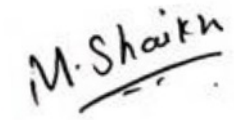


Top 10 best papers

- (1) Chen, Y.; Li, P.; Modica, J. A.; Drout, R. J.; Farha, O. K. Acid-Resistant Mesoporous Metal–Organic Framework toward Oral Insulin Delivery: Protein Encapsulation, Protection, and Release. *J. Am. Chem. Soc.* **2018**, *140* (17), 5678–5681. <https://doi.org/10.1021/jacs.8b02089>.
- (2) Duan, Y.; Ye, F.; Huang, Y.; Qin, Y.; He, C.; Zhao, S. One-Pot Synthesis of a Metal–Organic Framework-Based Drug Carrier for Intelligent Glucose-Responsive Insulin Delivery. *Chem. Commun.* **2018**, *54* (42), 5377–5380. <https://doi.org/10.1039/C8CC02708K>.
- (3) Zhang, C.; Hong, S.; Liu, M.-D.; Yu, W.-Y.; Zhang, M.-K.; Zhang, L.; Zeng, X.; Zhang, X.-Z. PH-Sensitive MOF Integrated with Glucose Oxidase for Glucose-Responsive Insulin Delivery. *Journal of Controlled Release* **2020**, *320*, 159–167. <https://doi.org/10.1016/j.jconrel.2020.01.038>.
- (4) Yang, X.-X.; Feng, P.; Cao, J.; Liu, W.; Tang, Y. Composition-Engineered Metal–Organic Framework-Based Microneedles for Glucose-Mediated Transdermal Insulin Delivery. *ACS Appl. Mater. Interfaces* **2020**, *12* (12), 13613–13621. <https://doi.org/10.1021/acsami.9b20774>.
- (5) Zhou, Y.; Liu, L.; Cao, Y.; Yu, S.; He, C.; Chen, X. A Nanocomposite Vehicle Based on Metal–Organic Framework Nanoparticle Incorporated Biodegradable Microspheres for Enhanced Oral Insulin Delivery. *ACS Appl. Mater. Interfaces* **2020**, *12* (20), 22581–22592. <https://doi.org/10.1021/acsami.0c04303>.
- (6) Benyettou, F.; Kaddour, N.; Prakasam, T.; Das, G.; Sharma, S. K.; Thomas, S. A.; Bekhti-Sari, F.; Whelan, J.; Alkhalifah, M. A.; Khair, M.; Traboulsi, H.; Pasricha, R.; Jagannathan, R.; Mokhtari-Soulimane, N.; Gándara, F.; Trabolsi, A. In Vivo Oral Insulin Delivery via Covalent Organic Frameworks. *Chem. Sci.* **2021**, *12* (17), 6037–6047. <https://doi.org/10.1039/D0SC05328G>.
- (7) Rohra, N.; Gaikwad, G.; Dandekar, P.; Jain, R. Microfluidic Synthesis of a Bioactive Metal–Organic Framework for Glucose-Responsive Insulin Delivery. *ACS Appl. Mater. Interfaces* **2022**, *14* (6), 8251–8265. <https://doi.org/10.1021/acsami.1c22153>.
- (8) He, M.; Yu, P.; Hu, Y.; Zhang, J.; He, M.; Nie, C.; Chu, X. Erythrocyte-Membrane-Enveloped Biomineralized Metal–Organic Framework Nanoparticles Enable Intravenous Glucose-Responsive Insulin Delivery. *ACS Appl. Mater. Interfaces* **2021**, *13* (17), 19648–19659. <https://doi.org/10.1021/acsami.1c01943>.
- (9) Liu, Y.; Ma, N.; Gao, N.; Ling, G.; Zhang, P. Metal-Organic Framework-Based Injectable in Situ Gel for Multi-Responsive Insulin Delivery. *Journal of Drug Delivery Science and Technology* **2022**, *75*, 103604. <https://doi.org/10.1016/j.jddst.2022.103604>.
- (10) Zou, J.-J.; Wei, G.; Xiong, C.; Yu, Y.; Li, S.; Hu, L.; Ma, S.; Tian, J. Efficient Oral Insulin Delivery Enabled by Transferrin-Coated Acid-Resistant Metal-Organic Framework Nanoparticles. *Science Advances* **2022**, *8* (8), eabm4677. <https://doi.org/10.1126/sciadv.abm4677>.

Approved

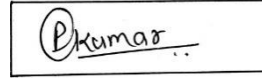
A handwritten signature in black ink, reading "M. Shaikh", with a horizontal line underneath.

Nominator: **Prof. Shaikh M. Mobin**

Designation: **Professor**

Date: 29.08.2023

Place: **Indore**

A handwritten signature in black ink, reading "P. Kumar", enclosed in a rectangular box.

Candidate: Pawan Kumar

Designation: MS-PhD Research
Scholar

Date: 30.08.2023

Place: **Indore**