Selected Publications Using RWD Small Animal *In Vivo* Optical Imaging System

Latest update time: June 28th, 2026

We select a series of high reputed papers using RWD Small Animal *In Vivo* Optical Imaging System. We categorize them into different research topics for you to better check.

Research topics:

Cancer

- Deng, Z., Lu, L., Xu, T. *et al.* Enhancing antitumour nanovaccine efficacy via integrated cholesterol modulation in situ. ***Nat. Nanotechnol*** (2026). **(IF:35.1)**
- S. Shao, L. Qiu, H. Cai, et al. " Rational Design of a Multifunctional Copper-Cobalt Sulfide Nanozyme for Cholesterol Depletion and Thermo-Resistant Tumor Ablation." ***Advanced Functional Materials*** (2026): e28729. **(IF:19.4)**
- S. Shao, H. Zhuang, T. Bai, X. Zeng, A. H. All, and S. Yan, " Bacterial Biohybrids With Dual Magnet and Hypoxia Tropism for Ferroptosis Activation in Deep Tumor Regions." ***Exploration*** (2026): 20240287. **(IF:30.4)**
- Qin, X., Zheng, B., Liu, D. *et al.* A 'two-in-one' tumor-specific-hydrogel-assisted strategy for intravesical chemotherapy and protection of normal tissues. ***J Nanobiotechnol*** (2026). **(IF:12.6)**
- Ye, L., Zhu, J., Wang, X. *et al.* Targeting cancer stem-like cells *via* cholesterol modulation and ferroptosis induction using a multifunctional nanoplatform to overcome drug resistance. ***J Nanobiotechnol* 23**, 722 (2025). **(IF:12.6)**
- Zeng X, Tang S, Hu G, et al. Reprogramming Macrophage Function via Cholesterol Modulation and Redox Signaling Using a Multifunctional Nanoplatform for Postoperative Breast Cancer Management. ***ACS Nano***. 2025;19(36):32444-32459. **(IF:16.1)**
- Liu S, Shao S, Huang Z, et al. A multifunctional manganese-based nanozyme platform for synergistic hypoxia alleviation and cholesterol depletion to potentiate STING-mediated cancer immunotherapy. ***Biomaterials***. Published online October 1, 2025. **(IF:14)**
- Xie J, Cao K, Liu L, et al. Mn3O4 nanozyme-based anti-inflammatory therapy modulates microglial phenotype by downregulating TLR4/NOX2 expression and further alleviates Alzheimer's disease pathology. ***Theranostics***. 2025;15(15):7467-7488. **(IF:13.3)**
- P. Xue, T. Bai, H. Zhuang, A. H. All, S. Yan, and X. Zeng, " Cholesterol Metabolism Regulated Nanoliposome Ameliorates Chemo/Photothermal Therapy Reversing CD8+ T Cell Exhaustion." ***Exploration*** (2025): 20240123. **(IF:30.4)**
- Chang, Peng et al. "A "metabolic dual-clamp" strategy for glucose metabolism blockade and

cascade-amplified tumor immunotherapy." ***Materials today. Bio*** vol. 38 103264. 19 May. 2026, doi:10.1016/j.mtbio.2026.103264 **(IF:10.2)**

Parkinsonian

- Cheng, Guowang et al. "Nasal microenvironment self-responsive herbal hydrogel alleviates Parkinsonian pathology via the inhibition of α-synuclein liquid-liquid phase separation." ***Biomaterials*****,** vol. 335 124350. 1 Jun. 2026, doi:10.1016/j.biomaterials.2026.124350 **(IF:14)**

Alzheimer

- Xie J, Cao K, Liu L, et al. Mn3O4 nanozyme-based anti-inflammatory therapy modulates microglial phenotype by downregulating TLR4/NOX2 expression and further alleviates Alzheimer's disease pathology. ***Theranostics***. 2025;15(15):7467-7488. **(IF:13.3)**

Antiviral Therapies

- Ruan, Bankang et al. "Renal Clearable Luminogenic Reporter for Ultrasensitive Influenza Virus Imaging and Efficient Antiviral Therapies Monitoring in Living Mice." ***Advanced science*** , e76669. 17 Jul. 2026, doi:10.1002/advs.76669 **(IF:14.1)**