

Dennis O Frank-Ito

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,341
citations

304602

22
h-index

360920

35
g-index

51
all docs

51
docs citations

51
times ranked

849
citing authors

#	ARTICLE	IF	CITATIONS
1	A Systematic Review of Patient-Reported Nasal Obstruction Scores. <i>JAMA Facial Plastic Surgery</i> , 2014, 16, 219-225.	2.2	160
2	Perception of Better Nasal Patency Correlates with Increased Mucosal Cooling after Surgery for Nasal Obstruction. <i>Otolaryngology - Head and Neck Surgery</i> , 2014, 150, 139-147.	1.1	99
3	Changes in nasal airflow and heat transfer correlate with symptom improvement after surgery for nasal obstruction. <i>Journal of Biomechanics</i> , 2013, 46, 2634-2643.	0.9	97
4	Influence of Mesh Density on Airflow and Particle Deposition in Sinonasal Airway Modeling. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2016, 29, 46-56.	0.7	66
5	Geometry and airflow dynamics analysis in the nasal cavity during inhalation. <i>Clinical Biomechanics</i> , 2019, 66, 97-106.	0.5	56
6	Numerical evaluation of spray position for improved nasal drug delivery. <i>Scientific Reports</i> , 2020, 10, 10568.	1.6	51
7	A Computational Study of Nasal Spray Deposition Pattern in Four Ethnic Groups. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2016, 29, 153-166.	0.7	48
8	Normative ranges of nasal airflow variables in healthy adults. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 87-98.	1.7	48
9	Simulating the Nasal Cycle with Computational Fluid Dynamics. <i>Otolaryngology - Head and Neck Surgery</i> , 2015, 152, 353-360.	1.1	47
10	Quantification of airflow into the maxillary sinuses before and after functional endoscopic sinus surgery. <i>International Forum of Allergy and Rhinology</i> , 2013, 3, 834-840.	1.5	42
11	Predicting Postsurgery Nasal Physiology with Computational Modeling: Current Challenges and Limitations. <i>Otolaryngology - Head and Neck Surgery</i> , 2014, 151, 751-759.	1.1	39
12	Characterization of Postoperative Changes in Nasal Airflow Using a Cadaveric Computational Fluid Dynamics Model. <i>JAMA Facial Plastic Surgery</i> , 2014, 16, 319-327.	2.2	35
13	Computed intranasal spray penetration: comparisons before and after nasal surgery. <i>International Forum of Allergy and Rhinology</i> , 2013, 3, 48-55.	1.5	34
14	On computational fluid dynamics models for sinonasal drug transport: Relevance of nozzle subtraction and nasal vestibular dilation. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2946.	1.0	34
15	A computational analysis of nasal vestibule morphologic variabilities on nasal function. <i>Journal of Biomechanics</i> , 2016, 49, 450-457.	0.9	32
16	Virtual Surgery for the Nasal Airway. <i>JAMA Facial Plastic Surgery</i> , 2018, 20, 63-69.	2.2	32
17	Virtual septoplasty: a method to predict surgical outcomes for patients with nasal airway obstruction. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 725-735.	1.7	32
18	Detailed nanoparticle exposure analysis among human nasal cavities with distinct vestibule phenotypes. <i>Journal of Aerosol Science</i> , 2018, 121, 54-65.	1.8	31

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19	Air conditioning analysis among human nasal passages with anterior anatomical variations. <i>Medical Engineering and Physics</i> , 2018, 57, 19-28.	0.8	27
20	A hierarchical stepwise approach to evaluate nasal patency after virtual surgery for nasal airway obstruction. <i>Clinical Biomechanics</i> , 2019, 61, 172-180.	0.5	26
21	Upper airway reconstruction using long-range optical coherence tomography: Effects of airway curvature on airflow resistance. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 150-160.	1.1	24
22	Changes in aerodynamics during vocal cord dysfunction. <i>Computers in Biology and Medicine</i> , 2015, 57, 116-122.	3.9	23
23	Investigating the effects of laryngotracheal stenosis on upper airway aerodynamics. <i>Laryngoscope</i> , 2018, 128, E141-E149.	1.1	23
24	Characterizing human nasal airflow physiologic variables by nasal index. <i>Respiratory Physiology and Neurobiology</i> , 2016, 232, 66-74.	0.7	21
25	Modeling Alterations in Sinonasal Physiology after Skull Base Surgery. <i>American Journal of Rhinology and Allergy</i> , 2015, 29, 145-150.	1.0	20
26	Creation of an idealized nasopharynx geometry for accurate computational fluid dynamics simulations of nasal airflow in patient-specific models lacking the nasopharynx anatomy. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2825.	1.0	20
27	Characterizing Airflow Profile in the Postoperative Maxillary Sinus by Using Computational Fluid Dynamics Modeling: A Pilot Study. <i>American Journal of Rhinology and Allergy</i> , 2016, 30, 29-36.	1.0	19
28	Multimodal Characterization of the Mature Septal Deformity and Airspace Associated with Unilateral Cleft Lip and Palate. <i>Plastic and Reconstructive Surgery</i> , 2019, 143, 865-873.	0.7	16
29	Computational Analysis of the Mature Unilateral Cleft Lip Nasal Deformity on Nasal Patency. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2019, 7, e2244.	0.3	14
30	Anatomic Variations in Temporal Bones Affect the Intensity of Nystagmus During Warm Caloric Irrigation. <i>Otology and Neurotology</i> , 2016, 37, 1111-1116.	0.7	13
31	Personalized mathematical model of endotoxin-induced inflammatory responses in young men and associated changes in heart rate variability. <i>Mathematical Modelling of Natural Phenomena</i> , 2018, 13, 42.	0.9	11
32	Impact of endoscopic craniofacial resection on simulated nasal airflow and heat transport. <i>International Forum of Allergy and Rhinology</i> , 2019, 9, 900-909.	1.5	11
33	Orally Inhaled Drug Particle Transport in Computerized Models of Laryngotracheal Stenosis. <i>Otolaryngology - Head and Neck Surgery</i> , 2021, 164, 829-840.	1.1	11
34	Role of nasal vestibule morphological variations on olfactory airflow dynamics. <i>Clinical Biomechanics</i> , 2021, 82, 105282.	0.5	10
35	Temporal bone anatomy characteristics in superior semicircular canal dehiscence. <i>Journal of Otology</i> , 2017, 12, 185-191.	0.4	9
36	The role of normal nasal morphological variations from race and gender differences on respiratory physiology. <i>Respiratory Physiology and Neurobiology</i> , 2022, 297, 103823.	0.7	8

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37	Reevaluating Order Effects in the Binaural Bithermal Caloric Test. American Journal of Audiology, 2018, 27, 104-109.	0.5	7
38	Disagreement in middle ear volume estimation between tympanometry and three-dimensional volume reconstruction in the context of tympanic membrane perforation. Journal of Otology, 2017, 12, 74-79.	0.4	5
39	Analysis of nasal air conditioning in subjects with unilateral cleft lip nasal deformity. Respiratory Physiology and Neurobiology, 2021, 291, 103694.	0.7	5
40	Comparison of Inhaled Drug Delivery in Patients With One- and Two-level Laryngotracheal Stenosis. Laryngoscope, 2023, 133, 366-374.	1.1	5
41	Gender Differences in Nasal Anatomy and Function Among Caucasians. Facial Plastic Surgery and Aesthetic Medicine, 2023, 25, 145-152.	0.5	5
42	Response to Dr Chung's Question on Simulating the Nasal Cycle with Computational Fluid Dynamics. Otolaryngology - Head and Neck Surgery, 2015, 153, 308-309.	1.1	4
43	The anatomic determinants of conductive hearing loss secondary to tympanic membrane perforation. Journal of Otology, 2017, 12, 125-131.	0.4	4
44	A systematic analysis of surgical interventions for the airway in the mature unilateral cleft lip nasal deformity: a single case study. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 41-53.	1.7	4
45	Clinical Implications of Nasal Airflow Simulations. Biological and Medical Physics Series, 2021, , 157-192.	0.3	4
46	Computational Analysis of Olfactory Airspace in Patients With Unilateral Cleft Lip Nasal Deformity. Cleft Palate-Craniofacial Journal, 2021, 58, 1242-1250.	0.5	3
47	Mechanical Nasal Dilators for the Management of Nasal Obstruction. JAMA Facial Plastic Surgery, 2016, 18, 389-390.	2.2	2
48	A Pilot Study to Investigate the Relationship Between Interaural Differences in Temporal Bone Anatomy and Normal Variations in Caloric Asymmetry. American Journal of Audiology, 2018, 27, 110-120.	0.5	2
49	In reference to <i>Regional peak mucosal cooling predicts the perception of nasal patency</i> . Laryngoscope, 2014, 124, E210.	1.1	1
50	Intranasal Spray Characteristics for Best Drug Delivery in Patients With Chronic Rhinosinusitis. Laryngoscope, 2023, 133, 1036-1043.	1.1	1
51	Numerical air conditioning performance assessment of nasal models with morphologic variations. , 2017, , .		0