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# Molecular Systems Design & Engineering

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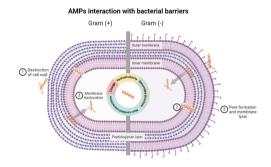
See Jiangjiexing Wu, Jinli Zhang et al., pp. 571–580. Image reproduced by permission of Jiangjiexing Wu from Mol. Syst. Des. Eng., 2024, 9, 571. Artwork created by Jiangjiexing Wu

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Costanza Montis, Elisa Marelli, Francesco Valle, Francesca Baldelli Bombelli and Claudia Pigliacelli\*

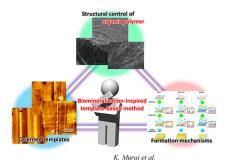


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# Formation mechanism of anisotropic gelatin hydrogel by self-assembly on oriented templates

Kohei Kawaguchi, Tamaki Maeda, Syuuhei Komatsu, Yoshihiro Nomura and Kazuki Murai\*



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## Deep eutectic solvent boosted ruthenium catalysts for acetylene hydrochlorination

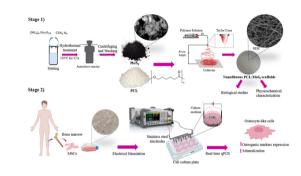
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## Enhancing osteogenic differentiation of mesenchymal stem cells seeded on a polycaprolactone/MoS<sub>2</sub> nanofibrous scaffold through electrical stimulation

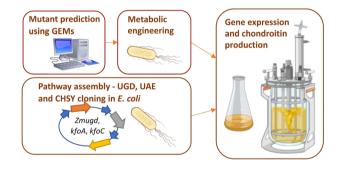
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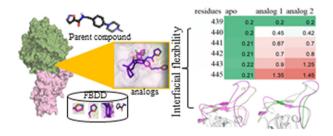
## Optimization of chondroitin production in E. coli using genome scale models

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Effect of computationally designed fragment-based analogs on the RBD-ACE2 complex of the SARS-CoV-2 P.1 variant

Surabhi Lata and Mohd. Akif\*

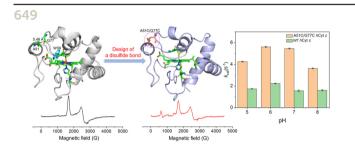


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Tuning the photophysical properties of ESIPT active unsymmetrical azine dyes by the change in the substituent and solvent: TD-PBE0 and TD-**CAM-B3LYP** studies

Hossein Roohi\* and Tahereh Pouryahya



Design and engineering of an artificial disulfide bond in human cytochrome c to regulate the protein structure and function

Yan-Yan Li, Yu Feng, Lu Yu, Shuang-Shuang Long,\* Shu-Qin Gao and Ying-Wu Lin\*





Hard carbon derived from Physalis alkekengi L. husks as a stable anode for sodium-ion batteries

Liying Liu, Henry R. Tinker, Yusheng Wu, Jiaqi Lv, Laishi Li, Yingjiao Fang, Yuhan Wu\* and Yang Xu\*