

**Table S21.** Twelve disciplines in the general engineering 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
Cell Tissue Engineering	27,593 / 45,917	60.1%	3,013 / 4,350	69.3%
Quantum Science Technology	17,269 / 48,677	35.5%	2,359 / 5,137	45.9%
Remote Sensing	50,798 / 210,386	24.1%	9,362 / 15,892	58.9%
Instruments Instrumentation	105,606 / 470,538	22.4%	17,008 / 35,963	47.3%
Energy Fuels	155,483 / 750,674	20.7%	24,906 / 76,225	32.7%
Imaging Science Photographic Technology	63,890 / 309,040	20.7%	13,151 / 26,113	50.4%
Mining Mineral Processing	14,007 / 68,959	20.3%	2,603 / 5,738	45.4%
Mechanics	94,149 / 465,505	20.2%	10,270 / 35,319	29.1%
Ergonomics	6,335 / 36,489	17.4%	904 / 3,452	26.2%
Robotics	34,106 / 197,283	17.3%	4,424 / 11,578	38.2%
Nuclear Science Technology	35,436 / 223,983	15.8%	2,749 / 11,342	24.2%
Thermodynamics	41,054 / 261,439	15.7%	5,544 / 23,224	23.9%
<b>sum</b>	<b>579,970 / 1,735,150</b>	<b>33.4%</b>	<b>83,271 / 213,787</b>	<b>39.0%</b>