

## Post Doctoral from Premier Institutions



Dr. Kiran Bajaj



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## *Post Doctoral from Premier Institutions*



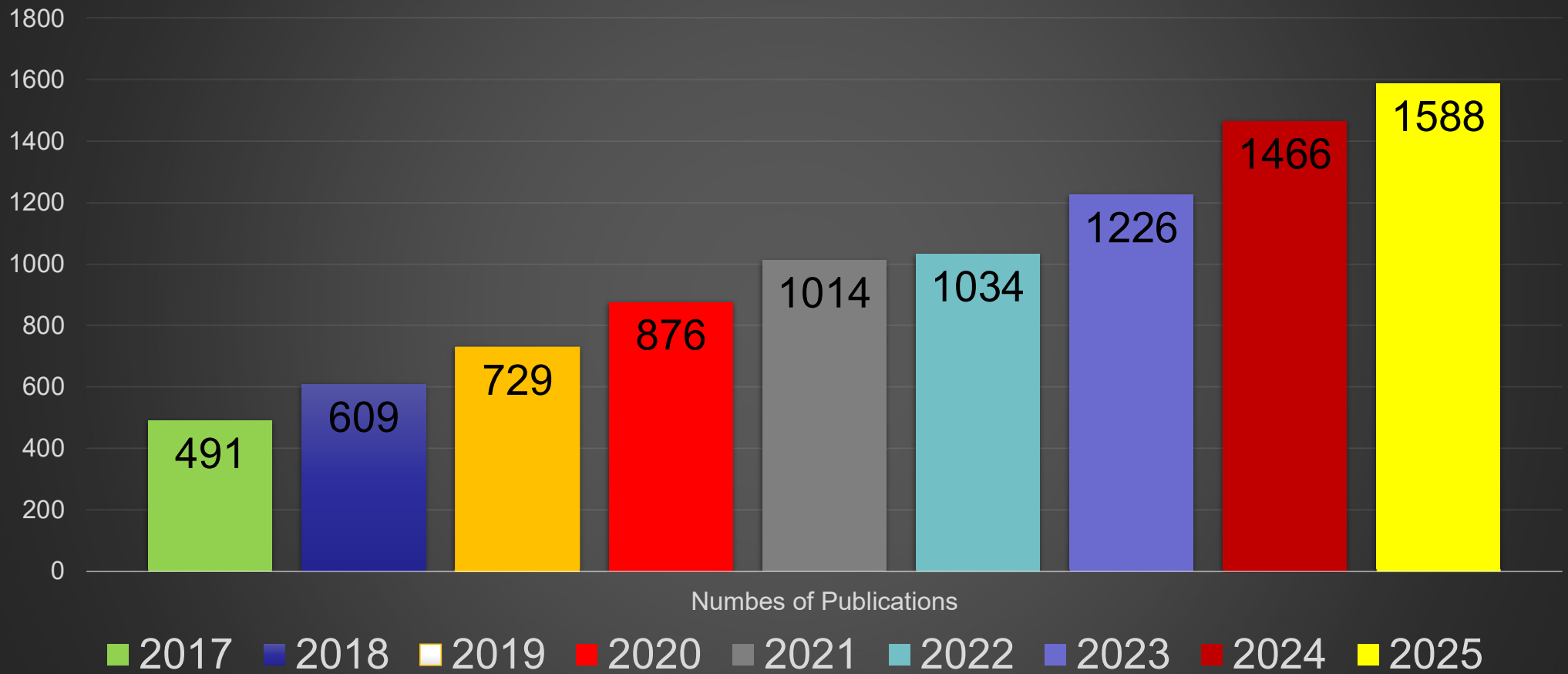
Dr. Manoj Raula



Dr. Souvik Chatterjee



## AIAS Publications



## Review

**Impact Factor: 16.620**

# Emissivity and electrooptical properties of semiconducting quantum dots/rods and liquid crystal composites: a review

Gautam Singh<sup>1</sup>, Michael Fisch<sup>2</sup> and Satyendra Kumar<sup>1</sup>
<sup>1</sup> Department of Physics, Kent State University, Kent OH 44242, USA

<sup>2</sup> College of Applied Engineering, Sustainability and Technology, Kent State University, Kent OH 44242, USA

**Angewandte**  
International Edition **Chemie**

A Journal of the  
German  
Chemical Society

## Communication

**Impact Factor: 12.20**

# Visible-Light-Driven Water Oxidation with a Polyoxometalate-Complexed Hematite Core of 275 Iron Atoms

Dr. Biswarup Chakraborty, Gal Gan-Or, Dr. Yan Duan, Prof. Manoj Raula, Prof. Ira A. Weinstock

First published: 06 March 2019 | <https://doi.org/10.1002/anie.201900492> | Citations: 15

**Impact Factor: 14.695**

# Reversible Isothermal Twist–Bend Nematic–Nematic Phase Transition Driven by the Photoisomerization of an Azobenzene-Based Nonsymmetric Liquid Crystal Dimer

Daniel A. Paterson,<sup>†,‡</sup> Jie Xiang,<sup>‡</sup> Gautam Singh,<sup>§</sup> Rebecca Walker,<sup>†</sup> Deña M. Agra-Kooijman,<sup>§</sup> Alfonso Martínez-Felipe,<sup>#</sup> Min Gao,<sup>‡</sup> John M. D. Storey,<sup>†</sup> Satyendra Kumar,<sup>§</sup> Oleg D. Lavrentovich,<sup>‡</sup> and Corrie T. Imrie<sup>\*,†</sup>
<sup>†</sup>Department of Chemistry, School of Natural and Computing Sciences, University of Aberdeen, Meston Building, Old Aberdeen AB24 3UE, United Kingdom

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**nature**  
**communications**
**Impact Factor: 18.8**

# Design of an inherently-stable water oxidation catalyst

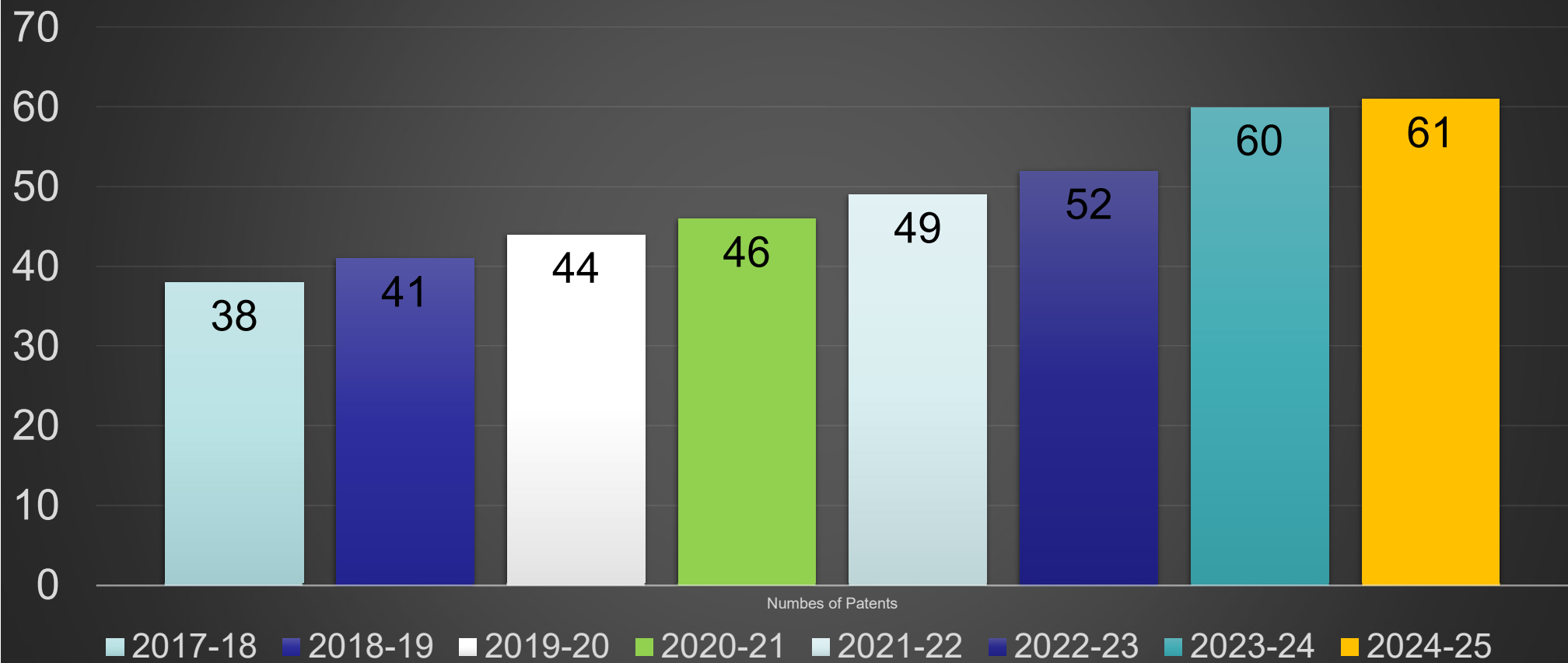
Biswarup Chakraborty, Gal Gan-Or, **Manoj Raula**, Eyal Gadot & Ira A. Weinstock

Nature Communications **9**, Article number: 4896 (2018) | [Cite this article](#)

## RESEARCH AREAS

| CHEMISTRY            | PHYSICS                 | MATHEMATICS           | STATISTICS                   |
|----------------------|-------------------------|-----------------------|------------------------------|
| Polymers             | Solid State Physics     | Topology              | Reliability                  |
| Nanoparticles        | Plasma Physics          | Cryptography          | Operation Theory             |
| Organic Coatings     | Nuclear Physics         | Special Functions     | Modeling & Simulation,       |
| Natural Products     | Astrophysics            | Optimization          | Applied Time Series Analysis |
| Analytical Chemistry | Nano materials          | Operation Theory      | Data Mining                  |
| Hydrogels            | Piezoelectric Materials | Differential Equation | Mathematical demography/     |
| Sensors              | Lasers & Spectroscopy   | Mathematics Education | Biostatistics                |

## AIAS Patents



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