

Shaobin Wang



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Education:

PhD (1995/1~1998/3) Chemical Engineering, The University of Queensland, Australia

M.S. (1987/9~1990/7) Environmental Chemistry, Peking University, P.R. China

B.S. (1983/9~1987/7) Applied Chemistry, Peking University, P.R. China

Experience:

Postdoc (1998/4~1999/8) National Institute of Materials and Chemical Research, Japan

Postdoc (1999/9~2001/3) Department of Chemical Engineering, Auburn University, USA

Selective Honors & Awards:

1. Co-Editor, Journal of Colloid and Interface Science (Elsevier) (2019/1~now)
2. Editor: Applied Catalysis B: Environmental (Elsevier) (2023/1~now)
3. Top 2% Scientist list, Standford /Elsevier (2019-2025)
4. "The Australian" Australia's top 250 researchers in the world (2023-2025)
5. ARC Laureate Fellowship, 2023
6. John Curtin Distinguished Professorship, Curtin University (2017)

Research Areas:

Nanomaterials synthesis and applications; Catalytic reactions for energy conversion and environmental remediation

Selective Publications:

1. "Multidimensional engineering of single-atom cobalt catalysts for ultrafast Fenton-like reactions," *Nat. Water*, 3 (2025), 211–221.
2. "Tandem microplastic degradation and hydrogen production by hierarchical carbon nitride-supported single-atom iron catalysts," *Nature Commun.*, 15 (2024), 8769.
3. "Photothermal catalysis: From fundamentals to practical applications," *Mater. Today*, 68 (2023), 234-253.
4. "Origins of electron-transfer regime in persulfate-based nonradical oxidation processes," *Environ. Sci. Technol.*, 56 (2022), 78-97.
5. "Single-atom catalysis in advanced oxidation processes for environmental remediation." *Chem. Soc. Rev.*, 50 (2021), 5281-5322.