Table S1. The 100 most influential Mouth Breathing articles ranked according to the highest relative citation rates (RCR): 2002-2021.

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| --- | --- | --- | --- | --- |
| RCR Rank | Reference | RCR | No Cites | AAS |
| 1 | Zhao Z, Zheng L, Huang X, Li C, Liu J, Hu Y. Effects of mouth breathing on facial skeletal development in children: a systematic review and meta-analysis. BMC Oral Health. 2021; 10; 21:108. | 6,31 | 9 | 60 |
| 2 | D'Onofrio L. Oral dysfunction as a cause of malocclusion. Orthod Craniofac Res. 2019; 22 Suppl 1 (Suppl 1). | 6,29 | 25 | 6 |
| 3 | Harari D, Redlich M, Miri S, Hamud T, Gross M. The effect of mouth breathing versus nasal breathing on dentofacial and craniofacial development in orthodontic patients. Laryngoscope. 2010; 120:2089-93. | 4,82 | 92 | 36 |
| 4 | Valera FC, Travitzki LV, Mattar SE, Matsumoto MA, Elias AM, Anselmo-Lima WT. Muscular, functional and orthodontic changes in preschool children with enlarged adenoids and tonsils. Int J Pediatr Otorhinolaryngol. 2003; 67: 761–70. | 4,75 | 117 | 1 |
| 5 | Bonuck KA, Chervin RD, Cole TJ, Emond A, Henderson J, Xu L, Freeman K. Prevalence and persistence of sleep disordered breathing symptoms in young children: a 6-year population-based cohort study. Sleep. 2011; 34: 875-84. | 4,71 | 95 | 26 |
| 6 | Villa MP, Evangelisti M, Martella S, Barreto M, Del Pozzo M. Can myofunctional therapy increase tongue tone and reduce symptoms in children with sleep-disordered breathing? Sleep Breath. 2017; 21: 1025-1032 | 4,69 | 48 | 8 |
| 7 | Grippaudo C, Paolantonio EG, Antonini G, Saulle R, La Torre G, Deli R. Association between oral habits, mouth breathing and malocclusion. Acta Otorhinolaryngol Ital. 2016; 36: 386-394. | 4,58 | 45 | 22 |
| 8 | Guilleminault C., Huang Y.S., Glamann C., Li K., Chan A. Adenotonsillectomy and obstructive sleep apnea in children: A prospective survey. Otolaryngol. Head Neck Surg. 2007; 136: 169–175. | 4,50 | 112 | 0 |
| 9 | Chambi-Rocha A, Cabrera-Dominguez ME, Dominguez-Reyes A. Breathing mode influence on craniofacial development and head posture. J. Pediatr. (Rio J) 2018; 94: 123–130. | 4,37 | 25 | 1 |
| 10 | Souki BQ, Pimenta GB, Souki MQ, Franco LP, Becker HM, Pinto JA. Prevalence of malocclusion among mouth breathing children: do expectations meet reality? Int J Pediatr Otorhinolaryngol. 2009; 73: 767-73. | 4,15 | 71 | 3 |
| 11 | Villa MP, Brasili L, Ferretti A, Vitelli O, Rabasco J, Mazzotta AR, Pietropaoli N, Martella S. Oropharyngeal exercises to reduce symptoms of OSA after AT. Sleep Breath. 2015; 19: 281-9. | 4,100 | 56 | 6 |
| 12 | Peltomäki T. The effect of mode of breathing on craniofacial growth—revisited. Eur J Orthod. 2007; 29: 426-9. | 3,971 | 90 | 7 |
| 13 | Bonuck K, Freeman K, Chervin RD, Xu L. Sleep-disordered breathing in a population-based cohort: behavioral outcomes at 4 and 7 years. Pediatrics. 2012; 129: e857-65. | 3,97 | 80 | 192 |
| 14 | de Freitas MR, Alcazar NM, Janson G, de Freitas KM, Henriques JF. Upper and lower pharyngeal airways in subjects with Class I and Class II malocclusions and different growth patterns. Am J Orthod Dentofacial Orthop. 2006; 130: 742-5. | 3,75 | 77 | -- |
| 15 | Paolantonio EG, Ludovici N, Saccomanno S, La Torre G, Grippaudo C. Association between oral habits, mouth breathing and malocclusion in Italian preschoolers. Eur J Paediatr Dent. 2019; 20: 204-208. | 3,65 | 16 | 1 |
| 16 | D'Ascanio L, Lancione C, Pompa G, Rebuffini E, Mansi N, Manzini M.Craniofacial growth in children with nasal septum deviation: a cephalometric comparative study. Int J Pediatr Otorhinolaryngol. 2010; 74: 1180-3. | 3,64 | 67 | 1 |
| 17 | Locker D, Jokovic A, Tompson B.Health-related quality of life of children aged 11 to 14 years with orofacial conditions. Cleft Palate Craniofac J. 2005; 4 2:260-6. | 3,49 | 80 | -- |
| 18 | Lee SY, Guilleminault C, Chiu HY, Sullivan SS. Mouth breathing, "nasal disuse," and pediatric sleep-disordered breathing. Sleep Breath. 2015; 19: 1257-64. | 3,48 | 45 | 9 |
| 19 | Rodrigues dos Santos MT, Masiero D, Novo NF, Simionato MR. Oral conditions in children with cerebral palsy. J Dent Child (Chic). 2003; 70: 40-6. | 3,36 | 85 | -- |
| 20 | Huynh NT, Morton PD, Rompré PH, Papadakis A, Remise C. Associations between sleep-disordered breathing symptoms and facial and dental morphometry, assessed with screening examinations. Am J Orthod Dentofacial Orthop. 2011 Dec;140(6):762-70. | 3,33 | 58 | 4 |
| 21 | Chung Leng Muñoz I, Beltri Orta P. Comparison of cephalometric patterns in mouth breathing and nose breathing children. Int J Pediatr Otorhinolaryngol. 2014; 78: 1167-72. | 3,33 | 41 | 28 |
| 22 | Greenfeld M, Tauman R, DeRowe A, Sivan Y. Obstructive sleep apnea syndrome due to adenotonsillar hypertrophy in infants. Int J Pediatr Otorhinolaryngol. 2003; 67:1055-60. | 3,29 | 102 | 2 |
| 23 | Rappai M, Collop N, Kemp S, de Shazo R. The nose and sleep-disordered breathing: what we know and what we do not know. Chest. 2003; 124: 2309-23. | 3,28 | 96 | 0 |
| 24 | Lione R, Franchi L, Huanca Ghislanzoni LT, Primozic J, Buongiorno M, Cozza P. Palatal surface and volume in mouth-breathing subjects evaluated with three-dimensional analysis of digital dental casts-a controlled study. Eur J Orthod. 2015; 37: 101-4. | 3,22 | 35 | 1 |
| 25 | Moimaz SA, Garbin AJ, Lima AM, Lolli LF, Saliba O, Garbin CA. Longitudinal study of habits leading to malocclusion development in childhood. BMC Oral Health. 2014; 4;14:96. | 3,18 | 37 | 5 |
| 26 | Nogami Y, Saitoh I, Inada E, Murakami D, Iwase Y, Kubota N, Nakamura Y, Kimi M, Hayasaki H, Yamasaki Y, Kaihara Y. Prevalence of an incompetent lip seal during growth periods throughout Japan: a large-scale, survey-based, cross-sectional study. Environ Health Prev Med. 2021; 21; 26: 11. | 3,16 | 3 | 14 |
| 27 | Góis EG, Ribeiro-Júnior HC, Vale MP, Paiva SM, Serra-Negra JM, Ramos-Jorge ML, Pordeus IA. Influence of nonnutritive sucking habits, breathing pattern and adenoid size on the development of malocclusion. Angle Orthod. 2008; 78: 647-54. | 3,14 | 59 | 1 |
| 28 | Lamenha Lins RM, Cavalcanti Campêlo MC, Mello Figueiredo L, Vilela Heimer M, Dos Santos-Junior VE. Probable sleep bruxism in children and its relationship with harmful oral habits, type of crossbite and oral breathing. J Clin Pediatr Dent. 2020; 44: 66-69. | 3,07 | 12 | 4 |
| 29 | Urschitz MS, Guenther A, Eitner S, Urschitz-Duprat PM, Schlaud M, Ipsiroglu OS, Poets CF. Risk factors and natural history of habitual snoring. Chest. 2004; 126: 790-800. | 2,90 | 94 | -- |
| 30 | Kasparaviciene K, Sidlauskas A, Zasciurinskiene E, Vasiliauskas A, Juodzbalys G, Sidlauskas M, Marmaite U. The prevalence of malocclusion and oral habits among 5-7-year-old children. Med Sci Monit. 2014; 24; 20: 2036-42. | 2,88 | 31 | -- |
| 31 | Chen X, Ke ZL, Chen Y, Lin X. The prevalence of sleep problems among children in mainland China: a meta-analysis and systemic-analysis. Sleep Med. 2021; 83: 248-255. | 2,88 | 11 | -- |
| 32 | Germa A, Clément C, Weissenbach M, Heude B, Forhan A, Martin-Marchand L, Bonet M, Vital S, Kaminski M, Nabet C. Early risk factors for posterior crossbite and anterior open bite in the primary dentition. Angle Orthod. 2016; 86: 832-8. | 2,86 | 26 | 2 |
| 33 | Cuccia AM, Lotti M, Caradonna D. Oral breathing and head posture. Angle Orthod. 2008; 78: 77-82. | 2,78 | 54 | 3 |
| 34 | Guo H, Wang T, Li X, Ma Q, Niu X, Qiu J. What sleep behaviors are associated with bruxism in children? A systematic review and meta-analysis. Sleep Breath. 2017; 21: 1013-1023. | 2,76 | 26 | 9 |
| 35 | Liu H, Feng X, Sun Y, Fan Y, Zhang J. Modified adenoid grading system for evaluating adenoid size in children: a prospective validation study. Eur Arch Otorhinolaryngol. 2021; 278: 2147-2153. | 2,76 | 4 | -- |
| 36 | Xu Z, Cheuk DK, Lee SL. Clinical evaluation in predicting childhood obstructive sleep apnea. Chest. 2006; 130: 1765-71. | 2,73 | 72 | 1 |
| 37 | Heath DS, El-Hakim H, Al-Rahji Y, Eksteen E, Uwiera TC, Isaac A, Castro-Codesal M, Gerdung C, Maclean J, Mandhane PJ. Development of a pediatric obstructive sleep apnea triage algorithm. J Otolaryngol Head Neck Surg. 2021; 15; 50:48. | 2,64 | 6 | -- |
| 38 | Festa P, Mansi N, Varricchio AM, Savoia F, Calì C, Marraudino C, De Vincentiis GC, Galeotti A. Association between upper airway obstruction and malocclusion in mouth-breathing children. Acta Otorhinolaryngol Ital. 2021; 41: 436-442. | 2,55 | 3 | 1 |
| 39 | Farronato M, Lanteri V, Fama A, Maspero C. Correlation between Malocclusion and Allergic Rhinitis in Pediatric Patients: A Systematic Review. Children (Basel). 2020; 27; 7: 260. | 2,54 | 6 | 1 |
| 40 | Motta LJ, Bachiega JC, Guedes CC, Laranja LT, Bussadori SK. Association between halitosis and mouth breathing in children. Clinics (Sao Paulo). 2011; 66: 939-42. | 2,53 | 41 | 303 |
| 41 | Li AM, Cheung A, Chan D, Wong E, Ho C, Lau J, Wing YK. Validation of a questionnaire instrument for prediction of obstructive sleep apnea in Hong Kong Chinese children. Pediatr Pulmonol. 2006; 41: 1153-60. | 2,51 | 75 | 1 |
| 42 | Fastuca R, Zecca PA, Caprioglio A. Role of mandibular displacement and airway size in improving breathing after rapid maxillary expansion. Prog Orthod. 2014; 29; 15: 40. | 2,51 | 26 | 0 |
| 43 | Schütz TC, Dominguez GC, Hallinan MP, Cunha TC, Tufik S. Class II correction improves nocturnal breathing in adolescents Angle Orthod. 2011; 81: 222-8. | 2,47 | 42 | -- |
| 44 | Lione R, Buongiorno M, Franchi L, Cozza P. Evaluation of maxillary arch dimensions and palatal morphology in mouth-breathing children by using digital dental casts. Int J Pediatr Otorhinolaryngol. 2014; 78: 91-5. | 2,44 | 26 | -- |
| 45 | Vieira BB, Itikawa CE, de Almeida LA, Sander HS, Fernandes RM, Anselmo-Lima WT, Valera FC. Cephalometric evaluation of facial pattern and hyoid bone position in children with obstructive sleep apnea syndrome. Int J Pediatr Otorhinolaryngol. 2011; 75: 383-6. | 2,40 | 41 | 3 |
| 46 | de Oliveira AMM, de Melo EGM, Mendes MLT, Dos Santos Oliveira SJG, Tavares CSS, Vaez AC, de Vasconcelos SJA, Santos HP Jr, Santos VS, Martins-Filho PRS. Oral and maxillofacial conditions, dietary aspects, and nutritional status of children with congenital Zika syndrome. Oral Surg Oral Med Oral Pathol Oral Radiol. 2020; 130: 71-7. | 2,38 | 9 | 5 |
| 47 | Oliveira AC, Paiva SM, Campos MR, Czeresnia D. Factors associated with malocclusions in children and adolescents with Down syndrome. Am J Orthod Dentofacial Orthop. 2008; 133: 489.e1-8. | 2,32 | 46 | -- |
| 48 | Izuka EN, Feres MF, Pignatari SS. Immediate impact of rapid maxillary expansion on upper airway dimensions and on the quality of life of mouth breathers. Dental Press J Orthod. 2015; 20: 43-9. | 2,31 | 22 | -- |
| 49 | Chohan A, Lal A, Chohan K, Chakravarti A, Gomber S. Systematic review and meta-analysis of randomized controlled trials on the role of mometasone in adenoid hypertrophy in children. Int J Pediatr Otorhinolaryngol. 2015; 79: 1599-608. | 2,30 | 33 | 4 |
| 50 | Castelo PM, Gavião MB, Pereira LJ, Bonjardim LR. Relationship between oral parafunctional/nutritive sucking habits and temporomandibular joint dysfunction in primary dentition. Int J Paediatr Dent. 2005; 15: 29-36. | 2,28 | 50 | -- |
| 51 | Lentini-Oliveira DA, Carvalho FR, Rodrigues CG, Ye Q, Prado LB, Prado GF, Hu R. Orthodontic and orthopaedic treatment for anterior open bite in children. Cochrane Database Syst Rev. 2014; 24: CD005515. | 2,28 | 26 | 30 |
| 52 | Qiao Y, Shi H, Wang H, Wang M, Chen F. Oral Health Status of Chinese Children With Autism Spectrum Disorders. Front Psychiatry. 2020; 5; 11: 398. | 2,26 | 12 | 2 |
| 53 | Guilleminault C, Huang YS, Quo S, Monteyrol PJ, Lin CH. Teenage sleep-disordered breathing: recurrence of syndrome Sleep Med. 2013; 14: 37-44. | 2,25 | 35 | 1 |
| 54 | Oh JS, Zaghi S, Ghodousi N, Peterson C, Silva D, Lavigne GJ, Yoon AJ. Determinants of probable sleep bruxism in a pediatric mixed dentition population: a multivariate analysis of mouth vs. nasal breathing, tongue mobility, and tonsil size. Sleep Med. 2021; 77: 7-13. | 2,23 | 3 | 1 |
| 55 | Compadretti GC, Tasca I, Bonetti GA. Nasal airway measurements in children treated by rapid maxillary expansion. Am J Rhinol. 2006; 20: 385-93. | 2,21 | 48 | -- |
| 56 | Aznar T, Galán AF, Marín I, Domínguez A. Dental arch diameters and relationships to oral habits. Angle Orthod. 2006; 76: 441-5. | 2,21 | 42 | 3 |
| 57 | Monini S, Malagola C, Villa MP, Tripodi C, Tarentini S, Malagnino I, Marrone V, Lazzarino AI, Barbara M. Rapid maxillary expansion for the treatment of nasal obstruction in children younger than 12 years. Arch Otolaryngol Head Neck Surg. 2009; 135: 22-7. | 2,20 | 48 | 1 |
| 58 | Kiliç N, Oktay H. Effects of rapid maxillary expansion on nasal breathing and some naso-respiratory and breathing problems in growing children: a literature review. Int J Pediatr Otorhinolaryngol. 2008; 72: 1595-601. | 2,20 | 44 | -- |
| 59 | Serra-Negra JM, Ribeiro MB, Prado IM, Paiva SM, Pordeus IA. Association between possible sleep bruxism and sleep characteristics in children. Cranio. 2017; 35: 315-20. | 2,15 | 18 | 1 |
| 60 | Kang Q, Cha C, Huang D, Zuo S, Yan X.Evaluation of palatal support tissues for placement of orthodontic mini-implants in mouth breathers with high-narrow palates versus nose breathers with normal palates: a retrospective study. Clin Oral Investig. 2020; 24: 1259-67. | 2,15 | 5 | -- |
| 61 | Badreddine FR, Fujita RR, Alves FEMM, Cappellette M Jr. Rapid maxillary expansion in mouth breathers: a short-term skeletal and soft-tissue effect on the nose. Braz J Otorhinolaryngol. 2018; 84: 196-205 | 2,10 | 10 | 1 |
| 62 | Abreu RR, Rocha RL, Lamounier JA, Guerra AF. Etiology, clinical manifestations and concurrent findings in mouth-breathing children. J Pediatr (Rio J). 2008; 84: 529-35. | 2,08 | 50 | 8 |
| 63 | Medeiros Rodrigues Cardoso A, Duarte Silva CR, Nóbrega Gomes L, Marinho Davino de Medeiros M, Nascimento Padilha WW, Cabral Cavalcanti AF, Leite Cavalcanti A. Prevalence of Malocclusions and Associated Factors in Brazilian Children and Adolescents with Cerebral Palsy: A Multi-Institutional Study. Int J Dent. 2020; 29: 8856754. | 2,08 | 4 | -- |
| 64 | Tecco S, Festa F, Tete S, Longhi V, D'Attilio M.Changes in head posture after rapid maxillary expansion in mouth-breathing girls: a controlled study. Angle Orthod. 2005; 75: 171-6. | 2,05 | 44 | -- |
| 65 | Carvalho FR, Lentini-Oliveira DA, Prado LB, Prado GF, Carvalho LB. Oral appliances and functional orthopaedic appliances for obstructive sleep apnea in children. Cochrane Database Syst Rev. 2016; 5; 10: CD005520. | 2,05 | 34 | 41 |
| 66 | Occasi F, Perri L, Saccucci M, Di Carlo G, Ierardo G, Luzzi V, De Castro G, Brindisi G, Loffredo L, Duse M, Polimeni A, Zicari AM. Malocclusion and rhinitis in children: an easy-going relationship or a yet to be resolved paradox? A systematic literature revision. Ital J Pediatr. 2018; 22; 44: 100. | 2,04 | 13 | 2 |
| 67 | Ovsenik M. Incorrect orofacial functions until 5 years of age and their association with posterior crossbite. Am J Orthod Dentofacial Orthop. 2009; 136: 375-81. | 2,01 | 32 | 4 |
| 68 | Koca CF, Erdem T, Bayındır T. The effect of adenoid hypertrophy on maxillofacial development: an objective photographic analysis. J Otolaryngol Head Neck Surg. 2016; 20; 45: 48. | 1,99 | 19 | 37 |
| 69 | Guilleminault C, Li K, Quo S, Inouye RN. A prospective study on the surgical outcomes of children with sleep-disordered breathing. Sleep. 2004; 1; 27: 95-100. | 1,98 | 57 | 0 |
| 70 | Liu X, Ma Y, Wang Y, Jiang Q, Rao X, Lu X, Teng H. Brief report: An epidemiologic survey of the prevalence of sleep disorders among children 2 to 12 years old in Beijing, China. Pediatrics. 2005; 115(1 Suppl): 266-8. | 1,93 | 51 | -- |
| 71 | Sousa JB, Anselmo-Lima WT, Valera FC, Gallego AJ, Matsumoto MA. Cephalometric assessment of the mandibular growth pattern in mouth-breathing children. Int J Pediatr Otorhinolaryngol. 2005; 693: 311-7. | 1,92 | 45 | -- |
| 72 | Huang YS, Wang CH, Guilleminault C. An epidemiologic study of sleep problems among adolescents in North Taiwan. Sleep Med. 2010; 11: 1035-42. | 1,91 | 47 | -- |
| 73 | Koletsi D, Makou M, Pandis N. Effect of orthodontic management and orofacial muscle training protocols on the correction of myofunctional and myoskeletal problems in developing dentition. A systematic review and meta-analysis. Orthod Craniofac Res. 2018; 21: 202-215. | 1,88 | 9 | 5 |
| 74 | Li AM, Chan MH, Yin J, So HK, Ng SK, Chan IH, Lam CW, Wing YK, Ng PC. C-reactive protein in children with obstructive sleep apnea and the effects of treatment. Pediatr Pulmonol. 2008; 43: 34-40. | 1,86 | 58 | -- |
| 75 | Lessa FC, Enoki C, Feres MF, Valera FC, Lima WT, Matsumoto MA. Breathing mode influence in craniofacial development. Braz J Otorhinolaryngol. 2005; 71: 156-60. | 1,86 | 41 | -- |
| 76 | Ceroni Compadretti G, Tasca I, Alessandri-Bonetti G, Peri S, D'Addario A. Acoustic rhinometric measurements in children undergoing rapid maxillary expansion. Int J Pediatr Otorhinolaryngol. 2006; 70: 27-34. | 1,86 | 39 | -- |
| 77 | Rossi RC, Rossi NJ, Rossi NJ, Yamashita HK, Pignatari SS. Dentofacial characteristics of oral breathers in different ages: a retrospective case-control study. Prog Orthod. 2015; 16: 23. | 1,86 | 19 | 3 |
| 78 | Azevedo ND, Lima JC, Furlan RMMM, Motta AR. Tongue pressure measurement in children with mouth-breathing behaviour. J Oral Rehabil. 2018; 45: 612-617. | 1,85 | 11 | 12 |
| 79 | Luzzi V, Ierardo G, Viscogliosi A, Fabbrizi M, Consoli G, Vozza I, Vestri A, Polimeni A. Allergic rhinitis as a possible risk factor for malocclusion: a case-control study in children. Int J Paediatr Dent. 2013; 23: 274-8. | 1,83 | 23 | 6 |
| 80 | Stensson M, Wendt LK, Koch G, Oldaeus G, Birkhed D. Oral health in preschool children with asthma. Int J Paediatr Dent. 2008 Jul;18(4):243-50. | 1,82 | 47 | -- |
| 81 | Ji T, Lu T, Qiu Y, Li X, Liu Y, Tai J, Guo Y, Zhang J, Wang S, Zhao J, Ni X, Xu Z. The efficacy and safety of montelukast in children with obstructive sleep apnea: a systematic review and meta-analysis. Sleep Med. 2021; 78: 193-201. | 1,82 | 6 | -- |
| 82 | Soh HJ, Rowe K, Davey MJ, Horne RSC, Nixon GM. The OSA-5: Development and validation of a brief questionnaire screening tool for obstructive sleep apnea in children. Int J Pediatr Otorhinolaryngol. 2018; 113: 62-66. | 1,81 | 14 | 1 |
| 83 | Langer MR, Itikawa CE, Valera FC, Matsumoto MA, Anselmo-Lima WT. Does rapid maxillary expansion increase nasopharyngeal space and improve nasal airway resistance? Int J Pediatr Otorhinolaryngol. 2011; 75: 122-5. | 1,80 | 27 | -- |
| 84 | Garde JB, Suryavanshi RK, Jawale BA, Deshmukh V, Dadhe DP, Suryavanshi MK. An epidemiological study to know the prevalence of deleterious oral habits among 6 to12 year old children. J Int Oral Health. 2014; 6: 39-43. | 1,80 | 25 | 0 |
| 85 | Tecco S, Caputi S, Festa F. Evaluation of cervical posture following palatal expansion: a 12-month follow-up controlled study. Eur J Orthod. 2007; 29: 45-51. | 1,78 | 36 | -- |
| 86 | Pacheco MC, Casagrande CF, Teixeira LP, Finck NS, de Araújo MT. Guidelines proposal for clinical recognition of mouth breathing children. Dental Press J Orthod. 2015; 20: 39-44. | 1,74 | 20 | 9 |
| 87 | Ovsenik M, Farcnik FM, Korpar M, Verdenik I. Follow-up study of functional and morphological malocclusion trait changes from 3 to 12 years of age. Eur J Orthod. 2007; 29: 523-9. | 1,73 | 45 | 10 |
| 88 | Fan C, Guo L, Gu H, Huo Y, Lin H. Alterations in Oral-Nasal-Pharyngeal Microbiota and Salivary Proteins in Mouth-Breathing Children. Front Microbiol. 2020; 9; 11: 575550 | 1,69 | 9 | 3 |
| 89 | Alqutami J, Elger W, Grafe N, Hiemisch A, Kiess W, Hirsch C. Dental health, halitosis and mouth breathing in 10-to-15 year old children: A potential connection. Eur J Paediatr Dent. 2019; 20: 274-279. | 1,69 | 7 | -- |
| 90 | Lee DW, Kim JG, Yang YM. Influence of mouth breathing on atopic dermatitis risk and oral health in children: A population-based cross-sectional study. J Dent Sci. 2021; 16: 178-185. | 1,69 | 3 | 8 |
| 91 | Li HY, Lee LA. Sleep-disordered breathing in children. Chang Gung Med J. 2009; 32: 247-57. | 1,66 | 38 | 0 |
| 92 | Masoud AI, Jackson GW, Carley DW. Sleep and airway assessment: A review for dentists. Cranio. 2017; 35: 206-222. | 1,65 | 12 | -- |
| 93 | Laganà G, Masucci C, Fabi F, Bollero P, Cozza P. Prevalence of malocclusions, oral habits and orthodontic treatment need in a 7- to 15-year-old schoolchildren population in Tirana. Prog Orthod. 2013; 14;14:12. | 1,64 | 25 | -- |
| 94 | Ding XX, Zhao LQ, Cui XG, Yin Y, Yang HA. Clinical observation of soft palate-pharyngoplasty in the treatment of obstructive sleep apnea hypopnea syndrome in children. World J Clin Cases. 2020; 26; 8: 679-688. | 1,62 | 5 | -- |
| 95 | Neiva PD, Kirkwood RN, Godinho R. Orientation and position of head posture, scapula and thoracic spine in mouth-breathing children. Int J Pediatr Otorhinolaryngol. 2009; 73: 227-36. | 1,60 | 28 | 197 |
| 96 | Cappellette M Jr, Alves FEMM, Nagai LHY, Fujita RR, Pignatari SSN. Impact of rapid maxillary expansion on nasomaxillary complex volume in mouth-breathers. Dental Press J Orthod. 2017; 22: 79-88. | 1,60 | 11 | -- |
| 97 | Hebling SR, Cortellazzi KL, Tagliaferro EP, Hebling E, Ambrosano GM, Meneghim Mde C, Pereira AC. Relationship between malocclusion and behavioral, demographic and socioeconomic variables: a cross-sectional study of 5-year-olds. J Clin Pediatr Dent. 2008; 33: 75-9. | 1,57 | 27 | -- |
| 98 | Zheng W, Zhang X, Dong J, He J.Facial morphological characteristics of mouth breathers vs. nasal breathers: A systematic review and meta-analysis of lateral cephalometric data. Exp Ther Med. 2020; 19:37 38-3750. | 1,54 | 4 | 6 |
| 99 | Ferreira Nader CMF, Capanema FD, Franco LP, Meira ZMA, Galvão CP, Ramos VM, Tinano MM, Torres LL, Guimarães RB, Becker HMG. Pulmonary arterial pressure and nasal obstruction in mouth-breathing children: Similarities between adenotonsillar hypertrophy and allergic rhinitis. Int Forum Allergy Rhinol. 2021; 11: 128-135. | 1,54 | 2 | 2 |
| 100 | Al Ali A, Richmond S, Popat H, Playle R, Pickles T, Zhurov AI, Marshall D, Rosin PL, Henderson J, Bonuck K. The influence of snoring, mouth breathing and apnoea on facial morphology in late childhood: a three-dimensional study. BMJ Open. 2015; 8; 5: e009027. | 1,53 | 22 | 18 |

Of the 100 Mouth Breating articles identified as having the highest RCR values in the period 2002-2021, 66 were in the Altmetric.com database.

-- indicates not registered