

# 学位授权点建设年度报告 (2020年)

未经允许不得他用

学位授予单位	名称：石家庄铁道大学 代码：10107
一级学科或 专业学位类别	名称：资源与环境 代码：0857

石家庄铁道大学所有

2020年12月20日

# 一、学位授权点基本情况

085224

2008

2019

2020

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2020

26

9

9

1

5

1

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1

1

3

1

8

1

3

1000

1

4

4

2020

13

1

200

2.3

80%

2020

7

11	600
1000	170
/	60
20	1
	3

## 二、学位授权点年度建设情况

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1.

2020

13

12

2

5

1

2.3

1

1				2019
2				2003
3				2019
4				2007
5				2020

3

11

20

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3.

4.

2020

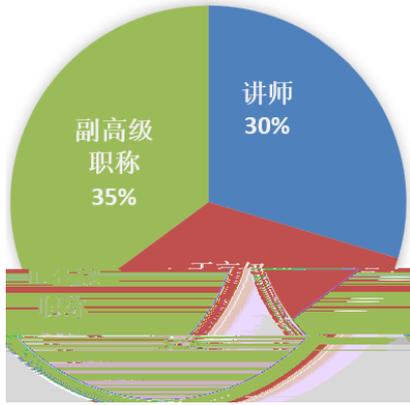
2

2

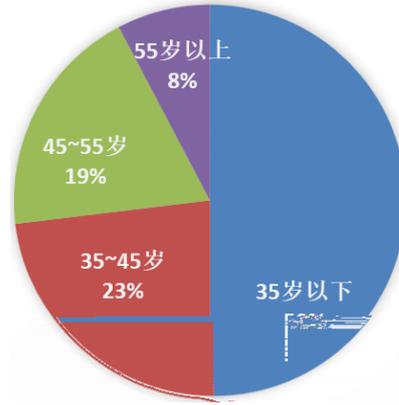
		2020	2.0	1
		2020	22.8	50
		2020	4.0	4
		2020	3.6	7
		2020	5.2	10
		2020	0.72	3

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1



2

2.

10

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2020

3

3 2020

1		2020.12	21	
2	2020	2020.11	23	
3		2020.11	38	
4		2020.10	41	
5		2020.09	47	
6		2020.08	45	

7		2020.05	46	
8		2020.03	24	
9		2020.03	42	
10		2020.02	36	

2024n <</Lang (zh-CN)/MC

5

6

600

1500

170

10		-	10	
11		-	9	

2020  
60  
1 3 7 5  
6  
5 2020

1			2020-12-30	
2			2020-12-20	
3			2020-12-18	
4	TBM		2020-11-28	
5	TBM		2020-11-4	
6	TBM		2020-10-31	
7			2020-7-10	

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6

1				2015.11-
2				2018.09-
3				2018.09-
4				2015.11-
5				2020.10-
6				2018.09-
7				2020.09-
8				2020.11-
9				2020.11-

7

7 2020

1		386.03	

2

7		75.8	
8	307207	60	
9		50	

### 三、学位授权点建设存在的问题

### 四、下一年度建设计划

1.

2.

3.

2.

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3.

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# 学位授权点建设年度报告 (2021年)

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石家庄铁道大学所有

2021年12月20日

# 一、学位授权点基本情况

085224

2008

2019

2021

"

"

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"

"

"

2021

31

9

10

5

1

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1	1	1	1
"	"	1	
	3	1	
	8		
		1	
2	4	7	1300
	4		
2021		15	
m <sup>2</sup>	1.2 m <sup>2</sup>		2000
			200

	2.4	80%
2021	"	"
"	1	3
	20	700
	800	360
	/	60
	30	5
		3

## 二、学位授权点年度建设情况

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1.

2021

15

2.

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3.

2021

2021

1

1

1

4

1

1.2

230

2.4

80%

1

1				2021
2				2019

3				2003
4				2019
5				2007
6				2020

4.

2021 3

10

2021 1

49

13

7

11

3

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2 2021

1			2	1
2			24	54
3			7.6	13
4			4	7
5			6.2	11
6			0.72	3

1.

2021

10

1

"

5

1

1

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31

9

29%

32%

39%

1

52%

35~45

26%

45~55

16%

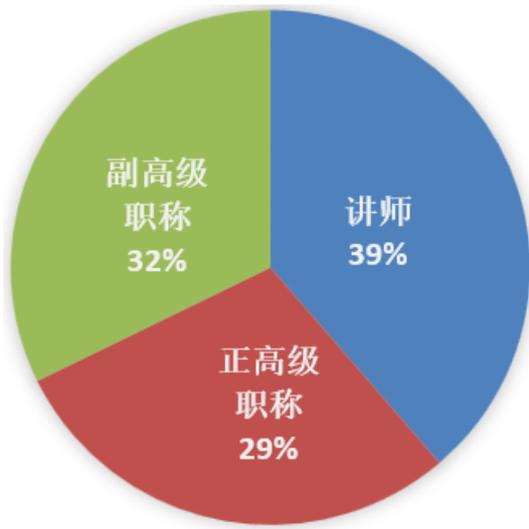
55

6%

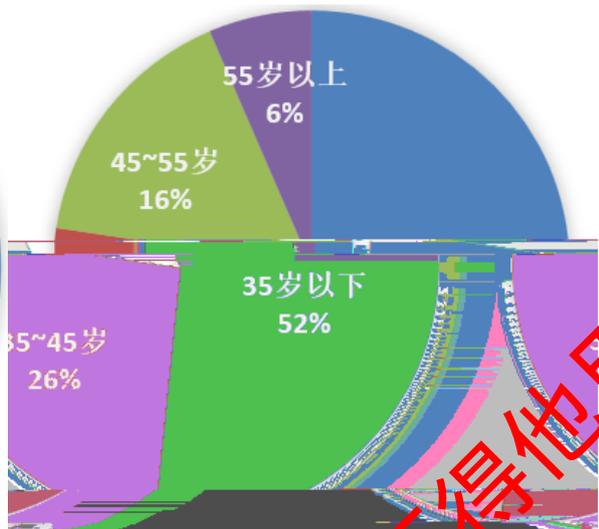
2

94%

6%



1



2

2.

3

3 2021

1		2021.12	47	
2	"	2021.11	39	
3		2021.10	43	
4		2021.09	44	
5		2021.09	47	
6		2021.08	46	
7		2021.08	46	

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8		2021.06	35	
9	"	2021.05	37	
10		2021.04	42	
11	2021	2021.03	25	

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1.  
 2021 3 4  
 20 700  
 800 360  
 2021 4  
 2021  
 " 2021  
 4 2021

			o o	

			o	
o			o	
1				

			1	
o				

2.

2021

60

30

5

3

5

5 2021

1	Liquid water-vapour migration tracing and characteristics of unsaturated coarse-grained soil in high-speed railway subjected to freezing and different load types	Construction and Building Materials	SCI

2 ~~ACI 201-2R0-Environm 4 to W trials~~  
 ability of anti-slide piles to prevent ~~4 (e) (re) 64 re WB/TT1~~

		Materials	
7	Effects of high temperature on the mechanical behavior of calcium silicate hydrate under uniaxial tension and compression.	International Journal of Damage Mechanics	SCI
8	Study on the mechanical behavior of a foundation pit retaining structure adjacent to the pile foundation of a subway station	Environmental Earth Sciences	SCI

9 Efficient flexibility identification method using structured target rank approximation and extend

	corrosion behavior of steel fibers in cracked mortars exposed to NaCl solutions	and Building Materials	
17	Correlation of coupled effects of curing stress and curing temperature on the mechanical and physical properties of cemented paste backfill based on gray relational analysis	Arabian Journal of Geosciences	SCI
18	Intelligent recognition of safety risk in metro engineering construction based on BP neural network	Mathematical Problems in Engineering	SCI
19	Static and seismic experiments on the beam-column joints of a underground cylindrical garage prefabricated integrated structure	International Journal of Steel Structures	SCI
20	A combined positioning method used for identification of concrete cracks	Micromachines	SCI
21	A high-sensitivity FBG accelerometer based on a bearing	IEEE/OSA Journal of Lightwave Technology	SCI

6

6 2021

1	TBM	668.84	
2	DK129+300 DK159+986.28	418	
3		387.5	
4		150	
5	2020 002	84	
6		67	
7		55	



# 学位授权点建设年度报告 (2022年)

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2022年12月20日

## 一、学位授权点基本情况

085224

2008

2019

2022

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2022

36

10

10

5

1

1

1

1

3

1

8

2

2.5	80%			
2022		1		1
	20		2000	
	1300			
1000		1	/	
	70		30	1

## 二、学位授权点年度建设情况

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1.				
2022			17	
2.				
2022		1	+1	+1

+1 +1

2

4

1300

1

4

3000m<sup>2</sup>

1000

2.4

1			2021
2			
3			2020
4			2019
5			2007
6			2020

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1

2022

BIM

2022

4

2

2 2022

		2022	2.0	1
		2022	25.8	58
		2022	6.0	12
		2022	4.0	7
		2022	0.6	1
		2022	0.72	3

5.

2022

2

4

3 2022

1			9
2	-		

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1.

2022

10

36

10

5

1

1

1

1

8

28%

28%

44%

1

35

53%

35~45

22%

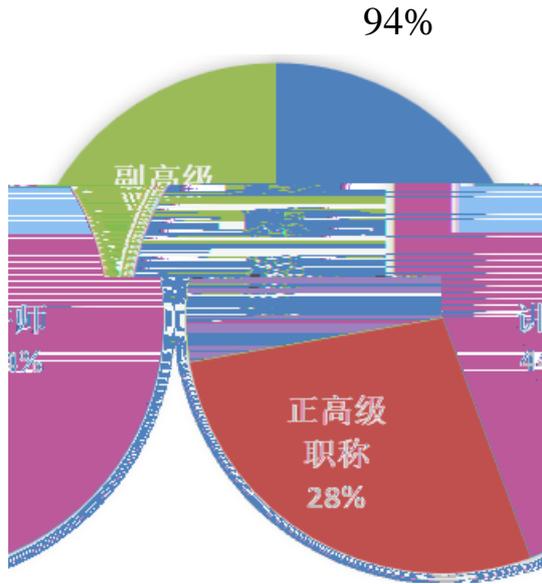
45~55

19%

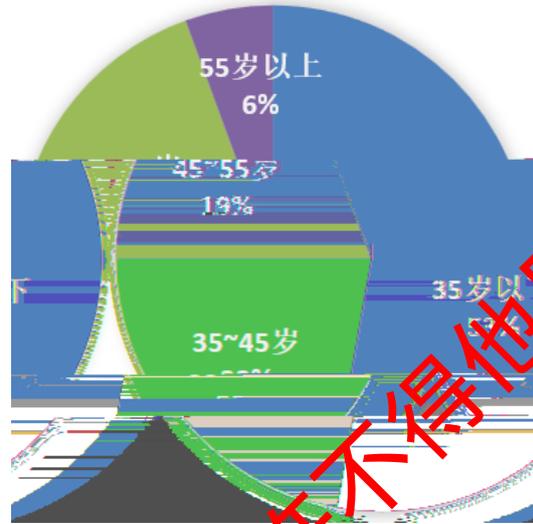
55

6%

2



1



2

2.

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10

2022

4

4 2022

1		2022.12	23	
2		2022.11	47	

2		-		80	
3		-	-	45	
4		-30	50	30	
5			-	30	
6	U		-15	25	
7			-	20	
8		-		15	
9		-10	30	11	
10		-		10	
11			-	10	

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1			9	
2		-		

1 1

1

/

79

30

1

6

6

1	Three-dimensional inversion resolution in detecting stagnant slabs using a dense geomagnetic depth sounding method	Physics of the Earth and Planetary Interiors	SCI
2	Development and Application of Similar Materials for Foundation Pit Excavation Model Test of Metro Station	applied science	SCI
3	A study of the train-Induced vibration responses of heavy haul railway subgrade in seasonally frozen regions using field experiments	Sustainability	SCI
4	UAV Imagery based Potential Safety Hazard Evaluation for High-Speed Railroad Using Real-time Instance Segmentation	Advanced Engineering Informatics	SCI
5	Insights into the thermal effect on the fracture toughness of calcium silicate hydrate grains: A reactive molecular dynamics study	Cement and Concrete Composites	SCI
6	Experimental Study of the Pore Structure	ACS OMEGA	SCI

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	and Gas Desorption Characteristics of a Low-Rank Coal: Impact of Moisture		
7	Life Assessment of Railway Tunnel Lining Structure Based on Reliability Theory	Technical Gazette	SCI
8	Hysteretic behavior degeneration mechanism and damage evaluation of self-centering bridge pier system	Engineering Structures	SCI
9	Research on the Evolution of Shield Segment Cracks Based on Acoustic Emission and CMOD	Materials	SCI
10	Superimposed Stress Calculation of Soil Underlying Anchor Beam considering Anisotropy and Strength Nonhomogeneity	Geofluids	SCI
11	Superimposed Stress Calculation of Soil Underlying Anchor Beam considering Anisotropy and Strength Nonhomogeneity	GEOFLUIDS	SCI
12	Creep-fatigue characteristics of rock salt under different loading paths	Journal of Petroleum Science and Engineering	SCI
13	Characteristics of transient pressure in lining cracks induced by high-speed trains	Journal of Wind Engineering & Industrial Aerodynamics	SCI
14	A New Empirical Model to Predict Methane Adsorption Amount of Anthracite Considering Temperature Effect	Energy and Fuels	SCI
15	Development of Transversely Isotropic Elastoplastic Constitutive Model in FLAC3D and Its Application in Tunnel Engineering	Geofluids	SCI
16	Multi-fault diagnosis for series-connected lithium-ion battery pack with reconstruction-based contribution based on parallel PCA-KPCA	Applied Energy	SCI

17	A novel concrete crack damage detection method via sparse correlation model	Structural Control & Health Monitoring	SCI
18	Insights into the effect of high temperature on the shear behavior of the calcium silicate hydrate by reactive molecular dynamics simulations	International Journal of Damage Mechanics	SCI
19	Superfine comminution characteristics of low-rank coal pyrolysis semicokes and evolution of fragmentation fractal dimension	Fuel	SCI
20	Post-earthquake assessment model for highway bridge networks considering traffic congestion due to earthquake-induced bridge damage	Engineering Structures	SCI
21	ANN-based rapid seismic fragility analysis for multi-span concrete bridges	Structures	SCI
22	Comprehensive functional resilience assessment methodology for bridge networks using data-driven fragility models	Soil Dynamics and Earthquake Engineering	SCI
23	Evolution Patterns of Frost-Heaving Pressure with Partial Bonding in Cold Region Tunnels	Geofluids	SCI
24	Research progress of the thermophysical and mechanical properties of concrete subjected to freeze-thaw cycles	Construction and Building Materials	SCI
25	Slight overcharging cycling failure of commercial lithium-ion battery induced by the jelly roll destruction	Process Safety and Environmental Protection	SCI
26	Analysis of the buckling failure of bedding slope based on monitoring data - a model test study	Geomechanics and Engineering	SCI
27	Damage Identification Method for Medium- and Small-Span Bridges Based on Macro-Strain Data under Vehicle Bridge	Materials	SCI

	Coupling		
28	Macro- and mesoscopic experimental study of the effects of water content on moisture migration in coarse-grained fillings under freeze thaw cycles and loads	Cold Regions Science and Technology	SCI
29	Water adsorption characteristic and its impact on pore structure and methane adsorption of various rank coals	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	SCI
30	A High-sensitivity FBG Accelerometer Based on a Bearing	IEEE/OSA Journal of Lightwave Technology	SCI

7

7 2022

1	2022~2024	2653.27	
2		900.00	
3	TBM	589.59	
4	BYZFZT1	421.08	
5		350.00	
6	2022	88.33	
7	2022 005	86.80	
8		86.00	
9		75.00	
10		67.61	

11	2022~2024	51.00	
12	TBM	50.00	

1

-

2022

4300

2

3

250

350

900

750

550

2022 6

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900

4

TBM

TBM

2022 10 24

TBM

5

2022 10

1 +1 +1 +1 +1

1

1

1

1 10 1

6

8000

16000

20%

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### 三、学位授权点建设存在的问题

#### 四、下一年度建设计划

1.

2.

3.

1.

2.

3.

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