

Ralph Weissleder

List of Publications by Citations

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1,013
papers

125,831
citations

174
h-index

316
g-index

1,072
ext. papers

139,984
ext. citations

11.1
avg, IF

8.56
L-index

#	Paper	IF	Citations
1013	Noninvasive detection of clinically occult lymph-node metastases in prostate cancer. <i>New England Journal of Medicine</i> , 2003 , 348, 2491-9	59.2	1869
1012	Imaging in the era of molecular oncology. <i>Nature</i> , 2008 , 452, 580-9	50.4	1852
1011	Epigenetic memory in induced pluripotent stem cells. <i>Nature</i> , 2010 , 467, 285-90	50.4	1729
1010	Shedding light onto live molecular targets. <i>Nature Medicine</i> , 2003 , 9, 123-8	50.5	1605
1009	Tat peptide-derivatized magnetic nanoparticles allow in vivo tracking and recovery of progenitor cells. <i>Nature Biotechnology</i> , 2000 , 18, 410-4	44.5	1573
1008	The healing myocardium sequentially mobilizes two monocyte subsets with divergent and complementary functions. <i>Journal of Experimental Medicine</i> , 2007 , 204, 3037-47	16.6	1568
1007	Identification of splenic reservoir monocytes and their deployment to inflammatory sites. <i>Science</i> , 2009 , 325, 612-6	33.3	1481
1006	Restoration of p53 function leads to tumour regression in vivo. <i>Nature</i> , 2007 , 445, 661-5	50.4	1388
1005	In vivo imaging of tumors with protease-activated near-infrared fluorescent probes. <i>Nature Biotechnology</i> , 1999 , 17, 375-8	44.5	1386
1004	Looking and listening to light: the evolution of whole-body photonic imaging. <i>Nature Biotechnology</i> , 2005 , 23, 313-20	44.5	1245
1003	Molecular imaging. <i>Radiology</i> , 2001 , 219, 316-33	20.5	1224
1002	Oncogenic Kras maintains pancreatic tumors through regulation of anabolic glucose metabolism. <i>Cell</i> , 2012 , 149, 656-70	56.2	1203
1001	Effective use of PI3K and MEK inhibitors to treat mutant Kras G12D and PIK3CA H1047R murine lung cancers. <i>Nature Medicine</i> , 2008 , 14, 1351-6	50.5	1121
1000	Magnetic relaxation switches capable of sensing molecular interactions. <i>Nature Biotechnology</i> , 2002 , 20, 816-20	44.5	991
999	Ly-6Chi monocytes dominate hypercholesterolemia-associated monocytosis and give rise to macrophages in atheromata. <i>Journal of Clinical Investigation</i> , 2007 , 117, 195-205	15.9	912
998	Molecular imaging in cancer. <i>Science</i> , 2006 , 312, 1168-71	33.3	878
997	Ultrasmall superparamagnetic iron oxide: characterization of a new class of contrast agents for MR imaging. <i>Radiology</i> , 1990 , 175, 489-93	20.5	863

996	Superparamagnetic iron oxide: pharmacokinetics and toxicity. <i>American Journal of Roentgenology</i> , 1989 , 152, 167-73	5.4	856
995	Near-infrared fluorescence: application to in vivo molecular imaging. <i>Current Opinion in Chemical Biology</i> , 2010 , 14, 71-9	9.7	851
994	Label-free detection and molecular profiling of exosomes with a nano-plasmonic sensor. <i>Nature Biotechnology</i> , 2014 , 32, 490-5	44.5	826
993	Cell-specific targeting of nanoparticles by multivalent attachment of small molecules. <i>Nature Biotechnology</i> , 2005 , 23, 1418-23	44.5	799
992	High-efficiency intracellular magnetic labeling with novel superparamagnetic-Tat peptide conjugates. <i>Bioconjugate Chemistry</i> , 1999 , 10, 186-91	6.3	787
991	Fluorescence imaging with near-infrared light: new technological advances that enable in vivo molecular imaging. <i>European Radiology</i> , 2003 , 13, 195-208	8	774
990	Multifunctional magnetic nanoparticles for targeted imaging and therapy. <i>Advanced Drug Delivery Reviews</i> , 2008 , 60, 1241-1251	18.5	765
989	An X-ray computed tomography imaging agent based on long-circulating bismuth sulphide nanoparticles. <i>Nature Materials</i> , 2006 , 5, 118-22	27	757
988	The histone deacetylase Sirt6 regulates glucose homeostasis via Hif1alpha. <i>Cell</i> , 2010 , 140, 280-93	56.2	755
987	In vivo magnetic resonance imaging of transgene expression. <i>Nature Medicine</i> , 2000 , 6, 351-5	50.5	738
986	Myocardial infarction accelerates atherosclerosis. <i>Nature</i> , 2012 , 487, 325-9	50.4	674
985	Local proliferation dominates lesional macrophage accumulation in atherosclerosis. <i>Nature Medicine</i> , 2013 , 19, 1166-72	50.5	669
984	Fluorescence molecular tomography resolves protease activity in vivo. <i>Nature Medicine</i> , 2002 , 8, 757-60	50.5	667
983	In vivo molecular target assessment of matrix metalloproteinase inhibition. <i>Nature Medicine</i> , 2001 , 7, 743-8	50.5	651
982	Molecular imaging in drug discovery and development. <i>Nature Reviews Drug Discovery</i> , 2003 , 2, 123-31	64.1	616
981	Regulatory T cells suppress tumor-specific CD8 T cell cytotoxicity through TGF-beta signals in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 419-24	11.5	606
980	Therapeutic siRNA silencing in inflammatory monocytes in mice. <i>Nature Biotechnology</i> , 2011 , 29, 1005-10	44.5	594
979	Imaging macrophages with nanoparticles. <i>Nature Materials</i> , 2014 , 13, 125-38	27	586

978	Tetrazine-based cycloadditions: application to pretargeted live cell imaging. <i>Bioconjugate Chemistry</i> , 2008 , 19, 2297-9	6.3	584
977	New Technologies for Analysis of Extracellular Vesicles. <i>Chemical Reviews</i> , 2018 , 118, 1917-1950	68.1	581
976	Scaling down imaging: molecular mapping of cancer in mice. <i>Nature Reviews Cancer</i> , 2002 , 2, 11-8	31.3	566
975	Arthritis critically dependent on innate immune system players. <i>Immunity</i> , 2002 , 16, 157-68	32.3	564
974	Epidermal growth factor receptor and Ink4a/Arf: convergent mechanisms governing terminal differentiation and transformation along the neural stem cell to astrocyte axis. <i>Cancer Cell</i> , 2002 , 1, 269-77	27.3	559
973	Codon-optimized Gaussia luciferase cDNA for mammalian gene expression in culture and in vivo. <i>Molecular Therapy</i> , 2005 , 11, 435-43	11.7	553
972	Genome-wide CRISPR screen in a mouse model of tumor growth and metastasis. <i>Cell</i> , 2015 , 160, 1246-60	36.2	544
971	Protein typing of circulating microvesicles allows real-time monitoring of glioblastoma therapy. <i>Nature Medicine</i> , 2012 , 18, 1835-40	50.5	521
970	Immunogenic Chemotherapy Sensitizes Tumors to Checkpoint Blockade Therapy. <i>Immunity</i> , 2016 , 44, 343-54	32.3	518
969	Magnetic Nanosensors for the Detection of Oligonucleotide Sequences. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 3204-3206	16.4	515
968	Dextran-coated iron oxide nanoparticles: a versatile platform for targeted molecular imaging, molecular diagnostics, and therapy. <i>Accounts of Chemical Research</i> , 2011 , 44, 842-52	24.3	510
967	Noninvasive vascular cell adhesion molecule-1 imaging identifies inflammatory activation of cells in atherosclerosis. <i>Circulation</i> , 2006 , 114, 1504-11	16.7	508
966	Chip-NMR biosensor for detection and molecular analysis of cells. <i>Nature Medicine</i> , 2008 , 14, 869-74	50.5	502
965	Dynamic functional imaging of relative cerebral blood volume during rat forepaw stimulation. <i>Magnetic Resonance in Medicine</i> , 1998 , 39, 615-24	4.4	500
964	Osteogenesis associates with inflammation in early-stage atherosclerosis evaluated by molecular imaging in vivo. <i>Circulation</i> , 2007 , 116, 2841-50	16.7	486
963	Near-infrared optical imaging of protease activity for tumor detection. <i>Radiology</i> , 1999 , 213, 866-70	20.5	486
962	The histone deacetylase SIRT6 is a tumor suppressor that controls cancer metabolism. <i>Cell</i> , 2012 , 151, 1185-99	56.2	476
961	Monocrystalline iron oxide nanocompounds (MION): physicochemical properties. <i>Magnetic Resonance in Medicine</i> , 1993 , 29, 599-604	4.4	474

960	Both p16(Ink4a) and the p19(Arf)-p53 pathway constrain progression of pancreatic adenocarcinoma in the mouse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 5947-52	11.5	463
959	Nanoparticle PET-CT imaging of macrophages in inflammatory atherosclerosis. <i>Circulation</i> , 2008 , 117, 379-87	16.7	460
958	Viral-induced self-assembly of magnetic nanoparticles allows the detection of viral particles in biological media. <i>Journal of the American Chemical Society</i> , 2003 , 125, 10192-3	16.4	458
957	Improved delineation of human brain tumors on MR images using a long-circulating, superparamagnetic iron oxide agent. <i>Journal of Magnetic Resonance Imaging</i> , 1999 , 9, 228-32	5.6	447
956	Origins of tumor-associated macrophages and neutrophils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2491-6	11.5	445
955	Superparamagnetic iron oxide: clinical application as a contrast agent for MR imaging of the liver. <i>Radiology</i> , 1988 , 168, 297-301	20.5	443
954	Macrophages Facilitate Electrical Conduction in the Heart. <i>Cell</i> , 2017 , 169, 510-522.e20	56.2	438
953	Ultrasmall superparamagnetic iron oxide: an intravenous contrast agent for assessing lymph nodes with MR imaging. <i>Radiology</i> , 1990 , 175, 494-8	20.5	435
952	TLR7/8-agonist-loaded nanoparticles promote the polarization of tumour-associated macrophages to enhance cancer immunotherapy. <i>Nature Biomedical Engineering</i> , 2018 , 2, 578-588	19	435
951	Experimental three-dimensional fluorescence reconstruction of diffuse media by use of a normalized Born approximation. <i>Optics Letters</i> , 2001 , 26, 893-5	3	415
950	Chronic variable stress activates hematopoietic stem cells. <i>Nature Medicine</i> , 2014 , 20, 754-758	50.5	408
949	A multimodal nanoparticle for preoperative magnetic resonance imaging and intraoperative optical brain tumor delineation. <i>Cancer Research</i> , 2003 , 63, 8122-5	10.1	401
948	Detection of vascular adhesion molecule-1 expression using a novel multimodal nanoparticle. <i>Circulation Research</i> , 2005 , 96, 327-36	15.7	392
947	The impact of human EGFR kinase domain mutations on lung tumorigenesis and in vivo sensitivity to EGFR-targeted therapies. <i>Cancer Cell</i> , 2006 , 9, 485-95	24.3	389
946	Regulatory T cells reversibly suppress cytotoxic T cell function independent of effector differentiation. <i>Immunity</i> , 2006 , 25, 129-41	32.3	388
945	Assessment of therapeutic efficacy and fate of engineered human mesenchymal stem cells for cancer therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 4822-7	11.5	383
944	Biomedical applications of tetrazine cycloadditions. <i>Accounts of Chemical Research</i> , 2011 , 44, 816-27	24.3	375
943	miR-296 regulates growth factor receptor overexpression in angiogenic endothelial cells. <i>Cancer Cell</i> , 2008 , 14, 382-93	24.3	375

942	MicroRNA-21 knockdown disrupts glioma growth in vivo and displays synergistic cytotoxicity with neural precursor cell delivered S-TRAIL in human gliomas. <i>Cancer Research</i> , 2007 , 67, 8994-9000	10.1	373
941	Intravital imaging. <i>Cell</i> , 2011 , 147, 983-91	56.2	369
940	Chip-based analysis of exosomal mRNA mediating drug resistance in glioblastoma. <i>Nature Communications</i> , 2015 , 6, 6999	17.4	363
939	Inflammation in atherosclerosis: visualizing matrix metalloproteinase action in macrophages in vivo. <i>Circulation</i> , 2006 , 114, 55-62	16.7	356
938	Magnetic nanoparticle biosensors. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2010 , 2, 291-304	9.2	352
937	Successful Anti-PD-1 Cancer Immunotherapy Requires T Cell-Dendritic Cell Crosstalk Involving the Cytokines IFN- γ and IL-12. <i>Immunity</i> , 2018 , 49, 1148-1161.e7	32.3	352
936	Long-circulating iron oxides for MR imaging. <i>Advanced Drug Delivery Reviews</i> , 1995 , 16, 321-334	18.5	349
935	Visualization and tracking of tumour extracellular vesicle delivery and RNA translation using multiplexed reporters. <i>Nature Communications</i> , 2015 , 6, 7029	17.4	345
934	Rapid monocyte kinetics in acute myocardial infarction are sustained by extramedullary monocytopoiesis. <i>Journal of Experimental Medicine</i> , 2012 , 209, 123-37	16.6	342
933	Near-infrared fluorescent nanoparticles as combined MR/optical imaging probes. <i>Bioconjugate Chemistry</i> , 2002 , 13, 554-60	6.3	336
932	Ly-6Chigh monocytes depend on Nr4a1 to balance both inflammatory and reparative phases in the infarcted myocardium. <i>Circulation Research</i> , 2014 , 114, 1611-22	15.7	333
931	In vivo imaging reveals a tumor-associated macrophage-mediated resistance pathway in anti-PD-1 therapy. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	331
930	Multivalent effects of RGD peptides obtained by nanoparticle display. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 6087-93	8.3	330
929	Bioorthogonal turn-on probes for imaging small molecules inside living cells. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2869-72	16.4	327
928	Tumoral distribution of long-circulating dextran-coated iron oxide nanoparticles in a rodent model. <i>Radiology</i> , 2000 , 214, 568-74	20.5	326
927	Multimodality molecular imaging identifies proteolytic and osteogenic activities in early aortic valve disease. <i>Circulation</i> , 2007 , 115, 377-86	16.7	325
926	Extramedullary hematopoiesis generates Ly-6C(high) monocytes that infiltrate atherosclerotic lesions. <i>Circulation</i> , 2012 , 125, 364-74	16.7	321
925	Fast and sensitive pretargeted labeling of cancer cells through a tetrazine/trans-cyclooctene cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 7013-6	16.4	319

924	DNA-based magnetic nanoparticle assembly acts as a magnetic relaxation nanoswitch allowing screening of DNA-cleaving agents. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2856-7	16.4	319
923	In vivo imaging of proteolytic activity in atherosclerosis. <i>Circulation</i> , 2002 , 105, 2766-71	16.7	309
922	Differential contribution of monocytes to heart macrophages in steady-state and after myocardial infarction. <i>Circulation Research</i> , 2014 , 115, 284-95	15.7	305
921	Magnetically labeled cells can be detected by MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 1997 , 7, 258-63	5.6	304
920	Quantitative nanostructure-activity relationship modeling. <i>ACS Nano</i> , 2010 , 4, 5703-12	16.7	291
919	Innate response activator B cells protect against microbial sepsis. <i>Science</i> , 2012 , 335, 597-601	33.3	291
918	Cyclophosphamide enhances glioma virotherapy by inhibiting innate immune responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 12873-8	11.5	291
917	Synthesis and evaluation of a series of 1,2,4,5-tetrazines for bioorthogonal conjugation. <i>Bioconjugate Chemistry</i> , 2011 , 22, 2263-70	6.3	289
916	Bioorthogonal chemistry amplifies nanoparticle binding and enhances the sensitivity of cell detection. <i>Nature Nanotechnology</i> , 2010 , 5, 660-5	28.7	288
915	Acoustic purification of extracellular microvesicles. <i>ACS Nano</i> , 2015 , 9, 2321-7	16.7	287
914	Tumour-associated macrophages act as a slow-release reservoir of nano-therapeutic Pt(IV) pro-drug. <i>Nature Communications</i> , 2015 , 6, 8692	17.4	281
913	Visualization of antitumor treatment by means of fluorescence molecular tomography with an annexin V-Cy5.5 conjugate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 12294-9	11.5	281
912	Upconverting luminescent nanomaterials: application to in vivo bioimaging. <i>Chemical Communications</i> , 2009 , 4188-90	5.8	279
911	Monocyte accumulation in mouse atherogenesis is progressive and proportional to extent of disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10340-10345	11.5	278
910	In vivo high resolution three-dimensional imaging of antigen-specific cytotoxic T-lymphocyte trafficking to tumors. <i>Cancer Research</i> , 2003 , 63, 6838-46	10.1	277
909	Method of determining nanoparticle core weight. <i>Analytical Chemistry</i> , 2005 , 77, 814-7	7.8	276
908	Feasibility of in vivo multichannel optical imaging of gene expression: experimental study in mice. <i>Radiology</i> , 2002 , 224, 446-51	20.5	275
907	Integrated Magneto-Electrochemical Sensor for Exosome Analysis. <i>ACS Nano</i> , 2016 , 10, 1802-9	16.7	274

906	A submillimeter resolution fluorescence molecular imaging system for small animal imaging. <i>Medical Physics</i> , 2003 , 30, 901-11	4.4	274
905	Molecular imaging in the clinical arena. <i>JAMA - Journal of the American Medical Association</i> , 2005 , 293, 855-62	27.4	270
904	A magneto-DNA nanoparticle system for rapid detection and phenotyping of bacteria. <i>Nature Nanotechnology</i> , 2013 , 8, 369-75	28.7	264
903	Differential conjugation of tat peptide to superparamagnetic nanoparticles and its effect on cellular uptake. <i>Bioconjugate Chemistry</i> , 2002 , 13, 840-4	6.3	262
902	A highly selective fluorescent probe for thiol bioimaging. <i>Organic Letters</i> , 2008 , 10, 37-40	6.2	257
901	In vivo imaging of proteolytic enzyme activity using a novel molecular reporter. <i>Cancer Research</i> , 2000 , 60, 4953-8	10.1	255
900	Immune evasion mediated by PD-L1 on glioblastoma-derived extracellular vesicles. <i>Science Advances</i> , 2018 , 4, eaar2766	14.3	254
899	PET/MRI of inflammation in myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2012 , 59, 153-63	15.1	245
898	Arterial and aortic valve calcification abolished by elastolytic cathepsin S deficiency in chronic renal disease. <i>Circulation</i> , 2009 , 119, 1785-94	16.7	245
897	Focal disruption of the blood-brain barrier due to 260-kHz ultrasound bursts: a method for molecular imaging and targeted drug delivery. <i>Journal of Neurosurgery</i> , 2006 , 105, 445-54	3.2	242
896	Optical imaging of matrix metalloproteinase-2 activity in tumors: feasibility study in a mouse model. <i>Radiology</i> , 2001 , 221, 523-9	20.5	239
895	Impaired infarct healing in atherosclerotic mice with Ly-6C(hi) monocytosis. <i>Journal of the American College of Cardiology</i> , 2010 , 55, 1629-38	15.1	238
894	Uptake of dextran-coated monocrystalline iron oxides in tumor cells and macrophages. <i>Journal of Magnetic Resonance Imaging</i> , 1997 , 7, 1140-5	5.6	237
893	A secreted luciferase for ex vivo monitoring of in vivo processes. <i>Nature Methods</i> , 2008 , 5, 171-3	21.6	235
892	Tracking the inflammatory response in stroke in vivo by sensing the enzyme myeloperoxidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 18584-9	11.5	235
891	Fluorescein isothiocyanate-hapten immunoassay for determination of peptide-cell interactions. <i>Analytical Biochemistry</i> , 2004 , 330, 181-5	3.1	235
890	Paramagnetic metal scavenging by melanin: MR imaging. <i>Radiology</i> , 1997 , 204, 417-23	20.5	234
889	Optical-based molecular imaging: contrast agents and potential medical applications. <i>European Radiology</i> , 2003 , 13, 231-43	8	233

888	Tat peptide directs enhanced clearance and hepatic permeability of magnetic nanoparticles. <i>Bioconjugate Chemistry</i> , 2002 , 13, 264-8	6.3	232
887	Predicting therapeutic nanomedicine efficacy using a companion magnetic resonance imaging nanoparticle. <i>Science Translational Medicine</i> , 2015 , 7, 314ra183	17.5	225
886	On-demand erythrocyte disposal and iron recycling requires transient macrophages in the liver. <i>Nature Medicine</i> , 2016 , 22, 945-51	50.5	224
885	BODIPY-tetrazine derivatives as superbright bioorthogonal turn-on probes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6917-20	16.4	223
884	Use of magnetic nanoparticles as nanosensors to probe for molecular interactions. <i>ChemBioChem</i> , 2004 , 5, 261-4	3.8	223
883	Improvement of MRI probes to allow efficient detection of gene expression. <i>Bioconjugate Chemistry</i> , 2000 , 11, 941-6	6.3	223
882	A spatially and temporally restricted mouse model of soft tissue sarcoma. <i>Nature Medicine</i> , 2007 , 13, 992-7	50.5	222
881	A fluorescent probe for the detection of myeloperoxidase activity in atherosclerosis-associated macrophages. <i>Chemistry and Biology</i> , 2007 , 14, 1221-31		219
880	Optical visualization of cathepsin K activity in atherosclerosis with a novel, protease-activatable fluorescence sensor. <i>Circulation</i> , 2007 , 115, 2292-8	16.7	217
879	A pretargeted PET imaging strategy based on bioorthogonal Diels-Alder click chemistry. <i>Journal of Nuclear Medicine</i> , 2013 , 54, 1389-96	8.9	213
878	Magnetic resonance imaging of cardiomyocyte apoptosis with a novel magneto-optical nanoparticle. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 718-24	4.4	213
877	Normal T-cell response and in vivo magnetic resonance imaging of T cells loaded with HIV transactivator-peptide-derived superparamagnetic nanoparticles. <i>Journal of Immunological Methods</i> , 2001 , 256, 89-105	2.5	213
876	Proliferation and Recruitment Contribute to Myocardial Macrophage Expansion in Chronic Heart Failure. <i>Circulation Research</i> , 2016 , 119, 853-64	15.7	210
875	Perturbational profiling of nanomaterial biologic activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7387-92	11.5	210
874	IRF3 and type I interferons fuel a fatal response to myocardial infarction. <i>Nature Medicine</i> , 2017 , 23, 1481-1487	14.8	208
873	¹⁸ F labeled nanoparticles for in vivo PET-CT imaging. <i>Bioconjugate Chemistry</i> , 2009 , 20, 397-401	6.3	208
872	Recent Developments in Magnetic Diagnostic Systems. <i>Chemical Reviews</i> , 2015 , 115, 10690-724	68.1	204
871	Magnetic sensors for protease assays. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 1375-8	16.4	203

870	Monocyte-directed RNAi targeting CCR2 improves infarct healing in atherosclerosis-prone mice. <i>Circulation</i> , 2013 , 127, 2038-46	16.7	200
869	Mast cells are an essential hematopoietic component for polyp development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19977-82	11.5	199
868	Emerging concepts in molecular MRI. <i>Current Opinion in Biotechnology</i> , 2007 , 18, 4-10	11.4	198
867	Nanoparticle imaging of integrins on tumor cells. <i>Neoplasia</i> , 2006 , 8, 214-22	6.4	198
866	Detection of dysplastic intestinal adenomas using enzyme-sensing molecular beacons in mice. <i>Gastroenterology</i> , 2002 , 122, 406-14	13.3	195
865	Near-infrared optical imaging of proteases in cancer. <i>Molecular Cancer Therapeutics</i> , 2003 , 2, 489-96	6.1	195
864	Identification of the target self-antigens in reperfusion injury. <i>Journal of Experimental Medicine</i> , 2006 , 203, 141-52	16.6	194
863	The progress and promise of molecular imaging probes in oncologic drug development. <i>Clinical Cancer Research</i> , 2005 , 11, 7967-85	12.9	194
862	Targeted delivery of multifunctional magnetic nanoparticles. <i>Nanomedicine</i> , 2007 , 2, 153-67	5.6	193
861	Hybrid PET-optical imaging using targeted probes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 7910-5	11.5	191
860	Ultrasensitive clinical enumeration of rare cells ex vivo using a micro-hall detector. <i>Science Translational Medicine</i> , 2012 , 4, 141ra92	17.5	190
859	SCS macrophages suppress melanoma by restricting tumor-derived vesicle-B cell interactions. <i>Science</i> , 2016 , 352, 242-6	33.3	188
858	Near-infrared fluorescent imaging of matrix metalloproteinase activity after myocardial infarction. <i>Circulation</i> , 2005 , 111, 1800-5	16.7	188
857	Magnetic resonance imaging of inducible E-selectin expression in human endothelial cell culture. <i>Bioconjugate Chemistry</i> , 2002 , 13, 122-7	6.3	188
856	In vivo silencing of the transcription factor IRF5 reprograms the macrophage phenotype and improves infarct healing. <i>Journal of the American College of Cardiology</i> , 2014 , 63, 1556-66	15.1	187
855	In vivo tracking of neural progenitor cell migration to glioblastomas. <i>Human Gene Therapy</i> , 2003 , 14, 1247-54	4.8	187
854	Magnetic nanoparticles for MR imaging: agents, techniques and cardiovascular applications. <i>Basic Research in Cardiology</i> , 2008 , 103, 122-30	11.8	186
853	Interleukin-3 amplifies acute inflammation and is a potential therapeutic target in sepsis. <i>Science</i> , 2015 , 347, 1260-5	33.3	183

852	Development of a bioorthogonal and highly efficient conjugation method for quantum dots using tetrazine-norbornene cycloaddition. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7838-9	16.4	183
851	COVID-19 diagnostics in context. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	182
850	Cardiac macrophages promote diastolic dysfunction. <i>Journal of Experimental Medicine</i> , 2018 , 215, 423-446	16.6	182
849	Activin A promotes multiple myeloma-induced osteolysis and is a promising target for myeloma bone disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 5124-9	11.5	182
848	Preparation of a cathepsin D sensitive near-infrared fluorescence probe for imaging. <i>Bioconjugate Chemistry</i> , 1999 , 10, 892-6	6.3	182
847	Bioorthogonal reaction pairs enable simultaneous, selective, multi-target imaging. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 920-2	16.4	181
846	Targeted nanoparticles for imaging incipient pancreatic ductal adenocarcinoma. <i>PLoS Medicine</i> , 2008 , 5, e85	11.6	176
845	Molecular and cellular imaging of atherosclerosis: emerging applications. <i>Journal of the American College of Cardiology</i> , 2006 , 47, 1328-38	15.1	176
844	Ultrafluorogenic coumarin-tetrazine probes for real-time biological imaging. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7531-4	16.4	175
843	In vivo imaging in cancer. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010 , 2, a003848	10.2	175
842	A new macromolecule as a contrast agent for MR angiography: preparation, properties, and animal studies. <i>Radiology</i> , 1993 , 187, 701-6	20.5	175
841	Evolution of macromolecular complexity in drug delivery systems. <i>Nature Reviews Chemistry</i> , 2017 , 1,	34.6	174
840	MR imaging and scintigraphy of gene expression through melanin induction. <i>Radiology</i> , 1997 , 204, 425-92	20.5	174
839	Molecular imaging of cardiovascular disease. <i>Circulation</i> , 2007 , 116, 1052-61	16.7	173
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