Hisataka Kobayashi

List of Publications by Year
in descending order

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291 papers	23,637 citations	10070 75 h-index	10679 143 g-index
296 all docs	296 docs citations	296 times ranked	24768 citing authors

#	Article	IF	Citations
1	New Strategies for Fluorescent Probe Design in Medical Diagnostic Imaging. Chemical Reviews, 2010, 110, 2620-2640.	23.0	1,927
2	Clearance properties of nano-sized particles and molecules as imaging agents: considerations and caveats. Nanomedicine, 2008, 3, 703-717.	1.7	1,691
3	Cancer cellâ€“selective in vivo near infrared photoimmunotherapy targeting specific membrane molecules. Nature Medicine, 2011, 17, 1685-1691.	15.2	851
4	Improving Conventional Enhanced Permeability and Retention (EPR) Effects; What Is the Appropriate Target?. Theranostics, 2014, 4, 81-89.	4.6	792
5	Selective molecular imaging of viable cancer cells with pH-activatable fluorescence probes. Nature Medicine, 2009, 15, 104-109.	15.2	742
6	Nanodrug Delivery: Is the Enhanced Permeability and Retention Effect Sufficient for Curing Cancer?. Bioconjugate Chemistry, 2016, 27, 2225-2238.	1.8	726
7	Nano-sized MRI contrast agents with dendrimer cores. Advanced Drug Delivery Reviews, 2005, 57, 2271-2286.	6.6	420
8	Rapid Cancer Detection by Topically Spraying a Î³-Glutamyltranspeptidaseâ€“Activated Fluorescent Probe. Science Translational Medicine, 2011, 3, 110ra119.	5.8	404
9	Toxicity of Organic Fluorophores Used in Molecular Imaging: Literature Review. Molecular Imaging, 2009, 8, 7290.2009.00031.	0.7	358
10	Target-Cancer-Cell-Specific Activatable Fluorescence Imaging Probes: Rational Design and in Vivo Applications. Accounts of Chemical Research, 2011, 44, 83-90.	7.6	353
11	Sensitive Î²-galactosidase-targeting fluorescence probe for visualizing small peritoneal metastatic tumours in vivo. Nature Communications, 2015, 6, 6463.	5.8	334
12	Simultaneous Multicolor Imaging of Five Different Lymphatic Basins Using Quantum Dots. Nano Letters, 2007, 7, 1711-1716.	4.5	320
13	In vivo Molecular Imaging of Cancer with a Quenching Near-Infrared Fluorescent Probe Using Conjugates of Monoclonal Antibodies and Indocyanine Green. Cancer Research, 2009, 69, 1268-1272.	0.4	306
14	Near-Infrared Photoimmunotherapy of Cancer. Accounts of Chemical Research, 2019, 52, 2332-2339.	7.6	286
15	Dendrimer-Based Nanoprobe for Dual Modality Magnetic Resonance and Fluorescence Imaging. Nano Letters, 2006, 6, 1459-1463.	4.5	259
16	Macromolecular MRI Contrast Agents with Small Dendrimers:Â Pharmacokinetic Differences between Sizes and Cores. Bioconjugate Chemistry, 2003, 14, 388-394.	1.8	254
17	Fluorescence-Guided Surgery. Frontiers in Oncology, 2017, 7, 314.	1.3	249
18	Markedly Enhanced Permeability and Retention Effects Induced by Photo-immunotherapy of Tumors. ACS Nano, 2013, 7, 717-724.	7.3	237

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19	Rational chemical design of the next generation of molecular imaging probes based on physics and biology: mixing modalities, colors and signals. Chemical Society Reviews, 2011, 40, 4626.	18.7	198
20	Multimodal Nanoprobes for Radionuclide and Five-Color Near-Infrared Optical Lymphatic Imaging. ACS Nano, 2007, 1, 258-264.	7.3	183
21	Immunogenic cancer cell death selectively induced by near infrared photoimmunotherapy initiates host tumor immunity. Oncotarget, 2017, 8, 10425-10436.	0.8	179
22	Photoinduced Ligand Release from a Silicon Phthalocyanine Dye Conjugated with Monoclonal Antibodies: A Mechanism of Cancer Cell Cytotoxicity after Near-Infrared Photoimmunotherapy. ACS Central Science, 2018, 4, 1559-1569.	5.3	171
23	H-Type Dimer Formation of Fluorophores: A Mechanism for Activatable, in Vivo Optical Molecular Imaging. ACS Chemical Biology, 2009, 4, 535-546.	1.6	167
24	Spatially selective depletion of tumor-associated regulatory T cells with near-infrared photoimmunotherapy. Science Translational Medicine, 2016, 8, 352ra110.	5.8	163
25	An Enzymatically Activated Fluorescence Probe for Targeted Tumor Imaging. Journal of the American Chemical Society, 2007, 129, 3918-3929.	6.6	161
26	Dendrimer-based Macromolecular MRI Contrast Agents: Characteristics and Application. Molecular Imaging, 2003, 2, 1-10.	0.7	160
27	Lymphatic Drainage Imaging of Breast Cancer in Mice by Micro-Magnetic Resonance Lymphangiography Using a Nano-Size Paramagnetic Contrast Agent. Journal of the National Cancer Institute, 2004, 96, 703-708.	3.0	149
28	Biologically Optimized Nanosized Molecules and Particles: More than Just Size. Bioconjugate Chemistry, 2011, 22, 993-1000.	1.8	149
29	Clinical implications of near-infrared fluorescence imaging in cancer. Future Oncology, 2009, 5, 1501-1511.	1.1	148
30	Toxicity of organic fluorophores used in molecular imaging: literature review. Molecular Imaging, 2009, 8, 341-54.	0.7	148
31	3D-micro-MR angiography of mice using macromolecular MR contrast agents with polyamidoamine dendrimer core with reference to their pharmacokinetic properties. Magnetic Resonance in Medicine, 2001, 45, 454-460.	1.9	143
32	Macromolecular MRI contrast agents for imaging tumor angiogenesis. European Journal of Radiology, 2006, 60, 353-366.	1.2	143
33	Dendrimer-Based Nanosized MRI Contrast Agents. Current Pharmaceutical Biotechnology, 2004, 5, 539-549.	0.9	143
34	Delivery of gadolinium-labeled nanoparticles to the sentinel lymph node: Comparison of the sentinel node visualization and estimations of intra-nodal gadolinium concentration by the magnetic resonance imaging. Journal of Controlled Release, 2006, 111, 343-351.	4.8	142
35	Nearâ€IR Lightâ€Mediated Cleavage of Antibodyâ€“Drug Conjugates Using Cyanine Photocages. Angewandte Chemie - International Edition, 2015, 54, 13635-13638.	7.2	140
36	A dendrimer-based nanosized contrast agent dual-labeled for magnetic resonance and optical fluorescence imaging to localize the sentinel lymph node in mice. Journal of Magnetic Resonance Imaging, 2007, 25, 866-871.	1.9	136

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37	Near-infrared Theranostic Photoimmunotherapy (PIT): Repeated Exposure of Light Enhances the Effect of Immunoconjugate. Bioconjugate Chemistry, 2012, 23, 604-609.	1.8	136
38	Imaging of the lymphatic system: new horizons. Contrast Media and Molecular Imaging, 2006, 1, 230-245.	0.4	128
39	Dendrimer-Based Contrast Agents for Molecular Imaging. Current Topics in Medicinal Chemistry, 2008, 8, 1180-1186.	1.0	128
40	Targeted, Activatable, In Vivo Fluorescence Imaging of Prostate-Specific Membrane Antigen (PSMA) Positive Tumors Using the Quenched Humanized J591 Antibodyâ€“Indocyanine Green (ICG) Conjugate. Bioconjugate Chemistry, 2011, 22, 1700-1705.	1.8	128
41	Pharmacokinetics and enhancement patterns of macromolecular MR contrast agents with various sizes of polyamidoamine dendrimer cores. Magnetic Resonance in Medicine, 2001, 46, 1169-1173.	1.9	127
42	In Vivo Activation of Duocarmycinâ€“Antibody Conjugates by Near-Infrared Light. ACS Central Science, 2017, 3, 329-337.	5.3	125
43	Preparation and Preliminary Evaluation of a Biotin-Targeted, Lectin-Targeted Dendrimer-Based Probe for Dual-Modality Magnetic Resonance and Fluorescence Imaging. Bioconjugate Chemistry, 2007, 18, 1474-1482.	1.8	119
44	Simultaneous two-color spectral fluorescence lymphangiography with near infrared quantum dots to map two lymphatic flows from the breast and the upper extremity. Breast Cancer Research and Treatment, 2007, 103, 23-28.	1.1	118
45	Positive effects of polyethylene glycol conjugation to generation-4 polyamidoamine dendrimers as macromolecular MR contrast agents. Magnetic Resonance in Medicine, 2001, 46, 781-788.	1.9	116
46	Dendrimer-based MRI contrast agents: the effects of PEGylation on relaxivity and pharmacokinetics. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 1001-1008.	1.7	116
47	In vivo multiple color lymphatic imaging using upconverting nanocrystals. Journal of Materials Chemistry, 2009, 19, 6481.	6.7	112
48	In vivoDiagnosis of Epidermal Growth Factor Receptor Expression using Molecular Imaging with a Cocktail of Optically Labeled Monoclonal Antibodies. Clinical Cancer Research, 2007, 13, 6639-6648.	3.2	110
49	Evaluation of the in Vivo Biodistribution of Indium-111 and Yttrium-88 Labeled Dendrimer-1B4M-DTPA and Its Conjugation with Anti-Tac Monoclonal Antibody. Bioconjugate Chemistry, 1999, 10, 103-111.	1.8	109
50	Comparison of dendrimer-based macromolecular contrast agents for dynamic micro-magnetic resonance lymphangiography. Magnetic Resonance in Medicine, 2003, 50, 758-766.	1.9	109
51	Increased (18)F-FDG uptake in a model of inflammation: concanavalin A-mediated lymphocyte activation. Journal of Nuclear Medicine, 2002, 43, 658-63.	2.8	109
52	Avidin-dendrimer-(1B4M-Gd)254:â€‰ A Tumor-Targeting Therapeutic Agent for Gadolinium Neutron Capture Therapy of Intraperitoneal Disseminated Tumor Which Can Be Monitored by MRI. Bioconjugate Chemistry, 2001, 12, 587-593.	1.8	106
53	A Target Cellâ€“Specific Activatable Fluorescence Probe for In vivo Molecular Imaging of Cancer Based on a Self-Quenched Avidin-Rhodamine Conjugate. Cancer Research, 2007, 67, 2791-2799.	0.4	105
54	Near infrared fluorescenceâ€guided realâ€time endoscopic detection of peritoneal ovarian cancer nodules using intravenously injected indocyanine green. International Journal of Cancer, 2011, 129, 1671-1677.	2.3	102

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55	Influence of dendrimer generation and polyethylene glycol length on the biodistribution of PEGylated dendrimers. International Journal of Pharmaceutics, 2010, 383, 293-296.	2.6	99
56	Host Immunity Following Near-Infrared Photoimmunotherapy Is Enhanced with PD-1 Checkpoint Blockade to Eradicate Established Antigenic Tumors. Cancer Immunology Research, 2019, 7, 401-413.	1.6	99
57	Fluorophoreâ^'Quencher Based Activatable Targeted Optical Probes for Detecting in Vivo Cancer Metastases. Molecular Pharmaceutics, 2009, 6, 386-395.	2.3	98
58	Monoclonal antibody-dendrimer conjugates enable radiolabeling of antibody with markedly high specific activity with minimal loss of immunoreactivity. European Journal of Nuclear Medicine and Molecular Imaging, 2000, 27, 1334-1339.	2.2	97
59	In vivo target-specific activatable near-infrared optical labeling of humanized monoclonal antibodies. Molecular Cancer Therapeutics, 2009, 8, 232-239.	1.9	95
60	Photoimmunotherapy: Comparative effectiveness of two monoclonal antibodies targeting the epidermal growth factor receptor. Molecular Oncology, 2014, 8, 620-632.	2.1	95
61	In Vivo Molecular Imaging to Diagnose and Subtype Tumors through Receptor-Targeted Optically Labeled Monoclonal Antibodies. Neoplasia, 2007, 9, 1021-1029.	2.3	94
62	Micro-magnetic resonance lymphangiography in mice using a novel dendrimer-based magnetic resonance imaging contrast agent. Cancer Research, 2003, 63, 271-6.	0.4	93
63	Dual-Modality Molecular Imaging Using Antibodies Labeled with Activatable Fluorescence and a Radionuclide for Specific and Quantitative Targeted Cancer Detection. Bioconjugate Chemistry, 2009, 20, 2177-2184.	1.8	92
64	Rapid intraoperative visualization of breast lesions with Î³-glutamyl hydroxymethyl rhodamine green. Scientific Reports, 2015, 5, 12080.	1.6	89
65	Renal tubular damage detected by dynamic micro-MRI with a dendrimer-based magnetic resonance contrast agent. Kidney International, 2002, 61, 1980-1985.	2.6	87
66	Micro-MR angiography of normal and intratumoral vessels in mice using dedicated intravascular MR contrast agents with high generation of polyamidoamine dendrimer core: Reference to pharmacokinetic properties of dendrimer-based MR contrast agents. Journal of Magnetic Resonance Imaging, 2001, 14, 705-713.	1.9	86
67	Immediate in vivo target-specific cancer cell death after near infrared photoimmunotherapy. BMC Cancer, 2012, 12, 345.	1.1	86
68	Super enhanced permeability and retention (SUPR) effects in tumors following near infrared photoimmunotherapy. Nanoscale, 2016, 8, 12504-12509.	2.8	86
69	Near Infrared Photoimmunotherapy in the Treatment of Pleural Disseminated NSCLC: Preclinical Experience. Theranostics, 2015, 5, 698-709.	4.6	81
70	Near Infrared Photoimmunotherapy in the Treatment of Disseminated Peritoneal Ovarian Cancer. Molecular Cancer Therapeutics, 2015, 14, 141-150.	1.9	81
71	Application of a Macromolecular Contrast Agent for Detection of Alterations of Tumor Vessel Permeability Induced by Radiation. Clinical Cancer Research, 2004, 10, 7712-7720.	3.2	80
72	Novel liver macromolecular MR contrast agent with a polypropylenimine diaminobutyl dendrimer core: Comparison to the vascular MR contrast agent with the polyamidoamine dendrimer core. Magnetic Resonance in Medicine, 2001, 46, 795-802.	1.9	79

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73	Near-infrared photoimmunotherapy of cancer: a new approach that kills cancer cells and enhances anti-cancer host immunity. International Immunology, 2021, 33, 7-15.	1.8	79
74	Dendrimers in medical nanotechnology. IEEE Engineering in Medicine and Biology Magazine, 2009, 28, 12-22.	1.1	78
75	Comparison of the Macromolecular MR Contrast Agents with Ethylenediamine-Core versus Ammonia-Core Generation-6 Polyamidoamine Dendrimer. Bioconjugate Chemistry, 2001, 12, 100-107.	1.8	77
76	Real-time Monitoring of In Vivo Acute Necrotic Cancer Cell Death Induced by Near Infrared Photoimmunotherapy Using Fluorescence Lifetime Imaging. Cancer Research, 2012, 72, 4622-4628.	0.4	77
77	In Vivo Real-Time, Multicolor, Quantum Dot Lymphatic Imaging. Journal of Investigative Dermatology, 2009, 129, 2818-2822.	0.3	76
78	Spectral Fluorescence Molecular Imaging of Lung Metastases Targeting HER2/neu. Clinical Cancer Research, 2007, 13, 2936-2945.	3.2	74
79	Improving the Efficacy of Photoimmunotherapy (PIT) using a Cocktail of Antibody Conjugates in a Multiple Antigen Tumor Model. Theranostics, 2013, 3, 357-365.	4.6	74
80	Polyamine dendrimer-based MRI contrast agents for functional kidney imaging to diagnose acute renal failure. Journal of Magnetic Resonance Imaging, 2004, 20, 512-518.	1.9	72
81	Determination of Optimal Rhodamine Fluorophore for in Vivo Optical Imaging. Bioconjugate Chemistry, 2008, 19, 1735-1742.	1.8	72
82	Multiplexed imaging in cancer diagnosis: applications and future advances. Lancet Oncology, The, 2010, 11, 589-595.	5.1	72
83	Imaging and Selective Elimination of Glioblastoma Stem Cells with Theranostic Near-Infrared-Labeled CD133-Specific Antibodies. Theranostics, 2016, 6, 862-874.	4.6	71
84	Near Infrared Photoimmunotherapy Targeting EGFR Positive Triple Negative Breast Cancer: Optimizing the Conjugate-Light Regimen. PLoS ONE, 2015, 10, e0136829.	1.1	69
85	Near-Infrared Photoimmunotherapy Targeting Prostate Cancer with Prostate-Specific Membrane Antigen (PSMA) Antibody. Molecular Cancer Research, 2017, 15, 1153-1162.	1.5	69
86	Cancer Drug Delivery: Considerations in the Rational Design of Nanosized Bioconjugates. Bioconjugate Chemistry, 2014, 25, 2093-2100.	1.8	68
87	Near infrared photoimmunotherapy with avelumab, an anti-programmed death-ligand 1 (PD-L1) antibody. Oncotarget, 2017, 8, 8807-8817.	0.8	68
88	Photoimmunotherapy Targeting Prostate-Specific Membrane Antigen: Are Antibody Fragments as Effective as Antibodies?. Journal of Nuclear Medicine, 2015, 56, 140-144.	2.8	66
89	Multiplexing with Multispectral Imaging: From Mice to Microscopy. ILAR Journal, 2008, 49, 78-88.	1.8	65
90	Molecular probes for the in vivo imaging of cancer. Molecular BioSystems, 2009, 5, 1279.	2.9	65

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91	In vivomolecular imaging using nanomaterials: Generalin vivocharacteristics of nano-sized reagents and applications for cancer diagnosis (Review). Molecular Membrane Biology, 2010, 27, 274-285.	2.0	65
92	Photoimmunotherapy of Gastric Cancer Peritoneal Carcinomatosis in a Mouse Model. PLoS ONE, 2014, 9, e113276.	1.1	65
93	Phototheranostics of CD44-positive cell populations in triple negative breast cancer. Scientific Reports, 2016, 6, 27871.	1.6	64
94	Syngeneic Mouse Models of Oral Cancer Are Effectively Targeted by Antiâ€“CD44-Based NIR-PIT. Molecular Cancer Research, 2017, 15, 1667-1677.	1.5	64
95	Near infrared photoimmunotherapy for lung metastases. Cancer Letters, 2015, 365, 112-121.	3.2	62
96	High sensitivity detection of cancer in vivo using a dual-controlled activation fluorescent imaging probe based on H-dimer formation and pH activation. Molecular BioSystems, 2010, 6, 888.	2.9	61
97	The Effect of Photoimmunotherapy Followed by Liposomal Daunorubicin in a Mixed Tumor Model: A Demonstration of the Super-Enhanced Permeability and Retention Effect after Photoimmunotherapy. Molecular Cancer Therapeutics, 2014, 13, 426-432.	1.9	61
98	In vivo breast cancer characterization imaging using two monoclonal antibodies activatably labeled with near infrared fluorophores. Breast Cancer Research, 2012, 14, R61.	2.2	60
99	Galactosyl Human Serum Albumin-NMP1 Conjugate: A Near Infrared (NIR)-Activatable Fluorescence Imaging Agent to Detect Peritoneal Ovarian Cancer Metastases. Bioconjugate Chemistry, 2012, 23, 1671-1679.	1.8	60
100	In Vivo Spectral Fluorescence Imaging of Submillimeter Peritoneal Cancer Implants Using a Lectin-Targeted Optical Agent. Neoplasia, 2006, 8, 607-IN2.	2.3	59
101	Toward Improved Syntheses of Dendrimer-Based Magnetic Resonance Imaging Contrast Agents:â€‰ New Bifunctional Diethylenetriaminepentaacetic Acid Ligands and Nonaqueous Conjugation Chemistry. Journal of Medicinal Chemistry, 2007, 50, 3185-3193.	2.9	59
102	Glypican-3 Targeted Human Heavy Chain Antibody as a Drug Carrier for Hepatocellular Carcinoma Therapy. Molecular Pharmaceutics, 2015, 12, 2151-2157.	2.3	59
103	Epidermal Growth Factor Receptor (EGFR)-targeted Photoimmunotherapy (PIT) for the Treatment of EGFR-expressing Bladder Cancer. Molecular Cancer Therapeutics, 2017, 16, 2201-2214.	1.9	59
104	Multicolor imaging of lymphatic function with two nanomaterials: quantum dot-labeled cancer cells and dendrimer-based optical agents. Nanomedicine, 2009, 4, 411-419.	1.7	57
105	Role of Fluorophore Charge on the In Vivo Optical Imaging Properties of Near-Infrared Cyanine Dye/Monoclonal Antibody Conjugates. Bioconjugate Chemistry, 2016, 27, 404-413.	1.8	57
106	Targeting Epidermal Growth Factor Receptor (EGFR) and Human Epidermal Growth Factor Receptor 2 (HER2) Expressing Bladder Cancer Using Combination Photoimmunotherapy (PIT). Scientific Reports, 2019, 9, 2084.	1.6	57
107	Multicolor inÂvivo targeted imaging to guide realâ€time surgery of HER2â€positive micrometastases in a twoâ€tumor coincident model of ovarian cancer. Cancer Science, 2009, 100, 1099-1104.	1.7	56
108	Near Infra-Red Photoimmunotherapy with Anti-CEA-IR700 Results in Extensive Tumor Lysis and a Significant Decrease in Tumor Burden in Orthotopic Mouse Models of Pancreatic Cancer. PLoS ONE, 2015, 10, e0121989.	1.1	56

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109	Dendrimer-enhanced MRI as a diagnostic and prognostic biomarker of sepsis-induced acute renal failure in aged mice. Kidney International, 2005, 67, 2159-2167.	2.6	55
110	Activatable Fluorescent Molecular Imaging of Peritoneal Metastases following Pretargeting with a Biotinylated Monoclonal Antibody. Cancer Research, 2007, 67, 3809-3817.	0.4	54
111	A Near-Infrared, Wavelength-Shiftable, Turn-on Fluorescent Probe for the Detection and Imaging of Cancer Tumor Cells. ACS Chemical Biology, 2017, 12, 1121-1132.	1.6	54
112	Activatable Optical Imaging with a Silica-Rhodamine Based Near Infrared (SiR700) Fluorophore: A comparison with cyanine based dyes. Bioconjugate Chemistry, 2011, 22, 2531-2538.	1.8	53
113	Short PEG-Linkers Improve the Performance of Targeted, Activatable Monoclonal Antibody-Indocyanine Green Optical Imaging Probes. Bioconjugate Chemistry, 2013, 24, 811-816.	1.8	53
114	Photoimmunotherapy of hepatocellular carcinoma-targeting Glypican-3 combined with nanosized albumin-bound paclitaxel. Nanomedicine, 2015, 10, 1139-1147.	1.7	53
115	Detection of Lymph Node Involvement in Hematologic Malignancies Using Micromagnetic Resonance Lymphangiography with a Gadolinum-Labeled Dendrimer Nanoparticle. Neoplasia, 2005, 7, 984-991.	2.3	52
116	A Comparison of the Emission Efficiency of Four Common Green Fluorescence Dyes after Internalization into Cancer Cells. Bioconjugate Chemistry, 2006, 17, 1426-1431.	1.8	51
117	Nanoparticles in sentinel lymph node mapping. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2009, 1, 610-623.	3.3	51
118	Norcyanine-Carbamates Are Versatile Near-Infrared Fluorogenic Probes. Journal of the American Chemical Society, 2021, 143, 5674-5679.	6.6	51
119	Targeted optical imaging of cancer cells using lectin-binding BODIPY conjugated avidin. Biochemical and Biophysical Research Communications, 2006, 348, 807-813.	1.0	49
120	Gadolinium MRI Contrast Agents Based on Triazine Dendrimers: Relaxivity and In Vivo Pharmacokinetics. Bioconjugate Chemistry, 2012, 23, 2291-2299.	1.8	49
121	Two-Color Lymphatic Mapping Using Ig-Conjugated Near Infrared Optical Probes. Journal of Investigative Dermatology, 2007, 127, 2351-2356.	0.3	48
122	Photoimmunotherapy for cancer-associated fibroblasts targeting fibroblast activation protein in human esophageal squamous cell carcinoma. Cancer Biology and Therapy, 2019, 20, 1234-1248.	1.5	48
123	Combined CD44- and CD25-Targeted Near-Infrared Photoimmunotherapy Selectively Kills Cancer and Regulatory T Cells in Syngeneic Mouse Cancer Models. Cancer Immunology Research, 2020, 8, 345-355.	1.6	48
124	Fibroblast activation protein targeted near infrared photoimmunotherapy (NIR PIT) overcomes therapeutic resistance in human esophageal cancer. Scientific Reports, 2021, 11, 1693.	1.6	48
125	Near Infrared Photoimmunotherapy; A Review of Targets for Cancer Therapy. Cancers, 2021, 13, 2535.	1.7	47
126	The effects of conjugate and light dose on photo-immunotherapy induced cytotoxicity. BMC Cancer, 2014, 14, 389.	1.1	46

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127	Near infrared photoimmunotherapy of Bâ€cell lymphoma. Molecular Oncology, 2016, 10, 1404-1414.	2.1	46
128	Activatable fluorescent probes in fluorescence-guided surgery: Practical considerations. Bioorganic and Medicinal Chemistry, 2018, 26, 925-930.	1.4	46
129	3D MR angiography of intratumoral vasculature using a novel macromolecular MR contrast agent. Magnetic Resonance in Medicine, 2001, 46, 579-585.	1.9	45
130	Near-Infrared Photoimmunotherapy: Photoactivatable Antibodyâ€“Drug Conjugates (ADCs). Bioconjugate Chemistry, 2020, 31, 28-36.	1.8	45
131	Gadolinium-labeled dendrimers as biometric nanoprobes to detect vascular permeability. Journal of Materials Chemistry, 2003, 13, 1523.	6.7	44
132	Near infrared photoimmunotherapy with an anti-mesothelin antibody. Oncotarget, 2016, 7, 23361-23369.	0.8	44
133	Real-time optical imaging using quantum dot and related nanocrystals. Nanomedicine, 2010, 5, 765-776.	1.7	42
134	Comparative effectiveness of light emitting diodes (LEDs) and Lasers in near infrared photoimmunotherapy. Oncotarget, 2016, 7, 14324-14335.	0.8	42
135	Novel intravascular macromolecular MRI contrast agent with generation-4 polyamidoamine dendrimer core: Accelerated renal excretion with coinjection of lysine. Magnetic Resonance in Medicine, 2001, 46, 457-464.	1.9	41
136	New Approaches to Lymphatic Imaging. Lymphatic Research and Biology, 2009, 7, 205-214.	0.5	41
137	New Nanosized Biocompatible MR Contrast Agents Based on Lysine-Dendri-Graft Macromolecules. Bioconjugate Chemistry, 2010, 21, 955-960.	1.8	41
138	Activatable Organic Near-Infrared Fluorescent Probes Based on a Bacteriochlorin Platform: Synthesis and Multicolor in Vivo Imaging with a Single Excitation. Bioconjugate Chemistry, 2014, 25, 362-369.	1.8	41
139	Impact of C4â€²-O-Alkyl Linker on in Vivo Pharmacokinetics of Near-Infrared Cyanine/Monoclonal Antibody Conjugates. Molecular Pharmaceutics, 2015, 12, 3303-3311.	2.3	41
140	Targeted Phototherapy for Malignant Pleural Mesothelioma: Near-Infrared Photoimmunotherapy Targeting Podoplanin. Cells, 2020, 9, 1019.	1.8	41
141	Near infrared photoimmunotherapy prevents lung cancer metastases in a murine model. Oncotarget, 2015, 6, 19747-19758.	0.8	41
142	In Vivo Stable Tumor-Specific Painting in Various Colors Using Dehalogenase-Based Protein-Tag Fluorescent Ligands. Bioconjugate Chemistry, 2009, 20, 1367-1374.	1.8	40
143	Near Infrared Photoimmunotherapy with Combined Exposure of External and Interstitial Light Sources. Molecular Pharmaceutics, 2018, 15, 3634-3641.	2.3	40
144	Interstitial near-infrared photoimmunotherapy: effective treatment areas and light doses needed for use with fiber optic diffusers. Oncotarget, 2018, 9, 11159-11169.	0.8	40

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145	Hepatocyte targeting of 111In-labeled oligo-DNA with avidin or avidinâ€“dendrimer complex. Journal of Controlled Release, 2004, 95, 133-141.	4.8	39
146	Targeted optical fluorescence imaging of human ovarian adenocarcinoma using a galactosyl serum albumin-conjugated fluorophore. Cancer Science, 2007, 98, 1727-1733.	1.7	39
147	Magnetic resonance lymphangiography with a nano-sized gadolinium-labeled dendrimer in small and large animal models. Nanomedicine, 2010, 5, 1183-1191.	1.7	39
148	Dendrimers as high relaxivity <scp>MR</scp> contrast agents. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2014, 6, 155-162.	3.3	39
149	Monoclonal antibody-based optical molecular imaging probes; considerations and caveats in chemistry, biology and pharmacology. Current Opinion in Chemical Biology, 2016, 33, 32-38.	2.8	39
150	A Self-Quenched Galactosamine-Serum Albumin-RhodamineX Conjugate: A â€œSmartâ€•Fluorescent Molecular Imaging Probe Synthesized with Clinically Applicable Material for Detecting Peritoneal Ovarian Cancer Metastases. Clinical Cancer Research, 2007, 13, 6335-6343.	3.2	37
151	Endoscopic near infrared photoimmunotherapy using a fiber optic diffuser for peritoneal dissemination of gastric cancer. Cancer Science, 2018, 109, 1902-1908.	1.7	37
152	D-galactose receptor-targeted in vivo spectral fluorescence imaging of peritoneal metastasis using galactosamin-conjugated serum albumin-rhodamine green. Journal of Biomedical Optics, 2007, 12, 051501.	1.4	36
153	Lymphatic dysfunction in transgenic mice expressing KSHV k-cyclin under the control of the VEGFR-3 promoter. Blood, 2005, 105, 2356-2363.	0.6	35
154	Minibody-Indocyanine Green Based Activatable Optical Imaging Probes: The Role of Short Polyethylene Glycol Linkers. ACS Medicinal Chemistry Letters, 2014, 5, 411-415.	1.3	35
155	Effect of charge localization on the in vivo optical imaging properties of near-infrared cyanine dye/monoclonal antibody conjugates. Molecular BioSystems, 2016, 12, 3046-3056.	2.9	35
156	The Effect of Antibody Fragments on CD25 Targeted Regulatory T Cell Near-Infrared Photoimmunotherapy. Bioconjugate Chemistry, 2019, 30, 2624-2633.	1.8	35
157	Dendrimer-based Macromolecular MRI Contrast Agents: Characteristics and Application. Molecular Imaging, 2003, 2, 153535002003031.	0.7	34
158	Selective cell elimination in vitro and in vivo from tissues and tumors using antibodies conjugated with a near infrared phthalocyanine. RSC Advances, 2015, 5, 25105-25114.	1.7	34
159	Molecular targeted photoimmunotherapy for HER2-positive human gastric cancer in combination with chemotherapy results in improved treatment outcomes through different cytotoxic mechanisms. BMC Cancer, 2016, 16, 37.	1.1	34
160	Production of Multiple Growth Factors by a Newly Established Human Thyroid Carcinoma Cell Line. Japanese Journal of Cancer Research, 1992, 83, 153-158.	1.7	33
161	Photoimmunotherapy targeting biliaryâ€pancreatic cancer with humanized antiâ€TROP2 antibody. Cancer Medicine, 2019, 8, 7781-7792.	1.3	33
162	Selfâ€illuminating in vivo lymphatic imaging using a bioluminescence resonance energy transfer quantum dot nanoâ€particle. Contrast Media and Molecular Imaging, 2011, 6, 55-59.	0.4	32

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