Editorial: Machining of composites: a bibliometric analysis

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Currently, the application of composite materials has increased mainly for use in the aeronautical, aerospace, automotive, defence industries. In general, machining composite materials is a rather complex task due to their heterogeneity and the fact that the reinforcements are extremely abrasive (Davim, 2009, 2014, 2015).

The bibliometric study used the database Scopus/Elsevier to search for the documents. Using the term {machining} AND {composites}, TITLE-ABS-KEY ({machining} AND {composites}), 9,037 documents were identified (search carried out on 19th July 2025).

The results obtained in documents can be seen in Table 1, for the first ten positions concerning year, source, author, affiliation, country, document type, scientific area, and funding support. The better results obtained show in function of the number of documents produced: year 2024 (786), followed by the years 2022 (767) and 2023 (662); source *Materials Today Proceedings* – Elsevier (481) followed by *International Journal of Advanced Manufacturing Technology* – Springer (201) and *Lecture Notes in Mechanical Engineering* – Springer (252); author Palanikumar, K. – Sri Sai Ram Institute of Technology (83), followed by Davim, J.P. – University of Aveiro (76) and Ramulu, M. – UW College of Engineering (59); affiliation Ministry of Education of China (241) followed by Anna University (147) and Saveetha School of Engineering (142); country India (3,218) followed by China (1,791) and USA (853); document type article (5,568) followed by conference paper (2,416) and book chapter (354); scientific area engineering (6,416) followed by materials science (4,929) and physics and astronomy (1,523) and funding support National Natural Science Foundation of China (835) followed by Fundamental Research Funds for the Central Universities (116) and National Key Research and Development Program of China (109).

Table 1 Documents (9,037)

	Year	*Source*	*Author*	*Affiliation*
1	2024 (786)	*Materials Today Proceedings* (481)	Palanikumar, K. (83)	Ministry of Education of China (241)
2	2022 (767)	*Int. J. Adv. Manuf. Tech.* (433)	Davim, J.P. (76)	Anna University (147)
3	2023 (662)	*Lecture Notes in Mechanical Engineering* (201)	Ramulu, M. (59)	Saveetha School of Engineering (142)

Source: Scopus/Elsevier (19th July 2025)

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Table 1 Documents (9,037) (continued)

	Country	*Type*	*Area*	*Funding support*
4	2021 (641)	*Materials and Manufacturing Processes* (171)	Singh, I. (42)	Nanjing Univ. of Aeronautics and Astronautics (138)
5	2020 (617)	*Advanced Materials Research* (148)	Chen, M. (41)	Harbin Institute of Technology (128)
6	2019 (534)	*J. of Materials Processing Technology* (148)	Zitoune, R. (41)	Dalian University of Technology (122)
7	2018 (526)	*Materials Science Forum* (133)	Uthayakumar, M. (39)	Shanghai Jiao Tong University (111)
8	2017 (377)	*Materials* (125)	Yuan, S. (38)	University of Aveiro (102)
9	2014 (358)	*Journal of Manufacturing Processes* (123)	Debnath, K. (37)	Kalasalingam Academy of Research and Education (95)
10	2016 (353)	*Procedia CIRP* (120)	El Mansori, M. (33)	Northwestern Polytechnical University (91)
	Country	*Type*	*Area*	*Funding support*
1	India (3,218)	Article (5,568)	Engineering (6,415)	National Natural Sci, Found. of China (835)
2	China (1,791)	Conference paper (2,416)	Materials sci. (4,929)	Fundamental Res. Funds for the Central Univ. (116)
3	USA (853)	Book chapter (354)	Physics and astr. (1,523)	National Key Res. and Dev. Program of China (109)
4	UK (381)	Review (310)	Computer sci. (1,119)	National Science Foundation (86)
5	Germany (332)	Conference review (300)	Chemical eng. (629)	Department of Science and Technology, India (60)
6	Turkey (245)	Book (42)	Chemistry (439)	D. Forschungsgemeinschaft (56)
7	France (203)	Report (12)	Mathematics (432)	China Postdoctoral Science Foundation (52)
8	Poland (183)	Short survey (6)	Business manag. (264)	Engineering and Physical Sci. Research Council (50)
9	Japan (175)	Editorial (5)	Energy (224)	European Commission (49)
10	Canada (169)	Note (5)	Environmental sci. (223)	Natural Science Foundation of Shandong Province (38)

Source: Scopus/Elsevier (19th July 2025)

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