

# Hector F Valdovinos

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64  
papers

2,750  
citations

29  
h-index

52  
g-index

65  
ext. papers

3,050  
ext. citations

7.7  
avg, IF

4.86  
L-index

#	Paper	IF	Citations
64	Bacteria-like mesoporous silica-coated gold nanorods for positron emission tomography and photoacoustic imaging-guided chemo-photothermal combined therapy. <i>Biomaterials</i> , <b>2018</b> , 165, 56-65	15.2	85
63	Radiolabeled polyoxometalate clusters: Kidney dysfunction evaluation and tumor diagnosis by positron emission tomography imaging. <i>Biomaterials</i> , <b>2018</b> , 171, 144-152	15.2	22
62	ImmunoPET of CD146 in a Murine Hindlimb Ischemia Model. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 3434-3444	14	6
61	Simplified and automatable radiochemical separation strategy for the production of radiopharmaceutical quality Y using single column extraction chromatography. <i>Applied Radiation and Isotopes</i> , <b>2018</b> , 142, 28-31	1.6	19
60	ImmunoPET Imaging of CD146 in Murine Models of Intrapulmonary Metastasis of Non-Small Cell Lung Cancer. <i>Molecular Pharmaceutics</i> , <b>2017</b> , 14, 3239-3247	5.4	8
59	Cyclotron production and radiochemical separation of Co and Co from Fe, Ni and Fe targets. <i>Applied Radiation and Isotopes</i> , <b>2017</b> , 130, 90-101	1.6	20
58	Half-life of Mn. <i>Physical Review C</i> , <b>2017</b> , 96,	2.7	3
57	Simplified and reproducible radiochemical separations for the production of high specific activity <sup>61</sup> Cu, <sup>64</sup> Cu, <sup>86</sup> Y and <sup>55</sup> Co <b>2017</b> ,		2
56	Earth, air, fire and water: A targetry quartet <b>2017</b> ,		1
55	ImmunoPET imaging of tissue factor expression in pancreatic cancer with Zr-Df-ALT-836. <i>Journal of Controlled Release</i> , <b>2017</b> , 264, 160-168	11.4	10
54	Chelator-Free Radiolabeling of Nanographene: Breaking the Stereotype of Chelation. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2935-2938	3.5	9
53	Chelator-Free Radiolabeling of Nanographene: Breaking the Stereotype of Chelation. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2889-2892	16.1	50
52	Bioresponsive Polyoxometalate Cluster for Redox-Activated Photoacoustic Imaging-Guided Photothermal Cancer Therapy. <i>Nano Letters</i> , <b>2017</b> , 17, 3282-3289	11.3	104
51	Intrinsic radiolabeling of Titanium-45 using mesoporous silica nanoparticles. <i>Acta Pharmacologica Sinica</i> , <b>2017</b> , 38, 907-913	7.8	31
50	Radiomanganese PET Detects Changes in Functional $\beta$ -Cell Mass in Mouse Models of Diabetes. <i>Diabetes</i> , <b>2017</b> , 66, 2163-2174	0.7	26
49	Preparation and in vivo characterization of MnCl as PET tracer of Ca channel-mediated transport. <i>Scientific Reports</i> , <b>2017</b> , 7, 3033	4.7	16
48	Radiolabeled pertuzumab for imaging of human epidermal growth factor receptor 2 expression in ovarian cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2017</b> , 44, 1296-1305	8.6	21

47	ImmunoPET Imaging of CTLA-4 Expression in Mouse Models of Non-small Cell Lung Cancer. <i>Molecular Pharmaceutics</i> , <b>2017</b> , 14, 1782-1789	5.4	62
46	Renal-Clearable PEGylated Porphyrin Nanoparticles for Image-guided Photodynamic Cancer Therapy. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702928	15.4	87
45	ImmunoPET Imaging of CD146 Expression in Malignant Brain Tumors. <i>Molecular Pharmaceutics</i> , <b>2016</b> , 13, 2563-70	5.4	19
44	Auger electron-based targeted radioimmunotherapy with <sup>58</sup> mCo, a feasibility study <b>2016</b> ,		5
43	CD146-targeted immunoPET and NIRF Imaging of Hepatocellular Carcinoma with a Dual-Labeled Monoclonal Antibody. <i>Theranostics</i> , <b>2016</b> , 6, 1918-33	11.8	44
42	Intrinsically Zirconium-89 Labeled Gd <sub>2</sub> O <sub>3</sub> :Eu Nanoprobes for In Vivo Positron Emission Tomography and Gamma-Ray-Induced Radioluminescence Imaging. <i>Small</i> , <b>2016</b> , 12, 2872-6	10.8	24
41	ImmunoPET Imaging of Insulin-Like Growth Factor 1 Receptor in a Subcutaneous Mouse Model of Pancreatic Cancer. <i>Molecular Pharmaceutics</i> , <b>2016</b> , 13, 1958-66	5.4	11
40	Facile Preparation of Multifunctional WS/WO Nanodots for Chelator-Free Zr-Labeling and In Vivo PET Imaging. <i>Small</i> , <b>2016</b> , 12, 5750-5758	10.8	27
39	Spot-welding solid targets for high current cyclotron irradiation. <i>Applied Radiation and Isotopes</i> , <b>2016</b> , 118, 350-353	1.6	10
38	Nuclear excitation functions of proton-induced reactions (E = 35 - 90 MeV) from Fe, Cu, and Al. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2016</b> , 386, 44-53	1.1	13
37	Engineering Intrinsically Zirconium-89 Radiolabeled Self-Destructing Mesoporous Silica Nanostructures for In Vivo Biodistribution and Tumor Targeting Studies. <i>Advanced Science</i> , <b>2016</b> , 3, 1600122	13.2	61
36	Cerenkov Radiation Induced Photodynamic Therapy Using Chlorin e6-Loaded Hollow Mesoporous Silica Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 26630-26637	9.4	101
35	Dual-Modality Positron Emission Tomography/Optical Image-Guided Photodynamic Cancer Therapy with Chlorin e6-Containing Nanomicelles. <i>ACS Nano</i> , <b>2016</b> , 10, 7721-30	16.4	79
34	Intrinsically Zr-labeled GdOS:Eu nanophosphors with high stability for dual-modality imaging. <i>American Journal of Translational Research (discontinued)</i> , <b>2016</b> , 8, 5591-5600	2.9	4
33	TH-EF-207A-02: Imaging Pancreatic $\alpha$ -Cell Function with <sup>51</sup> / <sub>52</sub> Mn-PET. <i>Medical Physics</i> , <b>2016</b> , 43, 3900-3900	2.0	0
32	Hollow mesoporous silica nanoparticles for tumor vasculature targeting and PET image-guided drug delivery. <i>Nanomedicine</i> , <b>2015</b> , 10, 1233-46	5.4	71
31	Novel Preparation Methods of ( <sup>52</sup> )Mn for ImmunoPET Imaging. <i>Bioconjugate Chemistry</i> , <b>2015</b> , 26, 2118-2141	24.1	56
30	VEGFR targeting leads to significantly enhanced tumor uptake of nanographene oxide in vivo. <i>Biomaterials</i> , <b>2015</b> , 39, 39-46	15.2	59

29	Separation of cyclotron-produced Sc from a natural calcium target using a dipentyl pentylphosphonate functionalized extraction resin. <i>Applied Radiation and Isotopes</i> , <b>2015</b> , 95, 23-29	1.6	53
28	$^{54}\text{Mn}$ production for PET/MRI tracking of human stem cells expressing divalent metal transporter 1 (DMT1). <i>Theranostics</i> , <b>2015</b> , 5, 227-39	11.8	67
27	In Vivo Integrity and Biological Fate of Chelator-Free Zirconium-89-Labeled Mesoporous Silica Nanoparticles. <i>ACS Nano</i> , <b>2015</b> , 9, 7950-9	16.4	115
26	Chelator-Free Labeling of Layered Double Hydroxide Nanoparticles for in Vivo PET Imaging. <i>Scientific Reports</i> , <b>2015</b> , 5, 16930	4.7	38
25	Engineering of hollow mesoporous silica nanoparticles for remarkably enhanced tumor active targeting efficacy. <i>Scientific Reports</i> , <b>2014</b> , 4, 5080	4.7	147
24	Matching the decay half-life with the biological half-life: ImmunoPET imaging with $(^{44}\text{Sc})$ -labeled cetuximab Fab fragment. <i>Bioconjugate Chemistry</i> , <b>2014</b> , 25, 2197-204	6.1	56
23	VEGF $\beta$ -conjugated mesoporous silica nanoparticle: a tumor targeted drug delivery system. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 21677-85	9.4	93
22	Intrinsically germanium-69-labeled iron oxide nanoparticles: synthesis and in-vivo dual-modality PET/MR imaging. <i>Advanced Materials</i> , <b>2014</b> , 26, 5119-23	23.6	139
21	In vivo tumor vasculature targeted PET/NIRF imaging with TRC105(Fab)-conjugated, dual-labeled mesoporous silica nanoparticles. <i>Molecular Pharmaceutics</i> , <b>2014</b> , 11, 4007-14	5.4	78
20	$(^{44}\text{Sc})$ : an attractive isotope for peptide-based PET imaging. <i>Molecular Pharmaceutics</i> , <b>2014</b> , 11, 2954-61	5.4	69
19	$^{55}\text{Co}$ separation from proton irradiated metallic nickel <b>2014</b> ,		6
18	In vivo tumor targeting and image-guided drug delivery with antibody-conjugated, radiolabeled mesoporous silica nanoparticles. <i>ACS Nano</i> , <b>2013</b> , 7, 9027-39	16.4	274
17	Tumor vasculature targeting and imaging in living mice with reduced graphene oxide. <i>Biomaterials</i> , <b>2013</b> , 34, 3002-9	15.2	130
16	Positron emission tomography imaging of angiogenesis in a murine hindlimb ischemia model with $^{64}\text{Cu}$ -labeled TRC105. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 2749-56	5.4	22
15	Positron emission tomography imaging of tumor angiogenesis with a $(^{61}/^{64}\text{Cu})$ -labeled F(ab) $_{\gamma}2$ antibody fragment. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 709-16	5.4	31
14	Imaging tumor angiogenesis in breast cancer experimental lung metastasis with positron emission tomography, near-infrared fluorescence, and bioluminescence. <i>Angiogenesis</i> , <b>2013</b> , 16, 663-74	10.3	23
13	PET imaging of CD105/endoglin expression with a $^{64}\text{Cu}$ -labeled Fab antibody fragment. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2013</b> , 40, 759-67	8.6	41
12	HaloTag as a reporter gene: positron emission tomography imaging with $(^{64}\text{Cu})$ -labeled second generation HaloTag ligands. <i>American Journal of Translational Research (discontinued)</i> , <b>2013</b> , 5, 291-302	2.9	6

11	Pravastatin stimulates angiogenesis in a murine hindlimb ischemia model: a positron emission tomography imaging study with (64)Cu-NOTA-TRC105. <i>American Journal of Translational Research (discontinued)</i> , <b>2013</b> , 6, 54-63	2.9	11
10	Positron emission tomography imaging of CD105 expression in a rat myocardial infarction model with (64)Cu-NOTA-TRC105. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2013</b> , 4, 1-9	2.2	13
9	An after-market, five-port vertical beam line extension for the PETtrace <b>2012</b> ,		2
8	<sup>45</sup> Ti extraction using hydroxamate resin <b>2012</b> ,		8
7	Prompt radiation detectors to monitor target conditions <b>2012</b> ,		3
6	<sup>44g</sup> Sc from metal calcium targets for PET <b>2012</b> ,		7
5	Flexible, durable proton energy degraders for the GE PETtrace <b>2012</b> ,		1
4	Positron emission tomography imaging of tumor angiogenesis with a <sup>66</sup> Ga-labeled monoclonal antibody. <i>Molecular Pharmaceutics</i> , <b>2012</b> , 9, 1441-8	5.4	32
3	Positron emission tomography imaging of vascular endothelial growth factor receptor expression with (61)Cu-labeled lysine-tagged VEGF121. <i>Molecular Pharmaceutics</i> , <b>2012</b> , 9, 3586-94	5.4	14
2	Very high specific activity <sup>67</sup> Zn from zinc targets for PET. <i>Applied Radiation and Isotopes</i> , <b>2012</b> , 70, 1792-6	1.6	36
1	Cyclotron produced <sup>67</sup> Sc from natural calcium. <i>Applied Radiation and Isotopes</i> , <b>2012</b> , 70, 1526-30	1.6	73