

【本件リリース先】

文部科学記者会、科学記者会、
広島大学関係報道機関



広島大学

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3 9 0 : - - -

4 11 28



RGB
80

100

0.01

34

20

12

1

80

85

1

15

85

85

80

100

6

2

3

TV

LED VR AR
SDGs

Stability of Silicon Quantum Dots Against Solar Light/Hot Water: RGB Foldable Films and Ligand Engineering

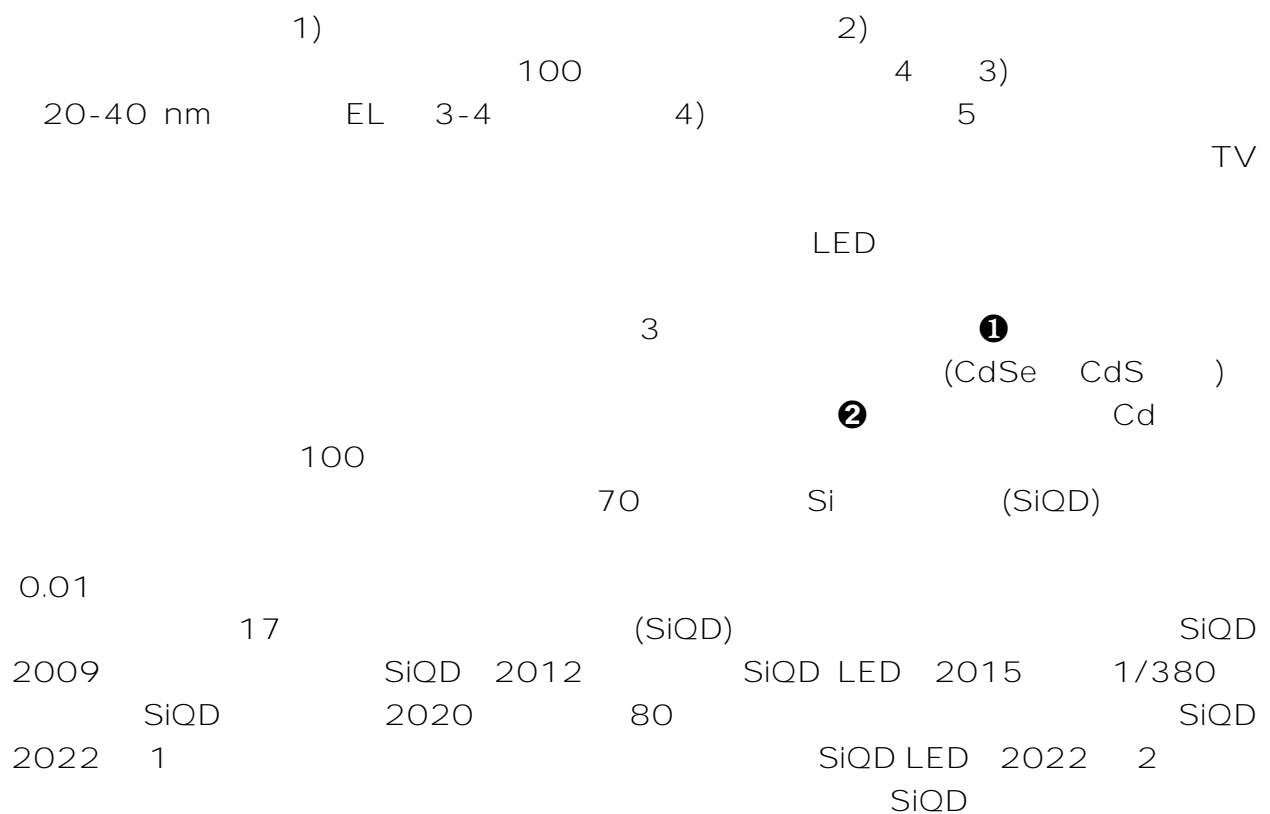
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- 1.
- 2.
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ACS

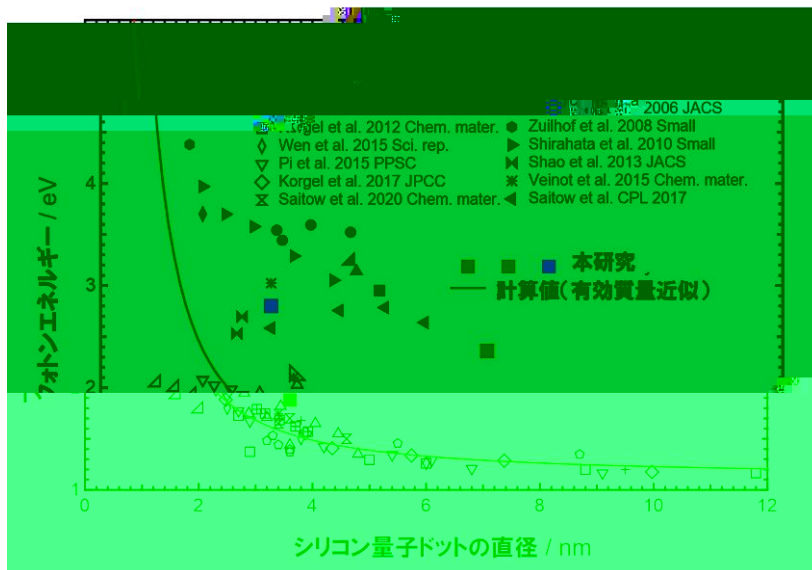
Sustainable Chemistry & Engineering (IF=9.224)



				SiQD				
1		SiQD						40 mm
0.5	3 mm							2
SiQD								12
			8	80	SiQD		100	
							6	
		6						
				SiQD				
660 nm		530 nm		400 nm			1	
				34	20		12	
SiQD								
		Si-O-Si						2a
		SiQD						
		SiQD						
					6h			
					8			
					(2b)			
	SiQD	80	80	12				85
		15						
	SiQD						1	
	SiQD	80						
10								
11								
	2	SiQD	SiQD			SiQD		3
						(3)		
			SiQD					80
100						SiQD		
AR								LED VR
						SDGs	12	
					7			
						SiQD	LED	
86								
								2026
								SDGs
		8		9				

1. (a)

(SIQD)



3. SiQD

F(fast)

S(slow)

1

Si-O-Si

2

3

4

50 PLQY

50

5

LED

1000

100

6

85

85

80

100

SiQD

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