





30 400  
40 EI 8

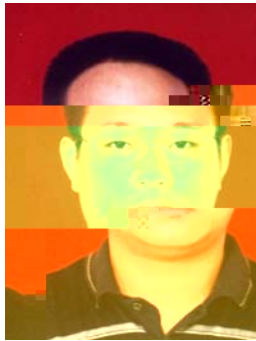


1 2

3

15

4



3

8

3

1

1

1

2002

2005

2009

1

1

1

1

EI 3 1 ISTP 6 RC

2008



1  
 Journal of Constructional Steel Research Advances in  
 Structural Engineering Steel and Composite Structure  
 7 SCI 3  
 EI 7

2009



1 1  
 Journal of Engineering Mechanics, ASCE 9  
 SCI 1 EI 7



2002  
 2006 2009  
 1 1  
 1 1