

# Publikationsliste

Prof. Dr. med. Andreas Rembert Koczulla

## Publikationen 2024

1. S1 guideline long/post-COVID syndrome  
Gogoll C, Peters E, Köllner V, Koczulla R.  
Urologie. 2024 Jun 17. doi: 10.1007/s00120-024-02373-9. Online ahead of print.Urologie. 2024. PMID: 38886205 German. (IF:1.2)
2. VOC-based detection of prostate cancer using an electronic nose and ion mobility spectrometry: A novel urine-based approach.  
Heers H, Chwilka O, Huber J, Vogelmeier C, Koczulla AR, Baumbach JI, Boeselt T.Heers H, et al. Prostate. 2024 Jun;84(8):756-762. doi: 10.1002/pros.24692. Epub 2024 Mar 18.Prostate. 2024. PMID: 38497426 (IF:2.6)
3. Updated S1 guideline on long/post-COVID: relevant aspects for pain medicine.  
Lemhöfer C, Koczulla AR, Meissner W, Häuser W.Lemhöfer C, et al. Schmerz. 2024 Jun;38(3):175-182. doi: 10.1007/s00482-023-00704-x. Epub 2023 Mar 16.Schmerz. 2024. PMID: 36929455 (IF:1.1)
4. Pilot study for bladder cancer detection with volatile organic compounds using ion mobility spectrometry: a novel urine-based approach.  
Heers H, Gut JM, Hofmann R, Flegar L, Derigs M, Huber J, Baumbach JI, Koczulla AR, Boeselt T.Heers H, et al. World J Urol. 2024 May 25;42(1):353. doi: 10.1007/s00345-024-05047-5.World J Urol. 2024. PMID: 38795133 (IF: 2.8)
5. Statins did not reduce the frequency of exacerbations in individuals with COPD and cardiovascular comorbidities in the COSYCONET cohort.  
Frantzi N, Nguyen XP, Herr C, Alter P, Söhler S, Soriano D, Watz H, Waschki B, Trinkmann F, Eichenlaub M, Trudzinski FC, Michels-Zetsche JD, Omlor A, Seiler F, Moneke I, Biertz F, Rohde G, Stolz D, Welte T, Kauczor HU, Kahnert K, Jörres RA, Vogelmeier CF, Bals R, Fähndrich S; German COSYCONET Cohort.Frantzi N, et al. Respir Res. 2024 May 15;25(1):207. doi: 10.1186/s12931-024-02822-1.Respir Res. 2024. PMID: 38750572 (IF:5.8)
6. Specific molecular peak analysis by ion mobility spectrometry of volatile organic compounds in urine of COVID-19 patients: A novel diagnostic approach.  
Boeselt T, Terhorst P, Kroenig J, Nell C, Spielmanns M, Boas U, Veith M, Vogelmeier C, Greulich T, Koczulla AR, Beutel B, Huber J, Heers H.Boeselt T, et al. J Virol Methods. 2024 May;326:114910. doi: 10.1016/j.jviromet.2024.114910. Epub 2024 Mar 5.J Virol Methods. 2024. PMID: 38452823 (IF:2.2)
7. COVID-19 in Lung Transplant Recipients: A Report on 10 Recent Cases.  
Reemann L, Kneidinger N, Sczepanski B, Koczulla AR.Reemann L, et al. Viruses. 2024 Apr 29;16(5):709. doi: 10.3390/v16050709.Viruses. 2024. PMID: 38793590 (IF:3.8)

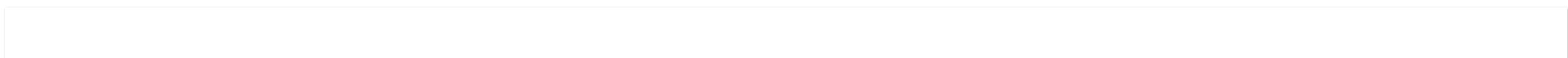
8. Practical Recommendations for Exercise Training in Patients with Long COVID with or without Post-exertional Malaise: A Best Practice Proposal.  
Gloeckl R, Zwick RH, Furlinger U, Schneeberger T, Leitl D, Jarosch I, Behrends U, Scheibenbogen C, Koczulla AR. *Sports Med Open*. 2024 Apr 24;10(1):47. doi: 10.1186/s40798-024-00695-8. *Sports Med Open*. 2024. PMID: 38658496 (IF:5.7)
9. Midregional proatrial natriuretic peptide (MRproANP) and copeptin (COPAVP) as predictors of all-cause mortality in recently diagnosed mild to moderate COPD-results from COSYCONET.  
Fähndrich S, Herr C, Teuteberg S, Alter P, Söhler S, Soriano D, Classen J, Adams J, Weinhold V, Watz H, Waschki B, Zeller T, Eichenlaub M, Trudzinski FC, Michels JD, Omlor A, Seiler F, Moneke I, Biertz F, Stolz D, Welte T, Kauczor HU, Kahnert K, Jörres RA, Vogelmeier CF, Bals R; German COSYCONET Cohort. *Respir Res*. 2024 Jan 24;25(1):56. doi: 10.1186/s12931-024-02690-9. *Respir Res*. 2024. PMID: 38267944 (IF:5.8)
10. Impaired Sleep in Patients with Post-COVID-19 Syndrome Compared to Healthy Controls: A Cross-Sectional Trial.  
Jarosch I, Schneeberger T, Stegemann A, Gloeckl R, Leitl D, Dennis C, Hitzl W, Schoen C, Koczulla AR. *Respiration*. 2024;103(4):177-181. doi: 10.1159/000536272. *Respiration*. 2024. PMID: 38432219 (IF:3.5)

### Publikationen 2023

11. European pathways of care in Alpha-1 Antitrypsin deficiency.  
Chorostowska-Wynimko J, Koczulla AR, Sucena M. *Respir Med*. 2023 Dec;220:107450. doi: 10.1016/j.rmed.2023.107450. *Respir Med*. 2023. PMID: 38661678 (IF:3.7)
12. High-intensity non-invasive ventilation during exercise-training versus without in people with very severe COPD and chronic hypercapnic respiratory failure: a randomised controlled trial.  
Schneeberger T, Dennis CJ, Jarosch I, Leitl D, Stegemann A, Gloeckl R, Hitzl W, Leidinger M, Schoenheit-Kenn U, Criée CP, Koczulla AR, Kenn K. *BMJ Open Respir Res*. 2023 Nov 22;10(1):e001913. doi: 10.1136/bmjresp-2023-001913. *BMJ Open Respir Res*. 2023. PMID: 37993279 (IF:3.6)
13. An automatically titrating oxygen-flow system during walking in hypoxaemic post-COVID-19 patients - A randomized controlled double-blind cross-over pilot trial.  
Berkel ST, Schneeberger T, Leitl D, Jarosch I, Gloeckl R, Nell C, Dennis CJ, Koczulla AR. *Respir Med Res*. 2023 Nov;84:101060. doi: 10.1016/j.resmer.2023.101060. *Respir Med Res*. 2023. PMID: 38039665 (IF:2.2)
14. Surface proteome of plasma extracellular vesicles as mechanistic and clinical biomarkers for malaria.  
Jung AL, Møller Jørgensen M, Bæk R, Artho M, Griss K, Han M, Bertrams W, Greulich T, Koczulla R, Hippenstiel S, Heider D, Suttorp N, Schmeck B. *Infection*. 2023 Oct;51(5):1491-1501. doi: 10.1007/s15010-023-02022-x. *Infection*. 2023. PMID: 36961624 (IF:5.4)

15. Diagnosis and treatment of asthma: a guideline for respiratory specialists 2023 - published by the German Respiratory Society (DGP) e.V.  
Lommatzsch M, Criée CP, de Jong CCM, Gappa M, Geßner C, Gerstlauer M, Hämäläinen N, Haidl P, Hamelmann E, Horak F, Idzko M, Ignatov A, Koczulla AR, Korn S, Köhler M, Lex C, Meister J, Milger-Kneidinger K, Nowak D, Nothacker M, Pfaar O, Pohl W, Preisser AM, Rabe KF, Riedler J, Schmidt O, Schreiber J, Schuster A, Schuhmann M, Spindler T, Taube C, Christian Virchow J, Vogelberg C, Vogelmeier CF, Wantke F, Windisch W, Worth H, Zacharasiewicz A, Buhl R; Weitere beteiligte Wissenschaftliche Fachgesellschaften und Organisationen: Deutsche Atemwegsliga e.V.; Deutsche Gesellschaft für Arbeitsmedizin und Umweltmedizin e.V.; Deutsche Gesellschaft für Allergologie und klinische Immunologie e.V.; Deutsche Gesellschaft für Gynäkologie und Geburtshilfe e.V.; Deutsche Gesellschaft für Rehabilitationswissenschaften e.V.; Gesellschaft für Pädiatrische Allergologie und Umweltmedizin e.V.; Gesellschaft für Pädiatrische Pneumologie e.V.; Bundesverband der Pneumologen, Schlaf- und Beatmungsmediziner; Österreichische Gesellschaft für Kinder- und Jugendheilkunde; Österreichische Gesellschaft für Pneumologie; Deutsche Patientenliga Atemwegserkrankungen e.V..Lommatzsch M, et al. Pneumologie. 2023 Aug;77(8):e3. doi: 10.1055/a-2284-8593. Epub 2024 Mar 21.Pneumologie. 2023. PMID: 38513695 (IF:1.2)
16. Pulmonary Rehabilitation  
Schneeberger T, Abdullayev G, Koczulla AR.Schneeberger T, et al. Rehabilitation (Stuttg). 2023 Aug;62(4):232-247. doi: 10.1055/a-2043-6767. Epub 2023 Aug 14.Rehabilitation (Stuttg). 2023. PMID: 37579755 (IF:1.4)
17. Diagnosis and treatment of asthma: a guideline for respiratory specialists 2023 - published by the German Respiratory Society (DGP) e.V.  
Lommatzsch M, Criée CP, de Jong CCM, Gappa M, Geßner C, Gerstlauer M, Hämäläinen N, Haidl P, Hamelmann E, Horak F, Idzko M, Ignatov A, Koczulla AR, Korn S, Köhler M, Lex C, Meister J, Milger-Kneidinger K, Nowak D, Nothacker M, Pfaar O, Pohl W, Preisser AM, Rabe KF, Riedler J, Schmidt O, Schreiber J, Schuster A, Schuhmann M, Spindler T, Taube C, Christian Virchow J, Vogelberg C, Vogelmeier CF, Wantke F, Windisch W, Worth H, Zacharasiewicz A, Buhl R; Weitere beteiligte Wissenschaftliche Fachgesellschaften und Organisationen: Deutsche Atemwegsliga e.V.; Deutsche Gesellschaft für Arbeitsmedizin und Umweltmedizin e.V.; Deutsche Gesellschaft für Allergologie und klinische Immunologie e.V.; Deutsche Gesellschaft für Gynäkologie und Geburtshilfe e.V.; Deutsche Gesellschaft für Rehabilitationswissenschaften e.V.; Gesellschaft für Pädiatrische Allergologie und Umweltmedizin e.V.; Gesellschaft für Pädiatrische Pneumologie e.V.; Bundesverband der Pneumologen, Schlaf- und Beatmungsmediziner; Österreichische Gesellschaft für Kinder- und Jugendheilkunde; Österreichische Gesellschaft für Pneumologie; Deutsche Patientenliga Atemwegserkrankungen e.V..Lommatzsch M, et al. Pneumologie. 2023 Aug;77(8):461-543. doi: 10.1055/a-2070-2135. Epub 2023 Jul 5.Pneumologie. 2023. PMID: 37406667 (IF:1.2)
18. S1 guidelines for the management of postviral conditions using the example of post-COVID-19  
Rabady S, Hoffmann K, Aigner M, Altenberger J, Brose M, Costa U, Denk-Linnert DM, Gruber S, Götzinger F, Helbok R, Hüfner K, Koczulla R, Kurz K, Lamprecht B, Leis S, Löffler J, Müller CA, Rittmannsberger H, Rommer PS, Sator P, Strenger V, Struhal W, Untersmayr E, Vonbank K, Wancata J, Weber T, Wendler M, Zwick RH.Rabady S, et al. Wien Klin Wochenschr. 2023 Jul;135(Suppl 4):525-598. doi: 10.1007/s00508-023-02242-z. Epub 2023 Aug 9.Wien Klin Wochenschr. 2023. PMID: 37555900 (IF:1.9)

19. Prescribing and adjusting exercise training in chronic respiratory diseases - Expert-based practical recommendations.  
Gloeckl R, Zwick RH, Furlinger U, Jarosch I, Schneeberger T, Leitl D, Koczulla AR, Vonbank K, Alexiou C, Vogiatzis I, Spruit MA. *Gloeckl R, et al. Pulmonology.* 2023 Jul-Aug;29(4):306-314. doi: 10.1016/j.pulmoe.2022.09.004. Epub 2022 Oct 20. *Pulmonology.* 2023. PMID: 36272962 (IF:10.4)
20. Rehabilitative interventions in patients with persistent post COVID-19 symptoms-a review of recent advances and future perspectives.  
Gloeckl R, Leitl D, Schneeberger T, Jarosch I, Koczulla AR. *Gloeckl R, et al. Eur Arch Psychiatry Clin Neurosci.* 2023 Jun 16. doi: 10.1007/s00406-023-01631-9. Online ahead of print. *Eur Arch Psychiatry Clin Neurosci.* 2023. PMID:37326700 (IF:1.9)
21. Volatile Phases Derived from Serum, DC, or MLC Culture Supernatants to Deduce a VOC-Based Diagnostic Profiling Strategy for Leukemic Diseases.  
Baudrexler T, Boeselt T, Li L, Bohlscheid S, Boas U, Schmid C, Rank A, Schmohl J, Koczulla R, Schmetzer HM. *Baudrexler T, et al. Biomolecules.* 2023 Jun 14;13(6):989. doi: 10.3390/biom13060989. *Biomolecules.* 2023. PMID: 37371569 (IF:4.8)
22. S2k-Guideline SARS-CoV-2, COVID-19 and (early) rehabilitation - a consensus-based guideline for Germany.  
Platz T, Berlit P, Dohle C, Fickenscher H, Guha M, Köllner V, Kramer A, Koczulla R, Schlitt A. *Platz T, et al. GMS Hyg Infect Control.* 2023 May 12;18:Doc12. doi: 10.3205/dgkh000438. eCollection 2023. *GMS Hyg Infect Control.* 2023. PMID: 37261059 (IF:3.0)
23. The problem of long/post-COVID in expert assessments  
Eyfferth T, Koczulla AR, Freytag HW, Krahl G, Ackermann C, Bultmann S, Reimertz R, Dresing K; Sektion Begutachtung der DGOU. *Eyfferth T, et al. Unfallchirurgie (Heidelb).* 2023 May;126(5):373-386. doi: 10.1007/s00113-023-01297-x. Epub 2023 Apr 20. *Unfallchirurgie (Heidelb).* 2023. PMID: 37079057 (IF:1.0)
24. Using a smartphone application maintains physical activity following pulmonary rehabilitation in patients with COPD: a randomised controlled trial  
Spielmanns M, Gloeckl R, Jarosch I, Leitl D, Schneeberger T, Boeselt T, Huber S, Kaur-Bollinger P, Ulm B, Mueller C, Bjoerklund J, Spielmanns S, Windisch W, Pekacka-Egli AM, Koczulla AR. *Spielmanns M, et al. Thorax.* 2023 May;78(5):442-450. doi: 10.1136/thoraxjnl-2021-218338. Epub 2022 Apr 21. *Thorax.* 2023. PMID: 35450945 (IF:9.0)
25. Automatic oxygen titration versus constant oxygen flow rates during walking in COPD: a randomised controlled, double-blind, crossover trial.  
Schneeberger T, Jarosch I, Leitl D, Gloeckl R, Hitzl W, Dennis CJ, Geyer T, Criée CP, Koczulla AR, Kenn K. *Schneeberger T, et al. Thorax.* 2023 Apr;78(4):326-334. doi: 10.1136/thoraxjnl-2020-216509. Epub 2021 Oct 16. *Thorax.* 2023. PMID: 34656996 (IF:9.0)
26. S1 Leitlinie Long-/Post-COVID Syndrom.  
Gogoll C, Peters EMJ, Köllner V, Koczulla AR. *Gogoll C, et al. Pflege Z.* 2023;76(6):30-33. doi: 10.1007/s41906-023-2076-8. Epub 2023 May 17. *Pflege Z.* 2023. PMID: 37216183 (IF:0.8)



## Publikationen 2022

27. German S1 Guideline Long-/Post-COVID.  
Koczulla AR, Ankermann T, Behrends U, Berlit P, Berner R, Böing S, Brinkmann F, Frank U, Franke C, Glöckl R, Gogoll C, Häuser W, Hohberger B, Huber G, Hummel T, Köllner V, Krause S, Kronsbein J, Maibaum T, Otto-Thöne A, Pecks U, Peters EMJ, Peters S, Pfeifer M, Platz T, Pletz M, Powitz F, Rabe KF, Scheibenbogen C, Schneider D, Stallmach A, Stegbauer M, Tenenbaum T, Töpfner N, von Versen-Höynck F, Wagner HO, Waller C, Widmann CN, Winterholler C, Wirtz H, Zwick R. *Pneumologie*. 2022 Dec;76(12):855-907. doi: 10.1055/a-1946-3230. Epub 2022 Dec 7. PMID: 36479679 Free article. German. (IF:0,49)
28. Prescribing and adjusting exercise training in chronic respiratory diseases - Expert-based practical recommendations.  
Gloeckl R, Zwick RH, Furlinger U, Jarosch I, Schneeberger T, Leitl D, Koczulla AR, Vonbank K, Alexiou C, Vogiatzis I, Spruit MA. *Pulmonology*. 2022 Oct 20:S2531-0437(22)00215-X. doi: 10.1016/j.pulmoe.2022.09.004. Online ahead of print. PMID: 36272962 Free article. (IF:3,48)
29. Pulmonary Rehabilitation in Patients with Chronic Obstructive Airway Diseases.  
Schultz K, Koczulla AR. *Dtsch Med Wochenschr*. 2022 Aug;147(15):961-973. doi: 10.1055/a-1854-7286. Epub 2022 Aug 1. PMID: 35915882 German. No abstract available. (IF 0,63)
30. Millimeter-wave gas spectroscopy for breath analysis of COPD patients in comparison to GC-MS.  
Rothbart N, Stanley V, Koczulla R, Jarosch I, Holz O, Schmalz K, Hübers HW. *J Breath Res*. 2022 Jun 28;16(4). doi: 10.1088/1752-7163/ac77aa. PMID: 35688126 (IF:3,26)
31. Sex-specific associations of comorbidity and pulmonary morbidity with mortality in chronic obstructive pulmonary disease: results from COSYCONET.  
Trudzinski FC, Jörres RA, Alter P, Walter J, Watz H, Koch A, John M, Lommatzsch M, Vogelmeier CF, Kauczor HU, Welte T, Behr J, Tufman A, Bals R, Herth FJF, Kahnert K; COSYCONET Study Group. *Sci Rep*. 2022 May 24;12(1):8790. doi: 10.1038/s41598-022-12828-8. PMID: 35610473 (IF:4,38)
32. Using a smartphone application maintains physical activity following pulmonary rehabilitation in patients with COPD: a randomised controlled trial.  
Spielmans M, Gloeckl R, Jarosch I, Leitl D, Schneeberger T, Boeselt T, Huber S, Kaur-Bollinger P, Ulm B, Mueller C, Bjoerklund J, Spielmans S, Windisch W, Pekacka-Egli AM, Koczulla AR. *Thorax*. 2022 Apr 21:thoraxjnl-2021-218338. doi: 10.1136/thoraxjnl-2021-218338. Online ahead of print. PMID: 35450945 (IF:9,14)
33. Perceptions of Noninvasive Ventilation During Exercise in Noninvasive Ventilation-Naïve Patients With COPD.  
Dennis CJ, Menadue C, Schneeberger T, Leitl D, Schoenheit-Kenn U, Harmer AR, Barnes DJ, Koczulla AR, Kenn K, Alison JA. *Respir Care*. 2022 May;67(5):543-552. doi: 10.4187/respcare.09657. Epub 2022 Mar 22. PMID: 35318238 Clinical Trial. (IF: 2.26)

34. Outpatient Pulmonary Rehabilitation in Patients with Long COVID Improves Exercise Capacity, Functional Status, Dyspnea, Fatigue, and Quality of Life.  
Nopp S, Moik F, Klok FA, Gattinger D, Petrovic M, Vonbank K, Koczulla AR, Ay C, Zwick RH. *Respiration*. 2022;101(6):593-601. doi: 10.1159/000522118. Epub 2022 Feb 24. PMID: 35203084 (IF:3.55)
35. Rehabilitation bei Post-COVID-19-Patienten - individuell und zielgerichtet.  
Leitl D, Schneeberger T, Glöckl R, Jarosch I, Koczulla AR. *Pneumo News*. 2022;14(1):30-39. doi: 10.1007/s15033-022-2806-4. Epub 2022 Feb 16. PMID: 35194469  
Review. German. No abstract available.
36. Reduced decline of lung diffusing capacity in COPD patients with diabetes and metformin treatment.  
Kahnert K, Andreas S, Kellerer C, Lutter JI, Lucke T, Yildirim Ö, Lehmann M, Seissler J, Behr J, Frankenberger M, Bals R, Watz H, Welte T, Trudzinski FC, Vogelmeier CF, Alter P, Jörres RA; COSYCONET Study Group. *Sci Rep*. 2022 Jan 26;12(1):1435. doi: 10.1038/s41598-022-05276-x. PMID: 35082306 (IF:4.9)

## Publikationen 2021

37. Guideline S1: Long COVID: Diagnostics and treatment strategies.  
Rabady S, Altenberger J, Brose M, Denk-Linnert DM, Fertl E, Götzinger F, de la Cruz Gomez Pellin M, Hofbaur B, Hoffmann K, Hoffmann-Dorninger R, Koczulla R, Lammel O, Lamprecht B, Löffler-Ragg J, Müller CA, Poggenburg S, Rittmannsberger H, Sator P, Strenger V, Vonbank K, Wancata J, Weber T, Weber J, Weiss G, Wendler M, Zwick RH. *Wien Klin Wochenschr*. 2021 Dec;133(Suppl 7):237-278. doi: 10.1007/s00508-021-01974-0. Epub 2021 Dec 1. PMID: 34851455 German. (IF:2.27)
38. The pulmonary view on post-/Long-COVID.  
Jarosch I, Leitl D, Koczulla AR. *Dtsch Med Wochenschr*. 2021 Nov;146(23):1559-1563. doi: 10.1055/a-1578-0347. Epub 2021 Nov 26. PMID: 34826844 German. (IF:0.65)
39. Relationship between body composition, exercise capacity and health-related quality of life in idiopathic pulmonary fibrosis.  
Machado FVC, Bloem AEM, Schneeberger T, Jarosch I, Gloeckl R, Winterkamp S, Franssen FME, Koczulla AR, Pitta F, Spruit MA, Kenn K. *BMJ Open Respir Res*. 2021 Oct;8(1):e001039. doi: 10.1136/bmjresp-2021-001039. PMID: 34711642 (IF:4.58)
40. Automatic oxygen titration versus constant oxygen flow rates during walking in COPD: a randomised controlled, double-blind, crossover trial.  
Schneeberger T, Jarosch I, Leitl D, Gloeckl R, Hitzl W, Dennis CJ, Geyer T, Criée CP, Koczulla AR, Kenn K. *Thorax*. 2021 Oct 16:thoraxjnl-2020-216509. doi: 10.1136/thoraxjnl-2020-216509. Online ahead of print. PMID: 34656996 (IF:9.20)
41. Health and functional status of tiotropium/olodaterol-treated patients with COPD: results from the AERIAL® non-interventional study.  
Gillissen A, Marseille A, Skowasch D, Ritz J, Mattiucci-Guehlke M, Pabst S, Greulich T, Koczulla R. *ERJ Open Res*. 2021 Sep 6;7(3):00004-2021. doi: 10.1183/23120541.00004-2021. eCollection 2021 Jul. PMID: 34513983 (IF:4.20)

42. S1 Guideline Post-COVID/Long-COVID.  
Koczulla AR, Ankermann T, Behrends U, Berlit P, Böing S, Brinkmann F, Franke C, Glöckl R, Gogoll C, Hummel T, Kronsbein J, Maibaum T, Peters EMJ, Pfeifer M, Platz T, Pletz M, Pongratz G, Powitz F, Rabe KF, Scheibenbogen C, Stallmach A, Stegbauer M, Wagner HO, Waller C, Wirtz H, Zeiher A, Zwick RH. *Pneumologie*. 2021 Nov;75(11):869-900. doi: 10.1055/a-1551-9734. Epub 2021 Sep 2. PMID: 34474488 German. (IF:0.41)
43. Pulmonary rehabilitation in long COVID: more than just natural recovery!?  
Gloeckl R, Leitl D, Jarosch I, Schneeberger T, Nell C, Stenzel N, Daher A, Dreher M, Vogelmeier CF, Kenn K, Koczulla AR. *ERJ Open Res*. 2021 Aug 31;7(3):00454-2021. doi: 10.1183/23120541.00454-2021. eCollection 2021 Jul. PMID: 34471633 (IF:4.20)
44. Detection of Volatile Organic Compounds as Potential Novel Biomarkers for Chorioamnionitis - Proof of Experimental Models.  
Goedicke-Fritz S, Werner T, Niemarkt HJ, Wolfs TGAM, Baumbach JI, Kemp MW, Jobe AH, Rogosch T, Bous M, Kaiser E, Stutz R, Meyer S, Maier RF, Koczulla AR, Spiller OB, Kramer BW, Zemlin M. *Front Pediatr*. 2021 Jul 22;9:698489. doi: 10.3389/fped.2021.698489. eCollection 2021. PMID: 34368028 (IF:3.42)
45. Diagnostic Accuracy of B-Mode- and Contrast-Enhanced Ultrasound in Differentiating Malignant from Benign Pleural Effusions.  
Safai Zadeh E, Weide J, Dietrich CF, Trenker C, Koczulla AR, Görg C. *Diagnostics (Basel)*. 2021 Jul 19;11(7):1293. doi: 10.3390/diagnostics11071293. PMID: 34359376 (IF:3.91)
46. Bilevel Noninvasive Ventilation During Exercise Reduces Dynamic Hyperinflation and Improves Cycle Endurance Time in Severe to Very Severe COPD.  
Dennis CJ, Menadue C, Schneeberger T, Leitl D, Schoenheit-Kenn U, Hoyos CM, Harmer AR, Barnes DJ, Koczulla AR, Kenn K, Alison JA. *Chest*. 2021 Dec;160(6):2066-2079. doi: 10.1016/j.chest.2021.06.050. Epub 2021 Jul 2. PMID: 34224690 (IF:10.26)
47. Influence of an Acute Exacerbation During Pulmonary Rehabilitation in Patients With Chronic Obstructive Pulmonary Disease Awaiting Lung Transplantation.  
Gloeckl R, Jarosch I, Leitl D, Schneeberger T, Nell C, Langer D, Koczulla AR, Kenn K. *J Cardiopulm Rehabil Prev*. 2021 Jul 1;41(4):267-270. doi: 10.1097/HCR.0000000000000613. PMID: 34158456 (IF:3.04)
48. Gender specific airway gene expression in COPD sub-phenotypes supports a role of mitochondria and of different types of leukocytes.  
Esteve-Codina A, Hofer TP, Burggraf D, Heiss-Neumann MS, Gesierich W, Boland A, Olaso R, Bihoreau MT, Deleuze JF, Moeller W, Schmid O, Soler Artigas M, Renner K, Hohlfeld JM, Welte T, Fuehner T, Jerrentrup L, Koczulla AR, Greulich T, Prasse A, Müller-Quernheim J, Gupta S, Brightling C, Subramanian DR, Parr DG, Kolsum U, Gupta V, Barta I, Döme B, Strausz J, Stendardo M, Piattella M, Boschetto P, Korzybski D, Gorecka D, Nowinski A, Dabad M, Fernández-Callejo M, Endesfelder D, Zu Castell W, Hiemstra PS, Venge P, Noessner E, Griebel T, Heath S, Singh D, Gut I, Ziegler-Heitbrock L. *Sci Rep*. 2021 Jun 18;11(1):12848. doi: 10.1038/s41598-021-91742-x. PMID: 34145303 (IF:4.99)
49. Pulmonary Rehabilitation in Patients with Chronic Obstructive Airway Diseases.  
Schultz K, Koczulla AR. *Pneumologie*. 2021 Jun;75(6):457-473. doi: 10.1055/a-1239-0026. Epub 2021 Jun 11. PMID: 34116577 German. (IF:0.49)

50. Benefits of pulmonary rehabilitation in COVID-19: a prospective observational cohort study.  
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61. The Distribution of Alpha-1 Antitrypsin Genotypes Between Patients with COPD/Emphysema, Asthma and Bronchiectasis  
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62. Benefits of pulmonary rehabilitation in COVID-19 – a prospective observational cohort study  
Authors: Rainer Gloeckl PhD\* 1,2, Daniela Leitl MSc\* 1,2, Tessa Schneeberger 1,2, Inga Jarosch 1,2, Christoph Nell PhD<sup>3</sup>, Nikola Stenzel PhD<sup>4</sup>, Claus F. Vogelmeier MD<sup>5</sup>, Klaus Kenn MD<sup>1,2</sup>, Andreas R. Koczulla MD ERJ Open Res. 2021 May 31;7(2):00108-2021. doi: 10.1183/23120541.00108-2021. eCollection 2021 Apr. PMID: 34095290 (IF:4.20)
63. Improving the Lives of Patients with Alpha-1 Antitrypsin Deficiency.  
Sandhaus Robert, Charlie Strange, Andrea Zanichelli, Karen Skålvoll, Andreas Rembert **Koczulla**, Robert A Stockley  
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83. Comparison of supplemental oxygen delivery by continuous versus demand based flow systems in hypoxemic COPD patients - A randomized, single-blinded cross-over study.  
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90. Digital Health in Respiratory Medicine - Current Status.  
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91. COPD: Rethinking Patient Management - How to Approach a Challenging Patient Group Successfully.  
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92. Easy come, easy go? Current strategies for maintaining the effects of pulmonary rehabilitation in COPD patients.  
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95. Exercise Training in Patients with Pulmonary Hypertension: A Systematic Review and Meta-analysis.  
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97. Working Conditions and Quality of Specialized Training in Respiratory Medicine in Germany - Status quo, Challenges and Perspectives.  
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98. Comparison of continuous flow versus demand oxygen delivery systems in patients with COPD: A systematic review and meta-analysis.  
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