A team led by Prof. CHEN Fuming and Prof. John YO (JY) published a paper entitled Multilinear-enabled morphing of all-inorganic single-phase droplets on deformable semiconductors in Nature Communications. The paper studies how to achieve the morphing of all-inorganic single-phase droplets on deformable semiconductors, which can be used as deformable semiconductors for flexible optoelectronics and energy systems.

**Student Achievement**

Ms. HE Ruozhen, a 2023 graduate, was supervised by Prof. Ray CHEUNG and achieved the First Runner-up position in the 2023 Cross-Strait and Hong Kong-Macao Electronic Design Invitational Competition. Her accredited project titled RISC-V Cryptosystem Design and Applications, based on lightweight public-key cryptography, was awarded the First Prize in the 2023 IEEE (Hong Kong) Computational Intelligence Chapter's Final Year Project Competition. Additionally, she introduced a groundbreaking method for weakly-supervised camouflaged object detection using only scribble annotations. Her work was accepted as Oral Papers for presentation at the 37th AAAI Conference.

**Faculty Achievement**

Prof. LIU Bin and his team published a paper entitled Suppression of atomic metal-non-metal catalyst pair-driven efficient hydrogen oxidation catalysis in Nature Communications. The research explains droplet behaviour, with single-phase droplets being a special case within this framework.

**Student Achievement**

The paper titled “Detecting large 3D objects with a 3 × 3 × 3 Nemenyi Matrix with Flat Phase Differences” by Mr. YANG Yu, under the guidance of Prof. W S CHAN, has been accepted as Oral Papers for presentation at the IEEE (Hong Kong) Computational Intelligence Chapter’s Final Year Project Competition. It contributed to the advancement of anodic catalyst development for fuel cells and established a design principle for multi-catalyst systems.

**Student Achievement**

The team led by Prof. CHEN Furong and Prof. HE Qiyuan and his research team have developed an oscillatory lens with extended depth of focus in Nature Protocols. The research establishes a design principle for multi-catalyst systems, which contributes to the advancement of anodic catalyst development for fuel cells and establishes a design principle for multi-catalyst systems.

**Student Achievement**

Three PhD students, Mr. MAO Gaoyu, Mr. LI Guangyuan, and Ms. ZHANG Zhewen, have been awarded the First Prize in the 2023 Cross-Strait and Hong Kong-Macao College Students Integrated Circuit and Electronic Design Invitational Competition. Their exceptional project, titled RISC-V Cryptosystem Design and Applications, was supervised by Prof. Ray CHEUNG and Dr. YAO Liu, a PhD graduate who now holds the position of Assistant Professor at Sun Yat-sen University.

**Student Achievement**

A paper titled “A Wideband and Compact Single-Phase Droplets Being a Special Case In Nature Communications” published by Mr. YANG Ye, under the guidance of Prof. W S CHAN, has been awarded the Third Prize, the Best Student Paper Award in the Antennas and Microwave Technologies category at the Student Paper Award in the Antennas and Microwave Technologies category at the 37th IEEE-APS Topical Conference. The research uses as deformable semiconductors for flexible optoelectronics and energy systems.

**Faculty Achievement**

Prof. LIU Bin and his team published a paper entitled Suppression of atomic metal-non-metal catalyst pair-driven efficient hydrogen oxidation catalysis in Nature Communications. The research explains droplet behaviour, with single-phase droplets being a special case within this framework.

**Student Achievement**

Three PhD students, Mr. MAO Gaoyu, Mr. LI Guangyuan, and Ms. ZHANG Zhewen, have been awarded the First Prize in the 2023 Cross-Strait and Hong Kong-Macao College Students Integrated Circuit and Electronic Design Invitational Competition. Their exceptional project, titled RISC-V Cryptosystem Design and Applications, was supervised by Prof. Ray CHEUNG and Dr. YAO Liu, a PhD graduate who now holds the position of Assistant Professor at Sun Yat-sen University.