John F Valliant

List of Publications by Year in descending order

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91 papers 3,805 citations

30 h-index 59 g-index

94 all docs 94 docs citations

times ranked

94

3551 citing authors

#	Article	IF	CITATIONS
1	The medicinal chemistry of carboranes. Coordination Chemistry Reviews, 2002, 232, 173-230.	18.8	594
2	Technetium and Gallium Derived Radiopharmaceuticals: Comparing and Contrasting the Chemistry of Two Important Radiometals for the Molecular Imaging Era. Chemical Reviews, 2010, 110, 2903-2920.	47.7	279
3	Bridging the Gap between in Vitro and in Vivo Imaging:Â Isostructural Re and99mTc Complexes for Correlating Fluorescence and Radioimaging Studies. Journal of the American Chemical Society, 2004, 126, 8598-8599.	13.7	200
4	New directions in the coordination chemistry of 99mTc: a reflection on technetium core structures and a strategy for new chelate design. Nuclear Medicine and Biology, 2005, 32, 1-20.	0.6	183
5	Single amino acid chelates (SAAC): a strategy for the design of technetium and rhenium radiopharmaceuticals. Chemical Communications, 2009, , 493-512. Bifunctional Single Amino Acid Chelates for Labeling of Biomolecules with the {Tc(CO)3}+and	4.1	177
6	{Re(CO)3}+Cores. Crystal and Molecular Structures of [ReBr(CO)3(H2NCH2C5H4N)], [Re(CO)3{(C5H4NCH2)2NH}]Br, [Re(CO)3{(C5H4NCH2)2NCH2CO2H}]Br, [Re(CO)3{X(Y)NCH2CO2CH2CH3}]Br (X = Y = 2-pyridylmethyl; X = 2-pyridylmethyl, Y =) Tj ETQq0 0 0 rgBT /Overl	102k 10 Tf	5 17 5 32 Td (2
7	ARNOW (Strategysto4the Preparation Coff Peptide Targeted Radiopharmaceur) Nalis Based 106 (an H2CO2)}]. Inorganic Fmoc-Lysine-Derived Single Amino Acid Chelate (SAAC). Automated Solid-Phase Synthesis, NMR Characterization, and in Vitro Screening of fMLF(SAAC)G and fMLF[(SAACâ^'Re(CO)3)+]G. Bioconjugate Chemistry. 2004. 15. 128-136.	3.6	112
8	Synthesis, Radiolabeling, and Bio-imaging of High-Generation Polyester Dendrimers. Journal of the American Chemical Society, 2009, 131, 2906-2916.	13.7	108
9	Automated synthesis of [18F]DCFPyL via direct radiofluorination and validation in preclinical prostate cancer models. EJNMMI Research, 2016, 6, 40.	2.5	71
10	Synthesis of Boroxifen, ANido-Carborane Analogue of Tamoxifen. Journal of Organic Chemistry, 2002, 67, 383-387.	3.2	68
11	Carboranes as Ligands for the Preparation of Organometallic Tc and Re Radiopharmaceuticals. Synthesis of $[M(CO)3(\hat{i}\cdot5-2,3-C2B9H11)]$ -andrac- $[M(CO)3(\hat{i}\cdot5-2-R-2,3-C2B9H10)]$ - $[M=Re,99Tc;R=CH2CH2CO2Hfrom[M(CO)3Br3]$ 2 Inorganic Chemistry, 2002, 41, 628-630.	H) .o	56
12	Synthesis and Screening of Mono- and Di-Aryl Technetium and Rhenium Metallocarboranes. A New Class of Probes for the Estrogen Receptor. Journal of Medicinal Chemistry, 2008, 51, 2833-2844.	6.4	55
13	Microwave-Assisted Synthesis of 3,1,2- and 2,1,8-Re(I) and99mTc(I)â^'Metallocarborane Complexes. Inorganic Chemistry, 2006, 45, 5727-5729.	4.0	51
14	Isostructural fluorescent and radioactive probes for monitoring neural stem and progenitor cell transplants. Nuclear Medicine and Biology, 2008, 35, 159-169.	0.6	50
15	Preparation of Re(I)â^ and 99mTc(I)â^ Metallocarboranes in Water under Weakly Basic Reaction Conditions. Inorganic Chemistry, 2004, 43, 3032-3034.	4.0	48
16	Microwave-Assisted Synthesis of Tricarbonyl Rhenacarboranes: Steric and Electronic Effects on the 1,2 → 1,7 Carborane Cage Isomerization. Inorganic Chemistry, 2007, 46, 2148-2158.	4.0	47
17	A new approach for the synthesis of isonitrile carborane derivatives Journal of Inorganic Biochemistry, 2001, 85, 43-51.	3.5	45
18	Extension of the Single Amino Acid Chelate Concept (SAAC) to Bifunctional Biotin Analogues for Complexation of the M(CO)3+1 Core (M = Tc and Re):  Syntheses, Characterization, Biotinidase Stability, and Avidin Binding. Bioconjugate Chemistry, 2006, 17, 579-589.	3.6	45

#	Article	IF	CITATIONS
19	A New Strategy for Preparing Molecular Imaging and Therapy Agents Using Fluorine-Rich (Fluorous) Soluble Supports. Journal of the American Chemical Society, 2006, 128, 3536-3537.	13.7	44
20	Comprehensive Radiolabeling, Stability, and Tissue Distribution Studies of Technetium-99m Single Amino Acid Chelates (SAAC). Bioconjugate Chemistry, 2009, 20, 1625-1633.	3.6	43
21	High Yielding Preparation of Dicarba- <i>closo</i> dodecaboranes Using a Silver(I) Mediated Dehydrogenative Alkyne-Insertion Reaction. Inorganic Chemistry, 2013, 52, 8743-8749.	4.0	43
22	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). Journal of Labelled Compounds and Radiopharmaceuticals, 2014, 57, 255-261.	1.0	42
23	A Bone-Seeking <i>trans</i> -Cyclooctene for Pretargeting and Bioorthogonal Chemistry: A Proof of Concept Study Using ^{99m} Tc- and ¹⁷⁷ Lu-Labeled Tetrazines. Journal of Medicinal Chemistry, 2016, 59, 9381-9389.	6.4	41
24	Preparation of an ¹⁸ Fâ€Labeled Hydrocyanine Dye as a Multimodal Probe for Reactive Oxygen Species. Chemistry - A European Journal, 2017, 23, 254-258.	3.3	41
25	A Convenient Method for the Preparation of Fluorous Tin Derivatives for the Fluorous Labeling Strategy. Journal of Organic Chemistry, 2008, 73, 8236-8243.	3.2	39
26	Synthesis of Ortho- and Meta-Re(I)-Metallocarboranes in Water. Inorganic Chemistry, 2005, 44, 9574-9584.	4.0	38
27	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. Inorganic Chemistry, 2008, 47, 8213-8221.	4.0	37
28	Preparation and evaluation of carborane-derived inhibitors of prostate specific membrane antigen (PSMA). Dalton Transactions, 2014, 43, 4950-4961.	3.3	37
29	Imidazole-Based [2 + 1] Re(I)/ ^{99m} Tc(I) Complexes as Isostructural Nuclear and Optical Probes. Inorganic Chemistry, 2015, 54, 1728-1736.	4.0	35
30	Synthesis and in Vitro Evaluation of 18F- and 19F-Labeled Insulin:  A New Radiotracer for PET-based Molecular Imaging Studies. Journal of Medicinal Chemistry, 2006, 49, 1466-1474.	6.4	32
31	67 Ga-labeled deferoxamine derivatives for imaging bacterial infection: Preparation and screening of functionalized siderophore complexes. Nuclear Medicine and Biology, 2017, 52, 32-41.	0.6	32
32	Imaging Biomarkers in Immunotherapy. Biomarkers in Cancer, 2016, 8s2, BIC.S31805.	3.6	31
33	¹²⁵ I-Tetrazines and Inverse-Electron-Demand Dielsâ€"Alder Chemistry: A Convenient Radioiodination Strategy for Biomolecule Labeling, Screening, and Biodistribution Studies. Bioconjugate Chemistry, 2016, 27, 207-216.	3.6	31
34	High Yielding Synthesis of Carboranes Under Mild Reaction Conditions Using a Homogeneous Silver(I) Catalyst: Direct Evidence of a Bimetallic Intermediate. Angewandte Chemie - International Edition, 2014, 53, 5156-5160.	13.8	30
35	Catching Bubbles: Targeting Ultrasound Microbubbles Using Bioorthogonal Inverseâ€Electronâ€Demand Diels–Alder Reactions. Angewandte Chemie - International Edition, 2014, 53, 6459-6463.	13.8	28
36	Synthesis, NMR, and X-ray Crystallographic Analysis of C-Hydrazino-C-Carboxycarboranes: Â Versatile Ligands for the Preparation of BNCT and BNCS Agents and 99mTc Radiopharmaceuticals. Inorganic Chemistry, 2002, 41, 2731-2737.	4.0	27

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37	Isostructural Nuclear and Luminescent Probes Derived From Stabilized [2 + 1] Rhenium(I)/Technetium(I) Organometallic Complexes. Inorganic Chemistry, 2013, 52, 13521-13528.	4.0	25
38	Synthesis and screening of bifunctional radiolabelled carborane-carbohydrate derivatives. Journal of Organometallic Chemistry, 2009, 694, 1736-1746.	1.8	24
39	Targeting Prostate-Specific Membrane Antigen (PSMA) with F-18-Labeled Compounds: the Influence of Prosthetic Groups on Tumor Uptake and Clearance Profile. Molecular Imaging and Biology, 2017, 19, 923-932.	2.6	24
40	Evaluation of the inverse electron demand Diels-Alder reaction in rats using a scandium-44-labelled tetrazine for pretargeted PET imaging. EJNMMI Research, 2019, 9, 49.	2.5	24
41	Prospective, Single-Arm Trial Evaluating Changes in Uptake Patterns on Prostate-Specific Membrane Antigen–Targeted ¹⁸ F-DCFPyL PET/CT in Patients with Castration-Resistant Prostate Cancer Starting Abiraterone or Enzalutamide. Journal of Nuclear Medicine, 2021, 62, 1430-1437.	5.0	24
42	Synthesis, Radiolabeling, and In Vivo Imaging of PEGylated High-Generation Polyester Dendrimers. Biomacromolecules, 2015, 16, 3033-3041.	5.4	23
43	Aqueous Fluoride and the Preparation of [99mTc(CO)3(OH2)3]+and99mTcâ^'Carborane Complexes. Inorganic Chemistry, 2005, 44, 9585-9591.	4.0	22
44	A Solid-Phase Labeling Strategy for the Preparation of Technetium and Rhenium Bifunctional Chelate Complexes and Associated Peptide Conjugates. Bioconjugate Chemistry, 2006, 17, 226-235.	3.6	22
45	Preparation and Evaluation of Radiolabeled Antibody Recruiting Small Molecules That Target Prostate-Specific Membrane Antigen for Combined Radiotherapy and Immunotherapy. Journal of Medicinal Chemistry, 2016, 59, 2660-2673.	6.4	21
46	[18F]-DCFPyL Positron Emission Tomography/Magnetic Resonance Imaging for Localization of Dominant Intraprostatic Foci: First Experience. European Urology Focus, 2018, 4, 702-706.	3.1	21
47	Evaluation of a 68Ga-Labeled DOTA-Tetrazine as a PET Alternative to 111In-SPECT Pretargeted Imaging. Molecules, 2020, 25, 463.	3.8	21
48	Synthesis of homoleptic Re(I) complexes of isocyano-carboranes and the X-ray structure of hexakis(p-carboran-1-yl-isonitrile)Re(I). Journal of Organometallic Chemistry, 2003, 680, 323-328.	1.8	20
49	A robust strategy for the preparation of libraries of metallopeptides. A new paradigm for the discovery of targeted molecular imaging and therapy agents. Chemical Communications, 2008, , 5532.	4.1	20
50	Carborane-carbohydrate derivatives — Versatile platforms for developing targeted radiopharmaceuticals. Canadian Journal of Chemistry, 2008, 86, 1063-1069.	1.1	20
51	Preparation, Characterization, and Screening of a High Affinity Organometallic Probe for α-Adrenergic Receptors. Journal of Medicinal Chemistry, 2011, 54, 3360-3367.	6.4	20
52	Triazole Appending Agent (TAAG): A New Synthon for Preparing Iodine-Based Molecular Imaging and Radiotherapy Agents. ACS Medicinal Chemistry Letters, 2012, 3, 313-316.	2.8	20
53	Synthesis and Evaluation of Radioiodinated Acyloxymethyl Ketones as Activity-Based Probes for Cathepsin B. Journal of Medicinal Chemistry, 2014, 57, 9564-9577.	6.4	20
54	Synthesis, characterization and radiolabeling of carborane-functionalized tetrazines for use in inverse electron demand Diels–Alder ligation reactions. Journal of Organometallic Chemistry, 2015, 791, 204-213.	1.8	20

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55	Synthesis, Characterisation, and Biodistribution of Radioiodinated Câ€Hydroxyâ€Carboranes. Chemistry - A European Journal, 2012, 18, 11071-11078.	3.3	19
56	A 99mTc-Labelled Tetrazine for Bioorthogonal Chemistry. Synthesis and Biodistribution Studies with Small Molecule trans-Cyclooctene Derivatives. PLoS ONE, 2016, 11, e0167425.	2.5	19
57	A convenient solution-phase method for the preparation of meta-iodobenzylguanidine in high effective specific activity. Nuclear Medicine and Biology, 2008, 35, 741-746.	0.6	18
58	Preparation of tetrazine-containing [2 + 1] complexes of 99mTc and in vivo targeting using bioorthogonal inverse electron demand Diels–Alder chemistry. Dalton Transactions, 2017, 46, 14691-14699.	3.3	18
59	In vivo Biodistribution of Radiolabeled Acoustic Protein Nanostructures. Molecular Imaging and Biology, 2018, 20, 230-239.	2.6	17
60	Preparation of synthons for carborane containing macromolecules. Macromolecular Symposia, 2003, 196, 201-211.	0.7	16
61	Preparation of technetiumâ€99m bifunctional chelate complexes using a microfluidic reactor: a comparative study with conventional and microwave labeling methods. Journal of Labelled Compounds and Radiopharmaceuticals, 2012, 55, 18-22.	1.0	16
62	A Bridge <i>Not</i> Too Far: Linking Disciplines Through Molecular Imaging Probes. Journal of Nuclear Medicine Technology, 2016, 44, 173-183.	0.8	16
63	Technetium(I) Complexes of Bathophenanthrolinedisulfonic Acid. Inorganic Chemistry, 2017, 56, 2958-2965.	4.0	16
64	Improved radiosynthesis and preliminary in vivo evaluation of the 11C-labeled tetrazine [11C]AE-1 for pretargeted PET imaging. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 986-990.	2.2	16
65	The synthesis, magnetic purification and evaluation of 99mTc-labeled microbubbles. Nuclear Medicine and Biology, 2011, 38, 1111-1118.	0.6	15
66	Unexpected Formation of an Azetidine \hat{a} 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. Inorganic Chemistry, 2002, 41, 6493-6499.	4.0	14
67	The synthesis and X-ray crystallographic structure determination of 3-isocyano-1,2-dicarba-closo-dodecaborane-Re(I) complexes. Journal of Organometallic Chemistry, 2003, 668, 25-30.	1.8	14
68	Development of prostate specific membrane antigen targeted ultrasound microbubbles using bioorthogonal chemistry. PLoS ONE, 2017, 12, e0176958.	2.5	14
69	Fluorous Analogue of Chloramine-T: Preparation, X-ray Structure Determination, and Use as an Oxidant for Radioiodination and s-Tetrazine Synthesis. Journal of Organic Chemistry, 2015, 80, 7117-7125.	3.2	13
70	^{99m} Tc-Functionalized Single-Walled Carbon Nanotubes for Bone Targeting. ACS Applied Nano Materials, 2020, 3, 11819-11824.	5.0	13
71	Evaluation of single amino acid chelate derivatives and regioselective radiolabelling of a cyclic peptide for the urokinase plasminogen activator receptor. Nuclear Medicine and Biology, 2009, 36, 907-917.	0.6	12
72	18 F-Labeled perfluorocarbon droplets for positron emission tomography imaging. Nuclear Medicine and Biology, 2017, 54, 27-33.	0.6	12

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73	The Radiopharmaceutical Chemistry of Technetium-99m., 2019, , 311-333.		12
74	Pretargeted PET of Osteodestructive Lesions in Dogs. Molecular Pharmaceutics, 2022, 19, 3153-3162.	4.6	10
75	A hybrid solidâ€fluorous phase radioiodination and purification platform. Journal of Labelled Compounds and Radiopharmaceuticals, 2014, 57, 551-557.	1.0	8
76	Imidazole fused phenanthroline (PIP) ligands for the preparation of multimodal Re(<scp>i</scp>) and ^{99m} Tc(<scp>i</scp>) probes. Dalton Transactions, 2020, 49, 14826-14836.	3.3	8
77	Combined Radionuclide Therapy and Immunotherapy for Treatment of Triple Negative Breast Cancer. International Journal of Molecular Sciences, 2021, 22, 4843.	4.1	8
78	125I-Labelled 2-lodoestrone-3-sulfate: synthesis, characterization and OATP mediated transport studies in hormone dependent and independent breast cancer cells. Nuclear Medicine and Biology, 2015, 42, 274-282.	0.6	7
79	Synthesis of Polyester Dendritic Scaffolds for Biomedical Applications. Macromolecular Bioscience, 2016, 16, 1475-1484.	4.1	7
80	Design and synthesis of [125 I]Pyricoxib: A novel 125 I-labeled cyclooxygenase-2 (COX-2) inhibitors. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 1516-1520.	2.2	7
81	Emulsion Reactors: A New Technique for the Preparation of Molecular Imaging Probes. Chemistry - A European Journal, 2012, 18, 6746-6749.	3.3	6
82	Preparation and Evaluation of Fluorine-18-Labeled Insulin as a Molecular Imaging Probe for Studying Insulin Receptor Expression in Tumors. Journal of Medicinal Chemistry, 2014, 57, 3678-3686.	6.4	6
83	Reprint of: Synthesis, characterization and radiolabeling of carborane-functionalized tetrazines for use in inverse electron demand Diels–Alder ligation reactions. Journal of Organometallic Chemistry, 2015, 798, 278-288.	1.8	6
84	Synthesis and Preclinical Evaluation of [¹⁸ F]SiFA-PSMA Inhibitors in a Prostate Cancer Model. Journal of Medicinal Chemistry, 2021, 64, 15671-15689.	6.4	6
85	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. Journal of Labelled Compounds and Radiopharmaceuticals, 2011, 54, 65-71.	1.0	4
86	Tetrazine-Derived Near-Infrared Dye as a Facile Reagent for Developing Targeted Photoacoustic Imaging Agents. Molecular Pharmaceutics, 2020, 17, 3369-3377.	4.6	4
87	A Versatile Platform for the Development of Radiolabeled Antibody-Recruiting Small Molecules. Molecular Pharmaceutics, 2021, 18, 2647-2656.	4.6	3
88	Preparation and Evaluation of ^{99m} Tc-labeled Tridentate Chelates for Pre-targeting Using Bioorthogonal Chemistry. Journal of Visualized Experiments, 2017, , .	0.3	2
89	Primary analysis of a phase II study of metastasis-directed ablative therapy to PSMA (¹⁸ F-DCFPyL) PET-MR/CT defined oligorecurrent prostate cancer Journal of Clinical Oncology, 2020, 38, 5553-5553.	1.6	1
90	A Bioorthogonal Methylene Blue Derived Probe for Targeted Photoacoustic Imaging. European Journal of Medicinal Chemistry Reports, 2021, 4, 100021.	1.4	1

ARTICLE IF CITATIONS
91 43Tc Technetium in Medicine., 2005, , 333-358. 0