

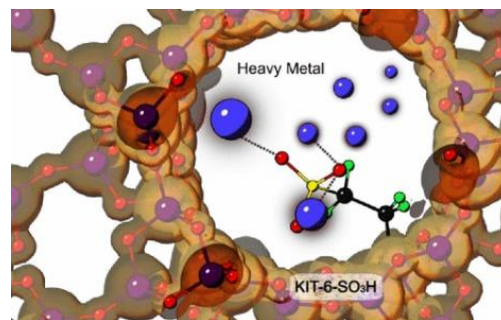
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1. NL Torad, AA El-Nasr, **E Doustkhah**, et al.,

Title: Chemically Surface-Engineered Mesoporous Silica for the Toxic Metal Ions Uptake: Insights from Experiment and Density Functional Calculations,

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DOI: <https://doi.org/10.1021/acs.langmuir.4c03562>

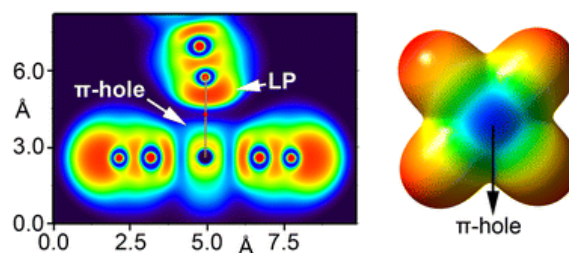


2. A Giordana, E Priola, G Mahmoudi, **E Doustkhah**, et al.,

Title: Exploring coinage bonding interactions in $[\text{Au}(\text{CN})_4]^-$ assemblies with silver and zinc complexes: a structural and theoretical study

In: *Physical Chemistry Chemical Physics*, 2025, **27**, 5395–5402.

DOI: [10.1039/D4CP04818K](https://doi.org/10.1039/D4CP04818K)

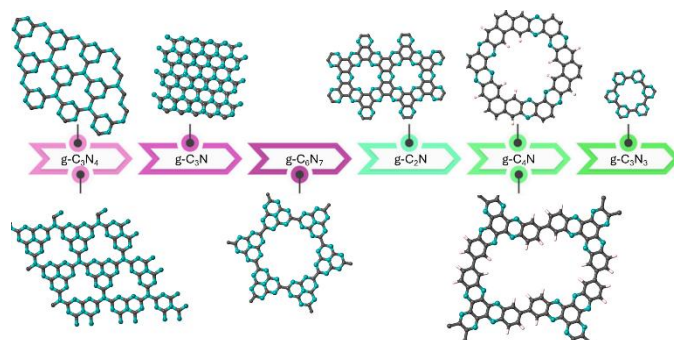


3. **E Doustkhah**,

The effects of bandgap and porosity on catalysis and materials characteristics of layered carbon nitrides,

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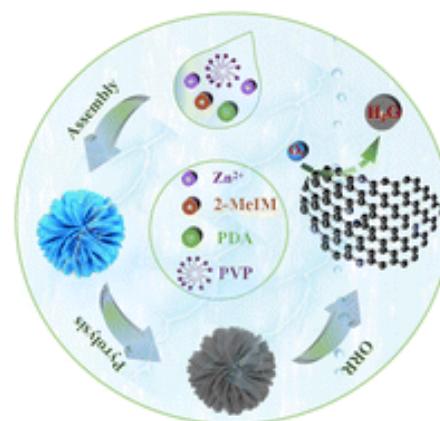


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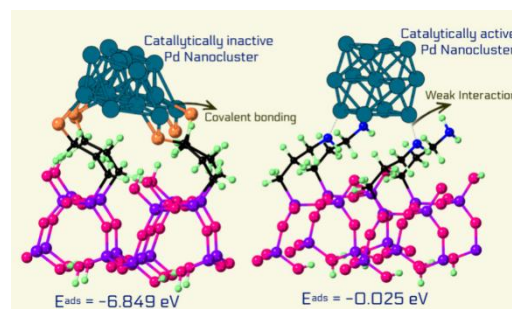
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5. **E Doustkhah,*** M Yusufoglu, H El-Hosainy, H Zarenezhad, Y Ide, José Julio Gutiérrez Moreno, M Hussein N Assadi,

Title: Catalytic Synergy between Pd Nanoclusters and Ligand-Functionalized Layered Silicates for Improved Formic Acid Dehydrogenation

In: ACS Applied Materials & Interfaces, 2024, ASAP.

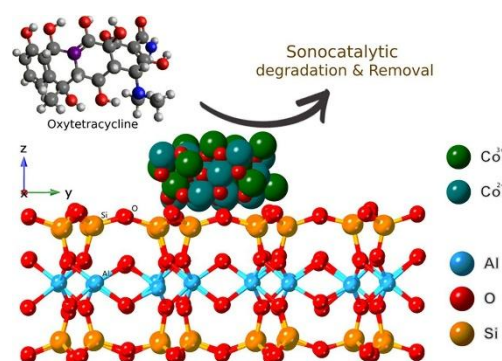
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Title: Laterally oriented spinel Co_3O_4 on layered aluminosilicate for sonocatalytic wastewater treatment,

In: Chemical Engineering Journal, 2024, 157065.

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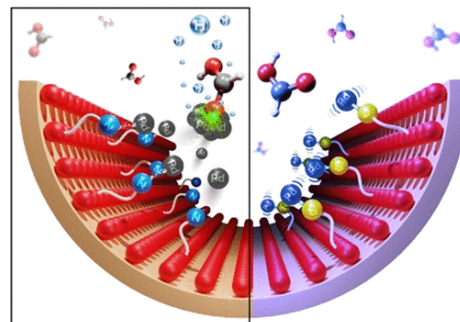


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Title: Feeble Single-Atom Pd Catalysts for H_2 Production from Formic Acid

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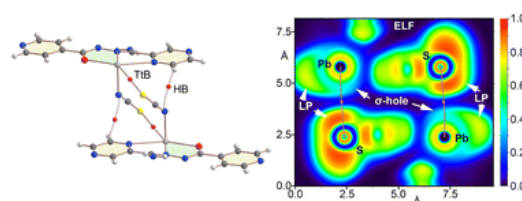
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Title: Structural diversity and tetrel bonding significance in lead (ii) complexes with pyrazoylisonicotinoylhydrazone and varied anionic co-ligands

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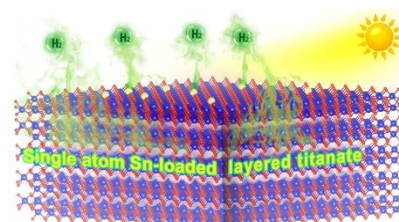


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9. T Ustunel, Y Ide, S Kaya, **Esmail Doustkhah***,

Title: Single-atom Sn-loaded exfoliated layered titanate revealing enhanced photocatalytic activity in hydrogen generation,

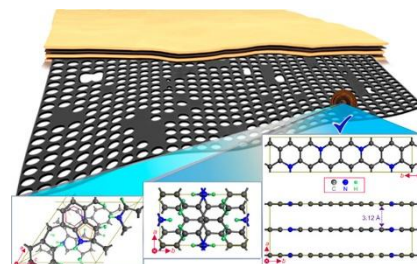
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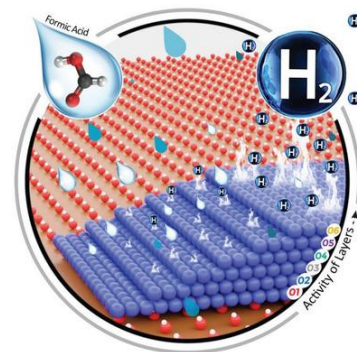
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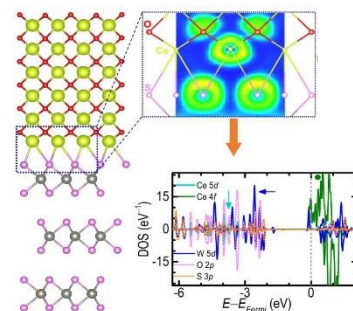


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Title: Ultrasonically-assisted synthesis of CeO₂ within WS₂ interlayers forming type II heterojunction for a VOC photocatalytic oxidation,

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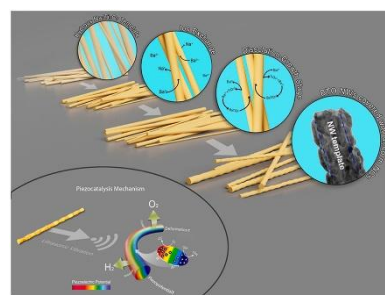


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Title: Composition-driven morphological evolution of BaTiO₃ nanowires for efficient piezocatalytic hydrogen production,

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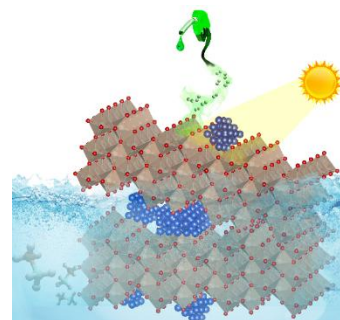


14. Mohamed Esmat, **Esmail Doustkhah**, ... Yusuke Ide, Naoki Fukata

Title: Structural Conversion of Cu-Titanate into Photoactive Plasmonic Cu-TiO₂ for H₂ Generation in Visible Light.

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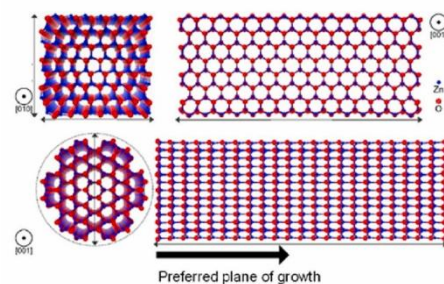


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Title: MOF-derived nanocrystalline ZnO with controlled orientation and photocatalytic activity,

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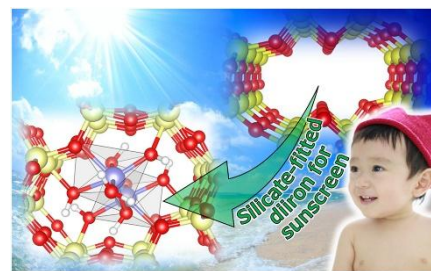


17. H El-Hosainy, S Mine, T Toyao, K Shimizu, N Tsunoji, M Esmat, ...Esmail Doustkhah, M El-Kemary, Yusuke Ide

Title: Layered silicate stabilises diiron to mimic UV-shielding TiO₂ nanoparticle

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Title: Nanoarchitecturing bimetallic manganese cobaltite spinels for sonocatalytic degradation of oxytetracycline

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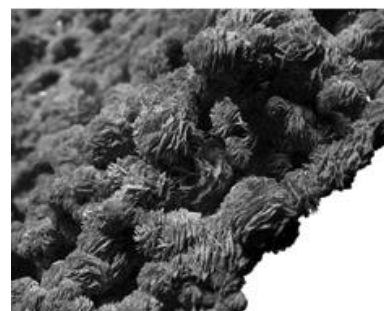
19. SS Mofarah, L Schreck, C Cazorla, X Zheng, E Adabifiroozjaei, C Tsounis,

Esmail Doustkhah, Pramod Koshy, Charles C Sorrell

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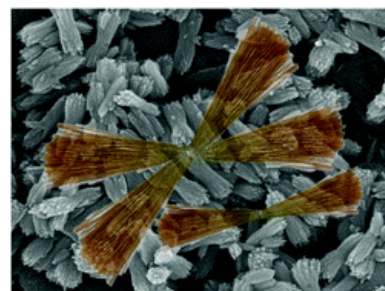
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Arivanandhan, R Jayavel, Yusuke Ide

Title: A rutile TiO_2 nanobundle as a precursor of an efficient visible-light photocatalyst embedded with Fe_2O_3

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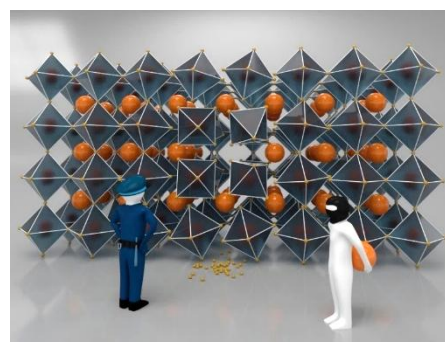
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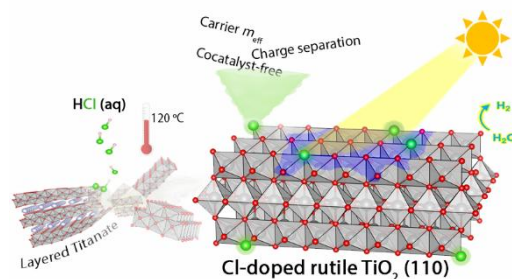
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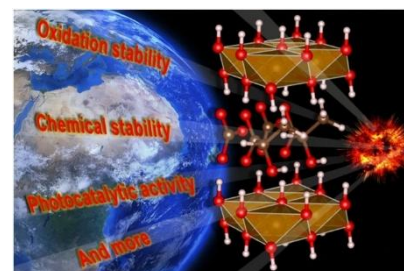
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