Kevin Dhaliwal

List of Publications by Year
in descending order

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95 papers	4,001 citations	201385 27 h-index	128067 60 g-index
102 all docs	102 docs citations	102 times ranked	6582 citing authors

#	Article	IF	Citations
1	Ventilator-Associated Pneumonia Is Characterized by Excessive Release of Neutrophil Proteases in the Lung. Chest, 2012, 142, 1425-1432.	0.4	588
2	Surface-enhanced Raman scattering in cancer detection and imaging. Trends in Biotechnology, 2013, 31, 249-257.	4.9	410
3	Ly6C^{hi}Monocytes Direct Alternatively Activated Profibrotic Macrophage Regulation of Lung Fibrosis. American Journal of Respiratory and Critical Care Medicine, 2011, 184, 569-581.	2.5	383
4	Tissue-Specific Immunopathology in Fatal COVID-19. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 192-201.	2.5	243
5	The Role of Formylated Peptides and Formyl Peptide Receptor 1 in Governing Neutrophil Function during Acute Inflammation. American Journal of Pathology, 2015, 185, 1172-1184.	1.9	191
6	Macrophage/monocyte depletion by clodronate, but not diphtheria toxin, improves renal ischemia/reperfusion injury in mice. Kidney International, 2012, 82, 928-933.	2.6	149
7	Galectin-3 Reduces the Severity of Pneumococcal Pneumonia by Augmenting Neutrophil Function. American Journal of Pathology, 2008, 172, 395-405.	1.9	132
8	Statistical Validation of the EORTC Prognostic Model for Malignant Pleural Mesothelioma Based on Three Consecutive Phase II Trials. Journal of Clinical Oncology, 2005, 23, 184-189.	0.8	104
9	Monocytes Control Second-Phase Neutrophil Emigration in Established Lipopolysaccharide-induced Murine Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2012, 186, 514-524.	2.5	104
10	C5a Mediates Peripheral Blood Neutrophil Dysfunction in Critically Ill Patients. American Journal of Respiratory and Critical Care Medicine, 2009, 180, 19-28.	2.5	103
11	Diagnostic importance of pulmonary interleukin-1Â and interleukin-8 in ventilator-associated pneumonia. Thorax, 2010, 65, 201-207.	2.7	95
12	A labelled-ubiquicidin antimicrobial peptide for immediate in situ optical detection of live bacteria in human alveolar lung tissue. Chemical Science, 2015, 6, 6971-6979.	3.7	72
13	Optical imaging of bacterial infections. Clinical and Translational Imaging, 2016, 4, 163-174.	1.1	70
14	Cyclophilin A Is a Damage-Associated Molecular Pattern Molecule That Mediates Acetaminophen-Induced Liver Injury. Journal of Immunology, 2011, 187, 3347-3352.	0.4	66
15	Novel role for endogenous mitochondrial formylated peptide-driven formyl peptide receptor 1 signalling in acute respiratory distress syndrome. Thorax, 2017, 72, 928-936.	2.7	64
16	Peptides for optical medical imaging and steps towards therapy. Bioorganic and Medicinal Chemistry, 2018, 26, 2816-2826.	1.4	59
17	In situ identification of Gram-negative bacteria in human lungs using a topical fluorescent peptide targeting lipid A. Science Translational Medicine, 2018, 10, .	5.8	59
18	Technical Advance: Autofluorescence-based sorting: rapid and nonperturbing isolation of ultrapure neutrophils to determine cytokine production. Journal of Leukocyte Biology, 2013, 94, 193-202.	1.5	50

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19	Image computing for fibre-bundle endomicroscopy: A review. Medical Image Analysis, 2020, 62, 101620.	7.0	44
20	Randomised controlled trial of intravenous nafamostat mesylate in COVID pneumonitis: Phase 1b/2a experimental study to investigate safety, Pharmacokinetics and Pharmacodynamics. EBioMedicine, 2022, 76, 103856.	2.7	38
21	Trappin-2 Promotes Early Clearance of Pseudomonas aeruginosa through CD14-Dependent Macrophage Activation and Neutrophil Recruitment. American Journal of Pathology, 2009, 174, 1338-1346.	1.9	37
22	ÂÂÂÂÂÂÂA type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDSÂÂÂ. Wellcome Open Research, 2021, 6, 38.	0.9	35
23	Heat shock protein 90 inhibition abrogates TLR4-mediated NF-ÎºB activity and reduces renal ischemia-reperfusion injury. Scientific Reports, 2015, 5, 12958.	1.6	34
24	Chronic Pleuropulmonary Fibrosis and Elastosis of Aged Donkeys. Chest, 2014, 145, 1325-1332.	0.4	33
25	Two-color widefield fluorescence microendoscopy enables multiplexed molecular imaging in the alveolar space of human lung tissue. Journal of Biomedical Optics, 2016, 21, 1.	1.4	33
26	Polymyxin-based photosensitizer for the potent and selective killing of Gram-negative bacteria. Chemical Communications, 2020, 56, 3757-3760.	2.2	31
27	Dunking doughnuts into cellsâ€"selective cellular translocation and in vivo analysis of polymeric micro-doughnuts. Chemical Communications, 2008, , 3507.	2.2	29
28	Highly specific, multi-branched fluorescent reporters for analysis of human neutrophil elastase. Organic and Biomolecular Chemistry, 2013, 11, 4414.	1.5	29
29	ÂÂÂÂÂÂÂA type I IFN, prothrombotic hyperinflammatory neutrophil signature is distinct for COVID-19 ARDSÂÂÂ. Wellcome Open Research, 2021, 6, 38.	0.9	29
30	Screening of a Combinatorial Homing Peptide Library for Selective Cellular Delivery. Angewandte Chemie - International Edition, 2011, 50, 6133-6136.	7.2	28
31	Optical molecular imaging of lysyl oxidase activity â€“ detection of active fibrogenesis in human lung tissue. Chemical Science, 2015, 6, 4946-4953.	3.7	26
32	Tissue Proteomic Analysis Identifies Mechanisms and Stages of Immunopathology in Fatal COVID-19. American Journal of Respiratory Cell and Molecular Biology, 2022, 66, 196-205.	1.4	26
33	Characterization and modelling of inter-core coupling in coherent fiber bundles. Optics Express, 2017, 25, 11932.	1.7	24
34	T cells drive negative feedback mechanisms in cancer associated fibroblasts, promoting expression of co-inhibitory ligands, CD73 and IL-27 in non-small cell lung cancer. OncoImmunology, 2021, 10, 1940675.	2.1	23
35	Enhanced avidity from a multivalent fluorescent antimicrobial peptide enables pathogen detection in a human lung model. Scientific Reports, 2019, 9, 8422.	1.6	22
36	A Randomized Controlled Trial of Peripheral Blood Mononuclear Cell Depletion in Experimental Human Lung Inflammation. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 449-455.	2.5	21

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37	Super-silent FRET Sensor Enables Live Cell Imaging and Flow Cytometric Stratification of Intracellular Serine Protease Activity in Neutrophils. Scientific Reports, 2018, 8, 13490.	1.6	20
38	Assessing the utility of autofluorescence-based pulmonary optical endomicroscopy to predict the malignant potential of solitary pulmonary nodules in humans. Scientific Reports, 2016, 6, 31372.	1.6	19
39	The Emerging Role of the c-MET-HGF Axis in Non-small Cell Lung Cancer Tumor Immunology and Immunotherapy. Frontiers in Oncology, 2020, 10, 54.	1.3	18
40	Activated neutrophil fluorescent imaging technique for human lungs. Scientific Reports, 2021, 11, 976.	1.6	18
41	Automated Detection of Uninformative Frames in Pulmonary Optical Endomicroscopy. IEEE Transactions on Biomedical Engineering, 2017, 64, 87-98.	2.5	17
42	Low-cost high sensitivity pulsed endomicroscopy to visualize tricolor optical signatures. Journal of Biomedical Optics, 2018, 23, 1.	1.4	17
43	Solitary pulmonary nodule imaging approaches and the role of optical fibre-based technologies. European Respiratory Journal, 2021, 57, 2002537.	3.1	15
44	Fibre-based spectral ratio endomicroscopy for contrast enhancement of bacterial imaging and pulmonary autofluorescence. Biomedical Optics Express, 2019, 10, 1856.	1.5	15
45	Molecular detection of Gram-positive bacteria in the human lung through an optical fiberâ€“based endoscope. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 800-807.	3.3	14
46	MicroRNAâ€122 and cytokeratinâ€18 have potential as a biomarkers of drugâ€induced liver injury in European and African patients on treatment for mycobacterial infection. British Journal of Clinical Pharmacology, 2021, 87, 3206-3217.	1.1	14
47	Systematic review of studies investigating ventilator associated pneumonia diagnostics in intensive care. BMC Pulmonary Medicine, 2021, 21, 196.	0.8	14
48	Fortified interpenetrating polymers â€“ bacteria resistant coatings for medical devices. Journal of Materials Chemistry B, 2016, 4, 5405-5411.	2.9	13
49	Highly selective and rapidly activatable fluorogenic Thrombin sensors and application in human lung tissue. Organic and Biomolecular Chemistry, 2017, 15, 4344-4350.	1.5	13
50	Deconvolution and Restoration of Optical Endomicroscopy Images. IEEE Transactions on Computational Imaging, 2018, 4, 194-205.	2.6	13
51	High-speed dual color fluorescence lifetime endomicroscopy for highly-multiplexed pulmonary diagnostic applications and detection of labeled bacteria. Biomedical Optics Express, 2019, 10, 181.	1.5	13
52	Multi-modal molecular imaging approaches to detect primary cells in preclinical models. Faraday Discussions, 2011, 149, 107-114.	1.6	12
53	Bimodal fluorogenic sensing of matrix proteolytic signatures in lung cancer. Organic and Biomolecular Chemistry, 2018, 16, 8056-8063.	1.5	11
54	High fidelity fibre-based physiological sensing deep in tissue. Scientific Reports, 2019, 9, 7713.	1.6	10

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55	Core crosstalk in ordered imaging fiber bundles. Optics Letters, 2020, 45, 6490.	1.7	10
56	Risk Prediction for Poor Outcome and Death in Hospital In-Patients with COVID-19: Derivation in Wuhan, China and External Validation in London, UK. SSRN Electronic Journal, 0, , .	0.4	10
57	Far red and NIR dye-peptoid conjugates for efficient immune cell labelling and tracking in preclinical models. MedChemComm, 2011, 2, 1050.	3.5	9
58	Cerebral Concussion Primes the Lungs for Subsequent Neutrophil-Mediated Injury. Critical Care Medicine, 2018, 46, e937-e944.	0.4	9
59	Estimating Bacterial and Cellular Load in FCFM Imaging. Journal of Imaging, 2018, 4, 11.	1.7	9
60	Optical Detection of Distal Lung Enzyme Activity in Human Inflammatory Lung Disease. BME Frontiers, 2021, 2021, .	2.2	9
61	Safe and efficient in vitro and in vivogene delivery: tripodal cationic lipids with programmed biodegradability. Journal of Materials Chemistry, 2011, 21, 2154-2158.	6.7	7
62	Optical Screening of Novel Bacteria-specific Probes on Ex Vivo Human Lung Tissue by Confocal Laser Endomicroscopy. Journal of Visualized Experiments, 2017, , .	0.2	7
63	Optical Molecular Imaging of Inflammatory Cells in Interventional Medicineâ€“An Emerging Strategy. Frontiers in Oncology, 2019, 9, 882.	1.3	7
64	Deep Learning in ex-vivo Lung Cancer Discrimination using Fluorescence Lifetime Endomicroscopic Images. , 2020, 2020, 1891-1894.		7
65	Pulmonary-Resident Memory Lymphocytes: Pivotal Orchestrators of Local Immunity Against Respiratory Infections. Frontiers in Immunology, 2021, 12, 738955.	2.2	7
66	Structural modifications of the antimicrobial peptide ubiquicidin for pulmonary imaging of bacteria in the alveolar space. Lancet, The, 2016, 387, S17.	6.3	6
67	Ensemble learning for poor prognosis predictions: A case study on SARS-CoV-2. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 791-800.	2.2	6
68	Ultrafast laser ablation of a multicore polymer optical fiber for multipoint light emission. Optics Express, 2021, 29, 20765.	1.7	6
69	Frugal filtering optical lenses for point-of-care diagnostics. Biomedical Optics Express, 2020, 11, 1864.	1.5	6
70	In-situ imaging of neutrophil activation in the human alveolar space with neutrophil activation probe and pulmonary optical endomicroscopy. Lancet, The, 2016, 387, S31.	6.3	5
71	Multi-class classification of pulmonary endomicroscopic images. , 2018, , .		5
72	Bayesian bacterial detection using irregularly sampled optical endomicroscopy images. Medical Image Analysis, 2019, 57, 18-31.	7.0	5

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73	A matrix metalloproteinase activation probe for painting human tumours. Chemical Communications, 2020, 56, 9962-9965.	2.2	5
74	Design and Modelling of a Continuum Robot for Distal Lung Sampling in Mechanically Ventilated Patients in Critical Care. Frontiers in Robotics and AI, 2021, 8, 611866.	2.0	5
75	A layer-level multi-scale architecture for lung cancer classification with fluorescence lifetime imaging endomicroscopy. Neural Computing and Applications, 2022, 34, 18881-18894.	3.2	5
76	Exploratory Use of Fluorescent SmartProbes for the Rapid Detection of Microbial Isolates Causing Corneal Ulcer. American Journal of Ophthalmology, 2020, 219, 341-350.	1.7	4
77	Evaluation of new or repurposed treatments for COVID-19: protocol for the phase Ib/IIa DEFINE trial platform. BMJ Open, 2021, 11, e054442.	0.8	4
78	Sub millimetre flexible fibre probe for background and fluorescence free Raman spectroscopy. Journal of Biophotonics, 2021, 14, e202000488.	1.1	3
79	Application of a High-Content Screening Assay Utilizing Primary Human Lung Fibroblasts to Identify Antifibrotic Drugs for Rapid Repurposing in COVID-19 Patients. SLAS Discovery, 2021, 26, 1091-1106.	1.4	3
80	In vivo Thrombosis Imaging in Patients Recovering from COVID-19 and Pulmonary Embolism. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 855-856.	2.5	3
81	Texture Descriptors for Classifying Sparse, Irregularly Sampled Optical Endomicroscopy Images. Communications in Computer and Information Science, 2018, , 165-176.	0.4	3
82	Symptomatic HIV viraemia during a drug holiday: an argument against treatment interruption?. International Journal of STD and AIDS, 2004, 15, 564-565.	0.5	2
83	Development of an Alveolar Transbronchial Catheter for Concurrent Fiber Optics-Based Imaging and Fluid Delivery. Journal of Medical Devices, Transactions of the ASME, 2018, 12, .	0.4	2
84	Red-Shifted Environmental Fluorophores and Their Use for the Detection of Gram-Negative Bacteria. Chemosensors, 2021, 9, 117.	1.8	2
85	A multifunctional endoscope for imaging, fluid delivery and fluid extraction (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5		2
86	Characterising cross-coupling in coherent fibre bundles. , 2019, , .		2
87	Multiplexed fibre optic sensing in the distal lung (Conference Presentation). , 2017, , .		1
88	Estimating Bacterial Load in FCFM Imaging. Communications in Computer and Information Science, 2017, , 909-921.	0.4	1
89	Towards in vivo bacterial detection in human lung (Conference Presentation). , 2017, , .		1
90	Fibre-based ratiometric fluorescence imaging for contrast enhancement of spectrally similar signals in the lung. , 2020, , .		1

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91	Reply: The Alveolar Macrophage and Acute Respiratory Distress Syndrome: A Silent Actor?. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 500-501.	2.5	0
92	Endoscopic sensing of distal lung physiology. Journal of Physics: Conference Series, 2019, 1151, 012009.	0.3	0
93	Time-resolved single photon spectroscopy through a single optical fibre for miniaturised medical probe design. , 2018, , .		0
94	Fibroblast Activation Protein Specific Optical Imaging in Non-Small Cell Lung Cancer. Frontiers in Oncology, 2022, 12, 834350.	1.3	0
95	Selective Plane Illumination Fluorescence Endomicroscopy using a Polymer Imaging Fiber and an End-cap. , 2022, , .		0