

1. Record Nr.	UNINA9910597153703321
Autore	Rai Vibhuti Narayan
Titolo	Light Emission from Single Self-decoupled Molecules in a Scanning Tunnelling Microscope // Vibhuti Narayan Rai
Pubbl/distr/stampa	Karlsruhe : , : KIT Scientific Publishing, , 2022
Descrizione fisica	1 online resource (152 pages) : illustrations
Collana	Experimental Condensed Matter Physics ; ; 1
Disciplina	539.6
Soggetti	Molecules Microscopes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>In this work, a clear pathway is presented to achieve well-defined electronically decoupled chromophores from metallic leads without requiring additional insulating layers. To study such self-decoupled molecules, STM equipped with an efficient light detection setup has been used. Results show that the chromophores mounted on tripod molecular platforms adsorbed on a gold surface present well-defined and efficient electroluminescence down to the single-molecule level.</p>