-S488.	1.0	1
84	Evaluation of 6-([¹⁸ 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. Organic and Biomolecular Chemistry, 2021, 19, 8812-8820.	2.8	1
86	Preparation of cyclopentadienyl tricarbonyl technetium-94m complexes. Journal of Labelled Compounds and Radiopharmaceuticals, 2001, 44, S489.	1.0	0
87	Viral Nanoparticles: Intravital Imaging of Human Prostate Cancer Using Viral Nanoparticles Targeted to Gastrin-Releasing Peptide Receptors (Small 12/2011). Small, 2011, 7, 1602-1602.	10.0	0
88	Frontispiece: An Integrated Imaging Probe Design: The Synthesis of ^{99m} Tc/Re-Containing Macrocyclic Peptide Scaffolds. Chemistry - A European Journal, 2015, 21, n/a-n/a.	3.3	0
89	In vivo multimodal imaging of hyaluronan-mediated inflammatory response in articular cartilage. Osteoarthritis and Cartilage, 2021, , .	1.3	0