

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	Magnetic core-shell nanoparticles for drug delivery by nebulization. <i>Journal of Nanobiotechnology</i> , 2013, 11, 1.	9.1	172
2	Chemical Design of Both a Glutathione-Sensitive Dimeric Drug Guest and a Glucose-Derived Nanocarrier Host to Achieve Enhanced Osteosarcoma Lung Metastatic Anticancer Selectivity. <i>Journal of the American Chemical Society</i> , 2018, 140, 1438-1446.	13.7	94
3	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
4	Nanoparticle-based drug delivery: case studies for cancer and cardiovascular applications. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 389-404.	5.4	84
5	Nasal high flow nebulization in infants and toddlers: An in vitro and in vivo scintigraphic study. <i>Pediatric Pulmonology</i> , 2017, 52, 337-344.	2.0	69
6	Nanotechnology based therapeutics for lung disease. <i>Thorax</i> , 2019, 74, 965-976.	5.6	64
7	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
8	Development of a drug delivery system for efficient alveolar delivery of a neutralizing monoclonal antibody to treat pulmonary intoxication to ricin. <i>Journal of Controlled Release</i> , 2016, 234, 21-32.	9.9	57
9	Comparison of Heterosubtypic Protection in Ferrets and Pigs Induced by a Single-Cycle Influenza Vaccine. <i>Journal of Immunology</i> , 2018, 200, 4068-4077.	0.8	50
10	Emerging role of exosomes as biomarkers in cancer treatment and diagnosis. <i>Critical Reviews in Oncology/Hematology</i> , 2022, 169, 103565.	4.4	49
11	Nanotechnology in pulmonary medicine. <i>Current Opinion in Pharmacology</i> , 2021, 56, 85-92.	3.5	46
12	Biopolymer-Based Nanoparticles for Cystic Fibrosis Lung Gene Therapy Studies. <i>Materials</i> , 2018, 11, 122.	2.9	42
13	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
14	Precise Targeting of miRNA Sites Restores CFTR Activity in CF Bronchial Epithelial Cells. <i>Molecular Therapy</i> , 2020, 28, 1190-1199.	8.2	39
15	Investigation of the Quantity of Exhaled Aerosols Released into the Environment during Nebulisation. <i>Pharmaceutics</i> , 2019, 11, 75.	4.5	37
16	Optimized Aerosol Delivery to a Mechanically Ventilated Rodent. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2009, 22, 323-332.	1.4	35
17	Investigation of Fugitive Aerosols Released into the Environment during High-Flow Therapy. <i>Pharmaceutics</i> , 2019, 11, 254.	4.5	35
18	Modified Vaccinia Virus Ankara Preferentially Targets Antigen Presenting Cells In Vitro, Ex Vivo and In Vivo. <i>Scientific Reports</i> , 2017, 7, 8580.	3.3	34

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19	Early-Stage Development of Novel Cyclodextrin-siRNA Nanocomplexes Allows for Successful Postnebulization Transfection of Bronchial Epithelial Cells. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2014, 27, 466-477.	1.4	32
20	Distinct immune responses and virus shedding in pigs following aerosol, intra-nasal and contact infection with pandemic swine influenza A virus, A(H1N1)09. <i>Veterinary Research</i> , 2016, 47, 103.	3.0	30
21	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
22	A Silicon-based MEMS Vibrating Mesh Nebulizer for Inhaled Drug Delivery. <i>Procedia Engineering</i> , 2016, 168, 1521-1524.	1.2	27
23	Comparison of aerosol delivery across combinations of drug delivery interfaces with and without concurrent high-flow nasal therapy. <i>Intensive Care Medicine Experimental</i> , 2019, 7, 20.	1.9	27
24	Effective nebulization of interferon- β using a novel vibrating mesh. <i>Respiratory Research</i> , 2019, 20, 66.	3.6	27
25	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
26	A narrative review on trans-nasal pulmonary aerosol delivery. <i>Critical Care</i> , 2020, 24, 506.	5.8	25
27	Versatility of liquid crystalline nanoparticles in inflammatory lung diseases. <i>Nanomedicine</i> , 2021, 16, 1545-1548.	3.3	25
28	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
29	In Vitro Determination of the Main Effects in the Design of High-Flow Nasal Therapy Systems with Respect to Aerosol Performance. <i>Pulmonary Therapy</i> , 2018, 4, 73-86.	2.2	22
30	Nebuliser Type Influences Both Patient-Derived Bioaerosol Emissions and Ventilation Parameters during Mechanical Ventilation. <i>Pharmaceutics</i> , 2021, 13, 199.	4.5	22
31	Aerosolized drug-loaded nanoparticles targeting migration inhibitory factors inhibit <i>Pseudomonas aeruginosa</i> -induced inflammation and biofilm formation. <i>Nanomedicine</i> , 2020, 15, 2933-2953.	3.3	21
32	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
33	Optimization and Dose Estimation of Aerosol Delivery to Non-Human Primates. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2016, 29, 281-287.	1.4	20
34	In Vitro Study of the Effect of Breathing Pattern on Aerosol Delivery During High-Flow Nasal Therapy. <i>Pulmonary Therapy</i> , 2019, 5, 43-54.	2.2	20
35	Aerosol: A Novel Vehicle for Pharmacotherapy in Neonates. <i>Current Pharmaceutical Design</i> , 2018, 23, 5928-5934.	1.9	19
36	Vibrating Mesh Nebulisation of Pro-Antimicrobial Peptides for Use in Cystic Fibrosis. <i>Pharmaceutics</i> , 2019, 11, 239.	4.5	16

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37	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
38	Targeting eosinophils in respiratory diseases: Biological axis, emerging therapeutics and treatment modalities. <i>Life Sciences</i> , 2021, 267, 118973.	4.3	16
39	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
40	Aggregates Associated with Instability of Antibodies during Aerosolization Induce Adverse Immunological Effects. <i>Pharmaceutics</i> , 2022, 14, 671.	4.5	15
41	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
42	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
43	Fugitive aerosols in the intensive care unit: a narrative review. <i>Annals of Translational Medicine</i> , 2021, 9, 592-592.	1.7	13
44	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
45	Evaluation of Aerosol Drug Delivery Options during Adult Mechanical Ventilation in the COVID-19 Era. <i>Pharmaceutics</i> , 2021, 13, 1574.	4.5	12
46	Cellular Therapy for the Treatment of Paediatric Respiratory Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8906.	4.1	11
47	Revolutionizing polymer-based nanoparticle-linked vaccines for targeting respiratory viruses: A perspective. <i>Life Sciences</i> , 2021, 280, 119744.	4.3	11
48	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
49	Porcine Respiratory Coronavirus as a Model for Acute Respiratory Coronavirus Disease. <i>Frontiers in Immunology</i> , 2022, 13, 867707.	4.8	11
50	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
51	Inhaled nano-based therapeutics for inflammatory lung diseases: Recent advances and future prospects. <i>Life Sciences</i> , 2021, 285, 119969.	4.3	10
52	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
53	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
54	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

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55	Progress in mucosal immunization for protection against pneumococcal pneumonia. <i>Expert Review of Vaccines</i> , 2019, 18, 781-792.	4.4	8
56	Electrochemical Discrimination of Salbutamol from Its Excipients in Ventolin TM at Nanoporous Gold Microdisc Arrays. <i>Sensors</i> , 2021, 21, 3975.	3.8	8
57	Measurement of the size and charge distribution of sodium chloride particles generated by an Aeroneb Pro [®] pharmaceutical nebulizer. <i>European Journal of Nanomedicine</i> , 2014, 6, .	0.6	7
58	Advanced drug delivery systems targeting NF- κ B in respiratory diseases. <i>Future Medicinal Chemistry</i> , 2021, 13, 1087-1090.	2.3	7
59	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
60	The Impact of Head Model Choice on the In Vitro Evaluation of Aerosol Drug Delivery. <i>Pharmaceutics</i> , 2022, 14, 24.	4.5	7
61	Aerosol-Mediated Delivery of AAV2/6- Δ Attenuates Lipopolysaccharide-Induced Acute Lung Injury in Rats. <i>Human Gene Therapy</i> , 2015, 26, 36-46.	2.7	6
62	The presence of inorganic calcium in pediatric parenteral admixtures. <i>Nutricion Hospitalaria</i> , 2018, 35, 11-18.	0.3	6
63	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
64	Drug delivery advances in mitigating inflammation via matrix metalloproteinases in respiratory diseases. <i>Nanomedicine</i> , 2021, 16, 437-439.	3.3	5
65	Advances in nanotechnology-based drug delivery in targeting PI3K signaling in respiratory diseases. <i>Nanomedicine</i> , 2021, 16, 1351-1355.	3.3	5
66	Cellular Immunotherapy and the Lung. <i>Vaccines</i> , 2021, 9, 1018.	4.4	5
67	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
68	The effect of UV-protected ethylene vinyl acetate (EVA) bags on the physicochemical stability of pediatric parenteral nutrition admixtures. <i>DARU, Journal of Pharmaceutical Sciences</i> , 2019, 27, 255-264.	2.0	4
69	In vitro evaluation of disposable transport ventilators with combination aerosol therapy. <i>BMJ Open Respiratory Research</i> , 2021, 8, e000739.	3.0	4
70	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
71	Aerosolized recombinant human butyrylcholinesterase delivered by a nebulizer provides long term protection against inhaled paraoxon in macaques. <i>Chemico-Biological Interactions</i> , 2019, 309, 108712.	4.0	3
72	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

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73	Respiratory Drug/Vaccine Delivery Using Nanoparticles. AAPS Advances in the Pharmaceutical Sciences Series, 2020, , 125-154.	0.6	2
74	Laser-powder bed fusion in-process dispersion of reinforcing ceramic nanoparticles onto powder beds via colloid nebulisation. Materials Chemistry and Physics, 2022, 287, 126245.	4.0	2
75	Effect of tidal volume on fugitive emissions during mechanical ventilation. , 2018, , .		1
76	GP16â€¦Effect of droplet size on aerosol delivery during simulated neonatal mechanical ventilation. , 2019, , .		0
77	EVALUATION OF AEROSOL DRUG DELIVERY DURING MANUAL RESUSCITATION IN ADULT AND PEDIATRIC PATIENTS. Chest, 2020, 158, A694-A695.	0.8	0
78	Acoustic Structural Coupling In A Silicon Based Vibrating Mesh Nebulizer. , 2021, , .		0
79	Correction: Simultaneous Aerosol and Intramuscular Immunization with Influenza Vaccine Induces Powerful Protective Local T Cell and Systemic Antibody Immune Responses in Pigs. Journal of Immunology, 2021, 207, 352-353.	0.8	0
80	LATE-BREAKING ABSTRACT: Host defence peptide prodrugs are respirable when delivered by vibrating mesh nebuliser. , 2015, , .		0
81	Effect of nebuliser position on aerosol performance during high flow nasal therapy. , 2018, , .		0
82	Effect of tidal volume and nebuliser position on aerosol delivery during neonate ventilation. , 2020, , .		0
83	Surgical facemask affects fugitive emissions during aerosol drug delivery by high-flow nasal therapy. , 2021, , .		0
84	Late Breaking Abstract - Delivery of anti-inflammatory and anti-oxidant synthetic mRNA to a rodent ARDS model by vibrating mesh nebulisation. , 2021, , .		0
85	Delivery and efficacy of synthetic oligonucleotide vectors to an ARDS model by vibrating mesh nebulisation. , 2020, , .		0
86	Evaluation of aerosol delivery in a simulated spontaneously breathing tracheostomy mask patient. , 2020, , .		0