

# Raffaella Rossin

## List of Publications by Year in descending order

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35  
papers

3,728  
citations

186265

28  
h-index

330143

37  
g-index

38  
all docs

38  
docs citations

38  
times ranked

3916  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inâ€¦Vivo Chemistry for Pretargeted Tumor Imaging in Live Mice. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3375-3378.	13.8	427
2	Click to Release: Instantaneous Doxorubicin Elimination upon Tetrazine Ligation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14112-14116.	13.8	319
3	Biodegradable dendritic positron-emitting nanoprobes for the noninvasive imaging of angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 685-690.	7.1	242
4	Highly Reactive <i>trans</i> -Cyclooctene Tags with Improved Stability for Dielsâ€Alder Chemistry in Living Systems. <i>Bioconjugate Chemistry</i> , 2013, 24, 1210-1217.	3.6	218
5	An Assessment of the Effects of Shell Cross-Linked Nanoparticle Size, Core Composition, and Surface PEGylation on in Vivo Biodistribution. <i>Biomacromolecules</i> , 2005, 6, 2541-2554.	5.4	215
6	In Vivo Evaluation of <sup>64</sup> Cu-Labeled Magnetic Nanoparticles as a Dual-Modality PET/MR Imaging Agent. <i>Bioconjugate Chemistry</i> , 2010, 21, 715-722.	3.6	195
7	Chemically triggered drug release from an antibody-drug conjugate leads to potent antitumour activity in mice. <i>Nature Communications</i> , 2018, 9, 1484.	12.8	175
8	Triggered Drug Release from an Antibodyâ€Drug Conjugate Using Fast â€Click-to-Releaseâ€Chemistry in Mice. <i>Bioconjugate Chemistry</i> , 2016, 27, 1697-1706.	3.6	169
9	Synthesis and Characterization of Coreâ€Shell Star Copolymers for In Vivo PET Imaging Applications. <i>Biomacromolecules</i> , 2008, 9, 1329-1339.	5.4	147
10	Dielsâ€Alder Reaction for Tumor Pretargeting: In Vivo Chemistry Can Boost Tumor Radiation Dose Compared with Directly Labeled Antibody. <i>Journal of Nuclear Medicine</i> , 2013, 54, 1989-1995.	5.0	147
11	<sup>64</sup> Cu-labeled folate-conjugated shell cross-linked nanoparticles for tumor imaging and radiotherapy: synthesis, radiolabeling, and biologic evaluation. <i>Journal of Nuclear Medicine</i> , 2005, 46, 1210-8.	5.0	128
12	Structural Effects on the Biodistribution and Positron Emission Tomography (PET) Imaging of Well-Defined <sup>64</sup> Cu-Labeled Nanoparticles Comprised of Amphiphilic Block Graft Copolymers. <i>Biomacromolecules</i> , 2007, 8, 3126-3134.	5.4	125
13	In Vivo Imaging of <sup>64</sup> Cu-Labeled Polymer Nanoparticles Targeted to the Lung Endothelium. <i>Journal of Nuclear Medicine</i> , 2008, 49, 103-111.	5.0	120
14	Pretargeted imaging using bioorthogonal chemistry in mice. <i>Current Opinion in Chemical Biology</i> , 2014, 21, 161-169.	6.1	96
15	<i>Trans</i> -Cyclooctene Tag with Improved Properties for Tumor Pretargeting with the Dielsâ€Alder Reaction. <i>Molecular Pharmaceutics</i> , 2014, 11, 3090-3096.	4.6	93
16	Facile, Efficient Approach to Accomplish Tunable Chemistries and Variable Biodistributions for Shell Cross-Linked Nanoparticles. <i>Biomacromolecules</i> , 2008, 9, 1997-2006.	5.4	88
17	Clickâ€Release from <i>trans</i> -Cyclooctenes: Mechanistic Insights and Expansion of Scope from Established Carbamate to Remarkable Ether Cleavage. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10494-10499.	13.8	83
18	Folateâ€mediated cell uptake of shellâ€crosslinked spheres and cylinders. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7578-7583.	2.3	74

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19	Diabody Pretargeting with Click Chemistry In Vivo. <i>Journal of Nuclear Medicine</i> , 2015, 56, 1422-1428.	5.0	64
20	Bioorthogonal Tetrazine Carbamate Cleavage by Highly Reactive <i>trans</i> -Cyclooctene. <i>Journal of the American Chemical Society</i> , 2020, 142, 10955-10963.	13.7	58
21	Small-Animal PET of Tumor Angiogenesis Using a <sup>76</sup> Br-Labeled Human Recombinant Antibody Fragment to the ED-B Domain of Fibronectin. <i>Journal of Nuclear Medicine</i> , 2007, 48, 1172-1179.	5.0	56
22	Molecular Imaging of Atherosclerotic Plaque with <sup>64</sup> Cu-Labeled Natriuretic Peptide and PET. <i>Journal of Nuclear Medicine</i> , 2010, 51, 85-91.	5.0	52
23	MicroPET Imaging of MCF-7 Tumors in Mice via unr mRNA-Targeted Peptide Nucleic Acids. <i>Bioconjugate Chemistry</i> , 2005, 16, 294-305.	3.6	50
24	<i>Trans</i> -Cyclooctene-Functionalized PeptoBrushes with Improved Reaction Kinetics of the Tetrazine Ligation for Pretargeted Nuclear Imaging. <i>ACS Nano</i> , 2020, 14, 568-584.	14.6	50
25	Labeling of Polymer Nanostructures for Medical Imaging: Importance of Cross-Linking Extent, Spacer Length, and Charge Density. <i>Macromolecules</i> , 2007, 40, 2971-2973.	4.8	46
26	Lipophilicity and Click Reactivity Determine the Performance of Bioorthogonal Tetrazine Tools in Pretargeted <i>In Vivo</i> Chemistry. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 824-833.	4.9	45
27	DOTA-tetrazine probes with modified linkers for tumor pretargeting. <i>Nuclear Medicine and Biology</i> , 2017, 55, 19-26.	0.6	33
28	Metal-Free Cycloaddition Chemistry Driven Pretargeted Radioimmunotherapy Using $\beta$ -Particle Radiation. <i>Bioconjugate Chemistry</i> , 2017, 28, 3007-3015.	3.6	26
29	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.	2.5	24
30	A key role for galectin-1 in sprouting angiogenesis revealed by novel rationally designed antibodies. <i>International Journal of Cancer</i> , 2016, 139, 824-835.	5.1	21
31	Click-Release from <i>trans</i> -Cyclooctenes: Mechanistic Insights and Expansion of Scope from Established Carbamate to Remarkable Ether Cleavage. <i>Angewandte Chemie</i> , 2018, 130, 10654-10659.	2.0	17
32	Characterization of <sup>64</sup> Cu-DOTA-Conatumumab: A PET Tracer for In Vivo Imaging of Death Receptor 5. <i>Journal of Nuclear Medicine</i> , 2011, 52, 942-949.	5.0	11
33	HPMA-Based Nanoparticles for Fast, Bioorthogonal iEDDA Ligation. <i>Biomacromolecules</i> , 2019, 20, 3786-3797.	5.4	9
34	Tetrazine- <i>trans</i> -Cyclooctene Chemistry Applied to Fabricate Self-Assembled Fluorescent and Radioactive Nanoparticles for <i>In Vivo</i> Dual Mode Imaging. <i>Bioconjugate Chemistry</i> , 2019, 30, 547-551.	3.6	9
35	Small Molecule Receptors as Imaging Targets. <i>Handbook of Experimental Pharmacology</i> , 2008, , 93-129.	1.8	8