

Edward D Chan

List of Publications by Year in descending order

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120
papers

6,299
citations

81900

39
h-index

71685

76
g-index

125
all docs

125
docs citations

125
times ranked

8181
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment correlates of successful outcomes in pulmonary multidrug-resistant tuberculosis: an individual patient data meta-analysis. <i>Lancet, The</i> , 2018, 392, 821-834.	13.7	452
2	Pulse oximetry: Understanding its basic principles facilitates appreciation of its limitations. <i>Respiratory Medicine</i> , 2013, 107, 789-799.	2.9	449
3	Calcium Deposition with or without Bone Formation in the Lung. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 165, 1654-1669.	5.6	324
4	IFN- γ + LPS induction of iNOS is modulated by ERK, JNK/SAPK, and p38 ^{mapk} in a mouse macrophage cell line. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 280, C441-C450.	4.6	316
5	Treatment and Outcome Analysis of 205 Patients with Multidrug-resistant Tuberculosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004, 169, 1103-1109.	5.6	307
6	What is the Role of Nitric Oxide in Murine and Human Host Defense against Tuberculosis?. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001, 25, 606-612.	2.9	198
7	<i>Mycobacterium tuberculosis</i> Induces Interleukin-32 Production through a Caspase-1/IL-18/Interferon- γ -Dependent Mechanism. <i>PLoS Medicine</i> , 2006, 3, e277.	8.4	186
8	Patients with Nontuberculous Mycobacterial Lung Disease Exhibit Unique Body and Immune Phenotypes. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 187, 197-205.	5.6	185
9	α -1-Antitrypsin is an endogenous inhibitor of proinflammatory cytokine production in whole blood. <i>Journal of Leukocyte Biology</i> , 2009, 85, 886-895.	3.3	161
10	Induction of Inducible Nitric Oxide Synthase-NO \hat{A} by Lipoarabinomannan of <i>Mycobacterium tuberculosis</i> Is Mediated by MEK1-ERK, MKK7-JNK, and NF- κ B Signaling Pathways. <i>Infection and Immunity</i> , 2001, 69, 2001-2010.	2.2	150
11	Global Environmental Nontuberculous Mycobacteria and Their Contemporaneous Man-Made and Natural Niches. <i>Frontiers in Microbiology</i> , 2018, 9, 2029.	3.5	138
12	Analysis of Nitric Oxide Synthase and Nitrotyrosine Expression in Human Pulmonary Tuberculosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 166, 178-186.	5.6	136
13	Multidrug-resistant and extensively drug-resistant tuberculosis: a review. <i>Current Opinion in Infectious Diseases</i> , 2008, 21, 587-595.	3.1	136
14	Current medical treatment for tuberculosis. <i>BMJ: British Medical Journal</i> , 2002, 325, 1282-1286.	2.3	132
15	Underlying Host Risk Factors for Nontuberculous Mycobacterial Lung Disease. <i>Seminars in Respiratory and Critical Care Medicine</i> , 2013, 34, 110-123.	2.1	130
16	Pulmonary <i>Mycobacterium tuberculosis</i> infection in leptin-deficient ob/ob mice. <i>International Immunology</i> , 2005, 17, 1399-1408.	4.0	116
17	Pathogenesis and Risk Factors for Nontuberculous Mycobacterial Lung Disease. <i>Clinics in Chest Medicine</i> , 2015, 36, 1-11.	2.1	115
18	Slender, Older Women Appear to Be More Susceptible to Nontuberculous Mycobacterial Lung Disease. <i>Gender Medicine</i> , 2010, 7, 5-18.	1.4	113

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19	IL-32 Is a Host Protective Cytokine against <i>Mycobacterium tuberculosis</i> in Differentiated THP-1 Human Macrophages. <i>Journal of Immunology</i> , 2010, 184, 3830-3840.	0.8	111
20	Animal model of <i>Mycobacterium abscessus</i> lung infection. <i>Journal of Leukocyte Biology</i> , 2008, 83, 1502-1511.	3.3	110
21	Alpha-1-antitrypsin (AAT) anomalies are associated with lung disease due to rapidly growing mycobacteria and AAT inhibits <i>Mycobacterium abscessus</i> infection of macrophages. <i>Scandinavian Journal of Infectious Diseases</i> , 2007, 39, 690-696.	1.5	105
22	Treatment and outcomes in children with multidrug-resistant tuberculosis: A systematic review and individual patient data meta-analysis. <i>PLoS Medicine</i> , 2018, 15, e1002591.	8.4	96
23	Cigarette Smoke Increases Susceptibility to Tuberculosis—Evidence From In Vivo and In Vitro Models. <i>Journal of Infectious Diseases</i> , 2011, 203, 1240-1248.	4.0	94
24	Ecological Analyses of Mycobacteria in Showerhead Biofilms and Their Relevance to Human Health. <i>MBio</i> , 2018, 9, .	4.1	90
25	Inhibition of Nuclear Factor-Kappa B Activation Decreases Survival of <i>Mycobacterium tuberculosis</i> in Human Macrophages. <i>PLoS ONE</i> , 2013, 8, e61925.	2.5	82
26	Role of the NF- κ B Signaling Pathway and κ B cis-Regulatory Elements on the IRF-1 and iNOS Promoter Regions in Mycobacterial Lipoarabinomannan Induction of Nitric Oxide. <i>Infection and Immunity</i> , 2003, 71, 1442-1452.	2.2	81
27	Host Immune Response to Rapidly Growing Mycobacteria, an Emerging Cause of Chronic Lung Disease. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2010, 43, 387-393.	2.9	77
28	Curcumin enhances human macrophage control of <i>Mycobacterium tuberculosis</i> infection. <i>Respirology</i> , 2016, 21, 951-957.	2.3	67
29	Environmental Nontuberculous Mycobacteria in the Hawaiian Islands. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0005068.	3.0	65
30	Wound Healing after Trauma May Predispose to Lung Cancer Metastasis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011, 44, 591-596.	2.9	61
31	An oxidative environment promotes growth of <i>Mycobacterium abscessus</i> . <i>Free Radical Biology and Medicine</i> , 2010, 49, 1666-1673.	2.9	57
32	Redox Paradox: Effect of N-Acetylcysteine and Serum on Oxidation Reduction—Sensitive Mitogen-Activated Protein Kinase Signaling Pathways. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001, 24, 627-632.	2.9	52
33	<i>Mycobacterium abscessus</i> Induces a Limited Pattern of Neutrophil Activation That Promotes Pathogen Survival. <i>PLoS ONE</i> , 2013, 8, e57402.	2.5	52
34	Increased Foxp3 expression in guinea pigs infected with W-Beijing strains of <i>M. tuberculosis</i> . <i>Tuberculosis</i> , 2011, 91, 378-385.	1.9	50
35	Bronchoalveolar lavage as a diagnostic procedure: a review of known cellular and molecular findings in various lung diseases. <i>Journal of Thoracic Disease</i> , 2020, 12, 4991-5019.	1.4	50
36	Morphometric analysis of Th1 and Th2 cytokine expression in human pulmonary tuberculosis. <i>Tuberculosis</i> , 2004, 84, 375-385.	1.9	49

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37	Nicotine Impairs Macrophage Control of <i>Mycobacterium tuberculosis</i> . <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 57, 324-333.	2.9	48
38	Treatment of Non-Tuberculous Mycobacterial Lung Disease. <i>Current Treatment Options in Infectious Diseases</i> , 2016, 8, 275-296.	1.9	46
39	Human IL-32 expression protects mice against a hypervirulent strain of <i>Mycobacterium tuberculosis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5111-5116.	7.1	43
40	Hypothesis: Alpha-1-antitrypsin is a promising treatment option for COVID-19. <i>Medical Hypotheses</i> , 2021, 146, 110394.	1.5	42
41	IL-32 expression in the airway epithelial cells of patients with <i>Mycobacterium avium</i> complex lung disease. <i>International Immunology</i> , 2011, 23, 679-691.	4.0	39
42	Natural Disasters and Nontuberculous Mycobacteria. <i>Chest</i> , 2015, 147, 304-308.	0.8	36
43	Tobacco exposure and susceptibility to tuberculosis: Is there a smoking gun?. <i>Tuberculosis</i> , 2014, 94, 544-550.	1.9	34
44	Alpha-1-antitrypsin inhibits nitric oxide production. <i>Journal of Leukocyte Biology</i> , 2012, 92, 1251-1260.	3.3	33
45	Upcycling Poly(ethylene terephthalate) Refuse to Advanced Therapeutics for the Treatment of Nosocomial and Mycobacterial Infections. <i>Macromolecules</i> , 2019, 52, 7878-7885.	4.8	33
46	Differential Responses by Human Macrophages to Infection With <i>Mycobacterium tuberculosis</i> and Non-tuberculous Mycobacteria. <i>Frontiers in Microbiology</i> , 2020, 11, 116.	3.5	32
47	The Antioxidant Mimetic, MnTE-2-PyP, Reduces Intracellular Growth of <i>Mycobacterium abscessus</i> . <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009, 41, 170-178.	2.9	31
48	<i>Mycobacterium abscessus</i> Displays Fitness for Fomite Transmission. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	30
49	Acquired and genetic host susceptibility factors and microbial pathogenic factors that predispose to nontuberculous mycobacterial infections. <i>Current Opinion in Immunology</i> , 2018, 54, 66-73.	5.5	30
50	Alpha-1-Antitrypsin Enhances Primary Human Macrophage Immunity Against Non-tuberculous Mycobacteria. <i>Frontiers in Immunology</i> , 2019, 10, 1417.	4.8	29
51	Multidrug-Resistant Tuberculosis (TB) Resistant to Fluoroquinolones and Streptomycin but Susceptible to Second-Line Injection Therapy Has a Better Prognosis than Extensively Drug-Resistant TB. <i>Clinical Infectious Diseases</i> , 2009, 48, e50-e52.	5.8	28
52	Caspase-3-independent apoptotic pathways contribute to interleukin-32-mediated control of <i>Mycobacterium tuberculosis</i> infection in THP-1 cells. <i>BMC Microbiology</i> , 2015, 15, 39.	3.3	26
53	Use of glucocorticoids in the critical care setting: Science and clinical evidence. , 2020, 206, 107428.		26
54	The Progression of SARS Coronavirus 2 (SARS-CoV2): Mutation in the Receptor Binding Domain of Spike Gene. <i>Immune Network</i> , 2020, 20, e41.	3.6	26

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55	What Is the Effect of Fingernail Polish on Pulse Oximetry?. Chest, 2003, 123, 2163-2164.	0.8	25
56	Epidemiologic link between tuberculosis and cigarette/biomass smoke exposure: Limitations despite the vast literature. Respiriology, 2015, 20, 556-568.	2.3	22
57	A paucity of knowledge regarding nontuberculous mycobacterial lipids compared to the tubercle bacillus. Tuberculosis, 2019, 115, 96-107.	1.9	21
58	Mycobacterium avium Infection in a C3HeB/FeJ Mouse Model. Frontiers in Microbiology, 2019, 10, 693.	3.5	20
59	Adaptation of Mycobacterium tuberculosis to Impaired Host Immunity in HIV-Infected Patients. Journal of Infectious Diseases, 2016, 214, 1205-1211.	4.0	19
60	<i>MST1R</i> mutation as a genetic cause of Lady Windermere syndrome. European Respiratory Journal, 2017, 49, 1601478.	6.7	18
61	Assessment of Soil Features on the Growth of Environmental Nontuberculous Mycobacterial Isolates from Hawai'i. Applied and Environmental Microbiology, 2020, 86, .	3.1	18
62	Intravenous immunoglobulin replacement therapy to prevent pulmonary infection in a patient with Good's syndrome. Journal of Microbiology, Immunology and Infection, 2015, 48, 229-232.	3.1	17
63	Complete Genome Sequence of Mycobacterium avium subsp. <i>hominissuis</i> Strain H87 Isolated from an Indoor Water Sample. Genome Announcements, 2017, 5, .	0.8	17
64	Lower Recovery of Nontuberculous Mycobacteria from Outdoor Hawai'i Environmental Water Biofilms Compared to Indoor Samples. Microorganisms, 2021, 9, 224.	3.6	17
65	Pathogenic Nontuberculous Mycobacteria Resist and Inactivate Cathelicidin: Implication of a Novel Role for Polar Mycobacterial Lipids. PLoS ONE, 2015, 10, e0126994.	2.5	17
66	A surface with a biomimetic micropattern reduces colonization of <i>Mycobacterium abscessus</i>. FEMS Microbiology Letters, 2014, 360, 17-22.	1.8	14
67	Protein Kinase R Mediates the Inflammatory Response Induced by Hyperosmotic Stress. Molecular and Cellular Biology, 2017, 37, .	2.3	14
68	Human Interleukin-32 β Plays a Protective Role in an Experimental Model of Visceral Leishmaniasis in Mice. Infection and Immunity, 2018, 86, .	2.2	14
69	Epidemiologic Evidence of and Potential Mechanisms by Which Second-Hand Smoke Causes Predisposition to Latent and Active Tuberculosis. Immune Network, 2018, 18, e22.	3.6	14
70	Vitamin A Metabolism by Dendritic Cells Triggers an Antimicrobial Response against Mycobacterium tuberculosis. MSphere, 2019, 4, .	2.9	14
71	Suppression of IFN γ +mycobacterial lipoarabinomannan-induced NO by IL-4 is due to decreased IRF-1 expression. Tuberculosis, 2009, 89, 294-303.	1.9	13
72	Mycobacterium tuberculosis increases IP-10 and MIG protein despite inhibition of IP-10 and MIG transcription. Tuberculosis, 2011, 91, 26-35.	1.9	13

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73	Octreotide. <i>Chest</i> , 2013, 144, 1937-1945.	0.8	13
74	The Link between <i>Fusobacteria</i> and Colon Cancer: a Fulminant Example and Review of the Evidence. <i>Immune Network</i> , 2020, 20, e30.	3.6	13
75	Patients with non-tuberculous mycobacterial lung disease have elevated transforming growth factor-beta following ex vivo stimulation of blood with live <i>Mycobacterium intracellulare</i> . <i>Scandinavian Journal of Infectious Diseases</i> , 2013, 45, 711-714.	1.5	12
76	The role of interleukin-32 against tuberculosis. <i>Cytokine</i> , 2015, 76, 585-587.	3.2	12
77	The association between body shape and nontuberculous mycobacterial lung disease. <i>Expert Review of Respiratory Medicine</i> , 2013, 7, 201-204.	2.5	11
78	Complete Genome Sequence of <i>Mycobacterium chimaera</i> Strain AH16. <i>Genome Announcements</i> , 2016, 4, .	0.8	11
79	Respiratory manifestations of Marfan syndrome: a narrative review. <i>Journal of Thoracic Disease</i> , 2021, 13, 6012-6025.	1.4	11
80	A Middle-Aged Woman with Recurrent Respiratory Infections. <i>Respiration</i> , 2005, 72, 427-430.	2.6	10
81	Nontuberculous Mycobacteria Show Differential Infectivity and Use Phospholipids to Antagonize LL-37. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 354-363.	2.9	10
82	Mobile 3-dimensional (3D) C-arm system-assisted transbronchial biopsy and ablation for ground-glass opacity pulmonary nodules: a case report. <i>Translational Lung Cancer Research</i> , 2021, 10, 3312-3319.	2.8	10
83	Chronic Cavitory Infections Other than Tuberculosis. <i>Journal of Thoracic Imaging</i> , 2018, 33, 322-333.	1.5	8
84	Non-Tuberculous Mycobacteria Interference with BCG-Current Controversies and Future Directions. <i>Vaccines</i> , 2020, 8, 688.	4.4	8
85	Animal Models of Mycobacteria Infection. <i>Current Protocols in Immunology</i> , 2020, 129, e98.	3.6	8
86	Exposure Pathways of Nontuberculous Mycobacteria Through Soil, Streams, and Groundwater, Hawai'i, USA. <i>GeoHealth</i> , 2021, 5, e2020GH000350.	4.0	8
87	What is the evidence that mycobacteria are associated with the pathogenesis of Sjogren's syndrome?. <i>Journal of Translational Autoimmunity</i> , 2021, 4, 100085.	4.0	8
88	Enoxaparin augments alpha-1-antitrypsin inhibition of TMPRSS2, a promising drug combination against COVID-19. <i>Scientific Reports</i> , 2022, 12, 5207.	3.3	8
89	Interleukin-18 Expression in Cystic Fibrosis Lungs. <i>Chest</i> , 2002, 121, 84S-85S.	0.8	7
90	Significance of Bronchiectasis in Patients with α -1-Antitrypsin Deficiency. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 178, 208-208.	5.6	7

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91	Comparing the temporal colonization and microbial diversity of showerhead biofilms in Hawai'i and Colorado. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw005.	1.8	7
92	IL-32-induced Inflammatory Cytokines Are Selectively Suppressed by Î±1-antitrypsin in Mouse Bone Marrow Cells. <i>Immune Network</i> , 2017, 17, 116.	3.6	7
93	Nontuberculous mycobacterial lung infections in patients with eating disorders: plausible mechanistic links in a case series. <i>AME Case Reports</i> , 2021, 5, 9-9.	0.6	7
94	Soil Properties and Moisture Synergistically Influence Nontuberculous Mycobacterial Prevalence in Natural Environments of Hawai'i. <i>Applied and Environmental Microbiology</i> , 2022, 88, e0001822.	3.1	7
95	Transgenic mice expressing human IL-32 develop adipokine profiles resembling those of obesity-induced metabolic changes. <i>Cytokine</i> , 2020, 125, 154793.	3.2	6
96	Non-tuberculous mycobacterial lung disease due to multiple "lesser elements": an illustrative case and a review of these "lesser elements". <i>Journal of Thoracic Disease</i> , 2020, 12, 4960-4972.	1.4	6
97	The double-edged sword of Tregs in <i>M. tuberculosis</i> , <i>M. avium</i> , and <i>M. abscessus</i> infection. <i>Immunological Reviews</i> , 2021, 301, 48-61.	6.0	6
98	Analysis of Non-TB Mycobacterial Lung Disease in Patients With Primary Sjögren's Syndrome at a Referral Center. <i>Chest</i> , 2021, 159, 2218-2221.	0.8	6
99	Evaluation of BCG Vaccination and Plasma Amyloid: A Prospective, Pilot Study with Implications for Alzheimer's Disease. <i>Microorganisms</i> , 2022, 10, 424.	3.6	6
100	Measurable Genomic Changes in <i>Mycobacterium avium</i> subsp. <i>hominissuis</i> after Long-Term Adaptation in <i>Acanthamoeba lenticulata</i> and Reduced Persistence in Macrophages. <i>Journal of Bacteriology</i> , 2021, 203, .	2.2	5
101	Low Body Mass Index at Treatment Initiation and Rifampicin-Resistant Tuberculosis Treatment Outcomes: An Individual Participant Data Meta-Analysis. <i>Clinical Infectious Diseases</i> , 2022, 75, 2201-2210.	5.8	5
102	Are there common threads in the susceptibility to cancer and tuberculosis?. <i>Journal of Thoracic Disease</i> , 2020, 12, 1776-1780.	1.4	4
103	Association of Leisure-Time Physical Activity With Health-Related Quality of Life Among US Lung Cancer Survivors. <i>JNCI Cancer Spectrum</i> , 2021, 5, .	2.9	4
104	Vulnerability to Nontuberculous Mycobacterial Lung Disease or Systemic Infection Due to Genetic/Heritable Disorders. <i>Respiratory Medicine</i> , 2019, , 89-110.	0.1	4
105	Elucidating the Pathogenesis of Nontuberculous Mycobacterial Lung Disease: Lesson from the Six Blind Men and the Elephant. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 58, 142-143.	2.9	3
106	Thin body habitus is a risk factor for active pulmonary tuberculosis, but not for infection. <i>International Journal of Tuberculosis and Lung Disease</i> , 2018, 22, 967-968.	1.2	3
107	Can physics principles help explain why non-tuberculous mycobacterial lung disease is more severe in the right middle lobe and lingula?. <i>Journal of Thoracic Disease</i> , 2019, 11, 4847-4854.	1.4	3
108	Histopathologic Analysis of Surgically Resected Lungs of Patients with Non-tuberculous Mycobacterial Lung Disease: a Retrospective and Hypothesis-generating Study.. <i>Yale Journal of Biology and Medicine</i> , 2021, 94, 527-535.	0.2	3

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109	Characterization of Immune Cells From the Lungs of Patients With Chronic Non-Tuberculous Mycobacteria or <i>Pseudomonas aeruginosa</i> Infection. <i>Immune Network</i> , 2022, 22, .	3.6	3
110	A 65-Year-Old Groundskeeper With High Fever, Pulmonary Nodules, and Thoracic Lymphadenopathy. <i>Chest</i> , 2016, 149, e191-e194.	0.8	2
111	Diagnostic evaluation of bronchiectasis. <i>Respiratory Medicine: X</i> , 2019, 1, 100006.	1.4	2
112	Drug discovery targeting drug-resistant nontuberculous mycobacteria. , 2020, , 361-376.		2
113	Adding Another Piece to the Puzzle of Why NTM Infections Are Relatively Uncommon despite Their Ubiquitous Nature. <i>MBio</i> , 2021, 12, .	4.1	2
114	A 28-Year-Old Man With Chest Pain, Shortness of Breath, and Hemoptysis After Recovery From Coronavirus Disease 2019 Pneumonia. <i>Chest</i> , 2021, 159, e35-e38.	0.8	2
115	Reduced IFN- γ in Patients with Pulmonary Nontuberculous Mycobacterial Disease: Potentially Multiple Causes. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 59, 130-131.	2.9	1
116	A 45-Year-Old Man With a History of Hepatitis C and Testicular Cancer Presents With Cavitory Lung Lesions and Palpable Purpura. <i>Chest</i> , 2009, 136, 1168-1174.	0.8	0
117	A 27-Year-Old Man With Acute Severe Low Back Pain and Bilateral Leg Swelling That Prompted Renting a Wheelchair for Mobility. <i>Chest</i> , 2017, 151, e35-e39.	0.8	0
118	24780 Investigating the role of mycobacterial lipid antigens and CD1-restricted T cells in host-protective tuberculosis immunity using a guinea pig model. <i>Journal of Clinical and Translational Science</i> , 2021, 5, 114-115.	0.6	0
119	Does Hypoxia Itself Beget Worsening Hypoxemia in COVID-19?. <i>Mayo Clinic Proceedings</i> , 2021, 96, 824-825.	3.0	0
120	Further evidence that cigarette smoke and nicotine compromise host immunity against tuberculosis (invited editorial). <i>Tuberculosis</i> , 2021, 127, 102035.	1.9	0