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Show-An Chen is Tsing Hua honorary chair professor, the director of the Frontier Research Center on Fundamental and Applied Sciences of Matters, and the Editor-in-Chief of Journal of Polymer Research (Springer) since 1994. Professor Chen has been teaching in the National TsingHua University since 1973 and has been working since 1982 on the new generation polymer, conjugated polymers, in the aspects of molecular design/synthesis, structure-property relationship, and device fabrication/ physics. He has established “single polymer approach” system that is to integrate various functional moieties (including electroluminescence, electron/hole transport, interfacial dipole, energy level tuning, and prevention from triplet energy back transfer) into polymer as side chains for controls of electroluminescence, photovoltaic behavior, and charge injection/transport. The purpose is to promote device efficiency. This approach is now being the most prominent method for molecular design in polymer optoelectronics.

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