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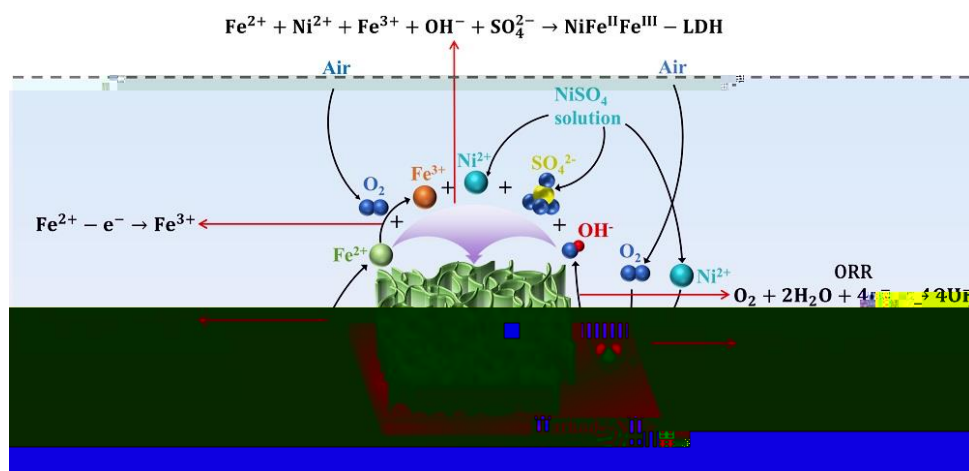
2021

3D

OER
 NiFe-LDH@IF
 OER
 NiFe-LDH@IF
 NiFe-LDH@IF
 NiFe-LDH@IF

OER
 LDH@IF

NiFe-
 OER



11 23

NiFe Layered Double Hydroxides Grown on a Corrosion-Cell Cathode for Oxygen Evolution
 Electrocatalysis
 Advanced Energy Materials
 2019

<https://onlinelibrary.wiley.com/doi/10.1002/aenm.202102372?af=R>

(SMSI)

Pt CeO₂ CeO₂ CeO_x SMSI CeO_x

Pt

Pt/TiO₂ Pt/Al₂O₃ Au/MgO Pt/SiO₂

SMSI

Au/TiO₂ Pd/TiO₂

SMSI

ultrafast laser

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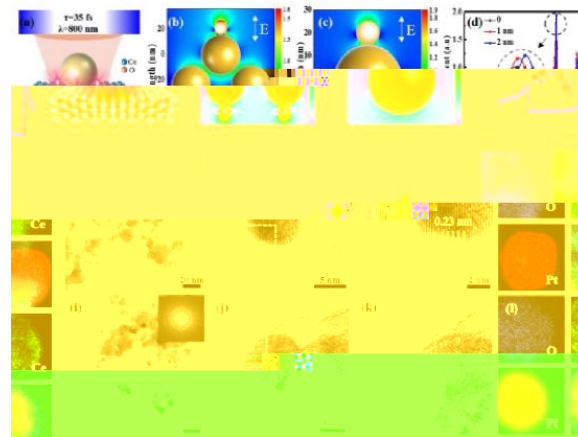
Strong metal-support interactions induced by an

NatureCommunications

<https://doi.org/10.1038/s41467-021-27000-5>

2017

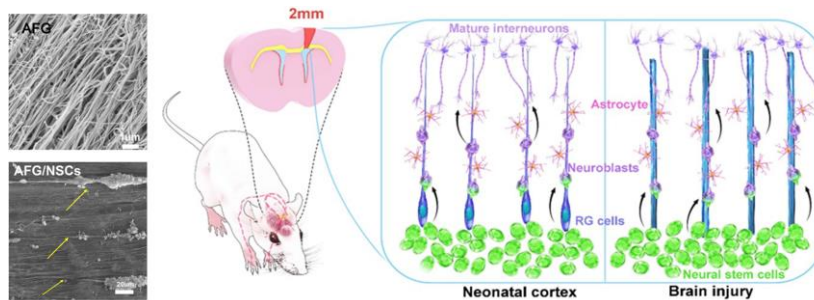
2018



SMSI (a-d) FDTD e-h
 Pt/CeO₂ TEM Mapping; (i-l) Pt/CeO₂ TEM Mapping.

AFG

AFG



AFG

” Structural alignment guides oriented migration and differentiation of endogenous neural stem cells for neurogenesis in brain injury treatment 12 3

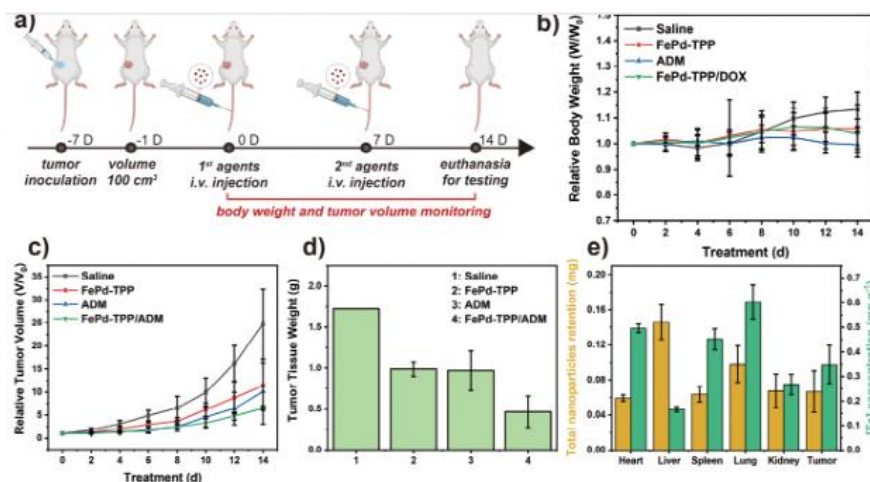
Biomaterials 2018

<https://doi.org/10.1016/j.biomaterials.2021.121310>

Fe_{0.037}Pd_{0.963}
Fe²⁺

Pd
Adriamycin

V_{max} = 1.69 × 10⁻⁹ M s⁻¹
H



“Ultra-Sensitive Iron-Doped Palladium Nanocrystals with Enhanced Hydroxyl Radical Generation for Chemo-/Chemodynamic Nanotherapy” 12 4

AdvancedFunctional Materials

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<https://onlinelibrary.wiley.com/doi/full/10.1002/adfm.202107518>

MOF Fe - Fe

ORR/OER

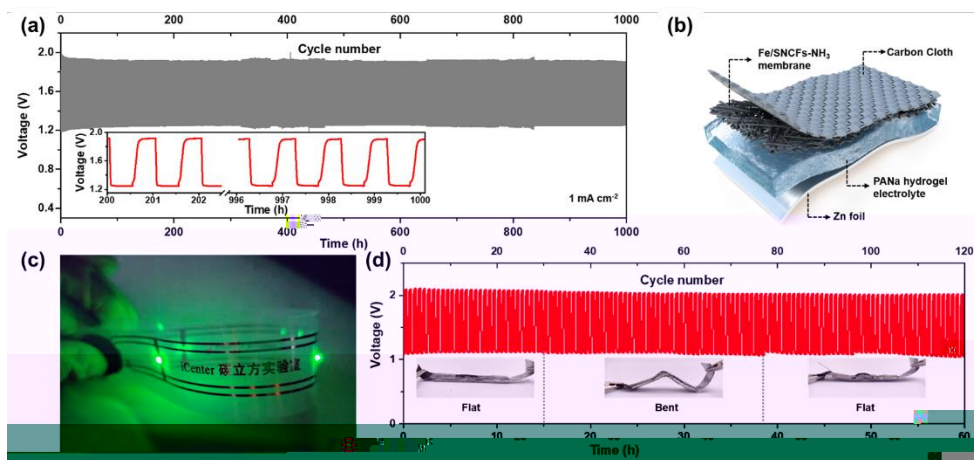
NH₃ 9.5 Fe-N4/C

Fe-N4/C NH₃ Fe-N4/C

ORR OER

0.89 V 70.82 mV dec⁻¹ Pt/C Fe/SNCFs-

NH₃ 1 mA cm⁻² 1000 255.84 mW cm⁻²



(a)

(c)

LED

(d)

(b)

Fe-N4/C

1000

Atomic Fe-N4/C in flexible carbon fiber membrane as binder-free air cathode for Zn-air batteries with stable cycling over 1000 hours

Advanced Materials

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clx@tsinghua.edu.cn

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