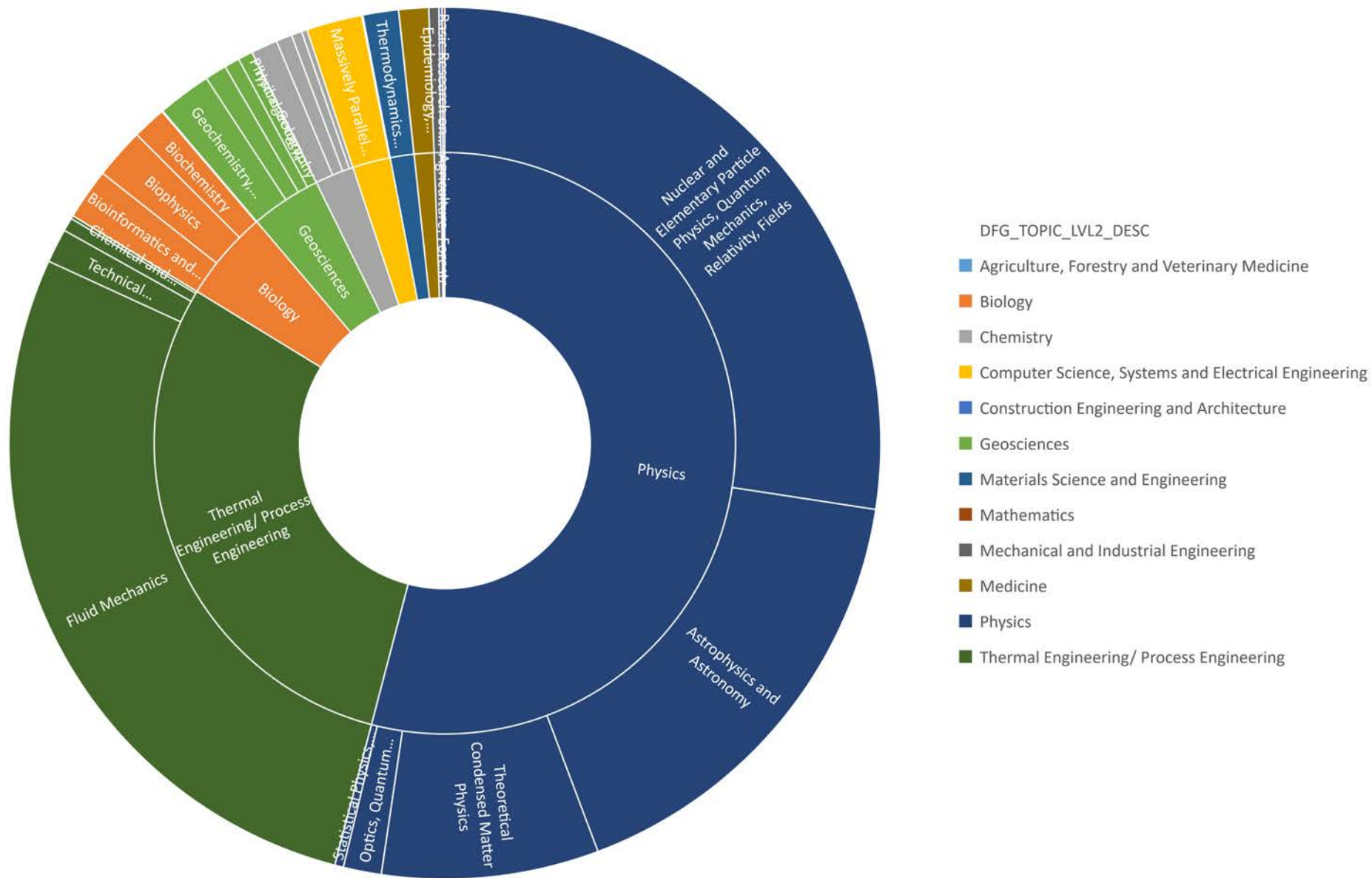


Fraction of Compute Time used by Research Area



Classification by DFG Catalog

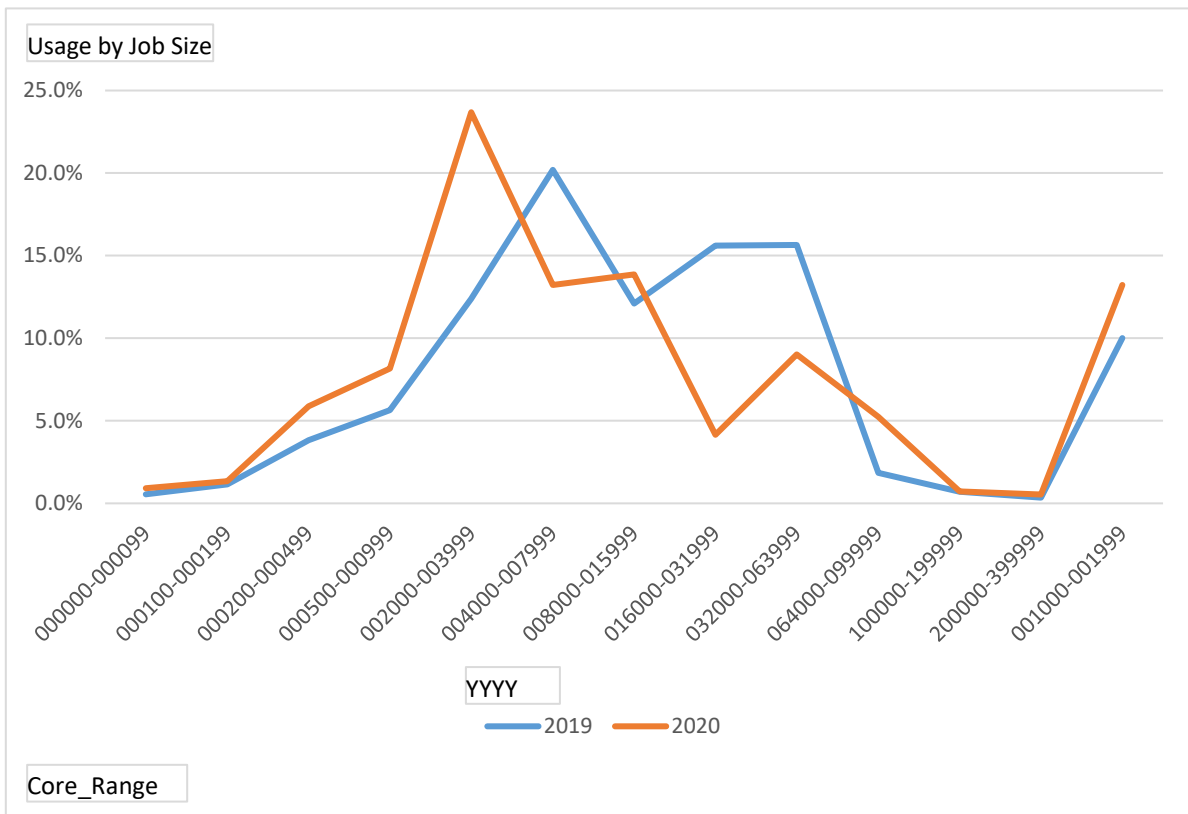
Usage	2019	2020	Total
Physics	57.8%	50.4%	54.1%
Particles, Nuclei and Fields	26.8%	28.1%	27.4%
Nuclear and Elementary Particle Physics, Quantum Mechanics, Relativity, Fields	26.8%	28.1%	27.4%
Astrophysics and Astronomy	20.8%	12.9%	16.9%
Astrophysics and Astronomy	20.8%	12.9%	16.9%
Condensed Matter Physics	9.7%	7.0%	8.4%
Experimental Condensed Matter Physics	0.0%	0.6%	0.3%
Theoretical Condensed Matter Physics	9.7%	6.4%	8.0%
Optics, Quantum Optics and Physics of Atoms, Molecules and Plasmas	0.5%	2.3%	1.4%
Optics, Quantum Optics, Atoms, Molecules, Plasmas	0.5%	2.3%	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%	32.2%	29.7%
Heat Energy Technology, Thermal Machines, Fluid Mechanics	27.1%	31.3%	29.2%
Energy Process Engineering	0.0%	0.2%	0.1%
Fluid Mechanics	27.0%	28.6%	27.8%
Technical Thermodynamics	0.1%	2.5%	1.3%
Process Engineering, Technical Chemistry	0.1%	1.0%	0.5%
Biological Process Engineering	0.1%	0.9%	0.5%
Chemical and Thermal Process Engineering	0.0%	0.0%	0.0%
Biology	4.2%	5.9%	5.1%
Basic Biological and Medical Research	4.2%	5.9%	5.1%
Biochemistry	1.3%	1.2%	1.2%
Bioinformatics and Theoretical Biology	1.8%	2.0%	1.9%
Biophysics	1.1%	2.7%	1.9%
General Genetics	0.1%	0.0%	0.0%
Geosciences	4.9%	2.9%	3.9%
Geochemistry, Mineralogy and Crystallography	3.2%	0.8%	2.0%
Geochemistry, Mineralogy and Crystallography	3.2%	0.8%	2.0%
Geophysics and Geodesy	0.9%	1.8%	1.3%
Geodesy, Photogrammetry, Remote Sensing, Geoinformatics, Cartography	0.3%	0.8%	0.5%
Geophysics	0.5%	1.1%	0.8%
Atmospheric Science, Oceanography and Climate Research	0.9%	0.2%	0.6%
Atmospheric Science	0.9%	0.2%	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%	1.1%	1.0%
Theory and Modelling	0.9%	1.1%	1.0%
Physical and Theoretical Chemistry	0.3%	0.9%	0.6%
General Theoretical Chemistry	0.3%	0.5%	0.4%
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%
Computer Science, Systems and Electrical Engineering	2.3%	1.9%	2.1%
Computer Science	2.3%	1.9%	2.1%
Information Systems, Process and Knowledge Management	0.0%	0.0%	0.0%
Interactive and Intelligent Systems, Image and Language Processing, Computer Graphics and Visualisation	0.1%	0.0%	0.0%
Massively Parallel and Data-Intensive Systems	2.2%	1.9%	2.1%
Materials Science and Engineering	1.5%	1.2%	1.3%
Materials Science	1.5%	1.2%	1.3%
Biomaterials	0.0%	0.0%	0.0%
Thermodynamics and Kinetics of Materials	1.5%	1.2%	1.3%
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%
Engineering Design, Machine Elements, Product Development	0.0%	0.0%	0.0%
Mechanics	0.1%	0.6%	0.4%
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%
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 [Core-h], Utilization [% of max possible] and number of Jobs

Date	Mio Core-h	% of Max	# Jobs
2020	827.0	73.4%	336708
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
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	1657.1	77.6%	518182

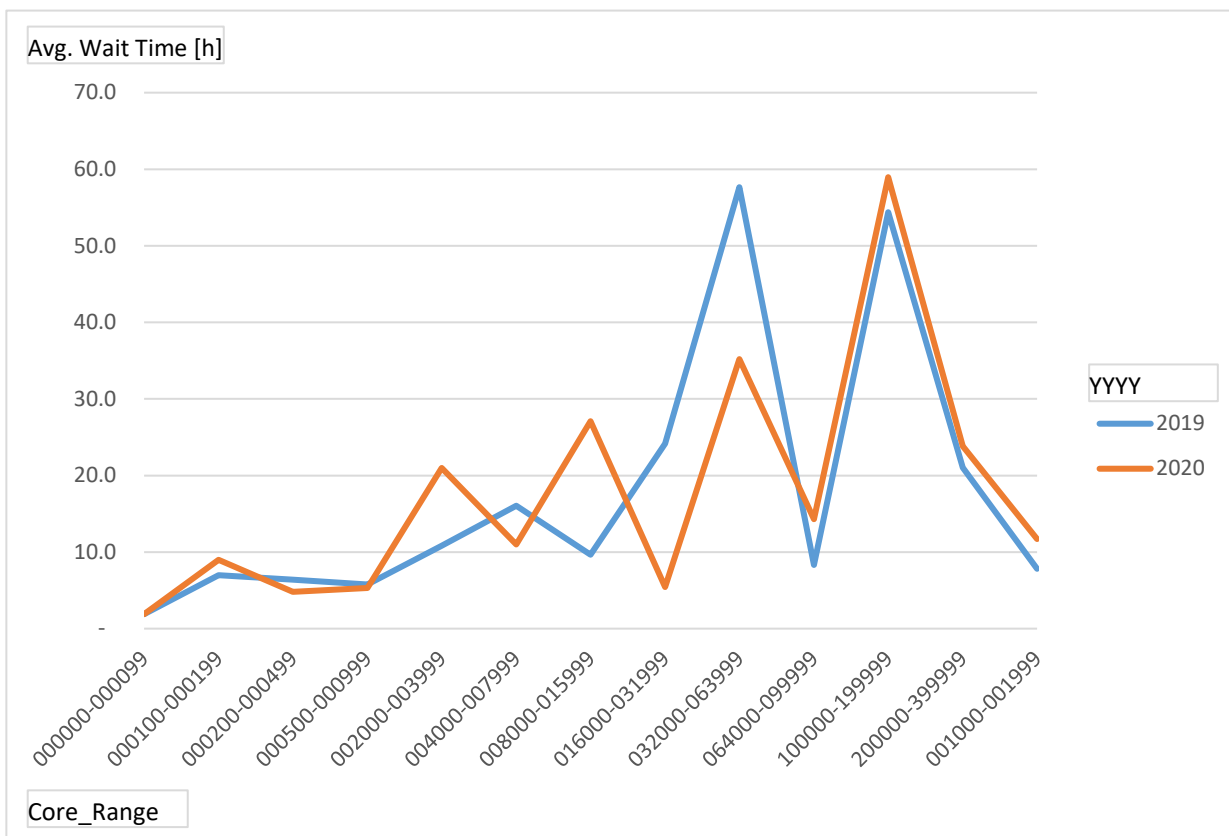
% usage by Job size

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%



Average Wait Time by Jobsite

Avg. Wait Time [h]			
Jobsite [cores]	2019	2020	Total
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



% Usage by Jobsite

Usage			
Jobclass (Partition)	2019	2020	Total
fat	2.0%	1.8%	1.9%
general	75.6%	73.4%	74.5%
large	11.5%	9.4%	10.5%
micro	9.9%	12.6%	11.3%
test	0.2%	0.4%	0.3%
tmp0	0.0%	0.3%	0.2%
tmp1	0.5%	0.8%	0.6%
tmp2	0.3%	1.0%	0.7%
tmp3	0.0%	0.2%	0.1%
Total	100.0%	100.0%	100.0%

Average Wait Time [hours] by Jobclass

Avg Wait_h			
Jobclass (Partition)	2019	2020	Total
fat	8.8	6.5	7.7
general	12.0	14.5	13.2
large	23.9	18.4	21.1
micro	6.6	6.3	6.4
test	0.1	0.1	0.1
tmp0		0.0	0.0
tmp1	2.0	1.1	1.5
tmp2	27.5	23.4	25.5
tmp3		3.6	3.6
Total	11.5	8.2	9.7

YYYY

DFG_TOPIC_LVL2_DESC

Agriculture, Forestry and Veterinary Medicine

Biology

Biology

Biology

Biology

Chemistry

Chemistry

Chemistry

Chemistry

Computer Science, Systems and Electrical Engineering

Computer Science, Systems and Electrical Engineering

Computer Science, Systems and Electrical Engineering

Construction Engineering and Architecture

Geosciences

Geosciences

Geosciences

Geosciences

Geosciences

Geosciences

Materials Science and Engineering

Materials Science and Engineering

Mathematics

Mechanical and Industrial Engineering

Mechanical and Industrial Engineering

Medicine

Medicine

Medicine

Physics

Physics

Physics

Physics

Physics

Physics

Thermal Engineering/ Process Engineering

Thermal Engineering/ Process Engineering

Thermal Engineering/ Process Engineering

Thermal Engineering/ Process Engineering

Thermal Engineering/ Process Engineering

(Alle)

DFG_TOPIC_DESC

Basic Research on Pathogenesis, Diagnostics and Therapy and Clinical Veterinary Medicine
Bioinformatics and Theoretical Biology
Biophysics
Biochemistry
General Genetics
Theory and Modelling
Biological and Biomimetic Chemistry
General Theoretical Chemistry
Physical Chemistry of Molecules, Interfaces and Liquids - Spectroscopy, Kinetics
Massively Parallel and Data-Intensive Systems
Interactive and Intelligent Systems, Image and Language Processing, Computer Graphics and Visualisation
Information Systems, Process and Knowledge Management
Applied Mechanics, Statics and Dynamics
Geochemistry, Mineralogy and Crystallography
Geophysics
Atmospheric Science
Geodesy, Photogrammetry, Remote Sensing, Geoinformatics, Cartography
Hydrogeology, Hydrology, Limnology, Urban Water Management, Water Chemistry, Integrated Water Resources
Physical Geography
Thermodynamics and Kinetics of Materials
Biomaterials
Mathematics
Mechanics
Engineering Design, Machine Elements, Product Development
Biomedical Technology and Medical Physics
Epidemiology, Medical Biometry, Medical Informatics
Virology
Nuclear and Elementary Particle Physics, Quantum Mechanics, Relativity, Fields
Astrophysics and Astronomy
Theoretical Condensed Matter Physics
Optics, Quantum Optics, Atoms, Molecules, Plasmas
Experimental Condensed Matter Physics
Statistical Physics, Soft Matter, Biological Physics, Nonlinear Dynamics
Fluid Mechanics
Technical Thermodynamics
Biological Process Engineering
Energy Process Engineering
Chemical and Thermal Process Engineering

YYYY

Summe von core_h

	DFG_TOPIC_LVL2_DESC
0.00%	Agriculture, Forestry and Veterinary Mec
1.89%	Biology
1.88%	Biology
1.25%	Biology
0.04%	Biology
0.98%	Chemistry
0.59%	Chemistry
0.39%	Chemistry
0.21%	Chemistry
2.06%	Computer Science, Systems and Electrica
0.04%	Computer Science, Systems and Electrica
0.01%	Computer Science, Systems and Electrica
0.12%	Construction Engineering and Architectu
1.99%	Geosciences
0.80%	Geosciences
0.57%	Geosciences
0.54%	Geosciences
0.01%	Geosciences
0.00%	Geosciences
1.32%	Materials Science and Engineering
0.01%	Materials Science and Engineering
0.10%	Mathematics
0.37%	Mechanical and Industrial Engineering
0.00%	Mechanical and Industrial Engineering
1.10%	Medicine
0.00%	Medicine
0.00%	Medicine
27.42%	Physics
16.86%	Physics
8.05%	Physics
1.41%	Physics
0.32%	Physics
0.00%	Physics
27.79%	Thermal Engineering/ Process Engineerir
1.26%	Thermal Engineering/ Process Engineerir
0.50%	Thermal Engineering/ Process Engineerir
0.12%	Thermal Engineering/ Process Engineerir
0.00%	Thermal Engineering/ Process Engineerir

(Alle)

DFG_TOPIC_DESC	Summe von core_h
Basic Research on Pathogenesis, Diag	1.08715E-06
Bioinformatics and Theoretical Biolo	0.018911619
Biophysics	0.018830716
Biochemistry	0.012470679
General Genetics	0.000356206
Theory and Modelling	0.00981042
Biological and Biomimetic Chemistry	0.005911203
General Theoretical Chemistry	0.003883691
Physical Chemistry of Molecules, Inte	0.00209647
Massively Parallel and Data-Intensive	0.020648914
Interactive and Intelligent Systems, I	0.000357273
Information Systems, Process and Kn	7.73837E-05
Applied Mechanics, Statics and Dyna	0.001169892
Geochemistry	1
Geophysics	0.9
Atmospheric	0.8
Geodesy, Pho	0.7
Hydrogeolog	0.6
Physical Geo	0.5
Thermodyna	0.4
Biomaterials	0.3
Mathematics	0.2
Mechanics	0.1
Engineering I	0
Biomedical T	
Epidemiolog	
Virology	
Nuclear and Elementary Particle Phy:	0.274224714
Astrophysics and Astronomy	0.16864521
Theoretical Condensed Matter Physic	0.080451235
Optics, Quantum Optics, Atoms, Mol	0.014077197
Experimental Condensed Matter Phy	0.003214376
Statistical Physics, Soft Matter, Biolo	5.15841E-06
Fluid Mechanics	0.277873548
Technical Thermodynamics	0.012628189
Biological Process Engineering	0.005017119
Energy Process Engineering	0.001183055
Chemical and Thermal Process Engin	3.82661E-05