Lai Guan Ng

List of Publications by Year
in descending order

127 papers	24,126 citations	18482 62 h-index	16650 123 g-index
131 all docs	131 docs citations	131 times ranked	36677 citing authors

#	Article	IF	Citations
1	Skinâ€ny deeping: Uncovering immune cell behavior and function through imaging techniques*. Immunological Reviews, 2022, 306, 271-292.	6.0	3
2	Neutrophil subsets and their differential roles in viral respiratory diseases. Journal of Leukocyte Biology, 2022, 111, 1159-1173.	3.3	11
3	Behavioural immune landscapes of inflammation. Nature, 2022, 601, 415-421.	27.8	53
4	Transitional premonocytes emerge in the periphery for host defense against bacterial infections. Science Advances, 2022, 8, eabj4641.	10.3	9
5	WDR82-binding long noncoding RNA lncEry controls mouse erythroid differentiation and maturation. Journal of Experimental Medicine, 2022, 219, .	8.5	4
6	Neutrophils guide pre-existing matrix into injured organs to initiate tissue repair. Nature Immunology, 2022, 23, 472-473.	14.5	6
7	Intrafemoral Delivery of Hematopoietic Progenitors. Methods in Molecular Biology, 2021, 2308, 151-161.	0.9	0
8	Neutrophils in cancerâ€”unresolved questions. Science China Life Sciences, 2021, 64, 1829-1841.	4.9	8
9	In Vivo Threeâ€Photon Imaging of Lipids using Ultrabright Fluorogens with Aggregationâ€Induced Emission. Advanced Materials, 2021, 33, e2007490.	21.0	58
10	MAP3K2-regulated intestinal stromal cells define a distinct stem cell niche. Nature, 2021, 592, 606-610.	27.8	53
11	CXCR4 signaling controls dendritic cell location and activation at steady state and in inflammation. Blood, 2021, 137, 2770-2784.	1.4	16
12	Patients with COVID-19: in the dark-NETs of neutrophils. Cell Death and Differentiation, 2021, 28, 3125-3139.	11.2	189
13	Resident macrophages restrain pathological adipose tissue remodeling and protect vascular integrity in obese mice. EMBO Reports, 2021, 22, e52835.	4.5	28
14	A subset of Kupffer cells regulates metabolism through the expression of CD36. Immunity, 2021, 54, 2101-2116.e6.	14.3	99
15	Intravital Imaging of Bone Marrow Microenvironment in the Mouse Calvaria and Tibia. Methods in Molecular Biology, 2021, 2308, 177-202.	0.9	1
16	Guidelines for the use of flow cytometry and cell sorting in immunological studies (third edition). European Journal of Immunology, 2021, 51, 2708-3145.	2.9	198
17	Whole blood immunophenotyping uncovers immature neutrophil-to-VD2 T-cell ratio as an early marker for severe COVID-19. Nature Communications, 2020, 11, 5243.	12.8	138
18	Co-option of Neutrophil Fates by Tissue Environments. Cell, 2020, 183, 1282-1297.e18.	28.9	246

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19	Elevated Calprotectin and Abnormal Myeloid Cell Subsets Discriminate Severe from Mild COVID-19. Cell, 2020, 182, 1401-1418.e18.	28.9	663
20	A Network of Macrophages Supports Mitochondrial Homeostasis in the Heart. Cell, 2020, 183, 94-109.e23.	28.9	360
21	Deciphering human macrophage development at single-cell resolution. Nature, 2020, 582, 571-576.	27.8	279
22	Research Techniques Made Simple: Optical Clearing and Three-Dimensional Volumetric Imaging of Skin Biopsies. Journal of Investigative Dermatology, 2020, 140, 1305-1314.e1.	0.7	1
23	Combinatorial Single-Cell Analyses of Granulocyte-Monocyte Progenitor Heterogeneity Reveals an Early Uni-potent Neutrophil Progenitor. Immunity, 2020, 53, 303-318.e5.	14.3	153
24	Reprint of â€œMulti-modal image cytometry approach â€“ From dynamic to whole organ imagingâ€• Cellular Immunology, 2020, 350, 104086.	3.0	1
25	Immune imaging: Seeing the immune system in a new light. Cellular Immunology, 2020, 350, 104067.	3.0	0
26	Threeâ€dimensional neuroanatomy of the intraepidermal nervous system. British Journal of Dermatology, 2020, 183, 174-176.	1.5	0
27	Efficient aortic lymphatic drainage is necessary for atherosclerosis regression induced by ezetimibe. Science Advances, 2020, 6, .	10.3	24
28	The convergence of hematology and immunology (November 13â€“15; Tianjin, China). Blood Science, 2020, 2, 41-43.	0.9	0
29	Reverse-engineering flow-cytometry gating strategies for phenotypic labelling and high-performance cell sorting. Bioinformatics, 2019, 35, 301-308.	4.1	22
30	Multi-modal image cytometry approach â€“ From dynamic to whole organ imaging. Cellular Immunology, 2019, 344, 103946.	3.0	3
31	NIRâ€IIâ€Excited Intravital Twoâ€Photon Microscopy Distinguishes Deep Cerebral and Tumor Vasculatures with an Ultrabright NIRâ€I AIE Luminogen. Advanced Materials, 2019, 31, e1904447.	21.0	93
32	Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition). European Journal of Immunology, 2019, 49, 1457-1973.	2.9	766
33	Fate Mapping via Ms4a3-Expression History Traces Monocyte-Derived Cells. Cell, 2019, 178, 1509-1525.e19.	28.9	361
34	Lung endothelial cell antigen cross-presentation to CD8+T cells drives malaria-associated lung injury. Nature Communications, 2019, 10, 4241.	12.8	36
35	NIRâ€II Excitable Conjugated Polymer Dots with Bright NIRâ€I Emission for Deep In Vivo Twoâ€Photon Brain Imaging Through Intact Skull. Advanced Functional Materials, 2019, 29, 1808365.	14.9	80
36	A Neutrophil Timer Coordinates Immune Defense and Vascular Protection. Immunity, 2019, 50, 390-402.e10.	14.3	258

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37	Bright AIEgenâ€“Protein Hybrid Nanocomposite for Deep and Highâ€Resolution In Vivo Twoâ€Photon Brain Imaging. Advanced Functional Materials, 2019, 29, 1902717.	14.9	56
38	PD-L1 expression on nonclassical monocytes reveals their origin and immunoregulatory function. Science Immunology, 2019, 4, .	11.9	60
39	Granulopoiesis and Neutrophil Homeostasis: A Metabolic, Daily Balancing Act. Trends in Immunology, 2019, 40, 598-612.	6.8	67
40	â€œCloakingâ€•on Time: A Cover-Up Act by Resident Tissue Macrophages. Cell, 2019, 177, 514-516.	28.9	2
41	Capturing the Fantastic Voyage of Monocytes Through Time and Space. Frontiers in Immunology, 2019, 10, 834.	4.8	80
42	In vivo labelâ€free functional photoacoustic monitoring of ischemic reperfusion. Journal of Biophotonics, 2019, 12, e201800454.	2.3	31
43	Two distinct interstitial macrophage populations coexist across tissues in specific subtissular niches. Science, 2019, 363, .	12.6	676
44	A Subset of Type I Conventional Dendritic Cells Controls Cutaneous Bacterial Infections through VEGFÎ±-Mediated Recruitment of Neutrophils. Immunity, 2019, 50, 1069-1083.e8.	14.3	50
45	3-Dimensional Optical Clearing and Imaging of Pruritic Atopic Dermatitis and Psoriasis Skin RevealsÂDownregulation of Epidermal Innervation. Journal of Investigative Dermatology, 2019, 139, 1201-1204.	0.7	39
46	Heterogeneity of neutrophils. Nature Reviews Immunology, 2019, 19, 255-265.	22.7	416
47	Polymerization-Enhanced Two-Photon Photosensitization for Precise Photodynamic Therapy. ACS Nano, 2019, 13, 3095-3105.	14.6	182
48	A chemotaxis model to explain WHIM neutrophil accumulation in the bone marrow of WHIM mouse model. Blood Science, 2019, 1, 102-112.	0.9	0
49	Neutrophil: A mobile fertilizer. Journal of Experimental Medicine, 2019, 216, 4-6.	8.5	4
50	Dimensionality reduction for visualizing single-cell data using UMAP. Nature Biotechnology, 2019, 37, 38-44.	17.5	3,254
51	Dengue virusâ€“elicited tryptase induces endothelial permeability and shock. Journal of Clinical Investigation, 2019, 129, 4180-4193.	8.2	60
52	Functional vascular imaging by Photoacoustic Microscopy (PAM) and its biomedical application. , 2019, , .		0
53	Developmental Analysis of Bone Marrow Neutrophils Reveals Populations Specialized in Expansion, Trafficking, and Effector Functions. Immunity, 2018, 48, 364-379.e8.	14.3	450
54	The impact of ischemiaâ€reperfusion injuries on skin resident murine dendritic cells. European Journal of Immunology, 2018, 48, 1014-1019.	2.9	9

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55	Polymeric nanorods with aggregation-induced emission characteristics for enhanced cancer targeting and imaging. Nanoscale, 2018, 10, 5869-5874.	5.6	32
56	Organic nanoparticles with ultrahigh quantum yield and aggregation-induced emission characteristics for cellular imaging and real-time two-photon lung vasculature imaging. Journal of Materials Chemistry B, 2018, 6, 2630-2636.	5.8	19
57	Efficient Red/Nearâ€Infrared Fluorophores Based on Benzo[1,2â€b:4,5â€bâ€²]dithiophene 1,1,5,5â€Tetraoxide for Targeted Photodynamic Therapy and In Vivo Twoâ€Photon Fluorescence Bioimaging. Advanced Functional Materials, 2018, 28, 1706945.	14.9	96
58	Illuminating the covert mission of mononuclear phagocytes in their regional niches. Current Opinion in Immunology, 2018, 50, 94-101.	5.5	9
59	Dual modal ultra-bright nanodots with aggregation-induced emission and gadolinium-chelation for vascular integrity and leakage detection. Biomaterials, 2018, 152, 77-85.	11.4	34
60	Ezh2 Controls Skin Tolerance through Distinct Mechanisms in Different Subsets of Skin Dendritic Cells. IScience, 2018, 10, 23-39.	4.1	12
61	Streamlining volumetric multi-channel image cytometry using hue-saturation-brightness-based surface creation. Communications Biology, 2018, 1, 136.	4.4	8
62	Neutrophils instruct homeostatic and pathological states in naive tissues. Journal of Experimental Medicine, 2018, 215, 2778-2795.	8.5	200
63	Nanostring Analysis of Skin Biopsies from Patients with Henoch-SchÃ¶nlein Purpura Reveals Genes Associated with Pathology and Heterogeneity in the Disease Process. Acta Dermato-Venereologica, 2018, 98, 896-897.	1.3	1
64	Hyaluronan Receptor LYVE-1-Expressing Macrophages Maintain Arterial Tone through Hyaluronan-Mediated Regulation of Smooth Muscle Cell Collagen. Immunity, 2018, 49, 326-341.e7.	14.3	235
65	Anti-Allergic Inflammatory Activity of Interleukin-37 Is Mediated by Novel Signaling Cascades in Human Eosinophils. Frontiers in Immunology, 2018, 9, 1445.	4.8	29
66	Imaging of Inflammatory Responses in the Mouse Ear Skin. Methods in Molecular Biology, 2018, 1763, 87-107.	0.9	4
67	Induced-Pluripotent-Stem-Cell-Derived Primitive Macrophages Provide a Platform for Modeling Tissue-Resident Macrophage Differentiation and Function. Immunity, 2017, 47, 183-198.e6.	14.3	245
68	A Liver Capsular Network of Monocyte-Derived Macrophages Restricts Hepatic Dissemination of Intraperitoneal Bacteria by Neutrophil Recruitment. Immunity, 2017, 47, 374-388.e6.	14.3	171
69	Nanocrystallization: A Unique Approach to Yield Bright Organic Nanocrystals for Biological Applications. Advanced Materials, 2017, 29, 1604100.	21.0	126
70	Siloleâ€Based Red Fluorescent Organic Dots for Bright Twoâ€Photon Fluorescence In vitro Cell and In vivo Blood Vessel Imaging. Small, 2016, 12, 782-792.	10.0	74
71	CXCR4 identifies transitional bone marrow premonocytes that replenish the mature monocyte pool for peripheral responses. Journal of Experimental Medicine, 2016, 213, 2293-2314.	8.5	108
72	Inducing Ischemia-reperfusion Injury in the Mouse Ear Skin for Intravital Multiphoton Imaging of Immune Responses. Journal of Visualized Experiments, 2016, , .	0.3	9

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73	Intravital multiphoton imaging of mouse tibialis anterior muscle. Intravital, 2016, 5, e1156272.	2.0	9
74	Glycopeptide antibiotic analogs for selective inactivation and two-photon imaging of vancomycin-resistant strains. Chemical Communications, 2016, 52, 4667-4670.	4.1	15
75	Neutrophils Self-Regulate Immune Complex-Mediated Cutaneous Inflammation through CXCL2. Journal of Investigative Dermatology, 2016, 136, 416-424.	0.7	62
76	Identification of a novel lymphoid population in the murine epidermis. Scientific Reports, 2015, 5, 12554.	3.3	13
77	Plasmodium vivax: restricted tropism and rapid remodeling of CD71-positive reticulocytes. Blood, 2015, 125, 1314-1324.	1.4	157
78	Tumor stroma and chemokines control T-cell migration into melanoma following Temozolomide treatment. OncoImmunology, 2015, 4, e978709.	4.6	33
79	Visualization of bone marrow monocyte mobilization using Cx3cr1gfp/+Flt3Lâ˜'/â˜' reporter mouse by multiphoton intravital microscopy. Journal of Leukocyte Biology, 2015, 97, 611-619.	3.3	15
80	The methyltransferase Ezh2 controls cell adhesion and migration through direct methylation of the extranuclear regulatory protein talin. Nature Immunology, 2015, 16, 505-516.	14.5	144
81	Real-Time Imaging of Dendritic Cell Responses to Sterile Tissue Injury. Journal of Investigative Dermatology, 2015, 135, 1181-1184.	0.7	14
82	Silica shelled and block copolymer encapsulated red-emissive AIE nanoparticles with 50% quantum yield for two-photon excited vascular imaging. Chemical Communications, 2015, 51, 13416-13419.	4.1	45
83	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. ACS Applied Materials & Interfaces, 2015, 7, 14965-14974.	8.0	86
84	C-Myb+ Erythro-Myeloid Progenitor-Derived Fetal Monocytes Give Rise to Adult Tissue-Resident Macrophages. Immunity, 2015, 42, 665-678.	14.3	847
85	Biocompatible Nanoparticles Based on Diketoâ€Pyrroloâ€Pyrrole (DPP) with Aggregationâ€Induced Red/NIR Emission for In Vivo Twoâ€Photon Fluorescence Imaging. Advanced Functional Materials, 2015, 25, 2857-2866.	14.9	213
86	The gut microbiota influences blood-brain barrier permeability in mice. Science Translational Medicine, 2014, 6, 263ra158.	12.4	1,589
87	A Three-Dimensional Atlas of Human Dermal Leukocytes, Lymphatics, and Blood Vessels. Journal of Investigative Dermatology, 2014, 134, 965-974.	0.7	111
88	A Smallâ€Molecule FRET Reporter for the Realâ€Time Visualization of Cellâ€Surface Proteolytic Enzyme Functions. Angewandte Chemie - International Edition, 2014, 53, 14357-14362.	13.8	63
89	<scp>CD</scp>41 is a reliable identification and activation marker for murine basophils in the steady state and during helminth and malarial infections. European Journal of Immunology, 2014, 44, 1823-1834.	2.9	16
90	Rodent Plasmodium-infected red blood cells: Imaging their fates and interactions within their hosts. Parasitology International, 2014, 63, 187-194.	1.3	8

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91	Perivascular macrophages mediate neutrophil recruitment during bacterial skin infection. Nature Immunology, 2014, 15, 45-53.	14.5	242
92	Red Emissive Biocompatible Nanoparticles from Tetraphenyletheneâ€Decorated BODIPY Luminogens for Twoâ€Photon Excited Fluorescence Cellular Imaging and Mouse Brain Blood Vascular Visualization. Particle and Particle Systems Characterization, 2014, 31, 481-491.	2.3	78
93	Perivascular leukocyte clusters are essential for efficient activation of effector T cells in the skin. Nature Immunology, 2014, 15, 1064-1069.	14.5	211
94	CD8 T Cells Regulate Allergic Contact Dermatitis by Modulating CCR2â€“Dependent TNF/iNOSâ€“Expressing Ly6C + CD11b + Monocytic Cells. Journal of Investigative Dermatology, 2014, 134, 666-676.	0.7	22
95	Micelle/Silica Co-protected Conjugated Polymer Nanoparticles for Two-Photon Excited Brain Vascular Imaging. Chemistry of Materials, 2014, 26, 1874-1880.	6.7	65
96	IRF4 Transcription Factor-Dependent CD11b+ Dendritic Cells in Human and Mouse Control Mucosal IL-17 Cytokine Responses. Immunity, 2013, 38, 970-983.	14.3	703
97	Ultrabright Organic Dots with Aggregationâ€Induced Emission Characteristics for Realâ€Time Twoâ€Photon Intravital Vasculature Imaging. Advanced Materials, 2013, 25, 6083-6088.	21.0	255
98	Lights, Camera, and Action: Vertebrate Skin Sets the Stage for Immune Cell Interaction with Arthropod-Vectored Pathogens. Frontiers in Immunology, 2013, 4, 286.	4.8	14
99	A quantitative approach to histopathological dissection of elastin-related disorders using multiphoton microscopy. British Journal of Dermatology, 2013, 169, 869-879.	1.5	29
100	In silico modeling of cancer cell dissemination and metastasis. Annals of the New York Academy of Sciences, 2013, 1284, 71-74.	3.8	1
101	Neutrophil mobilization via plerixafor-mediated CXCR4 inhibition arises from lung demargination and blockade of neutrophil homing to the bone marrow. Journal of Experimental Medicine, 2013, 210, 2321-2336.	8.5	190
102	Neutrophils contribute to inflammatory lymphangiogenesis by increasing VEGF-A bioavailability and secreting VEGF-D. Blood, 2013, 122, 3666-3677.	1.4	118
103	Adult Langerhans cells derive predominantly from embryonic fetal liver monocytes with a minor contribution of yolk sacâ€“derived macrophages. Journal of Experimental Medicine, 2012, 209, 1167-1181.	8.5	639
104	Intravital multiphoton imaging of immune responses in the mouse ear skin. Nature Protocols, 2012, 7, 221-234.	12.0	162
105	Peeking into the secret life of neutrophils. Immunologic Research, 2012, 53, 168-181.	2.9	22
106	Intravital Multiphoton Imaging of Immune Cells. Advances in Intelligent and Soft Computing, 2012, , 3-16.	0.2	1
107	Visualizing the Neutrophil Response to Sterile Tissue Injury in Mouse Dermis Reveals a Three-Phase Cascade of Events. Journal of Investigative Dermatology, 2011, 131, 2058-2068.	0.7	187
108	Targeted induction of antigen expression within dendritic cells modulates antigen-specific immunity afforded by recombinant BCG. Vaccine, 2011, 29, 1374-1381.	3.8	14

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109	DC mobilization from the skin requires docking to immobilized CCL21 on lymphatic endothelium and intralymphatic crawling. Journal of Experimental Medicine, 2011, 208, 2141-2153.	8.5	235
110	Cutaneous immunosurveillance by self-renewing dermal Î³Î´ T cells. Journal of Experimental Medicine, 2011, 208, 505-518.	8.5	248
111	Langerhans cells are precommitted to immune tolerance induction. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18049-18054.	7.1	150
112	Understanding the Murine Cutaneous Dendritic Cell Network to Improve Intradermal Vaccination Strategies. Current Topics in Microbiology and Immunology, 2010, 351, 1-24.	1.1	17
113	Fate Mapping Analysis Reveals That Adult Microglia Derive from Primitive Macrophages. Science, 2010, 330, 841-845.	12.6	3,920
114	In vivo Imaging of Cutaneous T-Cell Lymphoma Migration to the Skin. Cancer Research, 2009, 69, 2704-2708.	0.9	25
115	Dynamic Imaging of CD8+ T Cells and Dendritic Cells during Infection with Toxoplasma gondii. PLoS Pathogens, 2009, 5, e1000505.	4.7	107
116	CD44 Mediates Successful Interstitial Navigation by Killer T Cells and Enables Efficient Antitumor Immunity. Immunity, 2008, 29, 971-985.	14.3	85
117	Visualizing dendritic cell migration within the skin. Histochemistry and Cell Biology, 2008, 130, 1131-1146.	1.7	52
118	Twoâ€photon imaging of effector Tâ€cell behavior: lessons from a tumor model. Immunological Reviews, 2008, 221, 147-162.	6.0	33
119	Migratory Dermal Dendritic Cells Act as Rapid Sensors of Protozoan Parasites. PLoS Pathogens, 2008, 4, e1000222.	4.7	213
120	BAFF costimulation of Toll-like receptor-activatedB-1 cells. European Journal of Immunology, 2006, 36, 1837-1846.	2.9	73
121	Development of nephritis but not sialadenitis in autoimmune-prone BAFF transgenic mice lacking marginal zone B cells. European Journal of Immunology, 2006, 36, 2504-2514.	2.9	69
122	Random migration precedes stable target cell interactions of tumor-infiltrating T cells. Journal of Experimental Medicine, 2006, 203, 2749-2761.	8.5	201
123	BAFF Augments Certain Th1-Associated Inflammatory Responses. Journal of Immunology, 2005, 174, 5537-5544.	0.8	124
124	The BAFF/APRIL system: life beyond B lymphocytes. Molecular Immunology, 2005, 42, 763-772.	2.2	141
125	B Cell-Activating Factor Belonging to the TNF Family Acts through Separate Receptors to Support B Cell Survival and T Cell-Independent Antibody Formation. Journal of Immunology, 2004, 173, 2331-2341.	0.8	230
126	TNF Deficiency Fails to Protect BAFF Transgenic Mice against Autoimmunity and Reveals a Predisposition to B Cell Lymphoma. Journal of Immunology, 2004, 172, 812-822.	0.8	154

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127	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. Journal of Immunology, 2004, 173, 807-817.	0.8	436