

W Barry Edwards

List of Publications by Year in descending order

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39
papers

1,083
citations

361413

20
h-index

395702

33
g-index

41
all docs

41
docs citations

41
times ranked

1776
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Four Bifunctional Chelates for Radiolabeling Monoclonal Antibodies with Copper Radioisotopes: Biodistribution and Metabolism. <i>Bioconjugate Chemistry</i> , 1996, 7, 511-522.	3.6	112
2	Preclinical immunoPET/CT imaging using Zr-89-labeled anti-PD-L1 monoclonal antibody for assessing radiation-induced PD-L1 upregulation in head and neck cancer and melanoma. <i>Oncolmunology</i> , 2017, 6, e1329071.	4.6	85
3	Detection of MMP-2 and MMP-9 Activity <i>in Vivo</i> with a Triple-Helical Peptide Optical Probe. <i>Bioconjugate Chemistry</i> , 2012, 23, 656-663.	3.6	76
4	Agonist-Antagonist Dilemma in Molecular Imaging: Evaluation of a Monomolecular Multimodal Imaging Agent for the Somatostatin Receptor. <i>Bioconjugate Chemistry</i> , 2008, 19, 192-200.	3.6	65
5	Generally Applicable, Convenient Solid-Phase Synthesis and Receptor Affinities of Octreotide Analogs. <i>Journal of Medicinal Chemistry</i> , 1994, 37, 3749-3757.	6.4	61
6	Tumor mitochondria-targeted photodynamic therapy with a translocator protein (TSPO)-specific photosensitizer. <i>Acta Biomaterialia</i> , 2015, 28, 160-170.	8.3	61
7	Multimodal sentinel lymph node mapping with single-photon emission computed tomography (SPECT)/computed tomography (CT) and photoacoustic tomography. <i>Translational Research</i> , 2012, 159, 175-181.	5.0	57
8	Multimodal Imaging of Integrin Receptor-Positive Tumors by Bioluminescence, Fluorescence, Gamma Scintigraphy, and Single-Photon Emission Computed Tomography Using a Cyclic RGD Peptide Labeled with a Near-Infrared Fluorescent Dye and a Radionuclide. <i>Molecular Imaging</i> , 2009, 8, 7290.2009.00014.	1.4	55
9	Activatable Molecular Systems Using Homologous Near-Infrared Fluorescent Probes for Monitoring Enzyme Activities <i>in Vitro</i> , <i>in Cellulo</i> , and <i>in Vivo</i> . <i>Molecular Pharmaceutics</i> , 2009, 6, 416-427.	4.6	45
10	Complementary optical and nuclear imaging of caspase-3 activity using combined activatable and radio-labeled multimodality molecular probe. <i>Journal of Biomedical Optics</i> , 2009, 14, 040507.	2.6	41
11	Formation of Stable Vesicles from N- or 3-Alkylindoles: Possible Evidence for Tryptophan as a Membrane Anchor in Proteins. <i>Journal of Organic Chemistry</i> , 2000, 65, 5901-5909.	3.2	32
12	Preclinical ImmunoPET Imaging of Glioblastoma-Infiltrating Myeloid Cells Using Zirconium-89 Labeled Anti-CD11b Antibody. <i>Molecular Imaging and Biology</i> , 2020, 22, 685-694.	2.6	32
13	Multimodal imaging of integrin receptor-positive tumors by bioluminescence, fluorescence, gamma scintigraphy, and single-photon emission computed tomography using a cyclic RGD peptide labeled with a near-infrared fluorescent dye and a radionuclide. <i>Molecular Imaging</i> , 2009, 8, 101-10.	1.4	31
14	Detection of enzyme activity in orthotopic murine breast cancer by fluorescence lifetime imaging using a fluorescence resonance energy transfer-based molecular probe. <i>Journal of Biomedical Optics</i> , 2011, 16, 066019.	2.6	30
15	Imaging the Tumor Microenvironment. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1036, 229-257.	1.6	30
16	Folate Receptor-Targeted Multimodality Imaging of Ovarian Cancer in a Novel Syngeneic Mouse Model. <i>Molecular Pharmaceutics</i> , 2015, 12, 542-553.	4.6	27
17	Evaluation of Phage Display Discovered Peptides as Ligands for Prostate-Specific Membrane Antigen (PSMA). <i>PLoS ONE</i> , 2013, 8, e68339.	2.5	25
18	Radioactivity-Synchronized Fluorescence Enhancement Using a Radionuclide Fluorescence-Quenched Dye. <i>Journal of the American Chemical Society</i> , 2009, 131, 9198-9200.	13.7	23

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19	Multimodal Fluorescence-Mediated Tomography and SPECT/CT for Small-Animal Imaging. <i>Journal of Nuclear Medicine</i> , 2013, 54, 639-646.	5.0	22
20	Multimodality Imaging of Gene Transfer with a Receptor-Based Reporter Gene. <i>Journal of Nuclear Medicine</i> , 2010, 51, 1456-1463.	5.0	21
21	Discovery of Hapten-Specific scFv from a Phage Display Library and Applications for HER2-Positive Tumor Imaging. <i>Bioconjugate Chemistry</i> , 2014, 25, 1311-1322.	3.6	18
22	β-Cyclodextrin dimers as potential tumor pretargeting agents. <i>Chemical Communications</i> , 2001, , 1312-1313.	4.1	15
23	Near-infrared triple-helical peptide with quenched fluorophores for optical imaging of MMP-2 and MMP-9 proteolytic activity in vivo. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3786-3790.	2.2	15
24	Novel theranostic agent for PET imaging and targeted radiopharmaceutical therapy of tumour-infiltrating immune cells in glioma. <i>EBioMedicine</i> , 2021, 71, 103571.	6.1	13
25	Evaluation of Radiolabeled Type IV Collagen Fragments as Potential Tumor Imaging Agents. <i>Bioconjugate Chemistry</i> , 2001, 12, 1057-1065.	3.6	12
26	Evidence of Gadolinium Dissociation from Protein-DTPA-Gadolinium Complexes. <i>Investigative Radiology</i> , 1994, 29, S58-S61.	6.2	11
27	Aggregate formation from 3-alkylindoles: amphiphilic models for interfacial helix anchoring groups. <i>Chemical Communications</i> , 2000, , 433-434.	4.1	11
28	Evaluation of a Triple-Helical Peptide with Quenched Fluorophores for Optical Imaging of MMP-2 and MMP-9 Proteolytic Activity. <i>Molecules</i> , 2014, 19, 8571-8588.	3.8	11
29	Fluorescence Imaging Topography Scanning System for intraoperative multimodal imaging. <i>PLoS ONE</i> , 2017, 12, e0174928.	2.5	10
30	Molecular Imaging of Very Late Antigen-4 in Acute Lung Injury. <i>Journal of Nuclear Medicine</i> , 2021, 62, 280-286.	5.0	8
31	Utilizing the Multiradionuclide Resolving Power of SPECT and Dual Radiolabeled Single Molecules to Assess Treatment Response of Tumors. <i>Molecular Imaging and Biology</i> , 2015, 17, 671-679.	2.6	7
32	Synthesis and preliminary evaluation of an 18 F-labeled oleic acid analog for PET imaging of fatty acid uptake and metabolism. <i>Nuclear Medicine and Biology</i> , 2016, 43, 108-115.	0.6	7
33	RAGE-specific single chain Fv for PET imaging of pancreatic cancer. <i>PLoS ONE</i> , 2018, 13, e0192821.	2.5	7
34	Selection and characterization of high affinity VEGFR1 antibodies from a novel human binary code scFv phage library. <i>Biochemistry and Biophysics Reports</i> , 2015, 3, 169-174.	1.3	5
35	Characterization of quenched fluorescent triple helical peptides for MMP-2 and MMP-9 optical imaging. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
36	Synthesis and radiolabeling of a somatostatin analog for multimodal imaging. , 2006, , .		0

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37	Multimodal optical-nuclear molecular imaging of tumors. , 2008, , .		0
38	Multimodal video-rate fluorescence DOT and SPECT/CT for small animals. , 2012, , .		0
39	Abstract 870: Radiation-induced PD-L1 upregulation can be detected by Zr-89-PD-L1 PET/CT in the tumor micro-environment of murine HPV positive HNSCC model and melanoma model. , 2017, , .		0