

# Tomasz R Sosnowski

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

1,303  
citations

279487

23  
h-index

414034

32  
g-index

88  
all docs

88  
docs citations

88  
times ranked

1261  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of particles for dry powder inhalers. <i>Advanced Powder Technology</i> , 2014, 25, 43-55.	2.0	90
2	Predicted Deposition of E-Cigarette Aerosol in the Human Lungs. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2016, 29, 299-309.	0.7	64
3	Short- and mid-term adsorption behaviour of Quillaja Bark Saponin and its mixtures with lysozyme. <i>Food Hydrocolloids</i> , 2011, 25, 687-693.	5.6	61
4	Particle Size Dynamics: Toward a Better Understanding of Electronic Cigarette Aerosol Interactions With the Respiratory System. <i>Frontiers in Physiology</i> , 2018, 9, 853.	1.3	57
5	Particles on the lung surface - physicochemical and hydrodynamic effects. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 36, 1-9.	3.4	40
6	Dynamics of Oropharyngeal Aerosol Transport and Deposition With the Realistic Flow Pattern. <i>Inhalation Toxicology</i> , 2006, 18, 773-780.	0.8	39
7	Effect of clay nanoparticles on model lung surfactant: a potential marker of hazard from nanoaerosol inhalation. <i>Environmental Science and Pollution Research</i> , 2016, 23, 4660-4669.	2.7	39
8	Conception, preparation and properties of functional carrier particles for pulmonary drug delivery. <i>International Journal of Pharmaceutics</i> , 2012, 433, 51-59.	2.6	38
9	Physicochemical studies of direct interactions between lung surfactant and components of electronic cigarettes liquid mixtures. <i>Inhalation Toxicology</i> , 2018, 30, 159-168.	0.8	38
10	A particle technology approach toward designing dry-powder inhaler formulations for personalized medicine in respiratory diseases. <i>Advanced Powder Technology</i> , 2020, 31, 219-226.	2.0	37
11	Influence of Insoluble Aerosol Deposits on the Surface Activity of the Pulmonary Surfactant: A Possible Mechanism of Alveolar Clearance Retardation?. <i>Aerosol Science and Technology</i> , 2000, 32, 52-60.	1.5	35
12	Inhalation devices: from basic science to practical use, innovative vs generic products. <i>Expert Opinion on Drug Delivery</i> , 2016, 13, 1559-1571.	2.4	34
13	Inhaled aerosols: Their role in COVID-19 transmission, including biophysical interactions in the lungs. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 54, 101451.	3.4	33
14	Alteration of biophysical activity of pulmonary surfactant by aluminosilicate nanoparticles. <i>Inhalation Toxicology</i> , 2013, 25, 77-83.	0.8	31
15	New experimental model of pulmonary surfactant for biophysical studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 519, 27-33.	2.3	31
16	Effects of Process Variables on the Properties of Spray-Dried Mannitol and Mannitol/Disodium Cromoglycate Powders Suitable for Drug Delivery by Inhalation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 13922-13931.	1.8	30
17	Mechanims of Aerosol Particle Deposition in the Oro-Pharynx Under Non-Steady Airflow. <i>Annals of Occupational Hygiene</i> , 2006, 51, 19-25.	1.9	29
18	Turbulent flow energy for aerosolization of powder particles. <i>Journal of Aerosol Science</i> , 2008, 39, 113-126.	1.8	27

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19	Impact of physicochemical properties of nasal spray products on drug deposition and transport in the pediatric nasal cavity model. <i>International Journal of Pharmaceutics</i> , 2020, 574, 118911.	2.6	27
20	Deactivation of the Pulmonary Surfactant Dynamics by Toxic Aerosols and Gases. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2001, 14, 455-466.	1.2	25
21	Deposition of Fractal-Like Aerosol Aggregates in a Model of Human Nasal Cavity. <i>Inhalation Toxicology</i> , 2006, 18, 725-731.	0.8	25
22	Alteration of Surface Properties of Dipalmitoyl Phosphatidylcholine by Benzo[ <i>a</i> ]pyrene: A Model of Pulmonary Effects of Diesel Exhaust Inhalation. <i>Journal of Biomedical Nanotechnology</i> , 2012, 8, 818-825.	0.5	25
23	Experimental and Theoretical Investigations of Transport Properties of DPPC Monolayer. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 1996, 9, 357-367.	1.2	24
24	The effect of shear and extensional viscosities on atomization of Newtonian and non-Newtonian fluids in ultrasonic inhaler. <i>International Journal of Pharmaceutics</i> , 2015, 485, 41-49.	2.6	24
25	Aerosolized Albuterol Sulfate Delivery under Neonatal Ventilatory Conditions: In Vitro Evaluation of a Novel Ventilator Circuit Patient Interface Connector. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2014, 27, 58-65.	0.7	20
26	Interactions of Benzo[ <i>a</i> ]pyrene and Diesel Exhaust Particulate Matter with the Lung Surfactant System. <i>Annals of Occupational Hygiene</i> , 2011, 55, 329-38.	1.9	19
27	Is the cell retention by MF membrane absolutely safe? a hypothetical model for cell deformation in a membrane pore. <i>Journal of Membrane Science</i> , 2005, 250, 135-140.	4.1	18
28	Dynamic tensiometry studies on interactions of novel therapeutic inhalable powders with model pulmonary surfactant at the air-water interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 480, 149-158.	2.3	18
29	Preparation and Characterization of Biocompatible Polymer Particles as Potential Nanocarriers for Inhalation Therapy. <i>International Journal of Polymer Science</i> , 2015, 2015, 1-8.	1.2	17
30	Powder Particles and Technologies for Medicine Delivery to the Respiratory System: Challenges and Opportunities. <i>KONA Powder and Particle Journal</i> , 2018, 35, 122-138.	0.9	17
31	In silico evaluation of particle transport and deposition in the airways of individual patients with chronic obstructive pulmonary disease. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2022, 174, 10-19.	2.0	17
32	Self-organization of colloidal particles during drying of a droplet: Modeling and experimental study. <i>Advanced Powder Technology</i> , 2018, 29, 3542-3551.	2.0	16
33	Nanosized and Nanostructured Particles in Pulmonary Drug Delivery. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3476-3487.	0.9	15
34	Selected Engineering and Physicochemical Aspects of Systemic Drug Delivery by Inhalation. <i>Current Pharmaceutical Design</i> , 2016, 22, 2453-2462.	0.9	15
35	Modification of inhalable powders by pulmonary surfactant components adsorbed on droplets during spray-drying process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 365, 56-61.	2.3	14
36	Experimental Evaluation of the Importance of the Pulmonary Surfactant for Oxygen Transfer Rate in Human Lungs. <i>International Journal of Occupational Safety and Ergonomics</i> , 1998, 4, 391-409.	1.1	13

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37	Interfacial rheology for the assessment of potential health effects of inhaled carbon nanomaterials at variable breathing conditions. <i>Scientific Reports</i> , 2020, 10, 14044.	1.6	13
38	A CANINE MODEL FOR PRODUCTION OF SEVERE UNILATERAL PANACINAR EMPHYSEMA. <i>Experimental Lung Research</i> , 2004, 30, 319-332.	0.5	12
39	Assessment of the Pulmonary Toxicity of Inhaled Gases and Particles With Physicochemical Methods. <i>International Journal of Occupational Safety and Ergonomics</i> , 1999, 5, 431-447.	1.1	11
40	Fluidization and break-up of powder particle aggregates during constant and pulsating flow in converging nozzles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 441, 905-911.	2.3	11
41	The Influence of Functional Carrier Particles (FCPs) on the Molecular Transport Rate Through the Reconstructed Bronchial Mucus: In Vitro Studies. <i>Transport in Porous Media</i> , 2015, 106, 439-454.	1.2	11
42	Bioactive Betulin and PEG Based Polyanhydrides for Use in Drug Delivery Systems. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1090.	1.8	11
43	Interaction of Deposited Aerosol Particles with the Alveolar Liquid Layer. , 2003, , 205-216.		9
44	The thermostated medical jet nebulizer: Aerosol characteristics. <i>International Journal of Pharmaceutics</i> , 2019, 567, 118475.	2.6	9
45	Impact of Inhalers Used in the Treatment of Respiratory Diseases on Global Warming. <i>Advances in Respiratory Medicine</i> , 2021, 89, 427-438.	0.5	9
46	Removal of soot particles from Diesel exhaust. <i>Journal of Aerosol Science</i> , 1996, 27, S705-S706.	1.8	8
47	Technical challenges in obtaining an optimized powder/DPI combination for inhalation delivery of a bi-component generic drug. <i>Journal of Drug Delivery Science and Technology</i> , 2018, 44, 406-414.	1.4	8
48	Interactions of Carbon Nanotubes and Carbon Nanohorns with a Model Membrane Layer and Lung Surfactant In Vitro. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-10.	1.5	8
49	Dynamic analysis of the process of an aerosol particle deposition onto an extracellular lining layer in the human lung. <i>Journal of Aerosol Science</i> , 2000, 31, 500-501.	1.8	7
50	Importance of airway geometry and respiratory parameters variability for particle deposition in the human respiratory tract. <i>Journal of Thoracic Disease</i> , 2011, 3, 153-5.	0.6	6
51	Adsorption and Co-Adsorption of Polyaldehyde Dextran Nanoparticles and Nonionic Surfactant at an Air-Water Interface: Potential Implications for Pulmonary Drug Delivery. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2017, 38, 67-77.	0.7	5
52	The Optimal Diameter of the Droplets of a High-Viscosity Liquid Containing Solid State Catalyst Particles. <i>Energies</i> , 2022, 15, 3937.	1.6	5
53	Depozycja donosowych preparatów w glikokortykosteroidów – badania wstępne. <i>Otolaryngologia Polska</i> , 2015, 69, 36-40.	0.2	4
54	Evolution of droplet size distribution in selected nebulizers. <i>Physicochemical Problems of Mineral Processing</i> , 0, , 32-40.	0.2	4

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55	Theoretical consideration on immediate interactions between inhaled particles and the pulmonary surfactant. <i>Journal of Aerosol Science</i> , 2000, 31, 498-499.	1.8	3
56	Aerosol Generation and Identification for Model Studies of Particle-Lung Interactions. <i>International Journal of Occupational Safety and Ergonomics</i> , 2010, 16, 41-48.	1.1	3
57	Bronchial Mucus as a Complex Fluid: Molecular Interactions and Influence of Nanostructured Particles on Rheological and Transport Properties. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2017, 38, 217-229.	0.7	3
58	Transport of aerosol deposits at the active surface of liquid layer. <i>Journal of Aerosol Science</i> , 1995, 26, S541-S542.	1.8	2
59	Resuspension of Powders and Deposition of Aerosol Particles in the Upper Human Airways. , 2003, , 123-137.		2
60	Pulse Nebulization in Pneumatic Devices. <i>International Journal of Occupational Safety and Ergonomics</i> , 1999, 5, 31-42.	1.1	1
61	Mass transfer through the gas-liquid interface at the presence of adsorbed active phospholipid monolayer. <i>Studies in Surface Science and Catalysis</i> , 2001, 133, 283-288.	1.5	1
62	Chemical Engineering in Biomedical Problems-Selected Applications. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2018, , 307-318.	0.4	1
63	Impact of selected construction elements of capsule-based dry powder inhalers on the manner of drug delivery to the lungs. <i>Pediatrica I Medycyna Rodzinna</i> , 2016, 12, 466-470.	2.3	1
64	Inhalation and Deposition of Nanoparticles: Fundamentals, Phenomenology and Practical Aspects. , 2010, , 113-144.		1
65	Application of a Fibrous Electrostatic Filter for Treatment of Diesel Exhaust. <i>International Journal of Occupational Safety and Ergonomics</i> , 2000, 6, 321-333.	1.1	0
66	COMPARISON OF THE PRESSURE DROP AND AEROSOL DEPOSITION EFFICIENCY IN A NASO-ORO-PHARYNGEAL CAST AND THE USP INDUCTION PORT. <i>Journal of Aerosol Science</i> , 2004, 35, S1131-S1132.	1.8	0
67	Relation between Neonatal Endotracheal (ET) Tube Size and Aerosol Penetration- Computational Fluid Dynamic Study (CFD). <i>Pediatric Research</i> , 2011, 70, 531-531.	1.1	0
68	Surface properties of pulmonary surfactant in the presence of metal oxide nanoparticles. <i>Toxicology Letters</i> , 2016, 258, S271.	0.4	0
69	Zasady stosowania komórek inhalacyjnych u dzieci. <i>Pediatrica Polska</i> , 2017, 92, 288-293.	0.1	0
70	Editor's Notes. In Honour of Professor Leon GradoÅ, on the Occasion of His 70th Birthday. <i>Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa</i> , 2017, 38, 3-4.	0.7	0
71	Czy preparaty propionianu flutykazonu z salmeterolem z pMDI sÅ... takie same? <i>Doniesienie wstÅpne. Alergoprofil</i> , 2021, 17, 39-44.	0.1	0
72	PoÅ...czenia glikokortykosteroidu z dÅugo dziaÅajÅ...cym Î²2-mimetykiem w inhalatorze ciÅnieniowym dozujÅ...cym Å... jakie, komu, kiedy?. <i>Alergoprofil</i> , 2021, 17, 19-26.	0.1	0

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73	Metoda badania wpływu nanocząstek na właściwości powierzchniowe monowarstwy gładkiego skądniaka surfaktantu płucnego (DPPC) w układzie wagi Langmuira-Wilhelmy™ego. Podstawy I Metody Oceny Środowiska Pracy, 2013, 29, 143-153.	0.0	0
74	Particles and lungs - where chemical engineering meets medicine. , 2019, , .		0
75	Inhalation as a Means of Systemic Drug Delivery. Healthy Ageing and Longevity, 2020, , 327-344.	0.2	0
76	Experimental Analysis of the Deposition of Aerosol Droplets in the Upper Airways of Human. , 2020, , 423-429.		0
77	WYBRANE ZAGADNIENIA FIZYKOCHEMII KOLOIDALNEJ W PROCESACH INHALACYJNEGO DOSTARCZANIA LEKÓW DO PŁUC. Wiadomości Chemiczne, 2021, 75, 1375-1393.	0.0	0
78	Jak ograniczyć ładunek w głowie inhalatorów w cięgieniowych dozujących ?. Alergoprofil, 2022, 18, 14-20.	0.1	0