



GESELLSCHAFT DEUTSCHER CHEMIKER  
ORTSVERBAND SIEGEN

## **Ankündigung**

Am Dienstag, **23. April 2019**, spricht um **16:30 Uhr**  
im Hörsaal AR-F 002, Department Chemie und Biologie

***M. Sc. Paul Indrajit***

***Universität Siegen***

***Lecture of Young Research Talent***  
***in honor of the 150th anniversary of discovery of the***  
***periodic table***

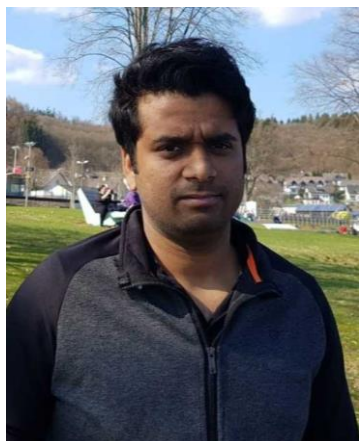
über das Thema

**„Catch–Release System for Dosing and Recycling  
Silver(I) Catalyst with Status of Catalytic Activity  
Reported by Fluorescence“**

**Kaffeerunde ab 16 Uhr im Foyer des Hörsaals AR-F 002.**

Alle interessierten Kolleginnen und Kollegen, Mitarbeiterinnen und Mitarbeiter  
und Studierende sind zu diesem Vortrag herzlich eingeladen.  
Gäste sind herzlich willkommen.

Der Ortsverbandsvorsitzende  
PD Dr. Stephan Bäurle  
Tel. 0271 740-4025



**M. Sc. Paul Indrajit**

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## **Catch–Release System for Dosing and Recycling Silver(I) Catalyst with Status of Catalytic Activity Reported by Fluorescence**

In dynamic supramolecular chemistry, molecular cybernetics is fundamentally an emerging arena. Smart interactions and communicating molecular networks achieve to progress the responsive establishment of interdependent functions and cognitive autonomous control of off-equilibrium. This talk will review the progress of interconnected molecular machinery into functions such as control of luminescence<sup>1</sup>, catalysis<sup>2</sup> and mechanically interlocked molecule having different mode of shuttling motion with impeccable reversibility. Some recent results from our lab on chemical fuel triggered autonomous multicomponent nanoswitch toggling will be presented.

Literature:

1. Paul, I.; Mittal, N.; De, S.; Bolte, M.; Schmittel, M. J. Am. Chem. Soc. 2019, 141, 5139–5143.
2. Mittal, N.; Pramanik, S.; Paul, I.; De, S.; Schmittel, M. J. Am. Chem. Soc. 2017, 139, 4270–4273.