

PUBLICATIONS - Univ.-Prof. Dr. med. Christine Espinola-Klein

230 publications in total (148 original articles, 82 review articles)

H-index, Scopus (15.04.2026) = 43

	First/Senior-Author	Co-Author	Collaborator	Total
Original article	35	101	12	148
Review article	52	30	-	82
Total	87	131	12	230

1. Vosseler M, Hobohm L, Schmitt VH, Hahad O, Munzel T, Lurz P, **Espinola-Klein C.**, Keller K. Modified Mansoor's Self-Report Tool for Cardiovascular Risk Assessment predicts MACCE and Amputations in Peripheral Artery Disease
VASA 2026, in press
Original article, Co-Author, Impact Factor 2024: 2,4
2. Schmitt VH, Hahad O, Sivanathan V, Brochhausen C, **Espinola-Klein C**, Münzel T, Lurz P, Gori T, Hobohm L, Keller K.
Impact of type 2 diabetes mellitus on in-hospital outcomes in patients with ST-elevation myocardial infarction: A nationwide study in Germany.
Metabol Open. 2026 Mar 25;30:100462. doi: 10.1016/j.metop.2026.100462.
Original article, Co-Author, Impact Factor 2024: 2,7
3. Meertens M, Schmitt VH, Kalaja I, Macherey-Meyer S, Derda A, Brochhausen C, Münzel T, Lurz P, Hobohm L, **Espinola-Klein C**, Keller K.
Categorization of Patients with Peripheral Artery Disease by Charlson Comorbidity Index.
Eur J Prev Cardiol. 2026 Mar 10:zwag146. doi: 10.1093/eurjpc/zwag146.
Original article, Co-Author, Impact Factor 2024: 7,5
4. Steiner D, Staudacher M, Wildner B, Steiner S, **Espinola-Klein C**, Mazzolai L, Ay C, Schlager O.
Structured exercise training and rehabilitation in patients with acute venous thromboembolism: a systematic review of randomized controlled trials.
Eur J Prev Cardiol. 2026 Mar 6:zwag096. doi: 10.1093/eurjpc/zwag096.
Original article, Co-Author, Impact Factor 2024: 7,5
5. Keller K, Schmitt VH, Hahad O, **Espinola-Klein C**, Hobohm L.
Increasing Obesity Rates Worldwide from 1976 to 2016: The Obesity Epidemic.
J Clin Med. 2026 Jan 5;15(1):394. doi: 10.3390/jcm15010394.PMID: 41517642
Original article, Co-Author, Impact Factor 2024: 2,9
6. Breitbart P, Birkemeyer R, **Espinola-Klein C**, Mehilli J, Prog R, Schenke K.
Occlusions of the radial artery after cardiac catheter interventions—Statement of the German Cardiac Society (DGK): From the Committee for Clinical Cardiovascular Medicine
Die Kardiologie 2026; 20: 51-64
Review article, Co-Author, Impact Factor 2024 0,5
7. Meertens MM, Kalaja I, **Espinola-Klein C**.
It is all about inflammation.
Vasa. 2025 Nov;54(6):429. doi: 10.1024/0301-1526/a001232.PMID: 41178176
Review article, First/Senior-Author, Impact Factor 2024: 2,4
8. Kalaja I, **Espinola-Klein C**
Tackling Lipoprotein (a) from heart to toes.
Eur J Prev Cardiol. 2025 Oct 17:zwaf670. doi: 10.1093/eurjpc/zwaf670.
Review article, First/Senior-Author, Impact Factor 2024 7,5

9. Keller K, Schmitt VH, Sivanathan V, Hahad O, Münzel T, Lurz P, **Espinola-Klein C**, Barco S, Konstantinides S, Hobohm L.
Cystic fibrosis and its impact on prognosis in pulmonary embolism.
Thromb Res. 2025 Nov;255:109499. doi: 10.1016/j.thromres.2025.109499.
Original article, Co-Author, Impact Factor 2024: 3,4

10. Keller K, Schmitt VH, Hobohm L, **Espinola-Klein C**.
Risk factors for myocardial infarction in patients with peripheral artery disease.
Int J Cardiol. 2026 Jan 1;442:133898. doi: 10.1016/j.ijcard.2025.133898.
Original article, Co-Author, Impact Factor 2024: 3,2

11. Keller K, Sagoschen I, Schmitt VH, Barco S, Sivanathan V, Hahad O, Schmidt FP, **Espinola-Klein C**, Konstantinides S, Münzel T, Hobohm L.
In-hospital course of children with COVID-19 infection - Results of the German nationwide inpatient sample.
Public Health Pract (Oxf). 2025 Jul 1;10:100638. doi: 10.1016/j.puhip.2025.100638.
Original article, Co-Author, Impact Factor 2024: 1,9

12. Schlager O, Campello E, Madaric J, Belch J, Mazzolai L, Brodmann M, Lichtenberg M, Baccellieri D, Rammos C, **Espinola-Klein C**, Heiss C, Theurl M.
2025 ESVM Guidelines on interventional treatment of venous thromboembolism.
Vasa. 2025 Nov;54(6):365-381. doi: 10.1024/0301-1526/a001211.
Review article, Co-Author, Impact Factor 2025: 2,4

13. Kalaja I, Smeets RR, Wegner M, Macherey-Meyer S, Heyne S, **Espinola-Klein C**, Mees BME, Meertens MM. Ultrasound Guided Versus Conventional Closure Device Deployment Following Transfemoral Endovascular Procedures: A Systematic Review and Meta-analysis.
Eur J Vasc Endovasc Surg. 2025 Oct;70(4):469-479. doi: 10.1016/j.ejvs.2025.06.023.
Original article, Co-Author, Impact Factor 2024: 6,8

14. **Espinola-Klein C**
[Anti-thrombotic therapy for polyvascular atherosclerosis].
Dtsch Med Wochenschr. 2025 Jun;150(13):741-746. doi: 10.1055/a-2359-4422.
Review article, First/Senior-Author, Impact Factor 2024: 0,4

15. **Espinola-Klein C**.
[Polyvascular atherosclerosis].
Dtsch Med Wochenschr. 2025 Jun;150(13):723. doi: 10.1055/a-2359-4339.
Review article, First/Senior-Author, Impact Factor 2024: 0,4

16. Keller K, Hobohm L, Schmitt VH, Hahad O, Labenz C, **Espinola-Klein C**, Möhler M, Sivanathan V.
Cardiovascular comorbidities predict mortality in acute pancreatitis.
Int J Cardiol. 2025 Sep 15;435:133409. doi: 10.1016/j.ijcard.2025.133409.
Original article, Co-Author, Impact Factor 2024: 3,2

17. **Espinola-Klein C**, Schellong S.
[Interventions in vascular medicine].
Inn Med (Heidelb). 2025 Mar;66(3):247-248. doi: 10.1007/s00108-025-01875-8.
Review article, First/Senior-Author, Impact Factor: 0,4

18. Malyar N, Behrendt CA, **Espinola-Klein C**, Grözinger G, Lawall H, Nechwatal R, Ploenes C, Rother U, Ahmadi R, Baum E, Böhner H, Dörr G, Dörr M, Görtz H, Huppert P, Jünger M, Kalka C, Lorenzen HP, Maier-Hasselmann A, Müller O, Nothacker M, Rittig K, Schmidt-Trucksäss A, Stegemann E, Steinbauer M, Stojanovic T, Tiefenbacher C, Tzabazis A, Wilhelmi M.
S3-Leitlinie zur Diagnostik, Therapie und Nachsorge der peripheren arteriellen Verschlusskrankheit.
Vasa. 2025 Feb;54(S113):1-119. doi: 10.1024/0301-1526/a001171.PMID: 39996606
Review article, First/Senior-Author, Impact Factor 2025: 2,4

19. **Espinola-Klein C**, Schellong S.
[Interventions in vascular medicine].
Inn Med 2025; 66: 247-248. doi: 10.1007/s00108-025-01875-8.
Review article, First/Senior-Author, Impact Factor 2024: 0,4

- 20. Espinola-Klein C.**
Prevent peripheral arterial disease and remain alive!
Eur Heart J. 2025; ehae934. doi: 10.1093/eurheartj/ehae934.
Review article, First/Senior-Author, Impact Factor 2024: 35,6
21. Rammos C, Barco S, Behrendt CA, Belch J, Blessing E, Brodmann M, **Espinola-Klein C**, Heiss C, Korosoglou G, Schlager O, Müller OJ; editorial board of Vasa.
The year in vascular medicine: Highlights in Vasa - European Journal of Vascular Medicine 2024.
Vasa. 2025; 54: 1-4. doi: 10.1024/0301-1526/a001166.
Review article, Co-Author, Impact Factor 2024: 2,4
22. Keller K, Sagoschen I, Schmitt VH, Sivanathan V, Farmakis IT, Hahad O, Koelmel S, Schmidt FP, **Espinola-Klein C**, Konstantinides S, Münzel T, Lurz P, Hobohm L.
Risk factors for intensive care admission in childhood patients with COVID-19 - Results of the German nationwide inpatient sample.
Respir Med. 2025; 236: 107880. doi: 10.1016/j.rmed.2024.107880.
Original article, Co-Author, Impact Factor 2024: 3,1
23. Benzidia I, **Espinola-Klein C**.
Moving a lot prevents the clot.
Eur J Prev Cardiol. 2025 Jan 6;32(1):75-76. doi: 10.1093/eurjpc/zwae360.
Review article, First/Senior-Author, Impact Factor 2024: 7,5
24. Schmitt VH, Hobohm L, Brochhausen C, **Espinola-Klein C**, Lurz P, Münzel T, Hahad O, Keller K.
Sarcopenia Influences Clinical Outcome in Hospitalized Patients with Peripheral Artery Disease Aged 75 Years and Older.
Ann Vasc Surg. 2025 Jan;110(Pt B):54-65. doi: 10.1016/j.avsg.2024.09.066.
Original article, Co-Author, Impact Factor 2024: 1,6
25. Keller K, Sagoschen I, Farmakis IT, Mohr K, Valerio L, Wild J, Barco S, Schmidt FP, Gori T, **Espinola-Klein C**, Münzel T, Lurz P, Konstantinides S, Hobohm L.
Intensive care treatment in acute pulmonary embolism in Germany, 2016 to 2020: a nationwide inpatient database study.
Res Pract Thromb Haemost. 2024; 8: 102545. doi: 10.1016/j.rpth.2024.102545.
Original article, Co-Author, Impact Factor 2024: 2,6
- 26. Espinola-Klein C.**
[Venous thromboembolism].
Dtsch Med Wochenschr. 2024; 149:1179. doi: 10.1055/a-2231-2534.
Review article, First/Senior-Author, Impact Factor 2024: 0,7
27. Keller K, Schmitt VH, Brochhausen C, Hahad O, Engelhardt M, **Espinola-Klein C**, Münzel T, Lurz P, Konstantinides S, Hobohm L.
Sarcopenia influences usage of reperfusion treatment in patients with pulmonary embolism aged 75 years and older.
Int J Cardiol Heart Vasc. 2024 Jul 19;53:101470. doi: 10.1016/j.ijcha.2024.101470.
Original article, Co-Author, Impact Factor 2024: 2,3
28. Graafen D, Bart W, Halfmann MC, Müller L, Hobohm L, Yang Y, Neufang A, **Espinola-Klein C**, Pitton MB, Kloeckner R, Varga-Szemes A, Emrich T.
In vitro and in vivo optimized reconstruction for low-keV virtual monoenergetic photon-counting detector CT angiography of lower legs.
Eur Radiol Exp. 2024; 8: 89. doi: 10.1186/s41747-024-00481-x.
Original article, Co-Author, Impact Factor 2024: 3,6

29. Keller K, Sivanathan V, Farmakis IT, Schmitt VH, **Espinola-Klein C**, Schmidt FP, Münzel T, Konstantinides S, Hobohm L.
Incidence and impact of venous thromboembolism in hospitalized patients with acute pancreatitis. *Dig Liver Dis.* 2024; 56: 2085-2094. doi: 10.1016/j.dld.2024.06.023.
Original article, Co-Author, Impact Factor 2024: 2,6
30. **Espinola-Klein C.**
[Lower extremity arterial disease (LEAD)].
Herz. 2024; 49: 313-318. doi: 10.1007/s00059-024-05252-3.
Review article, First/Senior-Author, Impact Factor 2024: 0,9
31. Ray KK, Aguiar C, Arca M, Connolly DL, Eriksson M, Ferrières J, Laufs U, Mostaza JM, Nanchen D, Bardet A, Lamparter M, Chhabra R, Soronen J, Rietzschel E, Strandberg T, Toplak H, Visseren FLJ, Catapano AL; SANTORINI Study Investigators.
Use of combination therapy is associated with improved LDL cholesterol management: 1-year follow-up results from the European observational SANTORINI study.
Eur J Prev Cardiol. 2024; 31: 1792-1803. doi: 10.1093/eurjpc/zwae199.PMID: 38861400
Original article, Collaborator, Impact Factor 2024: 7,5
32. Linnemann B, Beyer-Westendorf J, **Espinola-Klein C**, Mühlberg KS, Müller OJ, Klamroth R.
Management of Deep Vein Thrombosis: An Update Based on the Revised AWMF S2k Guideline. *Hamostaseologie.* 2024; 44: 97-110. doi: 10.1055/a-2178-6574.
Review article, Co-Author, Impact Factor 2024: 1,4
33. Keller K, Schmitt VH, Hahad O, **Espinola-Klein C**, Münzel T, Lurz P, Konstantinides S, Hobohm L.
Categorization of Patients With Pulmonary Embolism by Charlson Comorbidity Index. *Am J Med.* 2024; 137: 727-735. doi: 10.1016/j.amjmed.2024.04.025.
Original article, Co-Author, Impact Factor 2024: 2,0
34. Mazzolai L, Belch J, Venermo M, Aboyans V, Brodmann M, Bura-Rivière A, Debus S, **Espinola-Klein C**, Harwood AE, Hawley JA, Lanzi S, Madarič J, Mahé G, Malatesta D, Schlager O, Schmidt-Trucksäss A, Seenan C, Sillesen H, Tew GA, Visonà A.
Exercise Therapy for Chronic Symptomatic Peripheral Artery Disease: A Clinical Consensus Document of the European Society of Cardiology Working Group on Aorta and Peripheral Vascular Diseases in Collaboration With the European Society of Vascular Medicine and the European Society for Vascular Surgery. *Eur J Vasc Endovasc Surg.* 2024: S1078-5884(24)00011-X. doi: 10.1016/j.ejvs.2024.01.009.
Review article, Co-Author, Impact Factor 2024: 2,5
35. Mazzolai L, Belch J, Venermo M, Aboyans V, Brodmann M, Bura-Rivière A, Debus S, **Espinola-Klein C**, Harwood AE, Hawley JA, Lanzi S, Madarič J, Mahé G, Malatesta D, Schlager O, Schmidt-Trucksäss A, Seenan C, Sillesen H, Tew GA, Visonà A.
Exercise therapy for chronic symptomatic peripheral artery disease. *Eur Heart J.* 2024; 45: 1303-1321. doi: 10.1093/eurheartj/ehad734.PMID: 38461405
Review article, Co-Author, Impact Factor 2024: 35,7
36. Mazzolai L, Belch J, Venermo M, Aboyans V, Brodmann M, Bura-Rivière A, Debus S, **Espinola-Klein C**, Harwood AE, Hawley JA, Lanzi S, Madarič J, Mahé G, Malatesta D, Schlager O, Schmidt-Trucksäss A, Seenan C, Sillesen H, Tew GA, Visonà A.
Exercise therapy for chronic symptomatic peripheral artery disease. *Vasa.* 2024; 53: 87-108. doi: 10.1024/0301-1526/a001112
Review article, Co-Author, Impact Factor 2024: 2,4

37. Espinola-Klein, C.

Vascular diseases in diabetes patients: Special aspects of peripheral arterial disease (PAD) | Gefäßkrankungen bei Diabetes mellitus: Besonderheiten der PAVK (periphere arterielle Verschlusskrankheit)
Diabetologie, 2024; 20: 293–302.

Review article, First-/Senior-Author, Impact Factor 2024: 0,7

38. Rammos C, Barco S, Behrendt CA, Brodmann M, Heiss C, **Espinola-Klein C**, Korosoglou G, Müller OJ
The year in vascular medicine: Highlights in Vasa - European Journal of Vascular Medicine 2023.
Vasa. 2024; 53:1-3. doi: 10.1024/0301-1526/a001107

Review article, Co-Author, Impact Factor 2024: 2,4

39. Marx N, Federici M, Schütt K, Müller-Wieland D, Crawford C, Eliasson B, **Espinola-Klein C**, Fauchier L, Halle M, Kautzky-Willer A, Lambrinou E, Lesiak M, Lettino M, Mullens W, Rocca B, Sattar N; ESC Guidelines for the management of diabetes. ESC Scientific Document Group.
G Ital Cardiol 2024: 1e-103e. doi: 10.1714/4162.41558.

Review article, Co-Author, Impact Factor 2024: 0,5

40. Betge S, Engelbertz C, **Espinola-Klein C**, Ito W, Heiss C, Heilmeyer B, Langhoff R, Malyar NM.
Analysis of endovascular therapy for peripheral arterial disease in all German hospitals.
Vasa. 2023; 52:366-378. doi: 10.1024/0301-1526/a001093.

Original article, Co-Author, Impact Factor 2023: 2,1

41. Krug J, Bochenek ML, Gogiraju R, Laubert-Reh D, Lackner KJ, Münzel T, Wild PS, **Espinola-Klein C**, Schäfer K.
Circulating Soluble EPCR Levels Are Reduced in Patients with Ischemic Peripheral Artery Disease and Associated with Markers of Endothelial and Vascular Function.
Biomedicines. 2023; 11:2459. doi: 10.3390/biomedicines11092459.

Original article, Co-Author, Impact factor 2023: 3,9

42. Espinola-Klein C.

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Dtsch Med Wochenschr. 2023; 148: 1287-1292. doi: 10.1055/a-2017-7629.

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43. Espinola-Klein C.

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Dtsch Med Wochenschr. 2023;148: 1273. doi: 10.1055/a-2009-6072.

Editorial, First-/Senior-Author, Impact Factor 2023: 0,6

44. Schmitt VH, Hobohm L, Sagoschen I, Sivanathan V, Hahad O, **Espinola-Klein C**, Münzel T, Keller K.
Diabetes Mellitus and Its Association with Adverse In-Hospital Outcomes in Patients with COVID-19-A Nationwide Study.
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45. Marx N, Federici M, Schütt K, Müller-Wieland D, Ajjan RA, Antunes MJ, Christodorescu RM, Crawford C, Di Angelantonio E, Eliasson B, **Espinola-Klein C**, Fauchier L, Halle M, Herrington WG, Kautzky-Willer A, Lambrinou E, Lesiak M, Lettino M, McGuire DK, Mullens W, Rocca B, Sattar N; ESC Scientific Document Group.
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Review article, Co-Author, Impact factor 2023: 37,6

46. Linnemann B, **Espinola-Klein C**.
Thromboembolic disease - the angiologist's point of view
Dtsch Med Wochenschr. 2023; 148: 890-898. doi: 10.1055/a-1825-7033.
Review article, First-/Senior-Author, Impact Factor 2023: 0,6
47. Ten Cate V, Rapp S, Schulz A, Pallares Robles A, Jurk K, Koeck T, **Espinola-Klein C**, Halank M, Seyfarth HJ, Beutel ME, Schuster AK, Marini F, Hobohm L, Lankeit M, Lackner KJ, Ruf W, Münzel T, Andrade-Navarro MA, Prochaska JH, Konstantinides SV, Wild P
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J Thromb Haemost. 2023; 21: 2797-2810. doi: 10.1016/j.jtha.2023.07.010.
Original article, Co-Author, Impact Factor 2023: 5,5
48. Pallares Robles A, Ten Cate V, Lenz M, Schulz A, Prochaska JH, Rapp S, Koeck T, Leineweber K, Heitmeier S, Opitz CF, Held M, **Espinola-Klein C**, Lackner KJ, Münzel T, Konstantinides SV, Ten Cate-Hoek A, Ten Cate H, Wild PS
Unsupervised clustering of venous thromboembolism patients by clinical features at presentation identifies novel endotypes that improve prognostic stratification.
Thromb Res. 2023; 227: 71-81. doi: 10.1016/j.thromres.2023.04.023.
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49. Meuli L, Stadlbauer T, Stähli BE, **Espinola-Klein C**, Zimmermann A, On Behalf Of The Patent Study Collaborators
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50. Rother U, Dörr G, Malyar N, Müller OJ, Steinbauer M, Ito W, Cotta L, **Espinola-Klein C**, Heckenkamp J, Behrendt CA.
How German vascular surgeons and angiologists judge walking exercise for patients with PAD.
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Original article, Co-Author, Impact Factor 2023: 2,1
51. Thieme M, Krankenberg H, Schilling T, Betge S, Korosoglou G, Rammos C, Vosseler M, **Espinola-Klein C**, Heilmeier B, Müller OJ, Langhoff R, Malyar N, Blessing E, Caspary L, Linnemann B, Heiss C, Ito W
Endovascular interventions in outpatient care. DGA – German Society of Angiology Board and ESVM – European Society of Vascular Medicine Board.
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52. Keller K, Farmakis IT, Valerio L, Koelmel S, Wild J, Barco S, Schmidt FP, **Espinola-Klein C**, Konstantinides S, Münzel T, Sagoschen I, Hobohm L.
Predisposing factors for admission to intensive care units of patients with COVID-19 infection-Results of the German nationwide inpatient sample.
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Original article, Co-Author, Impact Factor 2023: 3,1
53. Keller K, Schmitt VH, Sagoschen I, Münzel T, **Espinola-Klein C**, Hobohm L
CRB-65 for Risk Stratification and Prediction of Prognosis in Pulmonary Embolism.
J Clin Med. 2023 Feb 5;12(4):1264. doi: 10.3390/jcm12041264.
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54. Krabbe B, **Espinola-Klein C**, Malyar N, Brodmann M, Mazzolai L, Belch JJF, Müller OJ, Heiss C; DGA-German Society of Angiology Board; ESVM-European Society of Vascular Medicine Board.
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55. Keller K, Schmitt VH, Ostad MA, Münzel T, Hobohm L, **Espinola-Klein C**.
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56. Keller K, Schmitt VH, Hobohm LMA, Brochhausen C, Münzel T, **Espinola-Klein C**.
Temporal Trends in Patients with Peripheral Artery Disease Influenced by COVID-19 Pandemic.
J Clin Med. 2022 Oct 30;11(21):6433. doi: 10.3390/jcm11216433.PMID: 36362660
Original article, First-/Senior-Author, Impact Factor 2022: 3,9
57. Schmitt VH, Keller K, **Espinola-Klein C**.
Peripheral artery disease with diabetes mellitus.
Dtsch Med Wochenschr. 2022 Nov;147(22):1433-1437. doi: 10.1055/a-1902-6778.
Review article, First-/Senior-Author, Impact Factor 2022: 0,7
58. **Espinola-Klein C**, Weißer G, Schmitt V, Schwaderlapp M, Münzel T.
Anti-thrombotic therapy in peripheral arterial disease.
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Review article, First-/Senior-Author, Impact Factor 2022: 3,6
59. Baidildinova G, Ten Cate V, Nagler M, Panova-Noeva M, Rapp S, Köck T, Prochaska JH, Heitmeier S, Gerdes C, Schweser S, Konstantinides SV, Münzel T, **Espinola-Klein C**, Lackner KJ, Spronk HMN, Ten Cate H, van der Meijden PEJ, Leineweber K, Wild PS, Jurk K.
Subtype-specific plasma signatures of platelet-related protein release in acute pulmonary embolism.
Thromb Res. 2022 Dec;220:75-87. doi: 10.1016/j.thromres.2022.10.005.
Original article, Co-Author, Impact Factor 2022: 10,4
60. Gouëffic Y, Torsello G, Zeller T, Esposito G, Vermassen F, Hausegger KA, Tepe G, Thieme M, Gschwandtner M, Kahlberg A, Schindewolf M, Sapoval M, Diaz-Cartelle J, Stavroulakis K; EMINENT Investigators.
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61. De Carlo M, Schlager O, Mazzolai L, Brodmann M, Espinola-Klein C, Staub D, Aboyans V, Sillesen H, Debus S, Venermo M, Belch J, Ferrari M, De Caterina R.
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Original article, Co-Author, Impact Factor 2022: 11,2
62. Schmitt VH, Hobohm L, Vosseler M, Brochhausen C, Münzel T, **Espinola-Klein C**, Keller K.
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Original article, Co-Author, Impact Factor 2022: 4,5
63. Keller K, Sivanathan V, Schmitt VH, Ostad MA, Münzel T, **Espinola-Klein C**, Hobohm L.
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64. Hobohm L, Sagoschen I, Barco S, Farmakis IT, Fedeli U, Koelmel S, Gori T, **Espinola-Klein C**, Münzel T, Konstantinides S, Keller K
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