

# Lai Guan Ng

## List of Publications by Year in descending order

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Version: 2024-02-01

127  
papers

24,126  
citations

18482

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16650

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131  
docs citations

131  
times ranked

36677  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fate Mapping Analysis Reveals That Adult Microglia Derive from Primitive Macrophages. <i>Science</i> , 2010, 330, 841-845.	12.6	3,920
2	Dimensionality reduction for visualizing single-cell data using UMAP. <i>Nature Biotechnology</i> , 2019, 37, 38-44.	17.5	3,254
3	The gut microbiota influences blood-brain barrier permeability in mice. <i>Science Translational Medicine</i> , 2014, 6, 263ra158.	12.4	1,589
4	C-Myb+ Erythro-Myeloid Progenitor-Derived Fetal Monocytes Give Rise to Adult Tissue-Resident Macrophages. <i>Immunity</i> , 2015, 42, 665-678.	14.3	847
5	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). <i>European Journal of Immunology</i> , 2019, 49, 1457-1973.	2.9	766
6	IRF4 Transcription Factor-Dependent CD11b+ Dendritic Cells in Human and Mouse Control Mucosal IL-17 Cytokine Responses. <i>Immunity</i> , 2013, 38, 970-983.	14.3	703
7	Two distinct interstitial macrophage populations coexist across tissues in specific subtissular niches. <i>Science</i> , 2019, 363, .	12.6	676
8	Elevated Calprotectin and Abnormal Myeloid Cell Subsets Discriminate Severe from Mild COVID-19. <i>Cell</i> , 2020, 182, 1401-1418.e18.	28.9	663
9	Adult Langerhans cells derive predominantly from embryonic fetal liver monocytes with a minor contribution of yolk sac-derived macrophages. <i>Journal of Experimental Medicine</i> , 2012, 209, 1167-1181.	8.5	639
10	Developmental Analysis of Bone Marrow Neutrophils Reveals Populations Specialized in Expansion, Trafficking, and Effector Functions. <i>Immunity</i> , 2018, 48, 364-379.e8.	14.3	450
11	B Cell-Activating Factor Belonging to the TNF Family (BAFF)-R Is the Principal BAFF Receptor Facilitating BAFF Costimulation of Circulating T and B Cells. <i>Journal of Immunology</i> , 2004, 173, 807-817.	0.8	436
12	Heterogeneity of neutrophils. <i>Nature Reviews Immunology</i> , 2019, 19, 255-265.	22.7	416
13	Fate Mapping via Ms4a3-Expression History Traces Monocyte-Derived Cells. <i>Cell</i> , 2019, 178, 1509-1525.e19.	28.9	361
14	A Network of Macrophages Supports Mitochondrial Homeostasis in the Heart. <i>Cell</i> , 2020, 183, 94-109.e23.	28.9	360
15	Deciphering human macrophage development at single-cell resolution. <i>Nature</i> , 2020, 582, 571-576.	27.8	279
16	A Neutrophil Timer Coordinates Immune Defense and Vascular Protection. <i>Immunity</i> , 2019, 50, 390-402.e10.	14.3	258
17	Ultrabright Organic Dots with Aggregation-Induced Emission Characteristics for Real-Time Two-Photon Intravital Vasculature Imaging. <i>Advanced Materials</i> , 2013, 25, 6083-6088.	21.0	255
18	Cutaneous immunosurveillance by self-renewing dermal $\gamma\delta$ T cells. <i>Journal of Experimental Medicine</i> , 2011, 208, 505-518.	8.5	248

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19	Co-option of Neutrophil Fates by Tissue Environments. <i>Cell</i> , 2020, 183, 1282-1297.e18.	28.9	246
20	Induced-Pluripotent-Stem-Cell-Derived Primitive Macrophages Provide a Platform for Modeling Tissue-Resident Macrophage Differentiation and Function. <i>Immunity</i> , 2017, 47, 183-198.e6.	14.3	245
21	Perivascular macrophages mediate neutrophil recruitment during bacterial skin infection. <i>Nature Immunology</i> , 2014, 15, 45-53.	14.5	242
22	DC mobilization from the skin requires docking to immobilized CCL21 on lymphatic endothelium and intralymphatic crawling. <i>Journal of Experimental Medicine</i> , 2011, 208, 2141-2153.	8.5	235
23	Hyaluronan Receptor LYVE-1-Expressing Macrophages Maintain Arterial Tone through Hyaluronan-Mediated Regulation of Smooth Muscle Cell Collagen. <i>Immunity</i> , 2018, 49, 326-341.e7.	14.3	235
24	B Cell-Activating Factor Belonging to the TNF Family Acts through Separate Receptors to Support B Cell Survival and T Cell-Independent Antibody Formation. <i>Journal of Immunology</i> , 2004, 173, 2331-2341.	0.8	230
25	Migratory Dermal Dendritic Cells Act as Rapid Sensors of Protozoan Parasites. <i>PLoS Pathogens</i> , 2008, 4, e1000222.	4.7	213
26	Biocompatible Nanoparticles Based on Diketoâ€Pyrroloâ€Pyrrole (DPP) with Aggregationâ€Induced Red/NIR Emission for In Vivo Twoâ€Photon Fluorescence Imaging. <i>Advanced Functional Materials</i> , 2015, 25, 2857-2866.	14.9	213
27	Perivascular leukocyte clusters are essential for efficient activation of effector T cells in the skin. <i>Nature Immunology</i> , 2014, 15, 1064-1069.	14.5	211
28	Random migration precedes stable target cell interactions of tumor-infiltrating T cells. <i>Journal of Experimental Medicine</i> , 2006, 203, 2749-2761.	8.5	201
29	Neutrophils instruct homeostatic and pathological states in naive tissues. <i>Journal of Experimental Medicine</i> , 2018, 215, 2778-2795.	8.5	200
30	Guidelines for the use of flow cytometry and cell sorting in immunological studies (third edition). <i>European Journal of Immunology</i> , 2021, 51, 2708-3145.	2.9	198
31	Neutrophil mobilization via plerixafor-mediated CXCR4 inhibition arises from lung demargination and blockade of neutrophil homing to the bone marrow. <i>Journal of Experimental Medicine</i> , 2013, 210, 2321-2336.	8.5	190
32	Patients with COVID-19: in the dark-NETs of neutrophils. <i>Cell Death and Differentiation</i> , 2021, 28, 3125-3139.	11.2	189
33	Visualizing the Neutrophil Response to Sterile Tissue Injury in Mouse Dermis Reveals a Three-Phase Cascade of Events. <i>Journal of Investigative Dermatology</i> , 2011, 131, 2058-2068.	0.7	187
34	Polymerization-Enhanced Two-Photon Photosensitization for Precise Photodynamic Therapy. <i>ACS Nano</i> , 2019, 13, 3095-3105.	14.6	182
35	A Liver Capsular Network of Monocyte-Derived Macrophages Restricts Hepatic Dissemination of Intraperitoneal Bacteria by Neutrophil Recruitment. <i>Immunity</i> , 2017, 47, 374-388.e6.	14.3	171
36	Intravital multiphoton imaging of immune responses in the mouse ear skin. <i>Nature Protocols</i> , 2012, 7, 221-234.	12.0	162

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37	Plasmodium vivax: restricted tropism and rapid remodeling of CD71-positive reticulocytes. <i>Blood</i> , 2015, 125, 1314-1324.	1.4	157
38	TNF Deficiency Fails to Protect BAFF Transgenic Mice against Autoimmunity and Reveals a Predisposition to B Cell Lymphoma. <i>Journal of Immunology</i> , 2004, 172, 812-822.	0.8	154
39	Combinatorial Single-Cell Analyses of Granulocyte-Monocyte Progenitor Heterogeneity Reveals an Early Uni-potent Neutrophil Progenitor. <i>Immunity</i> , 2020, 53, 303-318.e5.	14.3	153
40	Langerhans cells are precommitted to immune tolerance induction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18049-18054.	7.1	150
41	The methyltransferase Ezh2 controls cell adhesion and migration through direct methylation of the extranuclear regulatory protein talin. <i>Nature Immunology</i> , 2015, 16, 505-516.	14.5	144
42	The BAFF/APRIL system: life beyond B lymphocytes. <i>Molecular Immunology</i> , 2005, 42, 763-772.	2.2	141
43	Whole blood immunophenotyping uncovers immature neutrophil-to-VD2 T-cell ratio as an early marker for severe COVID-19. <i>Nature Communications</i> , 2020, 11, 5243.	12.8	138
44	Nanocrystallization: A Unique Approach to Yield Bright Organic Nanocrystals for Biological Applications. <i>Advanced Materials</i> , 2017, 29, 1604100.	21.0	126
45	BAFF Augments Certain Th1-Associated Inflammatory Responses. <i>Journal of Immunology</i> , 2005, 174, 5537-5544.	0.8	124
46	Neutrophils contribute to inflammatory lymphangiogenesis by increasing VEGF-A bioavailability and secreting VEGF-D. <i>Blood</i> , 2013, 122, 3666-3677.	1.4	118
47	A Three-Dimensional Atlas of Human Dermal Leukocytes, Lymphatics, and Blood Vessels. <i>Journal of Investigative Dermatology</i> , 2014, 134, 965-974.	0.7	111
48	CXCR4 identifies transitional bone marrow premonocytes that replenish the mature monocyte pool for peripheral responses. <i>Journal of Experimental Medicine</i> , 2016, 213, 2293-2314.	8.5	108
49	Dynamic Imaging of CD8+ T Cells and Dendritic Cells during Infection with <i>Toxoplasma gondii</i> . <i>PLoS Pathogens</i> , 2009, 5, e1000505.	4.7	107
50	A subset of Kupffer cells regulates metabolism through the expression of CD36. <i>Immunity</i> , 2021, 54, 2101-2116.e6.	14.3	99
51	Efficient Red/Near-Infrared Fluorophores Based on Benzo[1,2,4,5-tetraoxido]dithiophene 1,1,5,5-tetraoxide for Targeted Photodynamic Therapy and In Vivo Two-Photon Fluorescence Bioimaging. <i>Advanced Functional Materials</i> , 2018, 28, 1706945.	14.9	96
52	NIR-Excited Intravital Two-Photon Microscopy Distinguishes Deep Cerebral and Tumor Vasculatures with an Ultrabright NIR-AIE Luminogen. <i>Advanced Materials</i> , 2019, 31, e1904447.	21.0	93
53	Biocompatible Green and Red Fluorescent Organic Dots with Remarkably Large Two-Photon Action Cross Sections for Targeted Cellular Imaging and Real-Time Intravital Blood Vascular Visualization. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 14965-14974.	8.0	86
54	CD44 Mediates Successful Interstitial Navigation by Killer T Cells and Enables Efficient Antitumor Immunity. <i>Immunity</i> , 2008, 29, 971-985.	14.3	85

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55	NIR-Excitable Conjugated Polymer Dots with Bright NIR-Emission for Deep In Vivo Two-Photon Brain Imaging Through Intact Skull. <i>Advanced Functional Materials</i> , 2019, 29, 1808365.	14.9	80
56	Capturing the Fantastic Voyage of Monocytes Through Time and Space. <i>Frontiers in Immunology</i> , 2019, 10, 834.	4.8	80
57	Red Emissive Biocompatible Nanoparticles from Tetraphenylethene-Decorated BODIPY Luminogens for Two-Photon Excited Fluorescence Cellular Imaging and Mouse Brain Blood Vascular Visualization. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 481-491.	2.3	78
58	Silole-Based Red Fluorescent Organic Dots for Bright Two-Photon Fluorescence In vitro Cell and In vivo Blood Vessel Imaging. <i>Small</i> , 2016, 12, 782-792.	10.0	74
59	BAFF costimulation of Toll-like receptor-activated B-1 cells. <i>European Journal of Immunology</i> , 2006, 36, 1837-1846.	2.9	73
60	Development of nephritis but not sialadenitis in autoimmune-prone BAFF transgenic mice lacking marginal zone B cells. <i>European Journal of Immunology</i> , 2006, 36, 2504-2514.	2.9	69
61	Granulopoiesis and Neutrophil Homeostasis: A Metabolic, Daily Balancing Act. <i>Trends in Immunology</i> , 2019, 40, 598-612.	6.8	67
62	Micelle/Silica Co-protected Conjugated Polymer Nanoparticles for Two-Photon Excited Brain Vascular Imaging. <i>Chemistry of Materials</i> , 2014, 26, 1874-1880.	6.7	65
63	A Small-Molecule FRET Reporter for the Real-Time Visualization of Cell-Surface Proteolytic Enzyme Functions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14357-14362.	13.8	63
64	Neutrophils Self-Regulate Immune Complex-Mediated Cutaneous Inflammation through CXCL2. <i>Journal of Investigative Dermatology</i> , 2016, 136, 416-424.	0.7	62
65	PD-L1 expression on nonclassical monocytes reveals their origin and immunoregulatory function. <i>Science Immunology</i> , 2019, 4, .	11.9	60
66	Dengue virus-elicited tryptase induces endothelial permeability and shock. <i>Journal of Clinical Investigation</i> , 2019, 129, 4180-4193.	8.2	60
67	In Vivo Three-Photon Imaging of Lipids using Ultrabright Fluorogens with Aggregation-Induced Emission. <i>Advanced Materials</i> , 2021, 33, e2007490.	21.0	58
68	Bright AIEgen-Protein Hybrid Nanocomposite for Deep and High-Resolution In Vivo Two-Photon Brain Imaging. <i>Advanced Functional Materials</i> , 2019, 29, 1902717.	14.9	56
69	MAP3K2-regulated intestinal stromal cells define a distinct stem cell niche. <i>Nature</i> , 2021, 592, 606-610.	27.8	53
70	Behavioural immune landscapes of inflammation. <i>Nature</i> , 2022, 601, 415-421.	27.8	53
71	Visualizing dendritic cell migration within the skin. <i>Histochemistry and Cell Biology</i> , 2008, 130, 1131-1146.	1.7	52
72	A Subset of Type I Conventional Dendritic Cells Controls Cutaneous Bacterial Infections through VEGF $\beta$ -Mediated Recruitment of Neutrophils. <i>Immunity</i> , 2019, 50, 1069-1083.e8.	14.3	50

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73	Silica shelled and block copolymer encapsulated red-emissive AIE nanoparticles with 50% quantum yield for two-photon excited vascular imaging. <i>Chemical Communications</i> , 2015, 51, 13416-13419.	4.1	45
74	3-Dimensional Optical Clearing and Imaging of Pruritic Atopic Dermatitis and Psoriasis Skin Reveals Downregulation of Epidermal Innervation. <i>Journal of Investigative Dermatology</i> , 2019, 139, 1201-1204.	0.7	39
75	Lung endothelial cell antigen cross-presentation to CD8+T cells drives malaria-associated lung injury. <i>Nature Communications</i> , 2019, 10, 4241.	12.8	36
76	Dual modal ultra-bright nanodots with aggregation-induced emission and gadolinium-chelation for vascular integrity and leakage detection. <i>Biomaterials</i> , 2018, 152, 77-85.	11.4	34
77	Two-photon imaging of effector T cell behavior: lessons from a tumor model. <i>Immunological Reviews</i> , 2008, 221, 147-162.	6.0	33
78	Tumor stroma and chemokines control T-cell migration into melanoma following Temozolomide treatment. <i>Oncotarget</i> , 2015, 4, e978709.	4.6	33
79	Polymeric nanorods with aggregation-induced emission characteristics for enhanced cancer targeting and imaging. <i>Nanoscale</i> , 2018, 10, 5869-5874.	5.6	32
80	In vivo label-free functional photoacoustic monitoring of ischemic reperfusion. <i>Journal of Biophotonics</i> , 2019, 12, e201800454.	2.3	31
81	A quantitative approach to histopathological dissection of elastin-related disorders using multiphoton microscopy. <i>British Journal of Dermatology</i> , 2013, 169, 869-879.	1.5	29
82	Anti-Allergic Inflammatory Activity of Interleukin-37 Is Mediated by Novel Signaling Cascades in Human Eosinophils. <i>Frontiers in Immunology</i> , 2018, 9, 1445.	4.8	29
83	Resident macrophages restrain pathological adipose tissue remodeling and protect vascular integrity in obese mice. <i>EMBO Reports</i> , 2021, 22, e52835.	4.5	28
84	In vivo Imaging of Cutaneous T-Cell Lymphoma Migration to the Skin. <i>Cancer Research</i> , 2009, 69, 2704-2708.	0.9	25
85	Efficient aortic lymphatic drainage is necessary for atherosclerosis regression induced by ezetimibe. <i>Science Advances</i> , 2020, 6, .	10.3	24
86	Peeking into the secret life of neutrophils. <i>Immunologic Research</i> , 2012, 53, 168-181.	2.9	22
87	CD8 T Cells Regulate Allergic Contact Dermatitis by Modulating CCR2-Dependent TNF/iNOS-Expressing Ly6C + CD11b + Monocytic Cells. <i>Journal of Investigative Dermatology</i> , 2014, 134, 666-676.	0.7	22
88	Reverse-engineering flow-cytometry gating strategies for phenotypic labelling and high-performance cell sorting. <i>Bioinformatics</i> , 2019, 35, 301-308.	4.1	22
89	Organic nanoparticles with ultrahigh quantum yield and aggregation-induced emission characteristics for cellular imaging and real-time two-photon lung vasculature imaging. <i>Journal of Materials Chemistry B</i> , 2018, 6, 2630-2636.	5.8	19
90	Understanding the Murine Cutaneous Dendritic Cell Network to Improve Intradermal Vaccination Strategies. <i>Current Topics in Microbiology and Immunology</i> , 2010, 351, 1-24.	1.1	17

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91	<sc>CD41 is a reliable identification and activation marker for murine basophils in the steady state and during helminth and malarial infections. <i>European Journal of Immunology</i> , 2014, 44, 1823-1834.	2.9	16
92	CXCR4 signaling controls dendritic cell location and activation at steady state and in inflammation. <i>Blood</i> , 2021, 137, 2770-2784.	1.4	16
93	Visualization of bone marrow monocyte mobilization using <i>Cx3cr1gfp/+Flt3l <sup>Δ</sup> /i> reporter mouse by multiphoton intravital microscopy. <i>Journal of Leukocyte Biology</i> , 2015, 97, 611-619.	3.3	15
94	Glycopeptide antibiotic analogs for selective inactivation and two-photon imaging of vancomycin-resistant strains. <i>Chemical Communications</i> , 2016, 52, 4667-4670.	4.1	15
95	Targeted induction of antigen expression within dendritic cells modulates antigen-specific immunity afforded by recombinant BCG. <i>Vaccine</i> , 2011, 29, 1374-1381.	3.8	14
96	Lights, Camera, and Action: Vertebrate Skin Sets the Stage for Immune Cell Interaction with Arthropod-Vectored Pathogens. <i>Frontiers in Immunology</i> , 2013, 4, 286.	4.8	14
97	Real-Time Imaging of Dendritic Cell Responses to Sterile Tissue Injury. <i>Journal of Investigative Dermatology</i> , 2015, 135, 1181-1184.	0.7	14
98	Identification of a novel lymphoid population in the murine epidermis. <i>Scientific Reports</i> , 2015, 5, 12554.	3.3	13
99	Ezh2 Controls Skin Tolerance through Distinct Mechanisms in Different Subsets of Skin Dendritic Cells. <i>IScience</i> , 2018, 10, 23-39.	4.1	12
100	Neutrophil subsets and their differential roles in viral respiratory diseases. <i>Journal of Leukocyte Biology</i> , 2022, 111, 1159-1173.	3.3	11
101	Inducing Ischemia-reperfusion Injury in the Mouse Ear Skin for Intravital Multiphoton Imaging of Immune Responses. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	9
102	Intravital multiphoton imaging of mouse tibialis anterior muscle. <i>Intravital</i> , 2016, 5, e1156272.	2.0	9
103	The impact of ischemia-reperfusion injuries on skin resident murine dendritic cells. <i>European Journal of Immunology</i> , 2018, 48, 1014-1019.	2.9	9
104	Illuminating the covert mission of mononuclear phagocytes in their regional niches. <i>Current Opinion in Immunology</i> , 2018, 50, 94-101.	5.5	9
105	Transitional premonocytes emerge in the periphery for host defense against bacterial infections. <i>Science Advances</i> , 2022, 8, eabj4641.	10.3	9
106	Rodent Plasmodium-infected red blood cells: Imaging their fates and interactions within their hosts. <i>Parasitology International</i> , 2014, 63, 187-194.	1.3	8
107	Streamlining volumetric multi-channel image cytometry using hue-saturation-brightness-based surface creation. <i>Communications Biology</i> , 2018, 1, 136.	4.4	8
108	Neutrophils in cancer—unresolved questions. <i>Science China Life Sciences</i> , 2021, 64, 1829-1841.	4.9	8

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109	Neutrophils guide pre-existing matrix into injured organs to initiate tissue repair. <i>Nature Immunology</i> , 2022, 23, 472-473.	14.5	6
110	Neutrophil: A mobile fertilizer. <i>Journal of Experimental Medicine</i> , 2019, 216, 4-6.	8.5	4
111	Imaging of Inflammatory Responses in the Mouse Ear Skin. <i>Methods in Molecular Biology</i> , 2018, 1763, 87-107.	0.9	4
112	WDR82-binding long noncoding RNA <i>lncEry</i> controls mouse erythroid differentiation and maturation. <i>Journal of Experimental Medicine</i> , 2022, 219, .	8.5	4
113	Multi-modal image cytometry approach “ From dynamic to whole organ imaging. <i>Cellular Immunology</i> , 2019, 344, 103946.	3.0	3
114	Skin“ny deeping: Uncovering immune cell behavior and function through imaging techniques*. <i>Immunological Reviews</i> , 2022, 306, 271-292.	6.0	3
115	“Cloaking“on Time: A Cover-Up Act by Resident Tissue Macrophages. <i>Cell</i> , 2019, 177, 514-516.	28.9	2
116	<i>In silico</i> modeling of cancer cell dissemination and metastasis. <i>Annals of the New York Academy of Sciences</i> , 2013, 1284, 71-74.	3.8	1
117	Nanostring Analysis of Skin Biopsies from Patients with Henoch-Sch“nlein Purpura Reveals Genes Associated with Pathology and Heterogeneity in the Disease Process. <i>Acta Dermato-Venereologica</i> , 2018, 98, 896-897.	1.3	1
118	Research Techniques Made Simple: Optical Clearing and Three-Dimensional Volumetric Imaging of Skin Biopsies. <i>Journal of Investigative Dermatology</i> , 2020, 140, 1305-1314.e1.	0.7	1
119	Reprint of “Multi-modal image cytometry approach “ From dynamic to whole organ imaging“ Cellular Immunology, 2020, 350, 104086.	3.0	1
120	Intravital Imaging of Bone Marrow Microenvironment in the Mouse Calvaria and Tibia. <i>Methods in Molecular Biology</i> , 2021, 2308, 177-202.	0.9	1
121	Intravital Multiphoton Imaging of Immune Cells. <i>Advances in Intelligent and Soft Computing</i> , 2012, , 3-16.	0.2	1
122	A chemotaxis model to explain WHIM neutrophil accumulation in the bone marrow of WHIM mouse model. <i>Blood Science</i> , 2019, 1, 102-112.	0.9	0
123	Immune imaging: Seeing the immune system in a new light. <i>Cellular Immunology</i> , 2020, 350, 104067.	3.0	0
124	Three-dimensional neuroanatomy of the intraepidermal nervous system. <i>British Journal of Dermatology</i> , 2020, 183, 174-176.	1.5	0
125	Intrafemoral Delivery of Hematopoietic Progenitors. <i>Methods in Molecular Biology</i> , 2021, 2308, 151-161.	0.9	0
126	Functional vascular imaging by Photoacoustic Microscopy (PAM) and its biomedical application. , 2019, , .		0



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127	The convergence of hematology and immunology (November 13-15; Tianjin, China). Blood Science, 2020, 2, 41-43.	0.9	0