Analyst

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Cover
See Ping Ma, Wenxuan Zhong, Yiping Zhao *et al.*, pp. 460–469.

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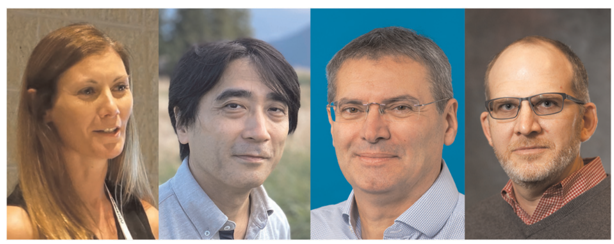
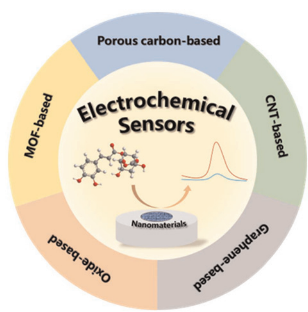
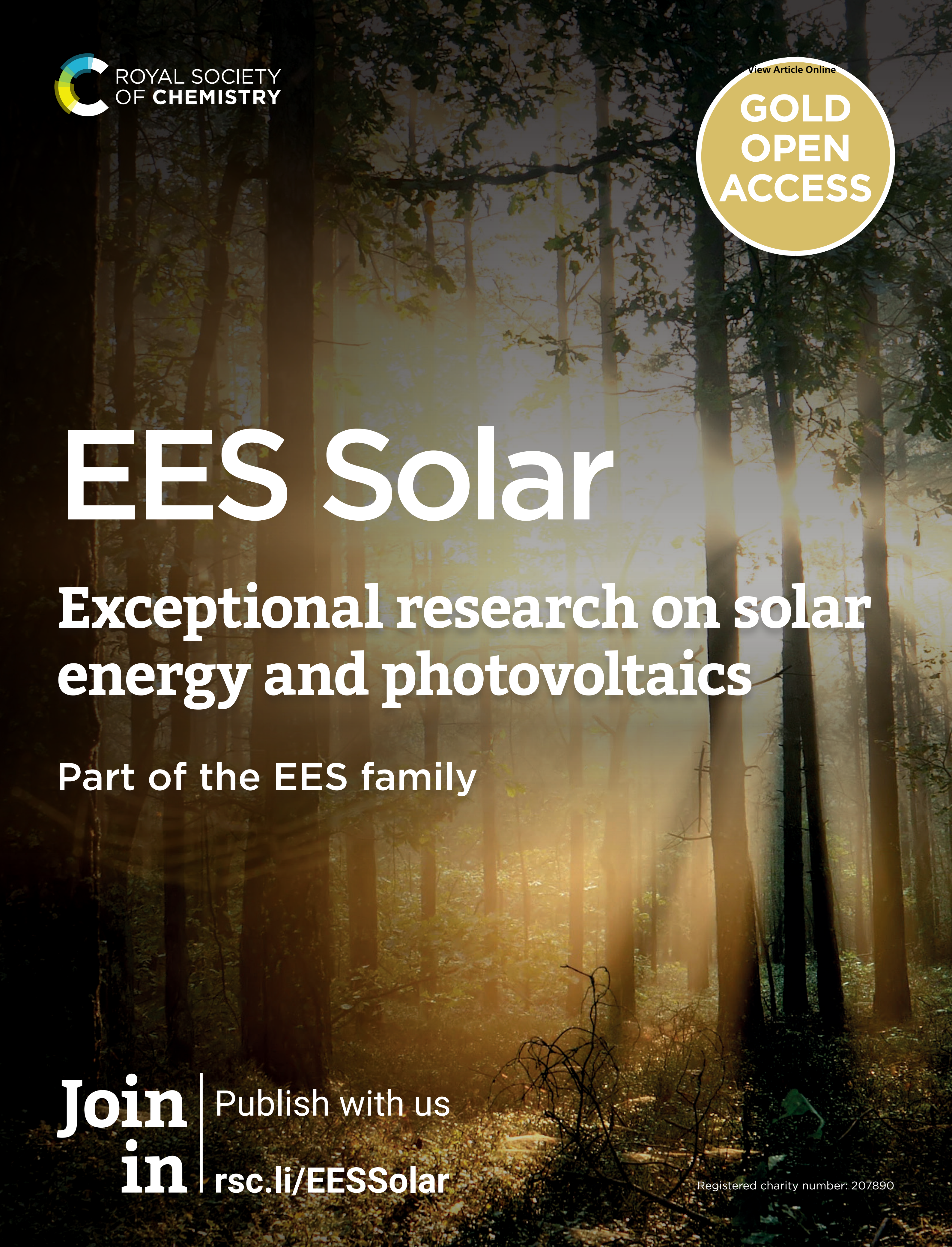
EDITORIAL

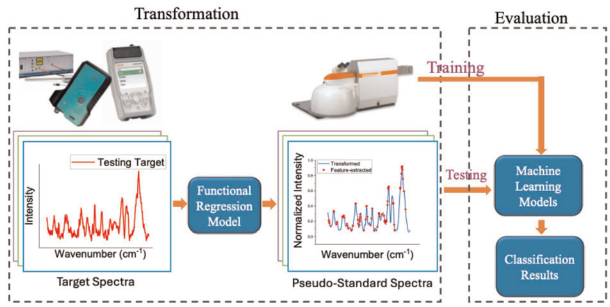


MINIREVIEW

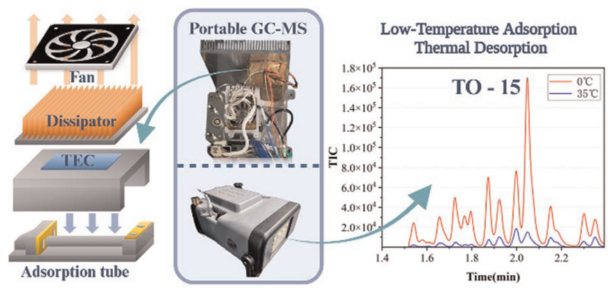




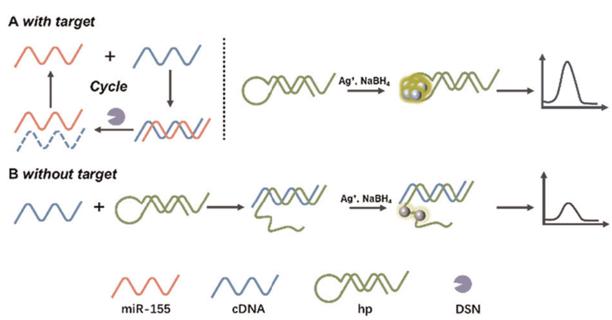
PAPERS



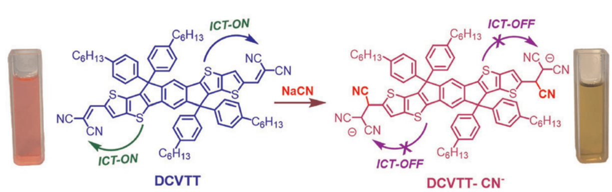
Transformation
Evaluation
Training
Testing Target
Intensity
Wavenumber (cm^{-1})
Target Spectra
Functional Regression Model
Normalized Intensity
Wavenumber (cm^{-1})
Pseudo-Standard Spectra
Testing
Machine Learning Models
Classification Results



Fan
Dissipator
TEC
Adsorption tube
Portable GC-MS
Low-Temperature Adsorption Thermal Desorption
TO - 15
0℃
35℃
TIC
Time(min)



A with target
Cycle
Ag$^+$, NaBH$_4$
B without target
Ag$^+$, NaBH$_4$
miR-155
cDNA
hp
DSN



ICT-ON
ICT-ON
NaCN
ICT-OFF
ICT-OFF
DCVTT
DCVTT- CN$^-$

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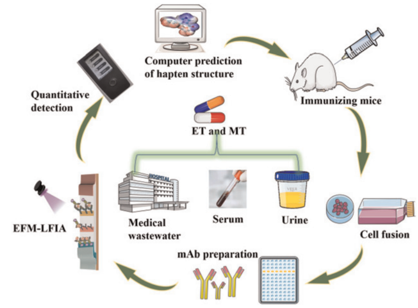
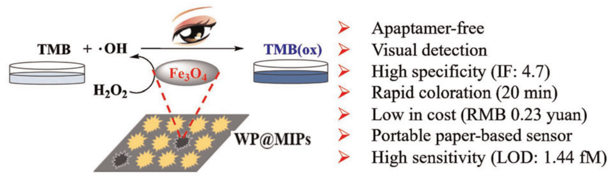
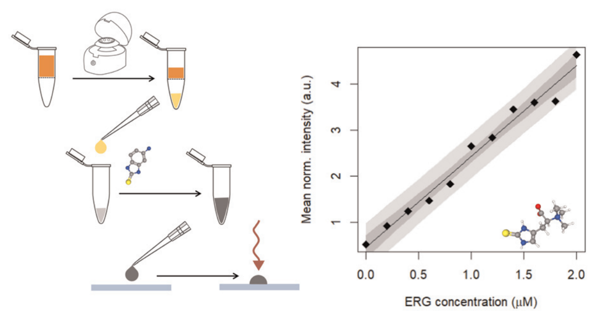
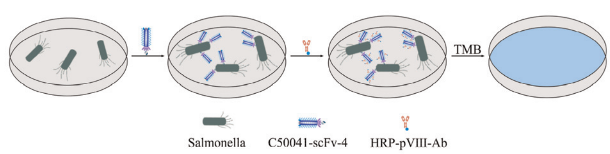

Computer prediction of hapten structure
Immunizing mice
Quantitative detection
ET and MT
EFM-LFIA
Medical wastewater
Serum
Urine
Cell fusion
mAb preparation


TMB + ·OH
TMB(ox)
Fe_3O_4
H_2O_2
WP@MIPs
Apaptamer-free
Visual detection
High specificity (IF: 4.7)
Rapid coloration (20 min)
Low in cost (RMB 0.23 yuan)
Portable paper-based sensor
High sensitivity (LOD: 1.44 fM)


Mean norm. intensity (a.u.)
ERG concentration (µM)
0.0
0.5
1.0
1.5
2.0
1
2
3
4


TMB
Salmonella
C50041-scFv-4
HRP-pVIII-Ab