

Ronan MacLoughlin

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

1,854
citations

236925

25
h-index

315739

38
g-index

93
all docs

93
docs citations

93
times ranked

2446
citing authors

#	ARTICLE	IF	CITATIONS
1	Treatment of chronic airway diseases using nutraceuticals: Mechanistic insight. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 7576-7590.	10.3	9
2	Emerging role of exosomes as biomarkers in cancer treatment and diagnosis. <i>Critical Reviews in Oncology/Hematology</i> , 2022, 169, 103565.	4.4	49
3	Unravelling the molecular mechanisms underlying chronic respiratory diseases for the development of novel therapeutics via in vitro experimental models. <i>European Journal of Pharmacology</i> , 2022, 919, 174821.	3.5	13
4	Berberine-loaded liquid crystalline nanoparticles inhibit non-small cell lung cancer proliferation and migration in vitro. <i>Environmental Science and Pollution Research</i> , 2022, 29, 46830-46847.	5.3	40
5	Porcine Respiratory Coronavirus as a Model for Acute Respiratory Coronavirus Disease. <i>Frontiers in Immunology</i> , 2022, 13, 867707.	4.8	11
6	Aggregates Associated with Instability of Antibodies during Aerosolization Induce Adverse Immunological Effects. <i>Pharmaceutics</i> , 2022, 14, 671.	4.5	15
7	Aerosol release, distribution, and prevention during aerosol therapy: a simulated model for infection control. <i>Drug Delivery</i> , 2022, 29, 10-17.	5.7	4
8	The Impact of Head Model Choice on the In Vitro Evaluation of Aerosol Drug Delivery. <i>Pharmaceutics</i> , 2022, 14, 24.	4.5	7
9	Attenuation of Cigarette-Smoke-Induced Oxidative Stress, Senescence, and Inflammation by Berberine-Loaded Liquid Crystalline Nanoparticles: In Vitro Study in 16HBE and RAW264.7 Cells. <i>Antioxidants</i> , 2022, 11, 873.	5.1	24
10	Laser-powder bed fusion in-process dispersion of reinforcing ceramic nanoparticles onto powder beds via colloid nebulisation. <i>Materials Chemistry and Physics</i> , 2022, 287, 126245.	4.0	2
11	Molecular Insight into the Therapeutic Effects of Stem Cell-Derived Exosomes in Respiratory Diseases and the Potential for Pulmonary Delivery. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6273.	4.1	16
12	Pneumococcal Surface Protein A-Hybrid Nanoparticles Protect Mice from Lethal Challenge after Mucosal Immunization Targeting the Lungs. <i>Pharmaceutics</i> , 2022, 14, 1238.	4.5	6
13	An in vitro investigation into the release of fugitive medical aerosols into the environment during manual ventilation. <i>Journal of Hospital Infection</i> , 2021, 108, 135-141.	2.9	3
14	Nanotechnology in pulmonary medicine. <i>Current Opinion in Pharmacology</i> , 2021, 56, 85-92.	3.5	46
15	An in vitro visual study of fugitive aerosols released during aerosol therapy to an invasively ventilated simulated patient. <i>Drug Delivery</i> , 2021, 28, 1496-1500.	5.7	9
16	Targeting eosinophils in respiratory diseases: Biological axis, emerging therapeutics and treatment modalities. <i>Life Sciences</i> , 2021, 267, 118973.	4.3	16
17	Nebuliser Type Influences Both Patient-Derived Bioaerosol Emissions and Ventilation Parameters during Mechanical Ventilation. <i>Pharmaceutics</i> , 2021, 13, 199.	4.5	22
18	In vitro evaluation of disposable transport ventilators with combination aerosol therapy. <i>BMJ Open Respiratory Research</i> , 2021, 8, e000739.	3.0	4

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19	Drug delivery advances in mitigating inflammation via matrix metalloproteinases in respiratory diseases. <i>Nanomedicine</i> , 2021, 16, 437-439.	3.3	5
20	Evaluation of Aerosol Therapy during the Escalation of Care in a Model of Adult Cystic Fibrosis. <i>Antibiotics</i> , 2021, 10, 472.	3.7	14
21	Fugitive aerosols in the intensive care unit: a narrative review. <i>Annals of Translational Medicine</i> , 2021, 9, 592-592.	1.7	13
22	Evaluation of polymer choice on immunogenicity of chitosan coated PLGA NPs with surface-adsorbed pneumococcal protein antigen PspA4Pro. <i>International Journal of Pharmaceutics</i> , 2021, 599, 120407.	5.2	10
23	Electrochemical Discrimination of Salbutamol from Its Excipients in Ventolin TM at Nanoporous Gold Microdisc Arrays. <i>Sensors</i> , 2021, 21, 3975.	3.8	8
24	Acoustic Structural Coupling In A Silicon Based Vibrating Mesh Nebulizer. , 2021, , .		0
25	Correction: Simultaneous Aerosol and Intramuscular Immunization with Influenza Vaccine Induces Powerful Protective Local T Cell and Systemic Antibody Immune Responses in Pigs. <i>Journal of Immunology</i> , 2021, 207, 352-353.	0.8	0
26	Advanced drug delivery systems targeting NF- κ B in respiratory diseases. <i>Future Medicinal Chemistry</i> , 2021, 13, 1087-1090.	2.3	7
27	Rutin loaded liquid crystalline nanoparticles inhibit non-small cell lung cancer proliferation and migration in vitro. <i>Life Sciences</i> , 2021, 276, 119436.	4.3	58
28	Advances in nanotechnology-based drug delivery in targeting PI3K signaling in respiratory diseases. <i>Nanomedicine</i> , 2021, 16, 1351-1355.	3.3	5
29	Mitochondrial dysfunctions associated with chronic respiratory diseases and their targeted therapies: an update. <i>Future Medicinal Chemistry</i> , 2021, 13, 1249-1251.	2.3	9
30	Cellular Therapy for the Treatment of Paediatric Respiratory Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8906.	4.1	11
31	Versatility of liquid crystalline nanoparticles in inflammatory lung diseases. <i>Nanomedicine</i> , 2021, 16, 1545-1548.	3.3	25
32	Revolutionizing polymer-based nanoparticle-linked vaccines for targeting respiratory viruses: A perspective. <i>Life Sciences</i> , 2021, 280, 119744.	4.3	11
33	Evaluation of Aerosol Drug Delivery Options during Adult Mechanical Ventilation in the COVID-19 Era. <i>Pharmaceutics</i> , 2021, 13, 1574.	4.5	12
34	Cellular Immunotherapy and the Lung. <i>Vaccines</i> , 2021, 9, 1018.	4.4	5
35	Inhaled nano-based therapeutics for inflammatory lung diseases: Recent advances and future prospects. <i>Life Sciences</i> , 2021, 285, 119969.	4.3	10
36	Simultaneous Aerosol and Intramuscular Immunization with Influenza Vaccine Induces Powerful Protective Local T Cell and Systemic Antibody Immune Responses in Pigs. <i>Journal of Immunology</i> , 2021, 206, 652-663.	0.8	21

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37	Respiratory and Intramuscular Immunization With ChAdOx2-NPM1-NA Induces Distinct Immune Responses in H1N1pdm09 Pre-Exposed Pigs. <i>Frontiers in Immunology</i> , 2021, 12, 763912.	4.8	5
38	Surgical facemask affects fugitive emissions during aerosol drug delivery by high-flow nasal therapy. , 2021, , .		0
39	Late Breaking Abstract - Delivery of anti-inflammatory and anti-oxidant synthetic mRNA to a rodent ARDS model by vibrating mesh nebulisation. , 2021, , .		0
40	Nebulized Mesenchymal Stem Cell Derived Conditioned Medium Retains Antibacterial Properties Against Clinical Pathogen Isolates. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2020, 33, 140-152.	1.4	28
41	Distribution of Droplets and Immune Responses After Aerosol and Intra-Nasal Delivery of Influenza Virus to the Respiratory Tract of Pigs. <i>Frontiers in Immunology</i> , 2020, 11, 594470.	4.8	16
42	Aerosolized drug-loaded nanoparticles targeting migration inhibitory factors inhibit Pseudomonas aeruginosa-induced inflammation and biofilm formation. <i>Nanomedicine</i> , 2020, 15, 2933-2953.	3.3	21
43	Reducing Aerosol-Related Risk of Transmission in the Era of COVID-19: An Interim Guidance Endorsed by the International Society of Aerosols in Medicine. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2020, 33, 300-304.	1.4	85
44	State of the Art Review of Cell Therapy in the Treatment of Lung Disease, and the Potential for Aerosol Delivery. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6435.	4.1	27
45	A narrative review on trans-nasal pulmonary aerosol delivery. <i>Critical Care</i> , 2020, 24, 506.	5.8	25
46	EVALUATION OF AEROSOL DRUG DELIVERY DURING MANUAL RESUSCITATION IN ADULT AND PEDIATRIC PATIENTS. <i>Chest</i> , 2020, 158, A694-A695.	0.8	0
47	In Vitro and In Vivo Assessment of PEGylated PEI for Anti-IL-8/CxCL-1 siRNA Delivery to the Lungs. <i>Nanomaterials</i> , 2020, 10, 1248.	4.1	13
48	Precise Targeting of miRNA Sites Restores CFTR Activity in CF Bronchial Epithelial Cells. <i>Molecular Therapy</i> , 2020, 28, 1190-1199.	8.2	39
49	Respiratory Drug/Vaccine Delivery Using Nanoparticles. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2020, , 125-154.	0.6	2
50	Defining a Regulatory Strategy for ATMP/Aerosol Delivery Device Combinations in the Treatment of Respiratory Disease. <i>Pharmaceutics</i> , 2020, 12, 922.	4.5	11
51	Fugitive Aerosol Therapy Emissions during Mechanical Ventilation: In Vitro Assessment of the Effect of Tidal Volume and Use of Protective Filters. <i>Aerosol and Air Quality Research</i> , 2020, 20, 2604-2613.	2.1	7
52	Effect of tidal volume and nebuliser position on aerosol delivery during neonate ventilation. , 2020, , .		0
53	Delivery and efficacy of synthetic oligonucleotide vectors to an ARDS model by vibrating mesh nebulisation. , 2020, , .		0
54	Evaluation of aerosol delivery in a simulated spontaneously breathing tracheostomy mask patient. , 2020, , .		0

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55	Progress in mucosal immunization for protection against pneumococcal pneumonia. Expert Review of Vaccines, 2019, 18, 781-792.	4.4	8
56	Nanotechnology based therapeutics for lung disease. Thorax, 2019, 74, 965-976.	5.6	64
57	Aerosolized recombinant human butyrylcholinesterase delivered by a nebulizer provides long term protection against inhaled paraoxon in macaques. Chemico-Biological Interactions, 2019, 309, 108712.	4.0	3
58	Investigation of Fugitive Aerosols Released into the Environment during High-Flow Therapy. Pharmaceutics, 2019, 11, 254.	4.5	35
59	Comparison of aerosol delivery across combinations of drug delivery interfaces with and without concurrent high-flow nasal therapy. Intensive Care Medicine Experimental, 2019, 7, 20.	1.9	27
60	Vibrating Mesh Nebulisation of Pro-Antimicrobial Peptides for Use in Cystic Fibrosis. Pharmaceutics, 2019, 11, 239.	4.5	16
61	The effect of UV-protected ethylene vinyl acetate (EVA) bags on the physicochemical stability of pediatric parenteral nutrition admixtures. DARU, Journal of Pharmaceutical Sciences, 2019, 27, 255-264.	2.0	4
62	Investigation of the Quantity of Exhaled Aerosols Released into the Environment during Nebulisation. Pharmaceutics, 2019, 11, 75.	4.5	37
63	Effective nebulization of interferon- β using a novel vibrating mesh. Respiratory Research, 2019, 20, 66.	3.6	27
64	In Vitro Study of the Effect of Breathing Pattern on Aerosol Delivery During High-Flow Nasal Therapy. Pulmonary Therapy, 2019, 5, 43-54.	2.2	20
65	GP16...Effect of droplet size on aerosol delivery during simulated neonatal mechanical ventilation. , 2019, , .		0
66	Chemical Design of Both a Glutathione-Sensitive Dimeric Drug Guest and a Glucose-Derived Nanocarrier Host to Achieve Enhanced Osteosarcoma Lung Metastatic Anticancer Selectivity. Journal of the American Chemical Society, 2018, 140, 1438-1446.	13.7	94
67	Comparison of Heterosubtypic Protection in Ferrets and Pigs Induced by a Single-Cycle Influenza Vaccine. Journal of Immunology, 2018, 200, 4068-4077.	0.8	50
68	In Vitro Determination of the Main Effects in the Design of High-Flow Nasal Therapy Systems with Respect to Aerosol Performance. Pulmonary Therapy, 2018, 4, 73-86.	2.2	22
69	Biopolymer-Based Nanoparticles for Cystic Fibrosis Lung Gene Therapy Studies. Materials, 2018, 11, 122.	2.9	42
70	Aerosol: A Novel Vehicle for Pharmacotherapy in Neonates. Current Pharmaceutical Design, 2018, 23, 5928-5934.	1.9	19
71	The presence of inorganic calcium in pediatric parenteral admixtures. Nutricion Hospitalaria, 2018, 35, 11-18.	0.3	6
72	Effect of tidal volume on fugitive emissions during mechanical ventilation. , 2018, , .		1

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73	Effect of nebuliser position on aerosol performance during high flow nasal therapy. , 2018, , .		0
74	Modified Vaccinia Virus Ankara Preferentially Targets Antigen Presenting Cells In Vitro, Ex Vivo and In Vivo. Scientific Reports, 2017, 7, 8580.	3.3	34
75	Nasal high flow nebulization in infants and toddlers: An in vitro and in vivo scintigraphic study. Pediatric Pulmonology, 2017, 52, 337-344.	2.0	69
76	A Silicon-based MEMS Vibrating Mesh Nebulizer for Inhaled Drug Delivery. Procedia Engineering, 2016, 168, 1521-1524.	1.2	27
77	Development of a drug delivery system for efficient alveolar delivery of a neutralizing monoclonal antibody to treat pulmonary intoxication to ricin. Journal of Controlled Release, 2016, 234, 21-32.	9.9	57
78	Distinct immune responses and virus shedding in pigs following aerosol, intra-nasal and contact infection with pandemic swine influenza A virus, A(H1N1)09. Veterinary Research, 2016, 47, 103.	3.0	30
79	Optimization and Dose Estimation of Aerosol Delivery to Non-Human Primates. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2016, 29, 281-287.	1.4	20
80	Aerosol-Mediated Delivery of AAV2/6- β Gal Attenuates Lipopolysaccharide-Induced Acute Lung Injury in Rats. Human Gene Therapy, 2015, 26, 36-46.	2.7	6
81	LATE-BREAKING ABSTRACT: Host defence peptide prodrugs are respirable when delivered by vibrating mesh nebuliser. , 2015, , .		0
82	Early-Stage Development of Novel Cyclodextrin-siRNA Nanocomplexes Allows for Successful Postnebulization Transfection of Bronchial Epithelial Cells. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2014, 27, 466-477.	1.4	32
83	Measurement of the size and charge distribution of sodium chloride particles generated by an Aeroneb Pro [®] pharmaceutical nebulizer. European Journal of Nanomedicine, 2014, 6, .	0.6	7
84	Magnetic core-shell nanoparticles for drug delivery by nebulization. Journal of Nanobiotechnology, 2013, 11, 1.	9.1	172
85	Nanoparticle-based drug delivery: case studies for cancer and cardiovascular applications. Cellular and Molecular Life Sciences, 2012, 69, 389-404.	5.4	84
86	Optimized Aerosol Delivery to a Mechanically Ventilated Rodent. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2009, 22, 323-332.	1.4	35