化学教室
(Department of Chemistry)

教育研究原著論文

1) 印刷公表

1. Matsuda Y*, Mori S*, Tsuda S, Nishiyama Y*. Rhenium-catalyzed reaction of α-alkyl substituted β-dicarbonyl compounds with organosilicon compounds. *Tetrahedron Lett* 2025;**154**:doi: 10.1016/j.tetlet.2024.155390.

2. Zhang R, JO J, Tsuda S, Li R, Nishiura A, Honda Y, Hashimoto Y, Matsumoto N. Sustained fisetin release prevents orthodontic Ti-6Al-4V screw failure by suppressing peri-implantitis and alveolar bone resorption. *ACS Biomater Sci Eng* 2025;**11**(**3**):1472-1485.

3. Zhong M, Kanda R, Tsuda S, Hashimoto Y, Zhang R, Fujii T, Kashiwagi K. Effects of PEEK surface treatment using alumina blasting or concentrated sulfuric acid etching in combination with functional monomers on shear bond strength to adhesive cement after artificial aging. *Dent Mater J* 2025;**44**(**2**):168-178.

4. Makita Y, Nobuto K, Kajino S, Takauji M, Yamamoto W, Takigawa H, Okinaga T, Fujiwara S. Fluorescent riboflavin: effective plaque disclosing agent with minimal visible staining under natural light. *J Osaka Dent Univ* 2025;**59**(**1**):19-24.

5. Miyagishi H*2, Yamaguchi S*3, Tsuda S, Masai H*3, Terao J*3. Kinetic control of threading and dethreading in linked rotaxanes via hydrogen bonding. *Chem Asian J* 2025;**20**(**13**):doi: 10.1002/asia.202500302.

6. Takeda Y*4, Jamsransuren D*4, Makita Y, Matsuda S*4, Ogawa H*4, Oh H. Comparative evaluation of the virucidal activities of ozonated water, povidone-iodine, and ethanol against human adenovirus. *J Water Health* 2025;**23**(**7**):894-904.

7. Masai H*3, Niikura N*3, Russell G M*3, Kawano Y*3, Tsuda S, Iwai T*3, Terao J*3. Supramolecular conformational control of photolability in polymer networks crosslinked with a kinetically stable pseudo[1]rotaxane based on a coumarinylmethyl ester. *Chem Sci* 2025;**16**(**36**):16737-16743.

8. Tsuda S, Nozawa N*, Ueda R*5, Ikeda R*, Yajima T*, Fujiwara S, Kambe N*5, Nishiyama Y*. γ-Cyclodextrin-imidazolium salt-based bioinspired nanoreactor: enantioselective rhodium-catalyzed arylation of unprotected isatin with arylboronic acids. *Chem Eur J* 2025;**31**(**65**):doi: 10.1002/chem.202502481.

9. Hirai Y, Makita Y, Nakagawa M*6, Kakehashi R*6, Fujiwara S. Cytosolic protein delivery via protein-bound microparticles based on anionic boron clusters and cationic polymers. *Biomater Sci* 2025;**13**(**20**):5665-5670.

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