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2006/09–2011/06

2011/09–2014/06

2014/09–2017/06

2017/07-2018/04 2017/07

2018/05-2020/12 2018/05

2021/01- 2021/01

2022/11- 2022/11

1. TLR4/MYD88/NF- NSFC-
   50 U2004102
2. HPT $PM_{2.5}$ SD 5
   202300410312
3. “ - ” SCFAs
   10 232102311071
4. $PM_{2.5}$ 20
   XYBSKYZZ201806
5. Ras/Akt/TRHr $PM_{2.5}$ THs 1
6. -
   218 U1904209
7. -
   20 51608155

8. V2O5-WO3/TiO2 SCR
222102320316
9. 212102311072
10. CVD
11. $PM_{2.5}$ 2019
xyxskyz201930
12. PI3K/AKT $PM_{2.5}$ 2020
xyxskyz202003
13. Nrf2/HO-1 2021
xyxskyz202125
14. Ras/Akt/TRHr $PM_{2.5}$ 2021
xyxskyz202132
15.
16. “ ”

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12. , , , , , , , , *. [J]. . 2021; 39(02): 137-142.
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14. , *. [J]. ,2013,35(06):554-558.
15. , , , , , , , , , . $PM_{2.5}$ [A]. .
16. , 6.681 13269 T2 , 0 Tc <4E1Tj /C2_3 0 Tw .11269 T2 0 Tc 0,0 1 371.0325 6 0.027 Tc,2Tc (,)Tj /C2_3 9 Tf 0.117 Tc <
TLR4/MyD88/NF-