

Table S8. Twelve disciplines in the physics and astronomy subcategory and the numbers of total and OA documents in 2000–2021 and 2021

Disciplines	OA / Total 2000-21	OA % 2000- 21	OA / Total 2021	OA% 2021
Physics Particles Fields	207,572 / 300,150	69.2%	12,762 / 14,490	88.1%
Astronomy Astrophysics	338,334 / 498,413	67.9%	21,296 / 25,628	83.1%
Meteorology Atmospheric Sciences	124,059 / 258,896	47.9%	11,744 / 20,788	56.5%
Physics Mathematical	110,184 / 232,968	47.3%	6,828 / 12,766	53.5%
Physics Nuclear	87,154 / 188,707	46.2%	3,600 / 5,691	63.3%
Physics Multidisciplinary	245,315 / 538,122	45.6%	17,214 / 30,116	57.2%
Physics Fluids Plasmas	72,624 / 202,172	35.9%	5,427 / 11,809	46.0%
Physics Atomic Molecular Chemical	96,553 / 354,453	27.2%	6,393 / 19,025	33.6%
Physics Applied	394,213 / 1,598,223	24.7%	49,827 / 108,304	46.0%
Physics Condensed Matter	175,176 / 741,392	23.6%	17,913 / 45,662	39.2%
Optics	197,209 / 934,658	21.1%	14,644 / 47,415	30.9%
Spectroscopy	21,774 / 156,597	13.9%	1,684 / 7,950	21.2%
sum	1,564,141 / 4,685,703	33.4%	131,878 / 272,246	48.4%