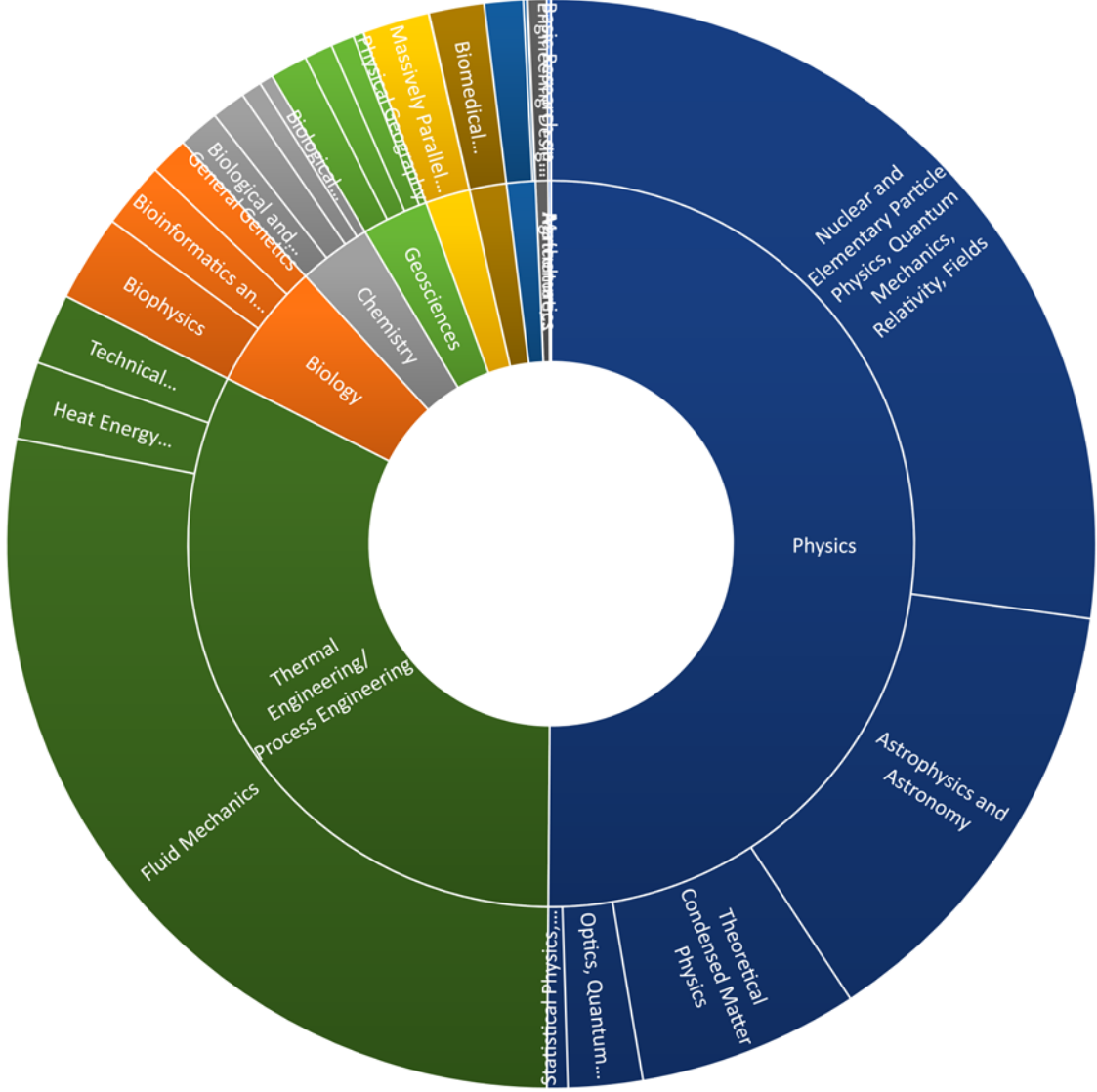


SuperMUC-NG Usage Report

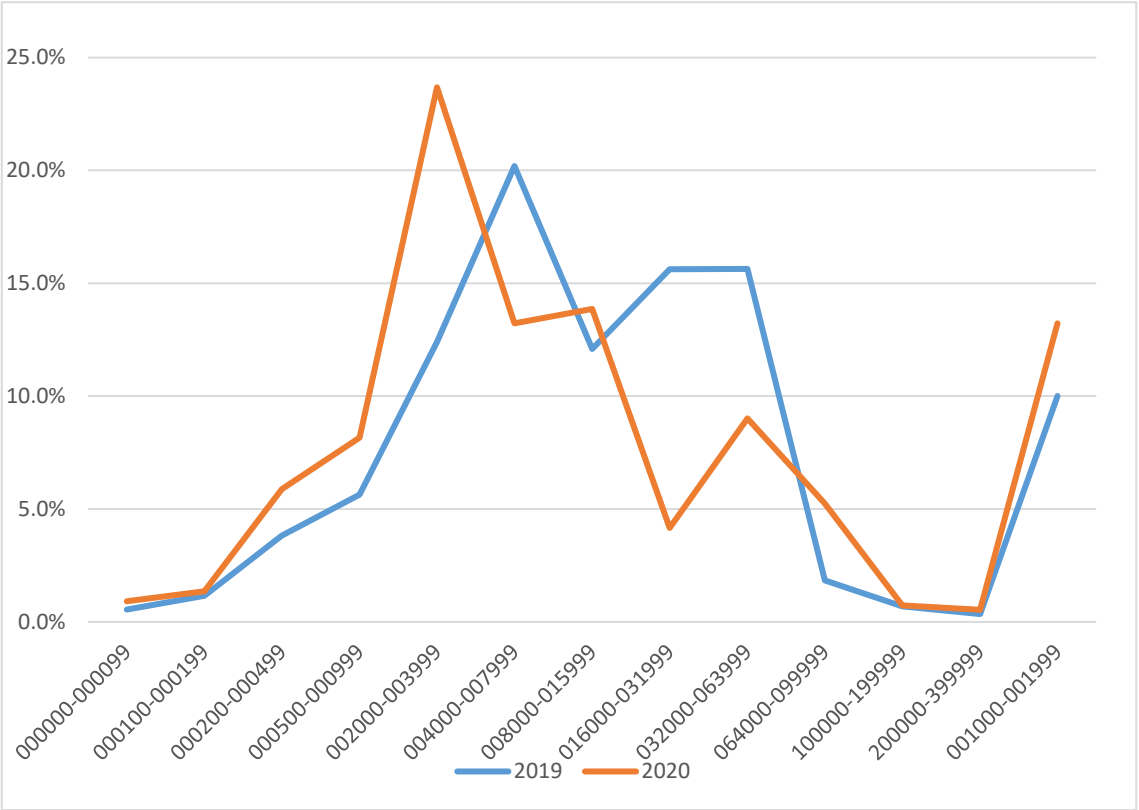


Usage of System

Date	Mio Core-h	% of Max	# Jobs
2020	913.2	70.3%	360509
Jan	182.4	78.8%	89838
Feb	169.4	78.3%	61502
Mrz	212.9	92.0%	55216
Apr	170.9	76.3%	80881
Mai	91.3	40.8%	49271
Jun	86.2	50.2%	23801
2019	830.1	82.4%	181474
Aug	76.4	78.7%	8820
Sep	174.5	77.9%	33770
Okt	187.7	81.1%	42718
Nov	184.4	82.4%	35553
Dez	207.1	89.5%	60613
Total	1743.3	75.6%	541983

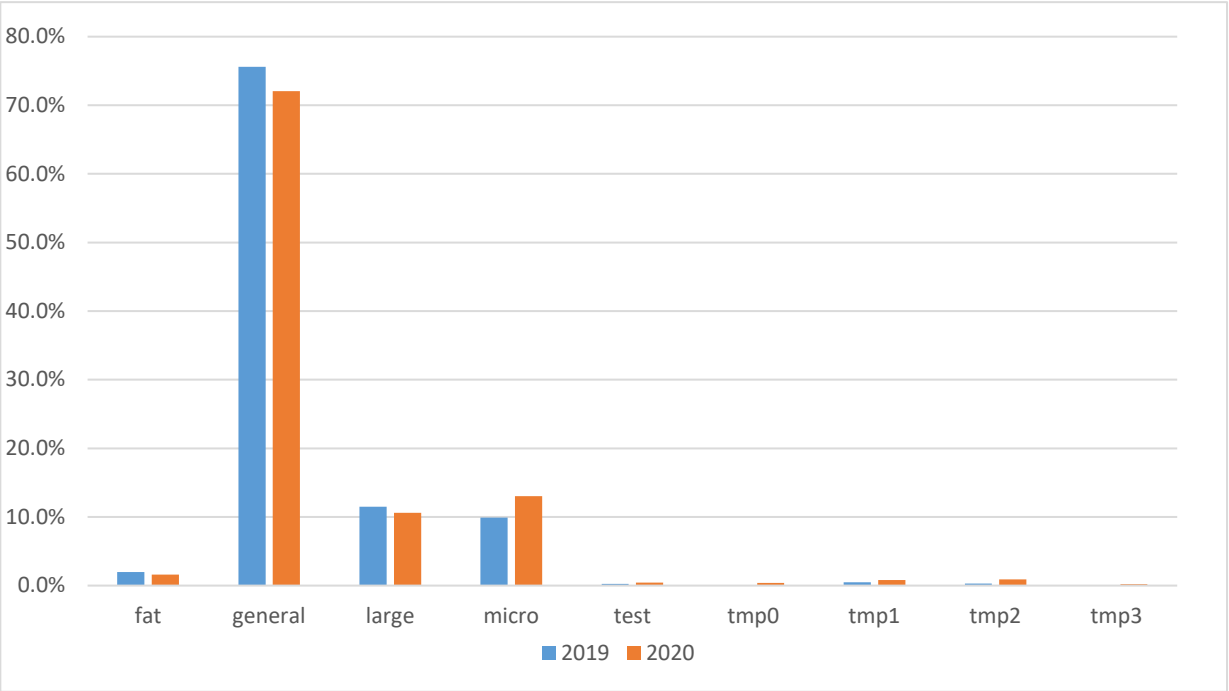
Usage by Job size

Usage by Job Size			
Range of cores	2019	2020	Total
000000-000099	0.5%	0.9%	0.7%
000100-000199	1.2%	1.4%	1.3%
000200-000499	3.8%	5.9%	4.8%
000500-000999	5.6%	8.2%	6.9%
002000-003999	12.4%	23.7%	18.0%
004000-007999	20.2%	13.2%	16.7%
008000-015999	12.1%	13.9%	13.0%
016000-031999	15.6%	4.2%	9.9%
032000-063999	15.6%	9.0%	12.3%
064000-099999	1.8%	5.2%	3.5%
100000-199999	0.7%	0.7%	0.7%
200000-399999	0.3%	0.5%	0.4%
001000-001999	10.0%	13.2%	11.6%
Total	100.0%	100.0%	100.0%



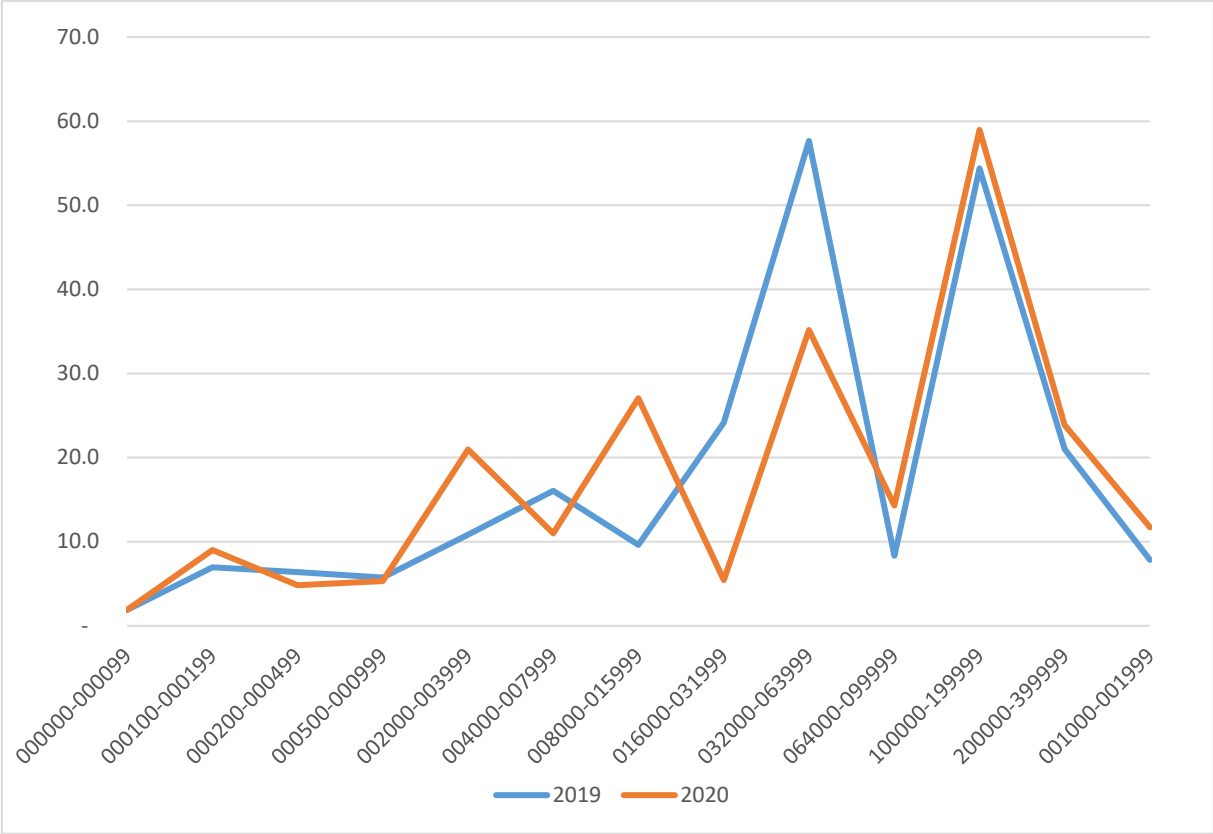
% Usage by Jobclass

Usage	2019	2020	Total
fat	2.0%	1.6%	1.8%
general	75.6%	72.0%	73.7%
large	11.5%	10.6%	11.0%
micro	9.9%	13.0%	11.5%
test	0.2%	0.4%	0.3%
tmp0	0.0%	0.4%	0.2%
tmp1	0.5%	0.8%	0.6%
tmp2	0.3%	0.9%	0.6%
tmp3	0.0%	0.2%	0.1%
Total	100.0%	100.0%	100.0%



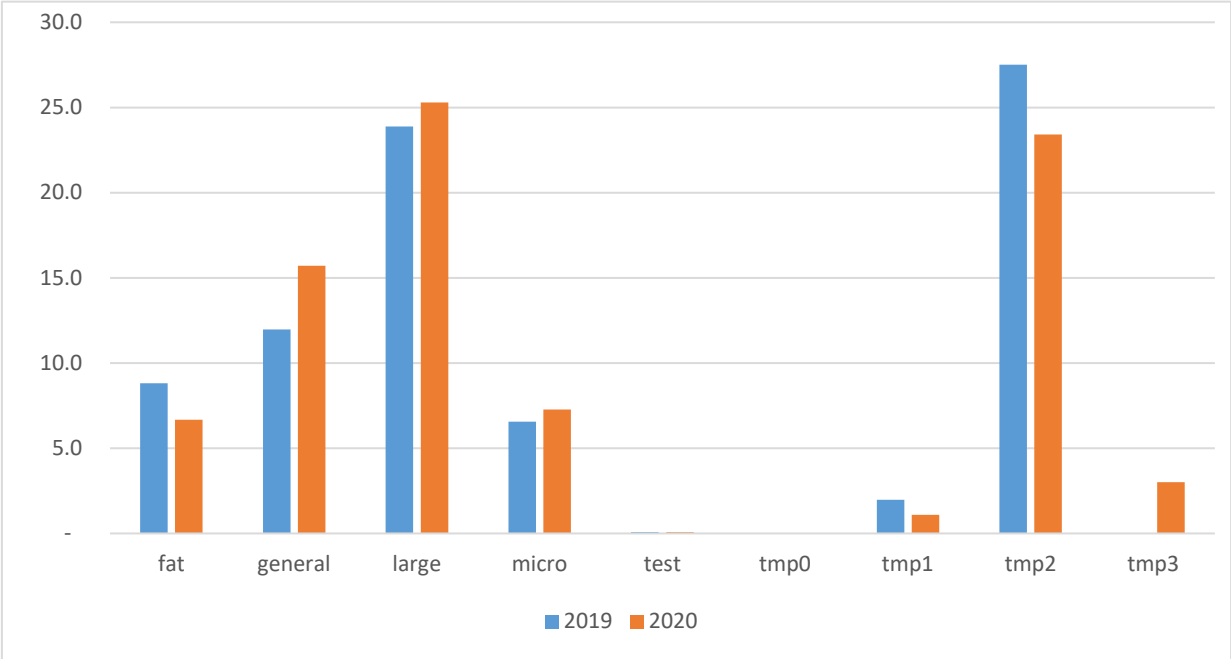
Average Wait Time [hours] by Jobclass

Avg. Wait Time [h]	2019	2020	Total
Jobsite [cores]			
000000-000099	1.9	1.9	1.9
000100-000199	7.0	9.0	8.0
000200-000499	6.4	4.8	5.6
000500-000999	5.7	5.3	5.5
002000-003999	10.8	21.0	15.9
004000-007999	16.0	11.0	13.5
008000-015999	9.6	27.1	18.4
016000-031999	24.2	5.4	14.8
032000-063999	57.7	35.2	46.4
064000-099999	8.3	14.3	11.3
100000-199999	54.4	59.0	56.7
200000-399999	21.0	23.8	22.4
001000-001999	7.8	11.7	9.8
Total	17.8	17.7	17.7



Average Wait Time [hours] by Jobclass

Avg Wait_h	2019	2020	Total
fat	8.8	6.7	7.7
general	12.0	15.7	13.8
large	23.9	25.3	24.6
micro	6.6	7.3	6.9
test	0.1	0.1	0.1
tmp0	na	0.0	0.0
tmp1	2.0	1.1	1.5
tmp2	27.5	23.4	25.5
tmp3	na	3.0	3.0
Total	11.5	9.2	10.2



Usage by Research Area (DFG Classification Level 2, 3 and 4)

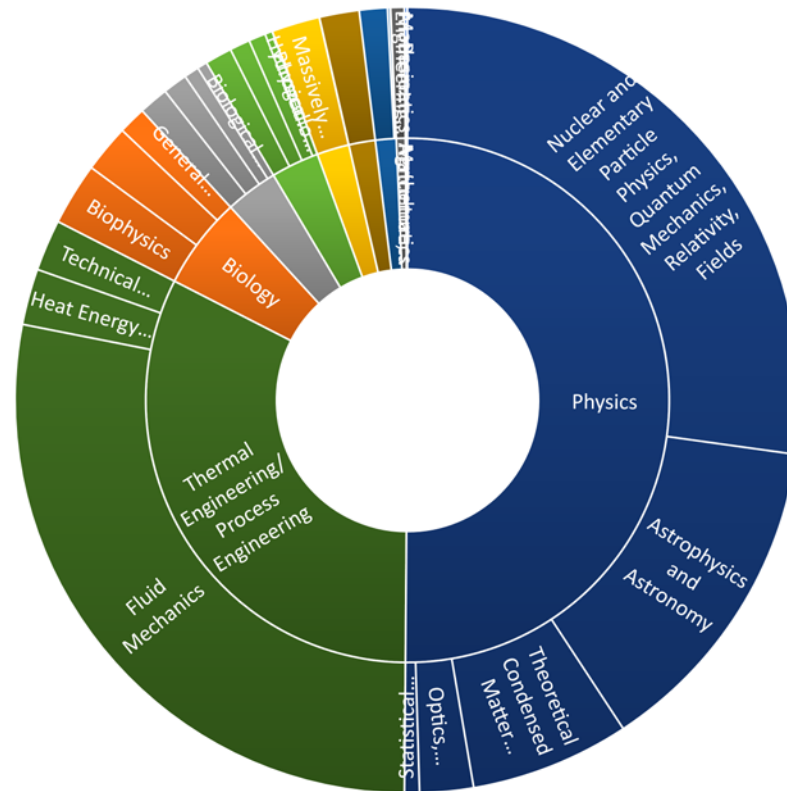
LV2 LV3 LV4

Usage	2019	2020	Total
Physics	57.8%	49.5%	53.4%
Particles, Nuclei and Fields	26.8%	26.8%	26.8%
Nuclear and Elementary Particle Physics, Quantum Mechanics, Relativity, Fields	26.8%	26.8%	26.8%
Astrophysics and Astronomy	20.8%	13.4%	16.9%
Astrophysics and Astronomy	20.8%	13.4%	16.9%
Condensed Matter Physics	9.7%	7.1%	8.3%
Theoretical Condensed Matter Physics	9.7%	6.5%	8.0%
Experimental Condensed Matter Physics	0.0%	0.6%	0.3%
Optics, Quantum Optics and Physics of Atoms, Molecules and Plasmas	0.5%	2.2%	1.4%
Optics, Quantum Optics, Atoms, Molecules, Plasmas	0.5%	2.2%	1.4%
Statistical Physics, Soft Matter, Biological Physics, Nonlinear Dynamics	0.0%	0.0%	0.0%
Statistical Physics, Soft Matter, Biological Physics, Nonlinear Dynamics	0.0%	0.0%	0.0%
Thermal Engineering/ Process Engineering	27.1%	33.3%	30.3%
Heat Energy Technology, Thermal Machines, Fluid Mechanics	27.1%	32.2%	29.8%
Fluid Mechanics	24.2%	27.6%	26.0%
Heat Energy Technology, Thermal Machines, Fluid Mechanics	2.7%	2.3%	2.5%
Technical Thermodynamics	0.1%	2.1%	1.1%
Energy Process Engineering	0.0%	0.3%	0.2%
Process Engineering, Technical Chemistry	0.1%	1.1%	0.6%
Biological Process Engineering	0.1%	1.0%	0.6%
Chemical and Thermal Process Engineering	0.0%	0.0%	0.0%
Biology	4.2%	5.6%	5.0%
Basic Biological and Medical Research	4.2%	5.6%	5.0%
Bioinformatics and Theoretical Biology	1.8%	1.9%	1.9%
Biophysics	1.1%	2.5%	1.9%
Biochemistry	1.3%	1.1%	1.2%
General Genetics	0.1%	0.0%	0.0%
Geosciences	4.9%	2.9%	3.9%
Geochemistry, Mineralogy and Crystallography	3.2%	0.8%	1.9%
Geochemistry, Mineralogy and Crystallography	3.2%	0.8%	1.9%
Geophysics and Geodesy	0.9%	1.8%	1.3%
Geophysics	0.5%	1.1%	0.8%
Geodesy, Photogrammetry, Remote Sensing, Geoinformatics, Cartography	0.3%	0.7%	0.5%
Atmospheric Science, Oceanography and Climate Research	0.9%	0.3%	0.6%

Geosci Atmos Atmospheric Science	0.9%	0.3%	0.6%
Water Research	0.0%	0.0%	0.0%
Hydrogeology, Hydrology, Limnology, Urban Water Management, Water Chemistry, Integrated Water Resources Management	0.0%	0.0%	0.0%
Geography	0.0%	0.0%	0.0%
Physical Geography	0.0%	0.0%	0.0%
Chemistry	1.2%	3.2%	2.2%
Chemical Solid State and Surface Research	0.9%	1.0%	1.0%
Theory and Modelling	0.9%	1.0%	1.0%
Physical and Theoretical Chemistry	0.3%	1.0%	0.7%
General Theoretical Chemistry	0.3%	0.6%	0.5%
Physical Chemistry of Molecules, Interfaces and Liquids - Spectroscopy, Kinetics	0.0%	0.4%	0.2%
Biological Chemistry and Food Chemistry	0.0%	1.2%	0.6%
Biological and Biomimetic Chemistry	0.0%	1.2%	0.6%
Biological Chemistry and Food Chemistry	0.0%	0.0%	0.0%
Computer Science, Systems and Electrical Engineering	2.3%	2.0%	2.1%
Computer Science	2.3%	2.0%	2.1%
Massively Parallel and Data-Intensive Systems	2.2%	2.0%	2.1%
Interactive and Intelligent Systems, Image and Language Processing, Computer Graphics and Visualisation	0.1%	0.0%	0.0%
Computer Science	0.0%	0.0%	0.0%
Materials Science and Engineering	1.5%	1.3%	1.4%
Materials Science	1.5%	1.3%	1.4%
Thermodynamics and Kinetics of Materials	0.8%	1.1%	1.0%
Materials Science	0.6%	0.1%	0.3%
Biomaterials	0.0%	0.0%	0.0%
Medicine	0.6%	1.6%	1.1%
Medicine	0.6%	1.6%	1.1%
Biomedical Technology and Medical Physics	0.6%	1.6%	1.1%
Epidemiology, Medical Biometry, Medical Informatics	0.0%	0.0%	0.0%
Microbiology, Virology and Immunology	0.0%	0.0%	0.0%
Virology	0.0%	0.0%	0.0%
Mechanical and Industrial Engineering	0.1%	0.6%	0.4%
Mechanics and Constructive Mechanical Engineering	0.1%	0.6%	0.4%
Mechanics	0.1%	0.6%	0.4%
Engineering Design, Machine Elements, Product Development	0.0%	0.0%	0.0%
Construction Engineering and Architecture	0.1%	0.1%	0.1%
Construction Engineering and Architecture	0.1%	0.1%	0.1%
Applied Mechanics, Statics and Dynamics	0.1%	0.1%	0.1%
Mathematics	0.2%	0.0%	0.1%

Math	Mathematics	0.2%	0.0%	0.1%
	Mathematics	0.2%	0.0%	0.1%
	Agriculture, Forestry and Veterinary Medicine	0.0%	0.0%	0.0%
	Agriculture, Forestry and Veterinary Medicine	0.0%	0.0%	0.0%
	Basic Research on Pathogenesis, Diagnostics and Therapy and Clinical Veterinary Medicine	0.0%	0.0%	0.0%
Total		100.0%	100.0%	100.0%

Usage by Research Area (DFG Level 2 and 3)

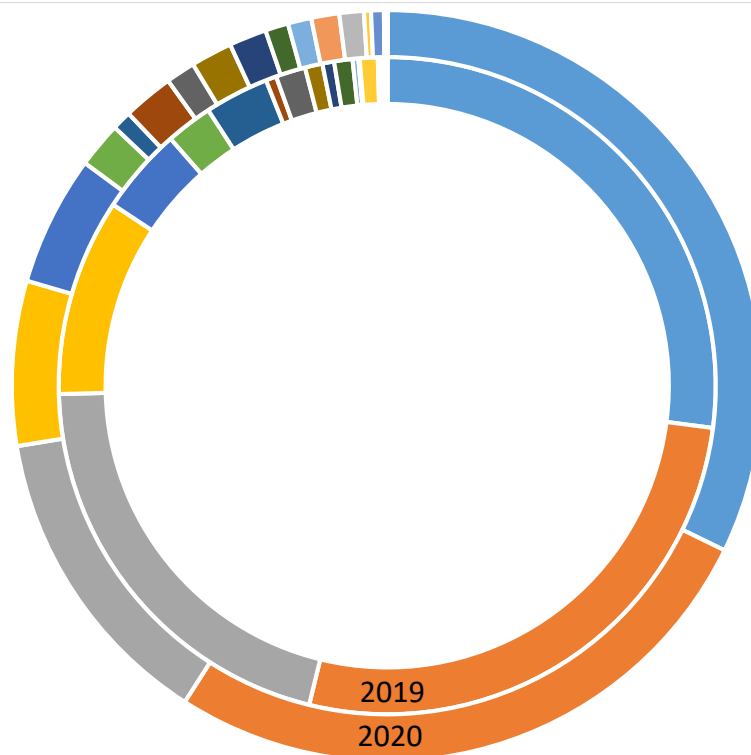


- Research Area
- Biology
 - Computer Science, Systems and Electrical Engineering
 - Geosciences
 - Mathematics
 - Medicine
 - Thermal Engineering/ Process Engineering
 - Agriculture, Forestry and Veterinary Medicine
 - Chemistry
 - Construction Engineering and Architecture
 - Materials Science and Engineering
 - Mechanical and Industrial Engineering
 - Physics

Usage by Research Area (DFG Level 3)

Usage DFG_TOPIC_LVL3_DESC	YYYY		
	2019	2020	Total
Heat Energy Technology, Thermal Machines, Fluid Mechanics	27.1%	32.2%	29.8%
Particles, Nuclei and Fields	26.8%	26.8%	26.8%
Astrophysics and Astronomy	20.8%	13.4%	16.9%
Condensed Matter Physics	9.7%	7.1%	8.3%
Basic Biological and Medical Research	4.2%	5.6%	5.0%
Computer Science	2.3%	2.0%	2.1%
Geochemistry, Mineralogy and Crystallography	3.2%	0.8%	1.9%
Optics, Quantum Optics and Physics of Atoms, Molecules and Plasmas	0.5%	2.2%	1.4%
Materials Science	1.5%	1.3%	1.4%
Geophysics and Geodesy	0.9%	1.8%	1.3%
Medicine	0.6%	1.6%	1.1%
Chemical Solid State and Surface Research	0.9%	1.0%	1.0%
Physical and Theoretical Chemistry	0.3%	1.0%	0.7%
Biological Chemistry and Food Chemistry	0.0%	1.2%	0.6%
Process Engineering, Technical Chemistry	0.1%	1.1%	0.6%
Atmospheric Science, Oceanography and Climate Research	0.9%	0.3%	0.6%
Mechanics and Constructive Mechanical Engineering	0.1%	0.6%	0.4%
Construction Engineering and Architecture	0.1%	0.1%	0.1%
Mathematics	0.2%	0.0%	0.1%
Water Research	0.0%	0.0%	0.0%
Statistical Physics, Soft Matter, Biological Physics, Nonlinear Dynamics	0.0%	0.0%	0.0%
Geography	0.0%	0.0%	0.0%
Agriculture, Forestry and Veterinary Medicine	0.0%	0.0%	0.0%
Microbiology, Virology and Immunology	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%

Usage by Research Area (DFG Level 3)



- Heat Energy Technology, Thermal Machines, Fluid Mechanics
- Astrophysics and Astronomy
- Basic Biological and Medical Research
- Geochemistry, Mineralogy and Crystallography
- Materials Science
- Medicine
- Physical and Theoretical Chemistry
- Process Engineering, Technical Chemistry
- Mechanics and Constructive Mechanical Engineering
- Mathematics
- Statistical Physics, Soft Matter, Biological Physics, Nonlinear Dynamics
- Agriculture, Forestry and Veterinary Medicine

- Particles, Nuclei and Fields
- Condensed Matter Physics
- Computer Science
- Optics, Quantum Optics and Physics of Atoms, Molecules and Plasmas
- Geophysics and Geodesy
- Chemical Solid State and Surface Research
- Biological Chemistry and Food Chemistry
- Atmospheric Science, Oceanography and Climate Research
- Construction Engineering and Architecture
- Water Research
- Geography
- Microbiology, Virology and Immunology