David J Erle

List of Publications by Year
in descending order

108	12,382	30070 54	27406 106
papers	citations	h-index	g-index

133	133	133	19419
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vaccine breakthrough hypoxemic COVID-19 pneumonia in patients with auto-Abs neutralizing type I IFNs. Science Immunology, 2023, 8, .	11.9	35
2	Massively parallel analysis of human 3â€² UTRs reveals that AU-rich element length and registration predict mRNA destabilization. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	17
3	The Type 2 Asthma Mediator IL-13 Inhibits Severe Acute Respiratory Syndrome Coronavirus 2 Infection of Bronchial Epithelium. American Journal of Respiratory Cell and Molecular Biology, 2022, 66, 391-401.	2.9	34
4	Discovering dominant tumor immune archetypes in a pan-cancer census. Cell, 2022, 185, 184-203.e19.	28.9	70
5	COVID-19â€“associated Lung Microvascular Endotheliopathy: A â€œFrom the Benchâ€•Perspective. American Journal of Respiratory and Critical Care Medicine, 2022, 206, 961-972.	5.6	30
6	Mass cytometry reveals a conserved immune trajectory of recovery in hospitalized COVID-19 patients. Immunity, 2022, , .	14.3	9
7	Mapping the 17q12â€“21.1 Locus for Variants Associated with Early-Onset Asthma in African Americans. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 424-436.	5.6	16
8	Flow-Cytometric Analysis and Purification of Airway Epithelial-Cell Subsets. American Journal of Respiratory Cell and Molecular Biology, 2021, 64, 308-317.	2.9	36
9	Global absence and targeting of protective immune states in severe COVID-19. Nature, 2021, 591, 124-130.	27.8	206
10	Epithelial miR-141 regulates IL-13â€“induced airway mucus production. JCI Insight, 2021, 6, .	5.0	29
11	Tracheal aspirate RNA sequencing identifies distinct immunological features of COVID-19 ARDS. Nature Communications, 2021, 12, 5152.	12.8	47
12	Type I interferon autoantibodies are associated with systemic immune alterations in patients with COVID-19. Science Translational Medicine, 2021, 13, eabh2624.	12.4	155
13	Increased risk of severe clinical course of COVID-19 in carriers of HLA-C*04:01. EClinicalMedicine, 2021, 40, 101099.	7.1	52
14	Efficient RNP-directed Human Gene Targeting Reveals SPDEF Is Required for IL-13â€“induced Mucostasis. American Journal of Respiratory Cell and Molecular Biology, 2020, 62, 373-381.	2.9	30
15	Steps toward Cell Therapy for Cystic Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2020, 63, 275-276.	2.9	3
16	Androgen Signaling Regulates SARS-CoV-2 Receptor Levels and Is Associated with Severe COVID-19 Symptoms in Men. Cell Stem Cell, 2020, 27, 876-889.e12.	11.1	167
17	Whole-Genome Sequencing Identifies Novel Functional Loci Associated with Lung Function in Puerto Rican Youth. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 962-972.	5.6	11
18	Asthma and its relationship to mitochondrial copy number: Results from the Asthma Translational Genomics Collaborative (ATGC) of the Trans-Omics for Precision Medicine (TOPMed) program. PLoS ONE, 2020, 15, e0242364.	2.5	16

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19	The airway epithelium in asthma. Advances in Immunology, 2019, 142, 1-34.	2.2	33
20	The epigenetic regulator ATF7ip inhibits Il2 expression, regulating Th17 responses. Journal of Experimental Medicine, 2019, 216, 2024-2037.	8.5	7
21	A massively parallel 3â€² UTR reporter assay reveals relationships between nucleotide content, sequence conservation, and mRNA destabilization. Genome Research, 2019, 29, 896-906.	5.5	34
22	The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and Technologies for Extracellular RNA Research. Cell, 2019, 177, 231-242.	28.9	152
23	Comparison of Reproducibility, Accuracy, Sensitivity, and Specificity of miRNA Quantification Platforms. Cell Reports, 2019, 29, 4212-4222.e5.	6.4	64
24	Integrative approach identifies corticosteroid response variant in diverse populations with asthma. Journal of Allergy and Clinical Immunology, 2019, 143, 1791-1802.	2.9	33
25	Putting Mucins on the Map. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 681-682.	5.6	2
26	Singling out Th2 cells in eosinophilic esophagitis. Journal of Clinical Investigation, 2019, 129, 1830-1832.	8.2	10
27	CD40 Mediates Maturation of Thymic Dendritic Cells Driven by Self-Reactive CD4+ Thymocytes and Supports Development of Natural Regulatory T Cells. Journal of Immunology, 2018, 200, 1399-1412.	0.8	22
28	IFN-stimulated Gene Expression, Type 2 Inflammation, and Endoplasmic Reticulum Stress in Asthma. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 313-324.	5.6	87
29	An airway epithelial IL-17A response signature identifies a steroid-unresponsive COPD patient subgroup. Journal of Clinical Investigation, 2018, 129, 169-181.	8.2	77
30	Large Differences in Small RNA Composition Between Human Biofluids. Cell Reports, 2018, 25, 1346-1358.	6.4	163
31	Tissue signals imprint ILC2 identity with anticipatory function. Nature Immunology, 2018, 19, 1093-1099.	14.5	329
32	Comprehensive multi-center assessment of small RNA-seq methods for quantitative miRNA profiling. Nature Biotechnology, 2018, 36, 746-757.	17.5	134
33	Detection of Succinate by Intestinal Tuft Cells Triggers a Type 2 Innate Immune Circuit. Immunity, 2018, 49, 33-41.e7.	14.3	380
34	Thymic tuft cells promote an IL-4-enriched medulla and shape thymocyte development. Nature, 2018, 559, 627-631.	27.8	221
35	Widespread Effects of Chemokine 3â€² Untranslated Regions on mRNA Degradation and Protein Production in Human Cells. Journal of Immunology, 2018, 201, 1053-1061.	0.8	5
36	Spontaneous Chitin Accumulation in Airways and Age-Related Fibrotic Lung Disease. Cell, 2017, 169, 497-509.e13.	28.9	87

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37	Tonic LAT-HDAC7 Signals Sustain Nur77 and Irf4 Expression to Tune Naive CD4ÂT Cells. Cell Reports, 2017, 19, 1558-1571.	6.4	34
38	CRISPRâ€“Cas9-mediated functional dissection of 3â€²-UTRs. Nucleic Acids Research, 2017, 45, 10800-10810.	14.5	39
39	Metabolomics analysis identifies sex-associated metabotypes of oxidative stress and the autotaxinâ€“lysoPA axis inÂCOPD. European Respiratory Journal, 2017, 49, 1602322.	6.7	74
40	Airway Mucus and Asthma: The Role of MUC5AC and MUC5B. Journal of Clinical Medicine, 2017, 6, 112.	2.4	227
41	miR-34 miRNAs Regulate Cellular Senescence in Type II Alveolar Epithelial Cells of Patients with Idiopathic Pulmonary Fibrosis. PLoS ONE, 2016, 11, e0158367.	2.5	106
42	A tissue checkpoint regulates type 2 immunity. Nature Immunology, 2016, 17, 1381-1387.	14.5	184
43	Linoleic acid-derived lipid mediators increase in a female-dominated subphenotype of COPD. European Respiratory Journal, 2016, 47, 1645-1656.	6.7	61
44	MicroRNAs 24 and 27 Suppress Allergic Inflammation and Target a Network of Regulators of T Helper 2 Cell-Associated Cytokine Production. Immunity, 2016, 44, 821-832.	14.3	119
45	Epithelial tethering of MUC5AC-rich mucus impairs mucociliary transport in asthma. Journal of Clinical Investigation, 2016, 126, 2367-2371.	8.2	156
46	Chitin-Induced Airway Epithelial Cell Innate Immune Responses Are Inhibited by Carvacrol/Thymol. PLoS ONE, 2016, 11, e0159459.	2.5	32
47	Massively Parallel Identification of Regulatory Variants in Asthma. Annals of the American Thoracic Society, 2016, 13 Suppl 1, S104.	3.2	0
48	Identification of MiR-205 As a MicroRNA That Is Highly Expressed in Medullary Thymic Epithelial Cells. PLoS ONE, 2015, 10, e0135440.	2.5	13
49	The Endoplasmic Reticulum Resident Protein AGR3. Required for Regulation of Ciliary Beat Frequency in the Airway. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 536-543.	2.9	18
50	Increased expression of neutrophil-related genes in patients with early sepsis-induced ARDS. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L1102-L1113.	2.9	137
51	Selective Targeting of TGF-Î² Activation to Treat Fibroinflammatory Airway Disease. Science Translational Medicine, 2014, 6, 241ra79.	12.4	79
52	IL-17 and â€œTH2-highâ€•asthma: Adding fuel to the fire?. Journal of Allergy and Clinical Immunology, 2014, 134, 1187-1188.	2.9	14
53	Dissecting the Tumor Myeloid Compartment Reveals Rare Activating Antigen-Presenting Cells Critical for T Cell Immunity. Cancer Cell, 2014, 26, 638-652.	16.8	911
54	Epithelial Interleukin-25 Is a Key Mediator in Th2-High, Corticosteroid-Responsive Asthma. American Journal of Respiratory and Critical Care Medicine, 2014, 190, 639-648.	5.6	149

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55	The transcriptional regulator Aire coopts the repressive ATF7ip-MBD1 complex for the induction of immunotolerance. Nature Immunology, 2014, 15, 258-265.	14.5	78
56	The cell biology of asthma. Journal of Cell Biology, 2014, 205, 621-631.	5.2	223
57	Massively parallel functional annotation of 3â€² untranslated regions. Nature Biotechnology, 2014, 32, 387-391.	17.5	93
58	Asthmatics with exacerbation during acute respiratory illness exhibit unique transcriptional signatures within the nasal mucosa. Genome Medicine, 2014, 6, 1.	8.2	73
59	Molecular basis of selective atrial fibrosis due to overexpression of transforming growth factor-Î²1. Cardiovascular Research, 2013, 99, 769-779.	3.8	86
60	Hands-on Workshops as An Effective Means of Learning Advanced Technologies Including Genomics, Proteomics and Bioinformatics. Genomics, Proteomics and Bioinformatics, 2013, 11, 368-377.	6.9	12
61	T cell activation induces proteasomal degradation of Argonaute and rapid remodeling of the microRNA repertoire. Journal of Experimental Medicine, 2013, 210, 417-432.	8.5	180
62	Age-dependent hepatic lymphoid organization directs successful immunity to hepatitis B. Journal of Clinical Investigation, 2013, 123, 3728-3739.	8.2	75
63	T cell activation induces proteasomal degradation of Argonaute and rapid remodeling of the microRNA repertoire. Journal of Cell Biology, 2013, 200, i9-i9.	5.2	0
64	Network analysis identifies a putative role for the PPAR and type 1 interferon pathways in glucocorticoid actions in asthmatics. BMC Medical Genomics, 2012, 5, 27.	1.5	19
65	Airway Epithelial miRNA Expression Is Altered in Asthma. American Journal of Respiratory and Critical Care Medicine, 2012, 186, 965-974.	5.6	222
66	AGR2 Is Induced in Asthma and Promotes Allergen-Induced Mucin Overproduction. American Journal of Respiratory Cell and Molecular Biology, 2012, 47, 178-185.	2.9	102
67	The Î±vÎ²6 integrin modulates airway hyperresponsiveness in mice by regulating intraepithelial mast cells. Journal of Clinical Investigation, 2012, 122, 748-758.	8.2	55
68	An integrated nano-scale approach to profile miRNAs in limited clinical samples. American Journal of Clinical and Experimental Immunology, 2012, 1, 70-89.	0.2	33
69	An Engineered Cardiac Reporter Cell Line Identifies Human Embryonic Stem Cell-Derived Myocardial Precursors. PLoS ONE, 2011, 6, e16004.	2.5	39
70	Toward a Systematic Understanding of mRNA 3' Untranslated Regions. Proceedings of the American Thoracic Society, 2011, 8, 163-166.	3.5	21
71	The mammalian target of rapamycin regulates cholesterol biosynthetic gene expression and exhibits a rapamycin-resistant transcriptional profile. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15201-15206.	7.1	100
72	Systemically dispersed innate IL-13â€“expressing cells in type 2 immunity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11489-11494.	7.1	990

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73	Intelectin is required for IL-13-induced monocyte chemotactic protein-1 and -3 expression in lung epithelial cells and promotes allergic airway inflammation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2010, 298, L290-L296.	2.9	41
74	Expression of IL-4 receptor Î± on smooth muscle cells is not necessary for development of experimental allergic asthma. Journal of Allergy and Clinical Immunology, 2010, 126, 347-354.	2.9	29
75	Impact of the TCR Signal on Regulatory T Cell Homeostasis, Function, and Trafficking. PLoS ONE, 2009, 4, e6580.	2.5	52
76	CD11b+ Myeloid Cells Are the Key Mediators of Th2 Cell Homing into the Airway in Allergic Inflammation. Journal of Immunology, 2009, 182, 623-635.	0.8	116
77	Thymic OX40 Expression Discriminates Cells Undergoing Strong Responses to Selection Ligands. Journal of Immunology, 2009, 182, 4581-4589.	0.8	60
78	The protein disulfide isomerase AGR2 is essential for production of intestinal mucus. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6950-6955.	7.1	336
79	Distinct Roles of FOXA2 and FOXA3 in Allergic Airway Disease and Asthma. American Journal of Respiratory and Critical Care Medicine, 2009, 180, 603-610.	5.6	70
80	The Epithelial Anion Transporter Pendrin Is Induced by Allergy and Rhinovirus Infection, Regulates Airway Surface Liquid, and Increases Airway Reactivity and Inflammation in an Asthma Model. Journal of Immunology, 2008, 181, 2203-2210.	0.8	102
81	Disease-Specific Gene Expression Profiling in Multiple Models of Lung Disease. American Journal of Respiratory and Critical Care Medicine, 2008, 177, 376-387.	5.6	96
82	Genome-wide profiling identifies epithelial cell genes associated with asthma and with treatment response to corticosteroids. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15858-15863.	7.1	743
83	Integrin Î²6 Mediates Phospholipid and Collectin Homeostasis by Activation of Latent TGF-Î²1. American Journal of Respiratory Cell and Molecular Biology, 2007, 37, 651-659.	2.9	35
84	Influenza Virus Infection Causes Global Respiratory Tract B Cell Response Modulation via Innate Immune Signals. Journal of Immunology, 2007, 178, 1457-1467.	0.8	61
85	IL-13 and Epidermal Growth Factor Receptor Have Critical but Distinct Roles in Epithelial Cell Mucin Production. American Journal of Respiratory Cell and Molecular Biology, 2007, 36, 244-253.	2.9	231
86	Squamous metaplasia amplifies pathologic epithelial-mesenchymal interactions in COPD patients. Journal of Clinical Investigation, 2007, 117, 3551-3562.	8.2	222
87	The Asthma Channel?. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 1181-1182.	5.6	9
88	Increased DNA microarray hybridization specificity using sscDNA targets. BMC Genomics, 2005, 6, 57.	2.8	36
89	A Distinctive Alveolar Macrophage Activation State Induced by Cigarette Smoking. American Journal of Respiratory and Critical Care Medicine, 2005, 172, 1383-1392.	5.6	194
90	IL-4 Receptor Signaling in Clara Cells Is Required for Allergen-Induced Mucus Production. Journal of Immunology, 2005, 175, 3746-3752.	0.8	89

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91	Dissecting asthma using focused transgenic modeling and functional genomics. Journal of Allergy and Clinical Immunology, 2005, 116, 305-311.	2.9	215
92	Abnormal Alveolar Development Associated with Elevated Adenine Nucleosides. American Journal of Respiratory Cell and Molecular Biology, 2004, 30, 38-50.	2.9	17
93	Differential gene expression by integrin beta 7+ and beta 7- memory T helper cells. BMC Immunology, 2004, 5, 13.	2.2	26
94	Aspergillus antigen induces robust Th2 cytokine production, inflammation, airway hyperreactivity and fibrosis in the absence of MCP-1 or CCR2. Respiratory Research, 2004, 5, 12.	3.6	34
95	Asthma investigators begin to reap the fruits of genomics. Genome Biology, 2003, 4, 232.	9.6	6
96	Spotted Long Oligonucleotide Arrays for Human Gene Expression Analysis. Genome Research, 2003, 13, 1775-1785.	5.5	153
97	The Th2 Lymphocyte Products IL-4 and IL-13 Rapidly Induce Airway Hyperresponsiveness Through Direct Effects on Resident Airway Cells. American Journal of Respiratory Cell and Molecular Biology, 2002, 26, 202-208.	2.9	209
98	Activated Î±4 Integrins are Preferentially Expressed on Immature Thymocytes and Activated T Cells. Autoimmunity, 2002, 9, 73-84.	0.6	4
99	Direct effects of interleukin-13 on epithelial cells cause airway hyperreactivity and mucus overproduction in asthma. Nature Medicine, 2002, 8, 885-889.	30.7	856
100	Preferential production of interferon-gamma by CD4+ T cells expressing the homing receptor integrin alpha4/beta7. Immunology, 2001, 103, 155-163.	4.4	20
101	Interleukin-13 Induces Dramatically Different Transcriptional Programs in Three Human Airway Cell Types. American Journal of Respiratory Cell and Molecular Biology, 2001, 25, 474-485.	2.9	161
102	Intraepithelial Lymphocytes in the Lung. American Journal of Respiratory Cell and Molecular Biology, 2000, 22, 398-400.	2.9	18
103	Integrin Î² Cytoplasmic Domains Differentially Bind to Cytoskeletal Proteins. Journal of Biological Chemistry, 1998, 273, 6104-6109.	3.4	258
104	Presentation of Integrins on Leukocyte Microvilli: A Role for the Extracellular Domain in Determining Membrane Localization. Journal of Cell Biology, 1997, 139, 563-571.	5.2	85
105	Intraepithelial Lymphocytes: Scratching the surface. Current Biology, 1995, 5, 252-254.	3.9	17
106	[20] Polymerase chain reaction cloning with degenerate primers: Homology-based identification of adhesion molecules. Methods in Enzymology, 1994, 245, 420-451.	1.0	35
107	How Do Integrins Integrate? The Role of Cell Adhesion Receptors in Differentiation and Development. American Journal of Respiratory Cell and Molecular Biology, 1992, 6, 459-460.	2.9	13
108	Novel IntegrinÎ±andÎ²Subunit cDNAs Identified in Airway Epithelial Cells and Lung Leukocytes Using the Polymerase Chain Reaction. American Journal of Respiratory Cell and Molecular Biology, 1991, 5, 170-177.	2.9	36