**CWTS Leiden Ranking 2018**

**Indicators**

The CWTS Leiden Ranking 2018 offers a sophisticated set of bibliometric indicators that provide statistics on the scientific impact of universities and on universities’ involvement in scientific collaboration. The indicators available in the Leiden Ranking are:

**Publications:**
- based on publications in the Web of Science database produced by Clarivate Analytics;
- based on publications in the period 2013–2016;
- Uses the Science Citation Index Expanded, the Social Sciences Citation Index, and the Arts & Humanities Citation Index;
- Only publications of the Web of Science document types article and review are taken into account.

**Impact indicators:**
- P(top 1%) and PP(top 1%).
- P(top 5%) and PP(top 5%).
- P(top 10%) and PP(top 10%).
- P(top 50%) and PP(top 50%).
- TCS and MCS. The total and the average number of citations of publications of a university.
- TNCS and MNCS. The total and the average number of citations of publications of a university, normalized for field and publication year.
Collaboration indicators

The following indicators of scientific collaboration are provided in the Leiden Ranking:

- P(collab) and PP(collab). The number and the proportion of a university’s publications that have been co-authored with one or more other organizations.
- P(int collab) and PP(int collab). Co-authored by two or more countries.
- P(Industry) and PP(Industry). Co-authored with one or more industrial organizations.
- P(<100 km) and PP(<100 km). Publications with a geographical collaboration distance of less than 100 km.
- P(>5000 km) and PP(>5000 km). Geographical collaboration distance of more than 5000 km.

<table>
<thead>
<tr>
<th>Year</th>
<th>Global Rank</th>
<th>Asian Rank</th>
<th>National Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>272</td>
<td>80</td>
<td>2</td>
</tr>
<tr>
<td>2017</td>
<td>292</td>
<td>81</td>
<td>2</td>
</tr>
<tr>
<td>2016</td>
<td>325</td>
<td>85</td>
<td>2</td>
</tr>
<tr>
<td>2015</td>
<td>342</td>
<td>84</td>
<td>2</td>
</tr>
<tr>
<td>2014</td>
<td>357</td>
<td>86</td>
<td>1</td>
</tr>
<tr>
<td>2013</td>
<td>393</td>
<td>85</td>
<td>1</td>
</tr>
</tbody>
</table>

Amirkabir University of Technology in the Leiden Ranking System, 2013-2018
<table>
<thead>
<tr>
<th>University</th>
<th>P</th>
<th>P(top 10%)</th>
<th>PP(top 10%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>251  Cardiff Univ</td>
<td>4870</td>
<td>570</td>
<td>18.2%</td>
</tr>
<tr>
<td>252  Univ Ulsan</td>
<td>4931</td>
<td>228</td>
<td>7.5%</td>
</tr>
<tr>
<td>253  Univ Valencia</td>
<td>4338</td>
<td>399</td>
<td>9.1%</td>
</tr>
<tr>
<td>254  Nati Univ Defense Technol</td>
<td>4244</td>
<td>205</td>
<td>8.0%</td>
</tr>
<tr>
<td>255  King Abdullah Univ</td>
<td>4284</td>
<td>440</td>
<td>18.6%</td>
</tr>
<tr>
<td>256  Univ Laval</td>
<td>4270</td>
<td>476</td>
<td>11.1%</td>
</tr>
<tr>
<td>257  Newcastle Univ</td>
<td>4270</td>
<td>562</td>
<td>18.2%</td>
</tr>
<tr>
<td>258  Paris Diderot Univ</td>
<td>4260</td>
<td>570</td>
<td>18.0%</td>
</tr>
<tr>
<td>259  Univ Strasbourg</td>
<td>4350</td>
<td>604</td>
<td>11.0%</td>
</tr>
<tr>
<td>260  Jagiellonian Univ</td>
<td>4345</td>
<td>235</td>
<td>5.8%</td>
</tr>
<tr>
<td>261  Jiangnan Univ</td>
<td>4341</td>
<td>352</td>
<td>8.8%</td>
</tr>
<tr>
<td>262  Univ California - Santa Barbara</td>
<td>4217</td>
<td>788</td>
<td>18.7%</td>
</tr>
<tr>
<td>263  Northeastern Univ</td>
<td>4190</td>
<td>351</td>
<td>8.0%</td>
</tr>
<tr>
<td>264  Wayne State Univ</td>
<td>4185</td>
<td>408</td>
<td>9.7%</td>
</tr>
<tr>
<td>265  Xidian Univ</td>
<td>4108</td>
<td>347</td>
<td>8.0%</td>
</tr>
<tr>
<td>266  Univ Pisa</td>
<td>4102</td>
<td>348</td>
<td>8.5%</td>
</tr>
<tr>
<td>267  Nanjing Agr Univ</td>
<td>4096</td>
<td>358</td>
<td>8.0%</td>
</tr>
<tr>
<td>268  Aristotle Univ Thessaloniki</td>
<td>4079</td>
<td>337</td>
<td>8.3%</td>
</tr>
<tr>
<td>269  China Univ Guzochi</td>
<td>4060</td>
<td>399</td>
<td>9.0%</td>
</tr>
<tr>
<td>270  Univ Maryland - Baltimore</td>
<td>4055</td>
<td>493</td>
<td>12.2%</td>
</tr>
<tr>
<td>271  Univ Warwick</td>
<td>4049</td>
<td>593</td>
<td>14.7%</td>
</tr>
<tr>
<td>272  Amirkabir Univ Technol</td>
<td>4036</td>
<td>289</td>
<td>7.1%</td>
</tr>
<tr>
<td>273  City Univ Hong Kong</td>
<td>4036</td>
<td>507</td>
<td>14.5%</td>
</tr>
<tr>
<td>274  Beijing Univ Chem Technol</td>
<td>4016</td>
<td>413</td>
<td>10.3%</td>
</tr>
<tr>
<td>275  Northwest Agr &amp; Forestry Univ</td>
<td>4015</td>
<td>505</td>
<td>7.6%</td>
</tr>
</tbody>
</table>

**Overview (2013–2016)**

- All sciences
- Publications
- Top 1% publications
- Top 5% publications
- Top 10% publications
- Top 50% publications
- Citations
- Normalized citations
Publication output per field (2013-2016)
### Overview (2013–2016)

<table>
<thead>
<tr>
<th></th>
<th>Size-dependent</th>
<th>Size-independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Publications</td>
<td>P</td>
<td>5952</td>
</tr>
<tr>
<td>Interinstitutional</td>
<td>P(collab)</td>
<td>3645</td>
</tr>
<tr>
<td>Collaborative publications</td>
<td>P(int collab)</td>
<td>1230</td>
</tr>
<tr>
<td>Collaborative publications with industry</td>
<td>P(industry)</td>
<td>129</td>
</tr>
<tr>
<td>Short distance</td>
<td>P(&lt;100 km)</td>
<td>1399</td>
</tr>
<tr>
<td>Long distance</td>
<td>P(&gt;5000 km)</td>
<td>817</td>
</tr>
</tbody>
</table>

### Collaboration per field (2013–2016)

#### Size-independent

- All sciences
- Biomedical and health sciences
- Life and earth sciences
- Mathematics and computer science
- Physical sciences and engineering

#### Fields with ≥ 100 publications

- P(collab)
- P(int collab)
- P(industry)