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| **Topic assessment** | | | |
| **Project:** | And Here is the Forecast | **Supervisor:** | Professor Jonathan Knight |
| **MEMBERS:** | Eleanor James & Euan Dobel | **Facility:** | University of Bath |

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| **TOPIC** | **WOS – Papers / %** | **Alt – news / %** | **alt – social / %** | **finANCe / %** | **employees / %** | **benefits / %** | **SCORE / %** | **UNcert-ainty** |
| **weightings** | **30%** | **25%** | **5%** | **15%** | **15%** | **10%** | **100%** | **±5%** |
| 1.Machine learning astronomy | 29.39 | 17.04 | 3.44 | 10.92 | 9.70 | 5.00 | 75.49 | ±1.61 |
| 2.Early galaxy formation | 6.71 | 1.63 | 4.58 | 15.00 | 12.01 | 3.00 | 42.94 | ±3.36 |
| 3.Dense matter | 29.30 | 21.40 | 4.85 | 11.40 | 5.45 | 8.00 | 80.42 | ±2.59 |
| 4.Muon g-2 | 28.12 | 13.49 | 4.89 | 13.04 | 13.01 | 1.00 | 73.55 | ±3.53 |
| 5.Leptoquark | 25.76 | 3.33 | 4.76 | 13.79 | 13.26 | 3.00 | 63.90 | ±3.37 |
| 6.Precision frontier | 29.67 | 24.01 | 4.98 | 13.79 | 13.26 | 7.00 | 92.70 | ±1.26 |
| 7.Lepton universality | 26.90 | 24.18 | 4.95 | 9.93 | 12.51 | 3.00 | 81.47 | ±2.86 |
| 8.Cosmological model | 29.49 | 23.93 | -4.98 | 9.11 | 7.31 | 2.00 | 66.87 | ±8.76 |
| 9.Cosmic microwave background | 18.77 | 19.81 | -4.80 | 9.81 | 9.26 | 2.00 | 54.85 | ±7.94 |
| 10.Astrobiology | -27.88 | 24.88 | 4.98 | 11.68 | 9.58 | 2.00 | 25.24 | ±8.44 |
| 11.High-energy astrophysics | 29.99 | 23.39 | -4.93 | 10.94 | 10.66 | 3.00 | 73.05 | ±9.03 |
| 12.Multi-messenger astronomy | 29.03 | 20.85 | -4.65 | 2.04 | 4.80 | 1.00 | 53.08 | ±7.69 |
| 13.Quantum computing | 29.98 | 24.89 | 5.00 | 10.53 | 11.81 | 9.00 | 91.21 | ±1.24 |
| 14.Nanomedicine | 29.85 | 24.55 | 5.00 | 7.32 | 8.44 | 10.00 | 85.15 | ±2.14 |
| 15.Molecular manufacturing | 29.94 | 21.56 | 4.96 | 2.19 | 13.38 | 9.00 | 81.03 | ±3.91 |
| 16.New materials | 30.00 | 24.61 | 4.99 | 10.85 | 13.38 | 9.00 | 92.83 | ±1.21 |
| 17.3D optical displays | 29.16 | -9.88 | 1.94 | 1.68 | 8.49 | 3.00 | 34.38 | ±4.93 |
| 18.Photonic integrated circuits | 28.57 | 23.34 | 4.89 | 8.71 | 10.53 | 5.00 | 82.04 | ±1.72 |
| 19.Plasmonic sensors | 29.65 | 19.66 | 4.90 | 3.05 | 4.21 | 5.00 | 66.47 | ±2.71 |
| 20.Photonic crystals | 27.74 | 23.78 | 4.98 | 12.48 | 10.53 | 4.00 | 83.50 | ±2.42 |
| 21.Photovoltaics | 29.65 | 24.90 | 5.00 | 10.85 | 13.38 | 6.00 | 89.77 | ±1.65 |
| 22.Unification of forces | 6.71 | 2.49 | -2.59 | 13.79 | 13.26 | 1.00 | 34.65 | ±4.55 |
| 23.String theory | -29.12 | 23.99 | 4.99 | 12.48 | 9.83 | 1.00 | 23.17 | ±8.59 |
| 24.Exotic materials | 29.73 | 16.52 | 3.61 | 9.69 | 12.50 | 3.00 | 75.05 | ±2.50 |
| 25.Climate modelling | 29.99 | 24.93 | 5.00 | 14.27 | 9.78 | 9.00 | 92.97 | ±1.63 |
| 26.Automated theory-building | 29.67 | 18.98 | 4.91 | 13.45 | 9.14 | 6.00 | 82.14 | ±1.25 |
| 27.Personalised medicine | 29.98 | 20.05 | 4.87 | 11.68 | 12.57 | 9.00 | 88.15 | ±0.84 |
| 28.Proton therapy | 29.78 | 24.07 | 4.98 | 10.53 | 13.08 | 10.00 | 92.44 | ±1.31 |
| 29.MRI-guided radiotherapy | 29.17 | -3.60 | 4.82 | 14.75 | 14.67 | 8.00 | 67.82 | ±5.48 |
| 30.Radiopharmacruticals | 29.29 | 22.86 | 4.95 | 14.63 | 14.99 | 6.00 | 92.72 | ±1.82 |
| 31.Minimally invasive surgery | 29.95 | 24.15 | 4.99 | 11.68 | 12.24 | 6.00 | 89.02 | ±1.61 |
| 32.Telemedicine | 29.96 | 24.95 | 5.00 | 12.67 | 15.00 | 7.00 | 94.58 | ±1.37 |
| 33.Gravitational Waves | 29.99 | 24.89 | -4.98 | 6.19 | 8.55 | 1.00 | 65.64 | ±8.70 |
| 34.Quantum Key Distribution | 29.93 | 23.49 | -4.23 | 7.50 | 6.24 | 5.00 | 67.93 | ±8.03 |
| 35.Dark Matter | 29.95 | 24.91 | -4.98 | 14.07 | 8.18 | 1.00 | 73.12 | ±9.09 |
| 36.Neutron Stars | 29.92 | 24.86 | -4.89 | 13.35 | 8.18 | 1.00 | 72.41 | ±8.96 |
| 37.Dark Energy Equation of State | 29.54 | 4.59 | -0.17 | 13.35 | 8.18 | 1.00 | 56.49 | ±3.15 |
| 38.Exoplanet Biosignature | 25.38 | 23.95 | -1.73 | 13.35 | 8.18 | 1.00 | 70.12 | ±5.51 |
| 39.Exoplanet Imaging | 29.05 | 23.62 | -2.74 | 13.35 | 7.41 | 1.00 | 71.69 | ±6.66 |
| 40.2D Materials | 29.99 | 24.69 | -1.11 | 0.83 | 9.66 | 7.00 | 71.05 | ±4.91 |
| 41.Neural Nanobionics | 11.46 | -22.25 | -2.25 | 11.15 | 6.54 | 7.00 | 11.65 | ±6.71 |
| 42.Nanoelectron-ics | -29.04 | 12.35 | -2.16 | 11.15 | 6.54 | 6.00 | 4.84 | ±7.26 |
| 43.Nanotechnol-ogy | 29.99 | 24.59 | -4.95 | 13.13 | 8.57 | 6.00 | 77.31 | ±9.28 |
| 44.Nanomaterials | 29.98 | 24.81 | -4.51 | 11.15 | 6.54 | 6.00 | 73.97 | ±8.64 |
| 45.Quantum Photonics | 29.87 | 24.62 | -4.74 | 6.48 | 8.96 | 6.00 | 71.09 | ±8.74 |
| 46.Integrated Photonics | 29.88 | 24.59 | 0.36 | 9.00 | 10.49 | 7.00 | 81.32 | ±3.90 |
| 47.Metamaterials | 29.97 | 23.96 | -4.70 | 6.80 | 8.57 | 5.00 | 69.59 | ±8.61 |
| 48.Plasma Physics | 29.95 | 24.68 | -4.90 | 3.75 | 6.63 | 5.00 | 65.11 | ±8.58 |
| 49.FLASH Radiotherapy | 29.47 | 23.29 | 0.54 | 6.57 | 4.32 | 9.00 | 73.19 | ±3.28 |