

2022 2 33

2022 5 31

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miRNA

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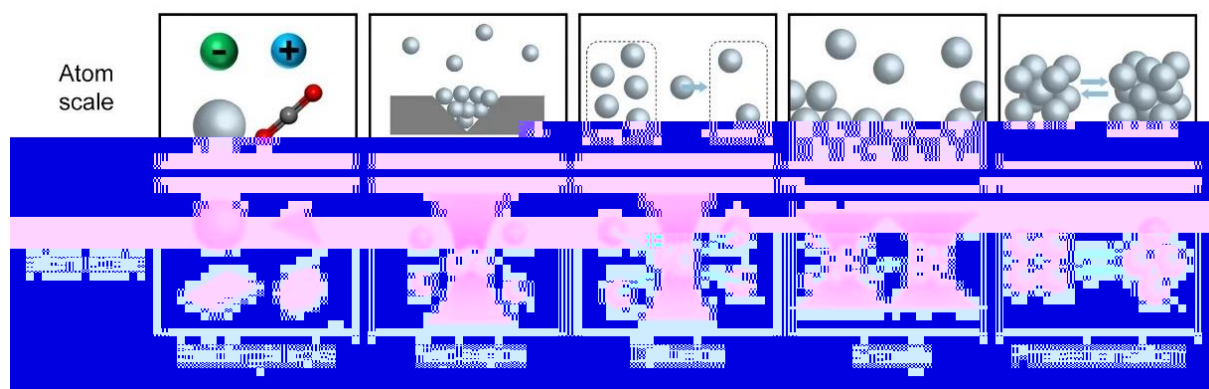
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2022 4



10nN

Matter 3 23

Light-Directed Assembly of Colloidal
AdvancedFunctionalMaterials

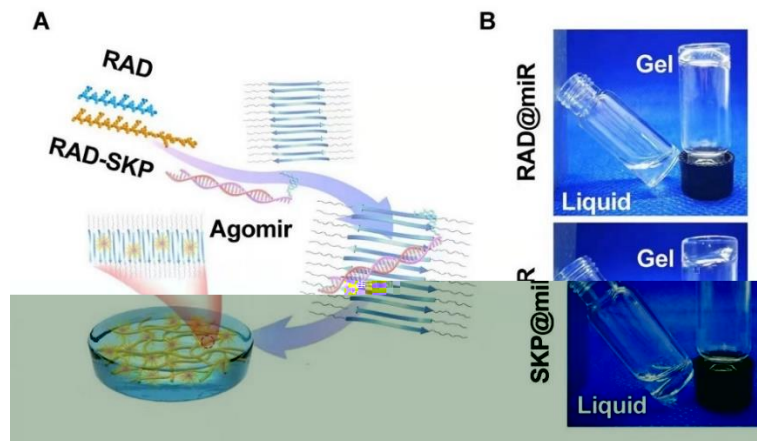
2019

<https://onlinelibrary.wiley.com/doi/full/10.1002/adfm.202104649>

miRNA

2022 4

OA OA
 OA miRNA miR-29b-5p
 miR-29b-5p
 SMSCs miRNA OA



miR-29b-5p SKP@miR A RAD RAD-SKP
 agomir-29b-5p B pH

OA OA
 miR-29b-5p OA
 (P16INK4a/P21) OA
 OA
 SKP@miR SMSCs
 OA
 OA
 miRNA OA
 OA

cell-homing hydrogel-based miR-29b-5p delivery promotes cartilage regeneration by suppressing senescence in an
 osteoarthritis rat model 4 1 - Stem
 Science Advances
 2017

AntoniosG.Mikos

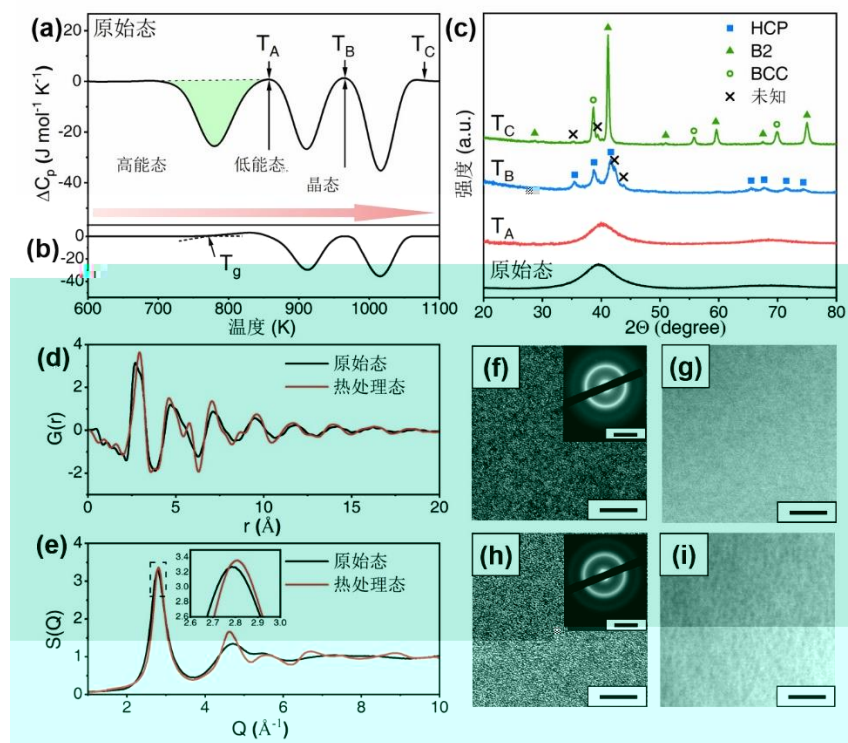
<https://www.science.org/doi/10.1126/sciadv.abk0011>

1a

1d,e

1f,g,h,i

40% 10%



a TA b NbNiZrTiCo , (a)

X c X (d e)

(f)

h

(g) i

2019

2014

2018

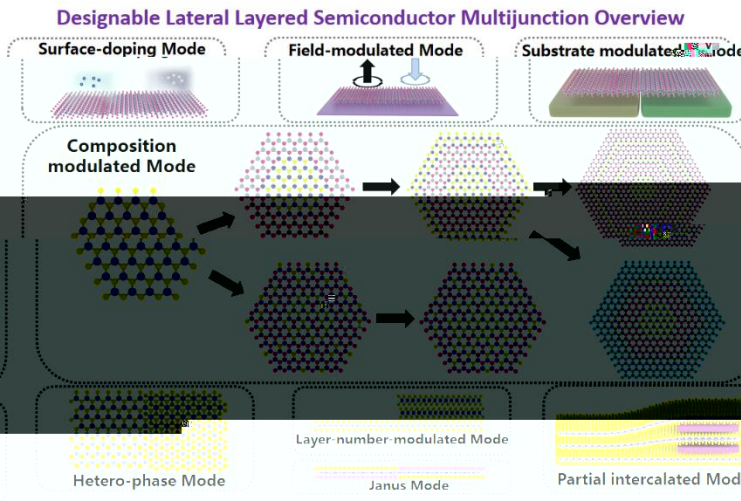
2020

<https://doi.org/10.1038/s41467-022-29789-1>

2020 7nm
10nm

2003 90nm

2022 4



Lateral layered semiconductor multijunction for novel electronic devices

2022 4 28

Chemical Society Reviews

2021

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<https://doi.org/10.1039/D1CS01092A>

2022 4 11



3 28

2022 4 18

2022 4 21

7



100%

2021

2022 4 21

80

21 211

4 29

400

2022 5 21

2020

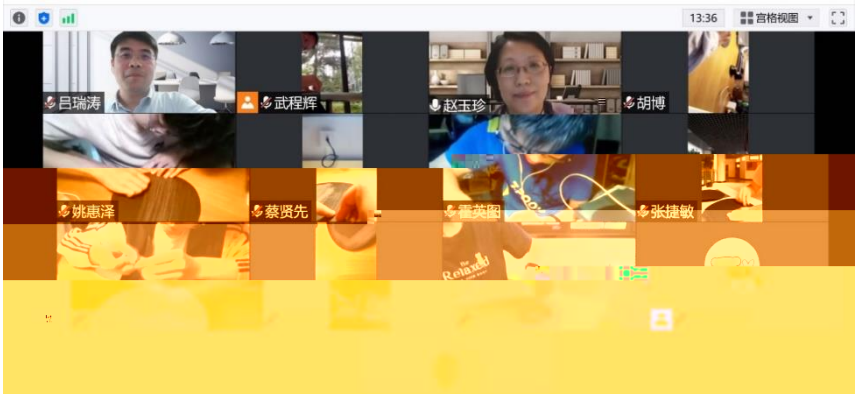
PEMFC

8

5 8

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1



2

5 23 -31

2022 4 23
3217
1988
1997

1988
1989
2003

2020 35 35 2005

1988 1993 2002

1987
KrF/ArF
1991 1996
90

20



1997 2 10 72 1998 2 82



1997 2 1998 2



2022 4 23 20



11

2021

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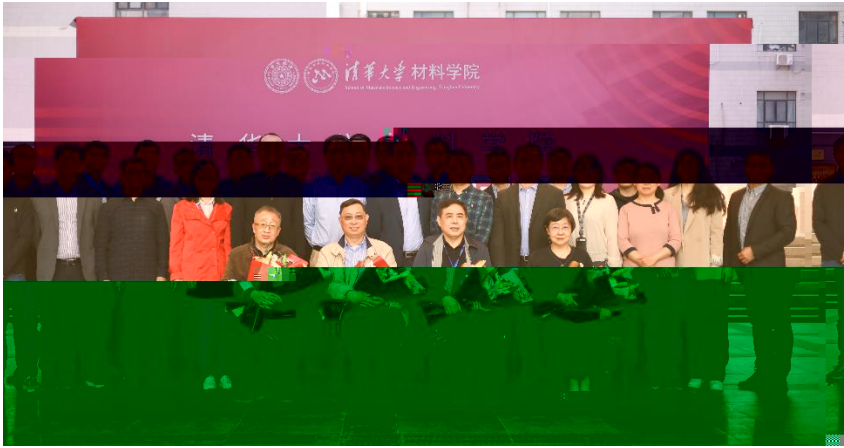
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2022 4 23

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2022 4 23 , A205
2021-2022 30

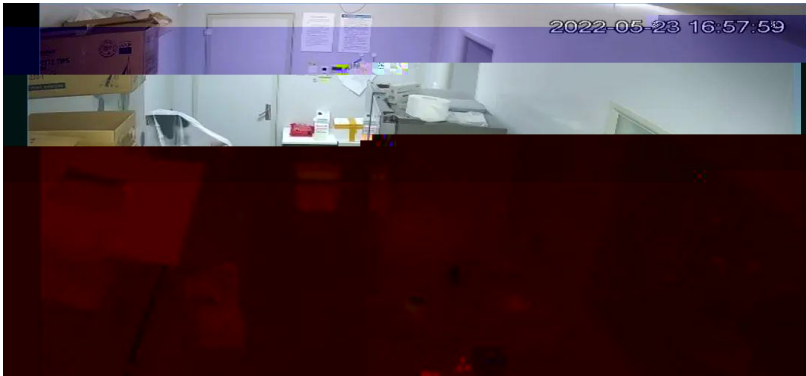


2022 5 21
22
5 21

2022 5 18

5 41

smartLab



smartLab

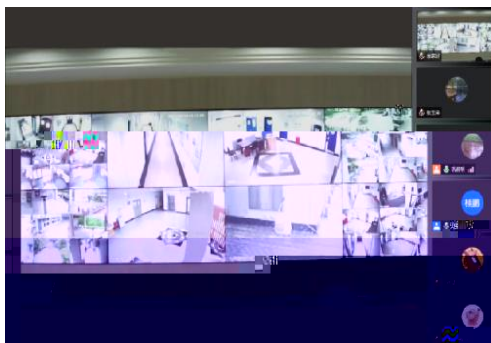
2019

2021

APP



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62784560

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