Editorial: Coatings: a bibliometric analysis

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Coatings are applied to the surface of an object, or substrate, perform a very important role in various sectors, namely, automotive, aerospace, biomedical, energy, electronics, nanotechnology (Ayra et al., 2024; Kalita et al., 2015; Kumar et al., 2021).

The bibliometric analysis used the database Scopus to search for the documents. Using the term {coatings}, TITLE-ABS-KEY ({coatings}), 481,867 documents were identified (search carried out on 17th August 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 (27,465), followed by the years 2023 (23,489) and 2022 (23,089); source *Surface and Coatings Technology* – Elsevier (16,983) followed by *Proceedings of SPIE – The International Society for Optical Engineering* (10,827) and *Progress in Organic Coatings* – Elsevier (6,400); author Wang, F. – Northeastern University (548), followed by Bobzin, K. – Rheinisch-Westfälische Technische Hochschule Aachen (433) and Li, C.J. – School of Material Science and Engineering, Xi'an Jiao Tong University (415); affiliation Chinese Academy of Sciences (14,327) followed by Ministry of Education of China (12,753) and CNRS – Centre National de la Recherche Scientifique (5,031); country China (118,515) followed by USA (76,195) and Germany (30,807); document type article (356,458) followed by conference paper (91,511) and review (16,814); scientific area materials science (303,810) followed by engineering (215,183) and physics and astronomy (175,640) and funding support National Natural Science Foundation of China (49,350) followed by National Key Research and Development Program of China (8,041) and National Science Foundation (7,638).

Table 1 Documents (481,867)

	Year	*Source*	*Author*	*Affiliation*
1	2024 (27,465)	*Surface and Coatings Technology* (16,893)	Wang, F. (548)	Chinese Academy of Sciences (14,327)
2	2023 (23,489)	*Proceedings of SPIE* (10,827)	Bobzin, K. (433)	Ministry of Education of China (12,753)
3	2022 (23,089)	*Progress in Organic Coatings* (6,400)	Li, C.J. (415)	CNRS Centre National de la Recher. Scientifique (5,031)

Source: Scopus, 17 August 2025

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Table 1 Documents (481,867) (continued)

	Year	*Source*	*Author*	*Affiliation*
4	2019 (22,315)	*Applied Surface Science* (5,719)	Boccaccini, A.R. (354)	Russian Academy of Sciences (4,843)
5	2021 (21,749)	*Thin Solid Films* (4,994)	Ramezanzadeh, B. (330)	University of Chinese Academy of Sciences (4,256)
6	2020 (21,429)	*Ceramics International* (4,627)	Cavaleiro, A. (324)	Harbin Institute of Technology (3,576)
7	2018 (19,855)	*ACS Applied Materials and Interfaces* (4,186)	Coddet, C. (316)	Xi'an Jiaotong University (3,091)
8	2017 (18,874)	*Coatings* (3,939)	Chu, P.K. (313)	Tsinghua University (2,916)
9	2016 (18,048)	*Journal of Alloys and Compounds* (3,426)	Yang, G.J. (301)	Northwestern Polytechnical University (2,817)
10	2015 (17,454)	*Advanced Materials Research* (3,239)	Matthews, A. (299)	Shanghai Jiao Tong University (2,633)
	Country	*Type*	*Area*	*Funding support*
1	China (118,515)	Article (356,428)	Materials sci. (303,810)	National Natural Sci. Found. of China (49,350)
2	USA (76,195)	Conference paper (91,511)	Engineering (215,183)	National Key Res. and Dev. Program of China (8,041)
3	Germany (30,807)	Review (16,814)	Physics and astr. (175,640)	National Science Foundation (7,638)
4	India (24,723)	Book chapter (8,159)	Chemistry (126,602)	Fundamental Res. Funds for the Central Univ. (7,122)
5	Russian Fed. (21,503)	Conference review (2,781)	Chemical eng. (79,463)	European Commission (4,842)
6	Japan (20,662)	Note (1,831)	Energy (27,460)	National Research Foundation of Korea (4,480)
7	UK (19,800)	Short survey (1,399)	Computer sc. (22,051)	US Department of Energy (4,176)
8	France (15,926)	Book (1,004)	Environmental sci. (20,355)	China Postdoctoral Science Foundation (3,930)
9	South Korea (15,559)	Editorial (439)	Biochemistry (19,921)	D. Forschungsgemeinschaft (3,609)
10	Italy (11,802)	Letter (380)	Mathematics (17,813)	Japan Society for the Promotion of Science (3,088)

Source: Scopus, 17 August 2025

References

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