

# John F Valliant

## List of Publications by Year in descending order

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91  
papers

3,805  
citations

182225

30  
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150775

59  
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94  
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94  
docs citations

94  
times ranked

3870  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pretargeted PET of Osteodestructive Lesions in Dogs. <i>Molecular Pharmaceutics</i> , 2022, 19, 3153-3162.	2.3	10
2	Prospective, Single-Arm Trial Evaluating Changes in Uptake Patterns on Prostate-Specific Membrane Antigen-Targeted <sup>18</sup> F-DCFPyL PET/CT in Patients with Castration-Resistant Prostate Cancer Starting Abiraterone or Enzalutamide. <i>Journal of Nuclear Medicine</i> , 2021, 62, 1430-1437.	2.8	24
3	Combined Radionuclide Therapy and Immunotherapy for Treatment of Triple Negative Breast Cancer. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4843.	1.8	8
4	A Versatile Platform for the Development of Radiolabeled Antibody-Recruiting Small Molecules. <i>Molecular Pharmaceutics</i> , 2021, 18, 2647-2656.	2.3	3
5	Synthesis and Preclinical Evaluation of [ <sup>18</sup> F]SiFA-PSMA Inhibitors in a Prostate Cancer Model. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 15671-15689.	2.9	6
6	A Bioorthogonal Methylene Blue Derived Probe for Targeted Photoacoustic Imaging. <i>European Journal of Medicinal Chemistry Reports</i> , 2021, 4, 100021.	0.6	1
7	Imidazole fused phenanthroline (PIP) ligands for the preparation of multimodal Re( <sup>99m</sup> Tc) and <sup>99m</sup> Tc probes. <i>Dalton Transactions</i> , 2020, 49, 14826-14836.	1.6	8
8	<sup>99m</sup> Tc-Functionalized Single-Walled Carbon Nanotubes for Bone Targeting. <i>ACS Applied Nano Materials</i> , 2020, 3, 11819-11824.	2.4	13
9	Tetrazine-Derived Near-Infrared Dye as a Facile Reagent for Developing Targeted Photoacoustic Imaging Agents. <i>Molecular Pharmaceutics</i> , 2020, 17, 3369-3377.	2.3	4
10	Primary analysis of a phase II study of metastasis-directed ablative therapy to PSMA ( <sup>18</sup> F-DCFPyL) PET-MR/CT defined oligorecurrent prostate cancer. <i>Journal of Clinical Oncology</i> , 2020, 38, 5553-5553.	0.8	1
11	Evaluation of a <sup>68</sup> Ga-Labeled DOTA-Tetrazine as a PET Alternative to <sup>111</sup> In-SPECT Pretargeted Imaging. <i>Molecules</i> , 2020, 25, 463.	1.7	21
12	Evaluation of the inverse electron demand Diels-Alder reaction in rats using a scandium-44-labelled tetrazine for pretargeted PET imaging. <i>EJNMMI Research</i> , 2019, 9, 49.	1.1	24
13	The Radiopharmaceutical Chemistry of Technetium-99m. , 2019, , 311-333.		12
14	Improved radiosynthesis and preliminary in vivo evaluation of the <sup>11</sup> C-labeled tetrazine [ <sup>11</sup> C]AE-1 for pretargeted PET imaging. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 986-990.	1.0	16
15	[ <sup>18</sup> F]-DCFPyL Positron Emission Tomography/Magnetic Resonance Imaging for Localization of Dominant Intraprostatic Foci: First Experience. <i>European Urology Focus</i> , 2018, 4, 702-706.	1.6	21
16	In vivo Biodistribution of Radiolabeled Acoustic Protein Nanostructures. <i>Molecular Imaging and Biology</i> , 2018, 20, 230-239.	1.3	17
17	Technetium(I) Complexes of Bathophenanthrolinedisulfonic Acid. <i>Inorganic Chemistry</i> , 2017, 56, 2958-2965.	1.9	16
18	Preparation of tetrazine-containing [2 + 1] complexes of <sup>99m</sup> Tc and in vivo targeting using bioorthogonal inverse electron demand Diels-Alder chemistry. <i>Dalton Transactions</i> , 2017, 46, 14691-14699.	1.6	18

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19	67 Ga-labeled deferoxamine derivatives for imaging bacterial infection: Preparation and screening of functionalized siderophore complexes. <i>Nuclear Medicine and Biology</i> , 2017, 52, 32-41.	0.3	32
20	18 F-Labeled perfluorocarbon droplets for positron emission tomography imaging. <i>Nuclear Medicine and Biology</i> , 2017, 54, 27-33.	0.3	12
21	Preparation and Evaluation of <sup>99m</sup> Tc-labeled Tridentate Chelates for Pre-targeting Using Bioorthogonal Chemistry. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	2
22	Targeting Prostate-Specific Membrane Antigen (PSMA) with F-18-Labeled Compounds: the Influence of Prosthetic Groups on Tumor Uptake and Clearance Profile. <i>Molecular Imaging and Biology</i> , 2017, 19, 923-932.	1.3	24
23	Preparation of an <sup>18</sup> F-labeled Hydrocyanine Dye as a Multimodal Probe for Reactive Oxygen Species. <i>Chemistry - A European Journal</i> , 2017, 23, 254-258.	1.7	41
24	Development of prostate specific membrane antigen targeted ultrasound microbubbles using bioorthogonal chemistry. <i>PLoS ONE</i> , 2017, 12, e0176958.	1.1	14
25	Automated synthesis of [18F]DCFPyL via direct radiofluorination and validation in preclinical prostate cancer models. <i>EJNMMI Research</i> , 2016, 6, 40.	1.1	71
26	A Bone-Seeking <i>trans</i> -Cyclooctene for Pretargeting and Bioorthogonal Chemistry: A Proof of Concept Study Using <sup>99m</sup> Tc- and <sup>177</sup> Lu-Labeled Tetrazines. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 9381-9389.	2.9	41
27	Synthesis of Polyester Dendritic Scaffolds for Biomedical Applications. <i>Macromolecular Bioscience</i> , 2016, 16, 1475-1484.	2.1	7
28	Imaging Biomarkers in Immunotherapy. <i>Biomarkers in Cancer</i> , 2016, 8s2, BIC.S31805.	3.6	31
29	<sup>125</sup> I-Tetrazines and Inverse-Electron-Demand Diels-Alder Chemistry: A Convenient Radioiodination Strategy for Biomolecule Labeling, Screening, and Biodistribution Studies. <i>Bioconjugate Chemistry</i> , 2016, 27, 207-216.	1.8	31
30	Preparation and Evaluation of Radiolabeled Antibody Recruiting Small Molecules That Target Prostate-Specific Membrane Antigen for Combined Radiotherapy and Immunotherapy. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 2660-2673.	2.9	21
31	Design and synthesis of [ <sup>125</sup> I ]Pyricoxib: A novel <sup>125</sup> I-labeled cyclooxygenase-2 (COX-2) inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 1516-1520.	1.0	7
32	A Bridge <i>Not</i> Too Far: Linking Disciplines Through Molecular Imaging Probes. <i>Journal of Nuclear Medicine Technology</i> , 2016, 44, 173-183.	0.4	16
33	A <sup>99m</sup> Tc-Labelled Tetrazine for Bioorthogonal Chemistry. <i>Synthesis and Biodistribution Studies with Small Molecule trans-Cyclooctene Derivatives</i> . <i>PLoS ONE</i> , 2016, 11, e0167425.	1.1	19
34	Reprint of: Synthesis, characterization and radiolabeling of carborane-functionalized tetrazines for use in inverse electron demand Diels-Alder ligation reactions. <i>Journal of Organometallic Chemistry</i> , 2015, 798, 278-288.	0.8	6
35	Synthesis, characterization and radiolabeling of carborane-functionalized tetrazines for use in inverse electron demand Diels-Alder ligation reactions. <i>Journal of Organometallic Chemistry</i> , 2015, 791, 204-213.	0.8	20
36	Fluorous Analogue of Chloramine-T: Preparation, X-ray Structure Determination, and Use as an Oxidant for Radioiodination and s-Tetrazine Synthesis. <i>Journal of Organic Chemistry</i> , 2015, 80, 7117-7125.	1.7	13

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37	125I-Labelled 2-Iodoestrone-3-sulfate: synthesis, characterization and OATP mediated transport studies in hormone dependent and independent breast cancer cells. <i>Nuclear Medicine and Biology</i> , 2015, 42, 274-282.	0.3	7
38	Imidazole-Based [2 + 1] Re(I)/ <sup>99m</sup> Tc(I) Complexes as Isostructural Nuclear and Optical Probes. <i>Inorganic Chemistry</i> , 2015, 54, 1728-1736.	1.9	35
39	Synthesis, Radiolabeling, and In Vivo Imaging of PEGylated High-Generation Polyester Dendrimers. <i>Biomacromolecules</i> , 2015, 16, 3033-3041.	2.6	23
40	Catching Bubbles: Targeting Ultrasound Microbubbles Using Bioorthogonal Inverse <sup>Electron</sup> Demand Diels-Alder Reactions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6459-6463.	7.2	28
41	A hybrid solid <sup>fluorous</sup> phase radioiodination and purification platform. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2014, 57, 551-557.	0.5	8
42	High Yielding Synthesis of Carboranes Under Mild Reaction Conditions Using a Homogeneous Silver(I) Catalyst: Direct Evidence of a Bimetallic Intermediate. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5156-5160.	7.2	30
43	Single amino acid chelate complexes of the M(CO) <sub>3</sub> <sup>+</sup> core for correlating fluorescence and radioimaging studies (M = <sup>99m</sup> Tc or Re). <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2014, 57, 255-261.	0.5	42
44	Preparation and evaluation of carborane-derived inhibitors of prostate specific membrane antigen (PSMA). <i>Dalton Transactions</i> , 2014, 43, 4950-4961.	1.6	37
45	Synthesis and Evaluation of Radioiodinated Acyloxymethyl Ketones as Activity-Based Probes for Cathepsin B. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 9564-9577.	2.9	20
46	Preparation and Evaluation of Fluorine-18-Labeled Insulin as a Molecular Imaging Probe for Studying Insulin Receptor Expression in Tumors. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 3678-3686.	2.9	6
47	High Yielding Preparation of Dicarba-closo-dodecaboranes Using a Silver(I) Mediated Dehydrogenative Alkyne-Insertion Reaction. <i>Inorganic Chemistry</i> , 2013, 52, 8743-8749.	1.9	43
48	Isostructural Nuclear and Luminescent Probes Derived From Stabilized [2 + 1] Rhenium(I)/Technetium(I) Organometallic Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 13521-13528.	1.9	25
49	Triazole Appending Agent (TAAG): A New Synthon for Preparing Iodine-Based Molecular Imaging and Radiotherapy Agents. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 313-316.	1.3	20
50	Emulsion Reactors: A New Technique for the Preparation of Molecular Imaging Probes. <i>Chemistry - A European Journal</i> , 2012, 18, 6746-6749.	1.7	6
51	Synthesis, Characterisation, and Biodistribution of Radioiodinated C <sup>Hydroxy</sup> Carboranes. <i>Chemistry - A European Journal</i> , 2012, 18, 11071-11078.	1.7	19
52	Preparation of technetium <sup>99m</sup> bifunctional chelate complexes using a microfluidic reactor: a comparative study with conventional and microwave labeling methods. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2012, 55, 18-22.	0.5	16
53	Preparation and evaluation of reagents for tagging amino and thiol groups with fluorous stannanes. A convenient method for producing radioiodinated compounds in high effective specific activity. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2011, 54, 65-71.	0.5	4
54	The synthesis, magnetic purification and evaluation of <sup>99m</sup> Tc-labeled microbubbles. <i>Nuclear Medicine and Biology</i> , 2011, 38, 1111-1118.	0.3	15

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55	Preparation, Characterization, and Screening of a High Affinity Organometallic Probe for $\hat{\pm}$ -Adrenergic Receptors. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 3360-3367.	2.9	20
56	Technetium and Gallium Derived Radiopharmaceuticals: Comparing and Contrasting the Chemistry of Two Important Radiometals for the Molecular Imaging Era. <i>Chemical Reviews</i> , 2010, 110, 2903-2920.	23.0	279
57	Synthesis and screening of bifunctional radiolabelled carborane-carbohydrate derivatives. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 1736-1746.	0.8	24
58	Single amino acid chelates (SAAC): a strategy for the design of technetium and rhenium radiopharmaceuticals. <i>Chemical Communications</i> , 2009, , 493-512.	2.2	177
59	Comprehensive Radiolabeling, Stability, and Tissue Distribution Studies of Technetium-99m Single Amino Acid Chelates (SAAC). <i>Bioconjugate Chemistry</i> , 2009, 20, 1625-1633.	1.8	43
60	Synthesis, Radiolabeling, and Bio-imaging of High-Generation Polyester Dendrimers. <i>Journal of the American Chemical Society</i> , 2009, 131, 2906-2916.	6.6	108
61	Evaluation of single amino acid chelate derivatives and regioselective radiolabelling of a cyclic peptide for the urokinase plasminogen activator receptor. <i>Nuclear Medicine and Biology</i> , 2009, 36, 907-917.	0.3	12
62	Synthesis and Screening of Mono- and Di-Aryl Technetium and Rhenium Metallocarboranes. A New Class of Probes for the Estrogen Receptor. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 2833-2844.	2.9	55
63	Isostructural fluorescent and radioactive probes for monitoring neural stem and progenitor cell transplants. <i>Nuclear Medicine and Biology</i> , 2008, 35, 159-169.	0.3	50
64	A convenient solution-phase method for the preparation of meta-iodobenzylguanidine in high effective specific activity. <i>Nuclear Medicine and Biology</i> , 2008, 35, 741-746.	0.3	18
65	A robust strategy for the preparation of libraries of metallopeptides. A new paradigm for the discovery of targeted molecular imaging and therapy agents. <i>Chemical Communications</i> , 2008, , 5532.	2.2	20
66	Carborane-carbohydrate derivatives – Versatile platforms for developing targeted radiopharmaceuticals. <i>Canadian Journal of Chemistry</i> , 2008, 86, 1063-1069.	0.6	20
67	A Convenient Method for the Preparation of Fluorous Tin Derivatives for the Fluorous Labeling Strategy. <i>Journal of Organic Chemistry</i> , 2008, 73, 8236-8243.	1.7	39
68	Expedient Multi-Step Synthesis of Organometallic Complexes of Tc and Re in High Effective Specific Activity. A New Platform for the Production of Molecular Imaging and Therapy Agents. <i>Inorganic Chemistry</i> , 2008, 47, 8213-8221.	1.9	37
69	Microwave-Assisted Synthesis of Tricarbonyl Rhenacarboranes: Steric and Electronic Effects on the 1,2- and 1,7- Carborane Cage Isomerization. <i>Inorganic Chemistry</i> , 2007, 46, 2148-2158.	1.9	47
70	Synthesis and in Vitro Evaluation of $^{18}\text{F}$ - and $^{19}\text{F}$ -Labeled Insulin: A New Radiotracer for PET-based Molecular Imaging Studies. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 1466-1474.	2.9	32
71	Microwave-Assisted Synthesis of 3,1,2- and 2,1,8-Re(I) and $^{99\text{m}}\text{Tc}(\text{I})$ Metallocarborane Complexes. <i>Inorganic Chemistry</i> , 2006, 45, 5727-5729.	1.9	51
72	Extension of the Single Amino Acid Chelate Concept (SAAC) to Bifunctional Biotin Analogues for Complexation of the $\text{M}(\text{CO})_{3+1}$ Core (M = Tc and Re): Syntheses, Characterization, Biotinidase Stability, and Avidin Binding. <i>Bioconjugate Chemistry</i> , 2006, 17, 579-589.	1.8	45

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73	A Solid-Phase Labeling Strategy for the Preparation of Technetium and Rhenium Bifunctional Chelate Complexes and Associated Peptide Conjugates. <i>Bioconjugate Chemistry</i> , 2006, 17, 226-235.	1.8	22
74	A New Strategy for Preparing Molecular Imaging and Therapy Agents Using Fluorine-Rich (Fluorous) Soluble Supports. <i>Journal of the American Chemical Society</i> , 2006, 128, 3536-3537.	6.6	44
75	43Tc Technetium in Medicine. , 2005, , 333-358.		0
76	Synthesis of Ortho- and Meta-Re(I)-Metallocarboranes in Water. <i>Inorganic Chemistry</i> , 2005, 44, 9574-9584.	1.9	38
77	New directions in the coordination chemistry of <sup>99m</sup> Tc: a reflection on technetium core structures and a strategy for new chelate design. <i>Nuclear Medicine and Biology</i> , 2005, 32, 1-20.	0.3	183
78	Aqueous Fluoride and the Preparation of [ <sup>99m</sup> Tc(CO) <sub>3</sub> (OH <sub>2</sub> ) <sub>3</sub> ] <sup>+</sup> and <sup>99m</sup> Tc- <sup>α</sup> -Carborane Complexes. <i>Inorganic Chemistry</i> , 2005, 44, 9585-9591.	1.9	22
79	Bridging the Gap between in Vitro and in Vivo Imaging: <sup>α</sup> -Isostructural Re and <sup>99m</sup> Tc Complexes for Correlating Fluorescence and Radioimaging Studies. <i>Journal of the American Chemical Society</i> , 2004, 126, 8598-8599.	6.6	200
80	Preparation of Re(I) <sup>α</sup> and <sup>99m</sup> Tc(I) <sup>α</sup> Metallocarboranes in Water under Weakly Basic Reaction Conditions. <i>Inorganic Chemistry</i> , 2004, 43, 3032-3034.	1.9	48
81	A New Strategy for the Preparation of Peptide-Targeted Radiopharmaceuticals Based on an Fmoc-Lysine-Derived Single Amino Acid Chelate (SAAC). Automated Solid-Phase Synthesis, NMR Characterization, and in Vitro Screening of fMLF(SAAC)G and fMLF[(SAAC <sup>α</sup> Re(CO) <sub>3</sub> ] <sup>+</sup> )G. <i>Bioconjugate Chemistry</i> , 2004, 15, 128-136.	1.8	112
82	The synthesis and X-ray crystallographic structure determination of 3-isocyano-1,2-dicarba-closo-dodecaborane-Re(I) complexes. <i>Journal of Organometallic Chemistry</i> , 2003, 668, 25-30.	0.8	14
83	Synthesis of homoleptic Re(I) complexes of isocyano-carboranes and the X-ray structure of hexakis(p-carboran-1-yl-isonitrile)Re(I). <i>Journal of Organometallic Chemistry</i> , 2003, 680, 323-328.	0.8	20
84	Preparation of synthons for carborane containing macromolecules. <i>Macromolecular Symposia</i> , 2003, 196, 201-211.	0.4	16
85	Carboranes as Ligands for the Preparation of Organometallic Tc and Re Radiopharmaceuticals. Synthesis of [M(CO) <sub>3</sub> ( <sup>α</sup> -5-2,3-C <sub>2</sub> B <sub>9</sub> H <sub>11</sub> )]-andrac-[M(CO) <sub>3</sub> ( <sup>α</sup> -5-2-R-2,3-C <sub>2</sub> B <sub>9</sub> H <sub>10</sub> )]-(M = Re, <sup>99m</sup> Tc; R = CH <sub>2</sub> CH <sub>2</sub> CO <sub>2</sub> H). <sup>9</sup> from [M(CO) <sub>3</sub> Br <sub>3</sub> ] <sup>2-</sup> . <i>Inorganic Chemistry</i> , 2002, 41, 628-630.		56
86	Bifunctional Single Amino Acid Chelates for Labeling of Biomolecules with the {Tc(CO) <sub>3</sub> } <sup>+</sup> and {Re(CO) <sub>3</sub> } <sup>+</sup> Cores. Crystal and Molecular Structures of [ReBr(CO) <sub>3</sub> (H <sub>2</sub> NCH <sub>2</sub> C <sub>5</sub> H <sub>4</sub> N)], [Re(CO) <sub>3</sub> {(C <sub>5</sub> H <sub>4</sub> NCH <sub>2</sub> ) <sub>2</sub> NH}Br], [Re(CO) <sub>3</sub> {(C <sub>5</sub> H <sub>4</sub> NCH <sub>2</sub> ) <sub>2</sub> NCH <sub>2</sub> CO <sub>2</sub> H}Br], [Re(CO) <sub>3</sub> {X(Y)NCH <sub>2</sub> CO <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> }Br (X = Y = 2-pyridylmethyl; X = 2-pyridylmethyl, Y =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 212 Td (	1.9	171
87	Unexpected Formation of an Azetidinea <sup>α</sup> -Carborane Derivative by Dehydration of N-(1,12-Dicarba-closo-dodecaboran-1-yl)formamide. The First X-ray Structure of a 2,3-Bis(imino)azetidine. <i>Inorganic Chemistry</i> , 2002, 41, 6493-6499.	1.9	14
88	Synthesis, NMR, and X-ray Crystallographic Analysis of C-Hydrazino-C-Carboxycarboranes: <sup>α</sup> Versatile Ligands for the Preparation of BNCT and BNCS Agents and <sup>99m</sup> Tc Radiopharmaceuticals. <i>Inorganic Chemistry</i> , 2002, 41, 2731-2737.	1.9	27
89	Synthesis of Boroxifen, ANido-Carborane Analogue of Tamoxifen. <i>Journal of Organic Chemistry</i> , 2002, 67, 383-387.	1.7	68
90	The medicinal chemistry of carboranes. <i>Coordination Chemistry Reviews</i> , 2002, 232, 173-230.	9.5	594

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91	A new approach for the synthesis of isonitrile carborane derivatives.. Journal of Inorganic Biochemistry, 2001, 85, 43-51.	1.5	45