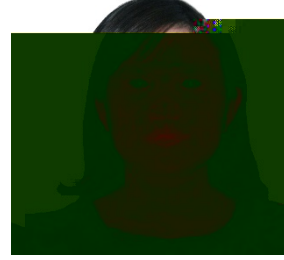


1984 3



022-24092288

nexiao@cauc.edu.cn

1

2006.09 -2009.06

2002.09 -2006.07

2

2021.01-

2018.01-2020.12

2009.07-2017.12

(1)

(2)

300

216

1 /

/

(1)AS700

45

2022.07-2024.06 1/6

(2)

25

2021.05-2022.06 1/7

(3) AG600

22

, 2021.07-2023.06 1/6

(4)

175

2017.02—2019.06 1/10

(5)

107

2013.11-2019.05 1/10

(6) XX

700

2015.01-2019.12 3/29

(7)

EWIS

70

, 2014.01--2017.07 2/10

(8)

430

( ), 2014.01-2017.07 7/20

(9)

199

2

(1) , , .

[J]. , 2020, v.27;No.260(02):59-63+88.

(2) , , . [J].

,2019,29(12):72-77.

(3) , , , . Bradley-Terry

EWIS [J]. ,2019,42(18):50-54+59.

(4) , , , .

[J]. ,2018,50(05):687-694.

(5)

ZL201410397348.9

(6)

ZL201711214848.4

3

(1)2021 2

(2)2020 " "

(3)2019 4

(4)2017 7