Ralph Weissleder

List of Publications by Year
in descending order

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1,017	150,780	43 188	111 343
papers	citations	h-index	g-index

1072	1072	1072	114978
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A clearer vision for in vivo imaging. Nature Biotechnology, 2001, 19, 316-317.	9.4	3,393
2	Imaging in the era of molecular oncology. Nature, 2008, 452, 580-589.	13.7	2,190
3	Noninvasive Detection of Clinically Occult Lymph-Node Metastases in Prostate Cancer. New England Journal of Medicine, 2003, 348, 2491-2499.	13.9	2,168
4	Epigenetic memory in induced pluripotent stem cells. Nature, 2010, 467, 285-290.	13.7	2,011
5	The healing myocardium sequentially mobilizes two monocyte subsets with divergent and complementary functions. Journal of Experimental Medicine, 2007, 204, 3037-3047.	4.2	1,926
6	Shedding light onto live molecular targets. Nature Medicine, 2003, 9, 123-128.	15.2	1,872
7	Identification of Splenic Reservoir Monocytes and Their Deployment to Inflammatory Sites. Science, 2009, 325, 612-616.	6.0	1,806
8	Tat peptide-derivatized magnetic nanoparticles allow in vivo tracking and recovery of progenitor cells. Nature Biotechnology, 2000, 18, 410-414.	9.4	1,679
9	Restoration of p53 function leads to tumour regression in vivo. Nature, 2007, 445, 661-665.	13.7	1,662
10	Oncogenic Kras Maintains Pancreatic Tumors through Regulation of Anabolic Glucose Metabolism. Cell, 2012, 149, 656-670.	13.5	1,587
11	In vivo imaging of tumors with protease-activated near-infrared fluorescent probes. Nature Biotechnology, 1999, 17, 375-378.	9.4	1,578
12	Looking and listening to light: the evolution of whole-body photonic imaging. Nature Biotechnology, 2005, 23, 313-320.	9.4	1,482
13	Molecular Imaging. Radiology, 2001, 219, 316-333.	3.6	1,370
14	Effective use of PI3K and MEK inhibitors to treat mutant Kras G12D and PIK3CA H1047R murine lung cancers. Nature Medicine, 2008, 14, 1351-1356.	15.2	1,238
15	Magnetic relaxation switches capable of sensing molecular interactions. Nature Biotechnology, 2002, 20, 816-820.	9.4	1,130
16	Ly-6Chi monocytes dominate hypercholesterolemia-associated monocytosis and give rise to macrophages in atheromata. Journal of Clinical Investigation, 2007, 117, 195-205.	3.9	1,064
17	Label-free detection and molecular profiling of exosomes with a nano-plasmonic sensor. Nature Biotechnology, 2014, 32, 490-495.	9.4	1,060
18	New Technologies for Analysis of Extracellular Vesicles. Chemical Reviews, 2018, 118, 1917-1950.	23.0	1,041

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19	Near-infrared fluorescence: application to in vivo molecular imaging. Current Opinion in Chemical Biology, 2010, 14, 71-79.	2.8	1,002
20	Molecular Imaging in Cancer. Science, 2006, 312, 1168-1171.	6.0	997
21	Ultrasmall superparamagnetic iron oxide: characterization of a new class of contrast agents for MR imaging.. Radiology, 1990, 175, 489-493.	3.6	973
22	Superparamagnetic iron oxide: pharmacokinetics and toxicity. American Journal of Roentgenology, 1989, 152, 167-173.	1.0	951
23	Fluorescence imaging with near-infrared light: new technological advances that enable in vivo molecular imaging. European Radiology, 2003, 13, 195-208.	2.3	888
24	The Histone Deacetylase Sirt6 Regulates Glucose Homeostasis via Hif1Î±. Cell, 2010, 140, 280-293.	13.5	880
25	Myocardial infarction accelerates atherosclerosis. Nature, 2012, 487, 325-329.	13.7	874
26	High-Efficiency Intracellular Magnetic Labeling with Novel Superparamagnetic-Tat Peptide Conjugates. Bioconjugate Chemistry, 1999, 10, 186-191.	1.8	861
27	Cell-specific targeting of nanoparticles by multivalent attachment of small molecules. Nature Biotechnology, 2005, 23, 1418-1423.	9.4	860
28	Local proliferation dominates lesional macrophage accumulation in atherosclerosis. Nature Medicine, 2013, 19, 1166-1172.	15.2	855
29	An X-ray computed tomography imaging agent based on long-circulating bismuth sulphide nanoparticles. Nature Materials, 2006, 5, 118-122.	13.3	850
30	Multifunctional magnetic nanoparticles for targeted imaging and therapyâ˜†. Advanced Drug Delivery Reviews, 2008, 60, 1241-1251.	6.6	834
31	Fluorescence molecular tomography resolves protease activity in vivo. Nature Medicine, 2002, 8, 757-761.	15.2	822
32	In vivo magnetic resonance imaging of transgene expression. Nature Medicine, 2000, 6, 351-354.	15.2	811
33	Immunogenic Chemotherapy Sensitizes Tumors to Checkpoint Blockade Therapy. Immunity, 2016, 44, 343-354.	6.6	767
34	Genome-wide CRISPR Screen in a Mouse Model of Tumor Growth and Metastasis. Cell, 2015, 160, 1246-1260.	13.5	746
35	In vivo molecular target assessment of matrix metalloproteinase inhibition. Nature Medicine, 2001, 7, 743-748.	15.2	738
36	Molecular imaging in drug discovery and development. Nature Reviews Drug Discovery, 2003, 2, 123-131.	21.5	721

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37	TLR7/8-agonist-loaded nanoparticles promote the polarization of tumour-associated macrophages to enhance cancer immunotherapy. Nature Biomedical Engineering, 2018, 2, 578-588.	11.6	714
38	Regulatory T cells suppress tumor-specific CD8 T cell cytotoxicity through TGF-Â signals in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 419-424.	3.3	711
39	Macrophages Facilitate Electrical Conduction in the Heart. Cell, 2017, 169, 510-522.e20.	13.5	703
40	Tetrazine-Based Cycloadditions: Application to Pretargeted Live Cell Imaging. Bioconjugate Chemistry, 2008, 19, 2297-2299.	1.8	698
41	Imaging macrophages with nanoparticles. Nature Materials, 2014, 13, 125-138.	13.3	698
42	Therapeutic siRNA silencing in inflammatory monocytes in mice. Nature Biotechnology, 2011, 29, 1005-1010.	9.4	697
43	Scaling down imaging: molecular mapping of cancer in mice. Nature Reviews Cancer, 2002, 2, 11-18.	12.8	661
44	Protein typing of circulating microvesicles allows real-time monitoring of glioblastoma therapy. Nature Medicine, 2012, 18, 1835-1840.	15.2	647
45	Successful Anti-PD-1 Cancer Immunotherapy Requires T Cell-Dendritic Cell Crosstalk Involving the Cytokines IFN-Î³ and IL-12. Immunity, 2018, 49, 1148-1161.e7.	6.6	639
46	Codon-Optimized Gaussia Luciferase cDNA for Mammalian Gene Expression in Culture and in Vivo. Molecular Therapy, 2005, 11, 435-443.	3.7	635
47	Arthritis Critically Dependent on Innate Immune System Players. Immunity, 2002, 16, 157-168.	6.6	631
48	Epidermal growth factor receptor and Ink4a/Arf. Cancer Cell, 2002, 1, 269-277.	7.7	618
49	Osteogenesis Associates With Inflammation in Early-Stage Atherosclerosis Evaluated by Molecular Imaging In Vivo. Circulation, 2007, 116, 2841-2850.	1.6	606
50	Magnetic Nanosensors for the Detection of Oligonucleotide Sequences. Angewandte Chemie - International Edition, 2001, 40, 3204-3206.	7.2	596
51	Dextran-Coated Iron Oxide Nanoparticles: A Versatile Platform for Targeted Molecular Imaging, Molecular Diagnostics, and Therapy. Accounts of Chemical Research, 2011, 44, 842-852.	7.6	587
52	Noninvasive Vascular Cell Adhesion Molecule-1 Imaging Identifies Inflammatory Activation of Cells in Atherosclerosis. Circulation, 2006, 114, 1504-1511.	1.6	579
53	Near-Infrared Optical Imaging of Protease Activity for Tumor Detection. Radiology, 1999, 213, 866-870.	3.6	571
54	Chronic variable stress activates hematopoietic stem cells. Nature Medicine, 2014, 20, 754-758.	15.2	565

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55	Chipâ€“NMR biosensor for detection and molecular analysis of cells. Nature Medicine, 2008, 14, 869-874.	15.2	561
56	The Histone Deacetylase SIRT6 Is a Tumor Suppressor that Controls Cancer Metabolism. Cell, 2012, 151, 1185-1199.	13.5	561
57	Experimental three-dimensional fluorescence reconstruction of diffuse media by use of a normalized Born approximation. Optics Letters, 2001, 26, 893.	1.7	550
58	Origins of tumor-associated macrophages and neutrophils. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2491-2496.	3.3	547
59	Dynamic functional imaging of relative cerebral blood volume during rat forepaw stimulation. Magnetic Resonance in Medicine, 1998, 39, 615-624.	1.9	539
60	Both p16Ink4a and the p19Arf-p53 pathway constrain progression of pancreatic adenocarcinoma in the mouse. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5947-5952.	3.3	537
61	Nanoparticle PET-CT Imaging of Macrophages in Inflammatory Atherosclerosis. Circulation, 2008, 117, 379-387.	1.6	524
62	Superparamagnetic iron oxide: clinical application as a contrast agent for MR imaging of the liver.. Radiology, 1988, 168, 297-301.	3.6	515
63	Monocrystalline iron oxide nanocompounds (MION): Physicochemical properties. Magnetic Resonance in Medicine, 1993, 29, 599-604.	1.9	511
64	Improved delineation of human brain tumors on MR images using a long-circulating, superparamagnetic iron oxide agent. Journal of Magnetic Resonance Imaging, 1999, 9, 228-232.	1.9	507
65	Viral-Induced Self-Assembly of Magnetic Nanoparticles Allows the Detection of Viral Particles in Biological Media. Journal of the American Chemical Society, 2003, 125, 10192-10193.	6.6	498
66	Ultrasmall superparamagnetic iron oxide: an intravenous contrast agent for assessing lymph nodes with MR imaging.. Radiology, 1990, 175, 494-498.	3.6	490
67	Chip-based analysis of exosomal mRNA mediating drug resistance in glioblastoma. Nature Communications, 2015, 6, 6999.	5.8	484
68	In vivo imaging reveals a tumor-associated macrophageâ€“mediated resistance pathway in antiâ€“PD-1 therapy. Science Translational Medicine, 2017, 9, .	5.8	466
69	Regulatory T Cells Reversibly Suppress Cytotoxic T Cell Function Independent of Effector Differentiation. Immunity, 2006, 25, 129-141.	6.6	456
70	Differential Contribution of Monocytes to Heart Macrophages in Steady-State and After Myocardial Infarction. Circulation Research, 2014, 115, 284-295.	2.0	453
71	Visualization and tracking of tumour extracellular vesicle delivery and RNA translation using multiplexed reporters. Nature Communications, 2015, 6, 7029.	5.8	449
72	miR-296 Regulates Growth Factor Receptor Overexpression in Angiogenic Endothelial Cells. Cancer Cell, 2008, 14, 382-393.	7.7	441

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73	Intravital Imaging. Cell, 2011, 147, 983-991.	13.5	439
74	A multimodal nanoparticle for preoperative magnetic resonance imaging and intraoperative optical brain tumor delineation. Cancer Research, 2003, 63, 8122-5.	0.4	439
75	Detection of Vascular Adhesion Molecule-1 Expression Using a Novel Multimodal Nanoparticle. Circulation Research, 2005, 96, 327-336.	2.0	438
76	Rapid monocyte kinetics in acute myocardial infarction are sustained by extramedullary monocytopoiesis. Journal of Experimental Medicine, 2012, 209, 123-137.	4.2	435
77	Biomedical Applications of Tetrazine Cycloadditions. Accounts of Chemical Research, 2011, 44, 816-827.	7.6	430
78	The impact of human EGFR kinase domain mutations on lung tumorigenesis and in vivo sensitivity to EGFR-targeted therapies. Cancer Cell, 2006, 9, 485-495.	7.7	427
79	Ly-6C ^{high} Monocytes Depend on Nr4a1 to Balance Both Inflammatory and Reparative Phases in the Infarcted Myocardium. Circulation Research, 2014, 114, 1611-1622.	2.0	427
80	Assessment of therapeutic efficacy and fate of engineered human mesenchymal stem cells for cancer therapy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4822-4827.	3.3	425
81	Magnetic nanoparticle biosensors. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2010, 2, 291-304.	3.3	417
82	MicroRNA-21 Knockdown Disrupts Glioma Growth In vivo and Displays Synergistic Cytotoxicity with Neural Precursor Cellâ€"Delivered S-TRAIL in Human Gliomas. Cancer Research, 2007, 67, 8994-9000.	0.4	416
83	Immune evasion mediated by PD-L1 on glioblastoma-derived extracellular vesicles. Science Advances, 2018, 4, eaar2766.	4.7	416
84	Acoustic Purification of Extracellular Microvesicles. ACS Nano, 2015, 9, 2321-2327.	7.3	413
85	Inflammation in Atherosclerosis. Circulation, 2006, 114, 55-62.	1.6	398
86	Extramedullary Hematopoiesis Generates Ly-6C ^{high} Monocytes That Infiltrate Atherosclerotic Lesions. Circulation, 2012, 125, 364-374.	1.6	398
87	Bioorthogonal Turnâ€On Probes for Imaging Small Molecules inside Living Cells. Angewandte Chemie - International Edition, 2010, 49, 2869-2872.	7.2	386
88	Multimodality Molecular Imaging Identifies Proteolytic and Osteogenic Activities in Early Aortic Valve Disease. Circulation, 2007, 115, 377-386.	1.6	375
89	Long-circulating iron oxides for MR imaging. Advanced Drug Delivery Reviews, 1995, 16, 321-334.	6.6	374
90	Integrated Magnetoâ€"Electrochemical Sensor for Exosome Analysis. ACS Nano, 2016, 10, 1802-1809.	7.3	372

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91	A submillimeter resolution fluorescence molecular imaging system for small animal imaging. Medical Physics, 2003, 30, 901-911.	1.6	369
92	Near-Infrared Fluorescent Nanoparticles as Combined MR/Optical Imaging Probes. Bioconjugate Chemistry, 2002, 13, 554-560.	1.8	368
93	IRF3 and type I interferons fuel a fatal response to myocardial infarction. Nature Medicine, 2017, 23, 1481-1487.	15.2	358
94	Tumoral Distribution of Long-circulating Dextran-coated Iron Oxide Nanoparticles in a Rodent Model. Radiology, 2000, 214, 568-574.	3.6	357
95	Visualization of antitumor treatment by means of fluorescence molecular tomography with an annexin V-Cy5.5 conjugate. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12294-12299.	3.3	355
96	Multivalent Effects of RGD Peptides Obtained by Nanoparticle Display. Journal of Medicinal Chemistry, 2006, 49, 6087-6093.	2.9	355
97	Tumour-associated macrophages act as a slow-release reservoir of nano-therapeutic Pt(IV) pro-drug. Nature Communications, 2015, 6, 8692.	5.8	353
98	DNA-Based Magnetic Nanoparticle Assembly Acts as a Magnetic Relaxation Nanoswitch Allowing Screening of DNA-Cleaving Agents. Journal of the American Chemical Society, 2002, 124, 2856-2857.	6.6	352
99	Innate Response Activator B Cells Protect Against Microbial Sepsis. Science, 2012, 335, 597-601.	6.0	351
100	In Vivo Imaging of Proteolytic Activity in Atherosclerosis. Circulation, 2002, 105, 2766-2771.	1.6	346
101	Molecular Imaging: Exploring the Next Frontier. Radiology, 1999, 212, 609-614.	3.6	344
102	Synthesis and Evaluation of a Series of 1,2,4,5-Tetrazines for Bioorthogonal Conjugation. Bioconjugate Chemistry, 2011, 22, 2263-2270.	1.8	343
103	Quantitative Nanostructureâ^'Activity Relationship Modeling. ACS Nano, 2010, 4, 5703-5712.	7.3	342
104	Fast and Sensitive Pretargeted Labeling of Cancer Cells through a Tetrazine/transâ€Cyclooctene Cycloaddition. Angewandte Chemie - International Edition, 2009, 48, 7013-7016.	7.2	341
105	Magnetically labeled cells can be detected by MR imaging. Journal of Magnetic Resonance Imaging, 1997, 7, 258-263.	1.9	336
106	On-demand erythrocyte disposal and iron recycling requires transient macrophages in the liver. Nature Medicine, 2016, 22, 945-951.	15.2	333
107	Feasibility of in Vivo Multichannel Optical Imaging of Gene Expression: Experimental Study in Mice. Radiology, 2002, 224, 446-451.	3.6	328
108	Cyclophosphamide enhances glioma virotherapy by inhibiting innate immune responses. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12873-12878.	3.3	328

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109	Method of Determining Nanoparticle Core Weight. Analytical Chemistry, 2005, 77, 814-817.	3.2	326
110	Molecular Imaging in the Clinical Arena. JAMA - Journal of the American Medical Association, 2005, 293, 855.	3.8	322
111	Bioorthogonal chemistry amplifies nanoparticle binding and enhances the sensitivity of cell detection. Nature Nanotechnology, 2010, 5, 660-665.	15.6	319
112	Proliferation and Recruitment Contribute to Myocardial Macrophage Expansion in Chronic Heart Failure. Circulation Research, 2016, 119, 853-864.	2.0	318
113	Monocyte accumulation in mouse atherogenesis is progressive and proportional to extent of disease. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10340-10345.	3.3	316
114	Cardiac macrophages promote diastolic dysfunction. Journal of Experimental Medicine, 2018, 215, 423-440.	4.2	314
115	Upconverting luminescent nanomaterials: application to in vivo bioimaging. Chemical Communications, 2009, , 4188.	2.2	307
116	A magneto-DNA nanoparticle system for rapid detection and phenotyping of bacteria. Nature Nanotechnology, 2013, 8, 369-375.	15.6	307
117	In vivo high resolution three-dimensional imaging of antigen-specific cytotoxic T-lymphocyte trafficking to tumors. Cancer Research, 2003, 63, 6838-46.	0.4	307
118	COVID-19 diagnostics in context. Science Translational Medicine, 2020, 12, .	5.8	305
119	Direct vascular channels connect skull bone marrow and the brain surface enabling myeloid cell migration. Nature Neuroscience, 2018, 21, 1209-1217.	7.1	302
120	PET/MRI of Inflammation in Myocardial Infarction. Journal of the American College of Cardiology, 2012, 59, 153-163.	1.2	301
121	Differential Conjugation of Tat Peptide to Superparamagnetic Nanoparticles and Its Effect on Cellular Uptake. Bioconjugate Chemistry, 2002, 13, 840-844.	1.8	295
122	In vivo imaging of proteolytic enzyme activity using a novel molecular reporter. Cancer Research, 2000, 60, 4953-8.	0.4	282
123	Impaired Infarct Healing in Atherosclerotic Mice With Ly-6ChiMonocytosis. Journal of the American College of Cardiology, 2010, 55, 1629-1638.	1.2	281
124	Fluorescein isothiocyanateâ€“hapten immunoassay for determination of peptideâ€“cell interactions. Analytical Biochemistry, 2004, 330, 181-185.	1.1	279
125	Focal disruption of the bloodâ€“brain barrier due to 260-kHz ultrasound bursts: a method for molecular imaging and targeted drug delivery. Journal of Neurosurgery, 2006, 105, 445-454.	0.9	277
126	Tracking the inflammatory response in stroke in vivo by sensing the enzyme myeloperoxidase. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18584-18589.	3.3	275

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127	BODIPYâ€“Tetrazine Derivatives as Superbright Bioorthogonal Turnâ€on Probes. Angewandte Chemie - International Edition, 2013, 52, 6917-6920.	7.2	275
128	A spatially and temporally restricted mouse model of soft tissue sarcoma. Nature Medicine, 2007, 13, 992-997.	15.2	274
129	Optical-based molecular imaging: contrast agents and potential medical applications. European Radiology, 2003, 13, 231-243.	2.3	273
130	Predicting therapeutic nanomedicine efficacy using a companion magnetic resonance imaging nanoparticle. Science Translational Medicine, 2015, 7, 314ra183.	5.8	273
131	Arterial and Aortic Valve Calcification Abolished by Elastolytic Cathepsin S Deficiency in Chronic Renal Disease. Circulation, 2009, 119, 1785-1794.	1.6	272
132	Osteoblasts remotely supply lung tumors with cancer-promoting SiglecF ^{high} neutrophils. Science, 2017, 358, .	6.0	270
133	A Highly Selective Fluorescent Probe for Thiol Bioimaging. Organic Letters, 2008, 10, 37-40.	2.4	268
134	Paramagnetic metal scavenging by melanin: MR imaging.. Radiology, 1997, 204, 417-423.	3.6	267
135	Uptake of dextran-coated monocrystalline iron oxides in tumor cells and macrophages. Journal of Magnetic Resonance Imaging, 1997, 7, 1140-1145.	1.9	266
136	Interleukin-3 amplifies acute inflammation and is a potential therapeutic target in sepsis. Science, 2015, 347, 1260-1265.	6.0	265
137	A secreted luciferase for ex vivo monitoring of in vivo processes. Nature Methods, 2008, 5, 171-173.	9.0	263
138	Optical Imaging of Matrix Metalloproteinaseâ€“2 Activity in Tumors: Feasibility Study in a Mouse Model. Radiology, 2001, 221, 523-529.	3.6	260
139	Tat Peptide Directs Enhanced Clearance and Hepatic Permeability of Magnetic Nanoparticles. Bioconjugate Chemistry, 2002, 13, 264-268.	1.8	259
140	SCS macrophages suppress melanoma by restricting tumor-derived vesicleâ€“B cell interactions. Science, 2016, 352, 242-246.	6.0	259
141	Improvement of MRI Probes To Allow Efficient Detection of Gene Expression. Bioconjugate Chemistry, 2000, 11, 941-946.	1.8	256
142	Multiplexed Profiling of Single Extracellular Vesicles. ACS Nano, 2018, 12, 494-503.	7.3	256
143	Use of Magnetic Nanoparticles as Nanosensors to Probe for Molecular Interactions. ChemBioChem, 2004, 5, 261-264.	1.3	249
144	A Pretargeted PET Imaging Strategy Based on Bioorthogonal Dielsâ€“Alder Click Chemistry. Journal of Nuclear Medicine, 2013, 54, 1389-1396.	2.8	247

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145	Monocyte-Directed RNAi Targeting CCR2 Improves Infarct Healing in Atherosclerosis-Prone Mice. Circulation, 2013, 127, 2038-2046.	1.6	243
146	Optical Visualization of Cathepsin K Activity in Atherosclerosis With a Novel, Protease-Activatable Fluorescence Sensor. Circulation, 2007, 115, 2292-2298.	1.6	241
147	A Fluorescent Probe for the Detection of Myeloperoxidase Activity in Atherosclerosis-Associated Macrophages. Chemistry and Biology, 2007, 14, 1221-1231.	6.2	241
148	Recent Developments in Magnetic Diagnostic Systems. Chemical Reviews, 2015, 115, 10690-10724.	23.0	239
149	Magnetic resonance imaging of cardiomyocyte apoptosis with a novel magneto-optical nanoparticle. Magnetic Resonance in Medicine, 2005, 54, 718-724.	1.9	238
150	Normal T-cell response and in vivo magnetic resonance imaging of T cells loaded with HIV transactivator-peptide-derived superparamagnetic nanoparticles. Journal of Immunological Methods, 2001, 256, 89-105.	0.6	234
151	Evolution of macromolecular complexity in drug delivery systems. Nature Reviews Chemistry, 2017, 1, .	13.8	233
152	¹⁸F Labeled Nanoparticles for in Vivo PET-CT Imaging. Bioconjugate Chemistry, 2009, 20, 397-401.	1.8	229
153	Perturbational profiling of nanomaterial biologic activity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7387-7392.	3.3	228
154	Nanoparticle Imaging of Integrins on Tumor Cells. Neoplasia, 2006, 8, 214-222.	2.3	226
155	Mast cells are an essential hematopoietic component for polyp development. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19977-19982.	3.3	225
156	Detection of dysplastic intestinal adenomas using enzyme-sensing molecular beacons in mice. Gastroenterology, 2002, 122, 406-414.	0.6	221
157	InÂVivo Silencing of the Transcription Factor IRF5 Reprograms the Macrophage Phenotype and Improves Infarct Healing. Journal of the American College of Cardiology, 2014, 63, 1556-1566.	1.2	220
158	The Progress and Promise of Molecular Imaging Probes in Oncologic Drug Development. Clinical Cancer Research, 2005, 11, 7967-7985.	3.2	219
159	Targeted delivery of multifunctional magnetic nanoparticles. Nanomedicine, 2007, 2, 153-167.	1.7	218
160	Emerging concepts in molecular MRI. Current Opinion in Biotechnology, 2007, 18, 4-10.	3.3	218
161	Magnetic Sensors for Protease Assays. Angewandte Chemie - International Edition, 2003, 42, 1375-1378.	7.2	216
162	Magnetic Resonance Imaging of Inducible E-Selectin Expression in Human Endothelial Cell Culture. Bioconjugate Chemistry, 2002, 13, 122-127.	1.8	215

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163	Preparation of a Cathepsin D Sensitive Near-Infrared Fluorescence Probe for Imaging. Bioconjugate Chemistry, 1999, 10, 892-896.	1.8	212
164	Ultrasensitive Clinical Enumeration of Rare Cells ex Vivo Using a Micro-Hall Detector. Science Translational Medicine, 2012, 4, 141ra92.	5.8	211
165	Multiparametric plasma EV profiling facilitates diagnosis of pancreatic malignancy. Science Translational Medicine, 2017, 9, .	5.8	211
166	In VivoTracking of Neural Progenitor Cell Migration to Glioblastomas. Human Gene Therapy, 2003, 14, 1247-1254.	1.4	210
167	Identification of the target self-antigens in reperfusion injury. Journal of Experimental Medicine, 2006, 203, 141-152.	4.2	210
168	Ultrafluorogenic Coumarinâ€“Tetrazine Probes for Realâ€Time Biological Imaging. Angewandte Chemie - International Edition, 2014, 53, 7531-7534.	7.2	210
169	Nano-palladium is a cellular catalyst for in vivo chemistry. Nature Communications, 2017, 8, 15906.	5.8	210
170	Magnetic nanoparticles for MR imaging: agents, techniques and cardiovascular applications. Basic Research in Cardiology, 2008, 103, 122-130.	2.5	208
171	Hybrid PET-optical imaging using targeted probes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7910-7915.	3.3	208
172	Near-infrared optical imaging of proteases in cancer. Molecular Cancer Therapeutics, 2003, 2, 489-96.	1.9	207
173	Near-Infrared Fluorescent Imaging of Matrix Metalloproteinase Activity After Myocardial Infarction. Circulation, 2005, 111, 1800-1805.	1.6	205
174	Arg1 expression defines immunosuppressive subsets of tumor-associated macrophages. Theranostics, 2018, 8, 5842-5854.	4.6	203
175	Development of a Bioorthogonal and Highly Efficient Conjugation Method for Quantum Dots Using Tetrazineâ^'Norbornene Cycloaddition. Journal of the American Chemical Society, 2010, 132, 7838-7839.	6.6	202
176	Molecular Imaging of Cardiovascular Disease. Circulation, 2007, 116, 1052-1061.	1.6	201
177	Targeted Nanoparticles for Imaging Incipient Pancreatic Ductal Adenocarcinoma. PLoS Medicine, 2008, 5, e85.	3.9	201
178	Targeting Interleukin-1Î² Reduces Leukocyte Production After Acute Myocardial Infarction. Circulation, 2015, 132, 1880-1890.	1.6	200
179	Fluorescence Molecular Imaging of Small Animal Tumor Models. Current Molecular Medicine, 2004, 4, 419-430.	0.6	200
180	MR imaging and scintigraphy of gene expression through melanin induction.. Radiology, 1997, 204, 425-429.	3.6	198

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181	Angiotensin-Converting Enzyme Inhibition Prevents the Release of Monocytes From Their Splenic Reservoir in Mice With Myocardial Infarction. Circulation Research, 2010, 107, 1364-1373.	2.0	198
182	In Vivo Imaging in Cancer. Cold Spring Harbor Perspectives in Biology, 2010, 2, a003848-a003848.	2.3	198
183	Oncogenic EGFR signaling cooperates with loss of tumor suppressor gene functions in gliomagenesis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2712-2716.	3.3	197
184	18F-4V for PETâ€“CT Imaging of VCAM-1 Expression in Atherosclerosis. JACC: Cardiovascular Imaging, 2009, 2, 1213-1222.	2.3	197
185	Extracellular Vesicles Modulate the Glioblastoma Microenvironment via a Tumor Suppression Signaling Network Directed by miR-1. Cancer Research, 2014, 74, 738-750.	0.4	197
186	Seeing Within. Circulation Research, 2004, 94, 433-445.	2.0	196
187	Activin A promotes multiple myeloma-induced osteolysis and is a promising target for myeloma bone disease. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5124-5129.	3.3	196
188	Bioorthogonal Reaction Pairs Enable Simultaneous, Selective, Multiâ€target Imaging. Angewandte Chemie - International Edition, 2012, 51, 920-922.	7.2	196
189	Molecular and Cellular Imaging of Atherosclerosis. Journal of the American College of Cardiology, 2006, 47, 1328-1338.	1.2	195
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