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V. Botu, R. Batra, J. Chapman, R. Ramprasad

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DOI: 10.1021/acs.jpcc.6b10908

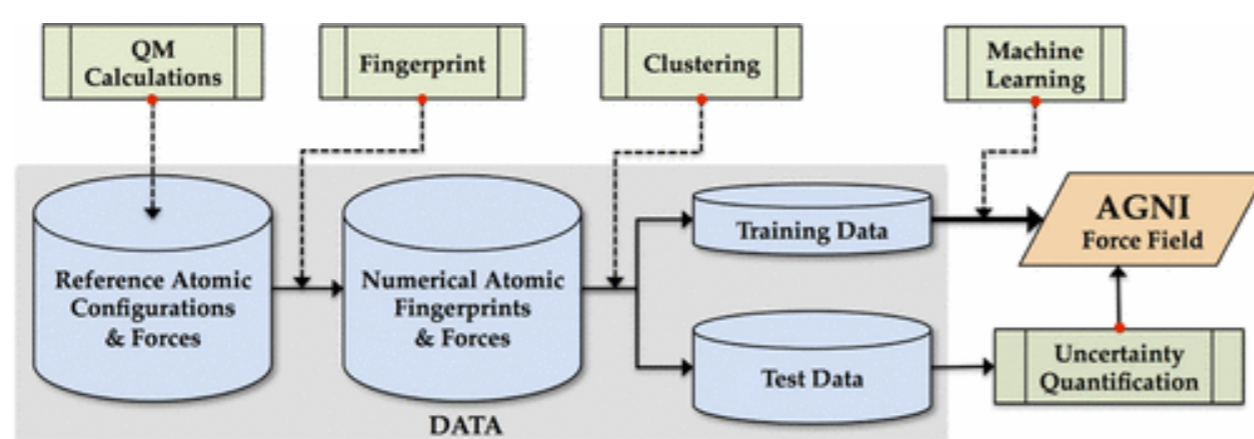


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 Computational 2D Materials Database: Electronic Structure of Transition-Metal Dichalcogenides and Oxides

Filip A. Rasmussen, Kristian S. Thygesen

Publication Date (Web): April 30, 2015 (Article)

DOI: 10.1021/acs.jpcc.5b02950

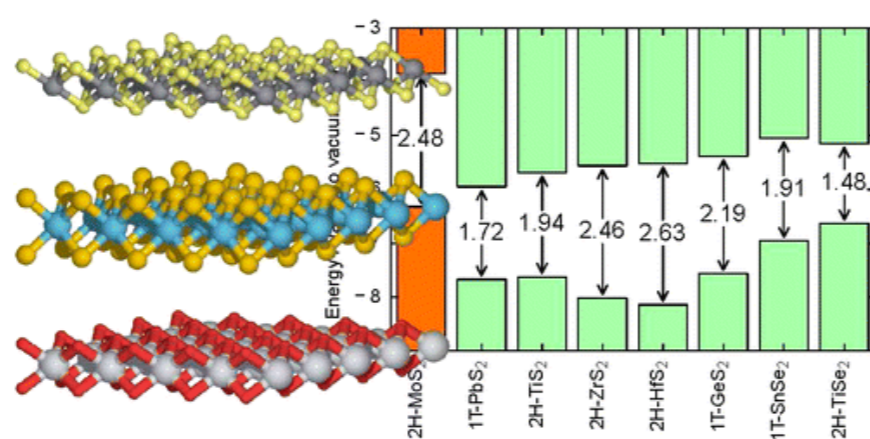


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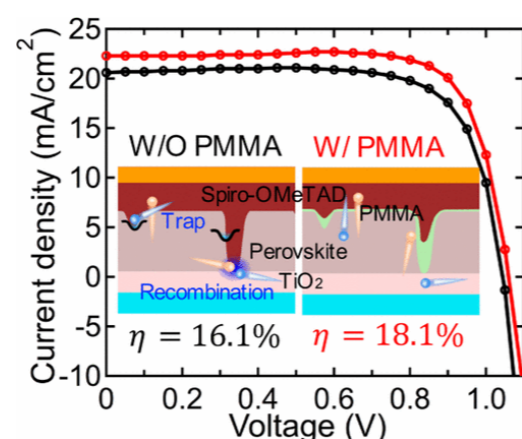
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 Highly Efficient and Stable Perovskite Solar Cells by Interfacial Engineering Using Solution-Processed Polymer Layer

Feijiu Wang, Ai Shimazaki, Fengjiu Yang, Kaito Kanahashi, Keiichiro Matsuki, Yuhei Miyauchi, Taishi Takenobu, Atsushi Wakamiya, Yasujiro Murata, Kazunari Matsuda

Publication Date (Web): January 10, 2017 (Article)

DOI: 10.1021/acs.jpcc.6b12137



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**van der Waals Volumes and Radii**

A. Bondi

Publication Date: March 1964 (Article)

DOI: 10.1021/j100785a001

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 **Stable, Single-Layer MX<sub>2</sub> Transition-Metal Oxides and Dichalcogenides in a Honeycomb-Like Structure**

C. Ataca, H. Şahin, and S. Ciraci

Publication Date (Web): March 23, 2012 (Article)

DOI: 10.1021/jp212558p

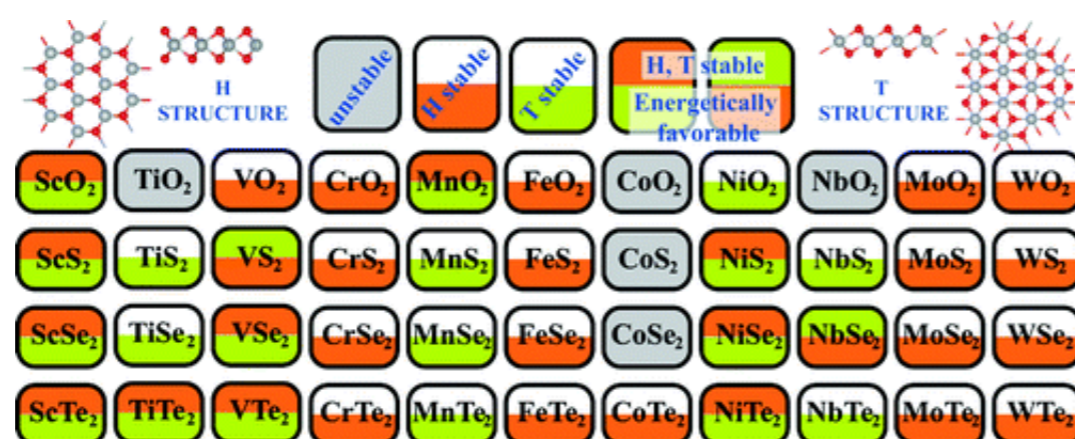


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 **Recent Progress in Cancer Thermal Therapy Using Gold Nanoparticles**

Nardine S. Abadeer, Catherine J. Murphy

Publication Date (Web): February 9, 2016 (Review Article)

DOI: 10.1021/acs.jpcc.5b11232

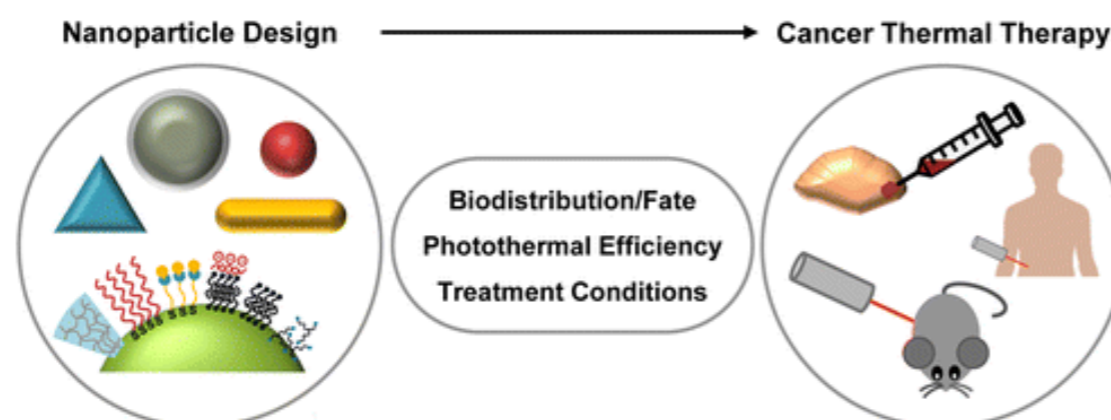


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 **Li/Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub>/LiFePO<sub>4</sub> All-Solid-State Battery with Ultrathin Nanoscale Solid Electrolyte**

Xufeng Yan, Zhuobin Li, Zhaoyin Wen, Weiqiang Han

Publication Date (Web): January 2, 2017 (Article)

DOI: 10.1021/acs.jpcc.6b10268

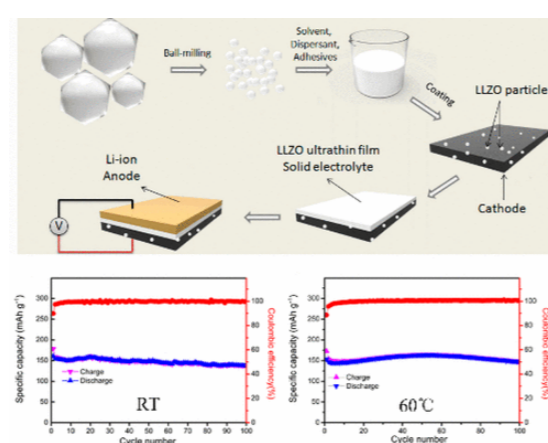


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 **Multiexciton Lifetime in All-Inorganic CsPbBr<sub>3</sub> Perovskite Nanocrystals**

Elinore M. L. D. de Jong, Genki Yamashita, Leyre Gomez, Masaaki Ashida, Yasufumi Fujiwara, and Tom Gregorkiewicz

Publication Date (Web): December 26, 2016 (Article)

DOI: 10.1021/acs.jpcc.6b10551

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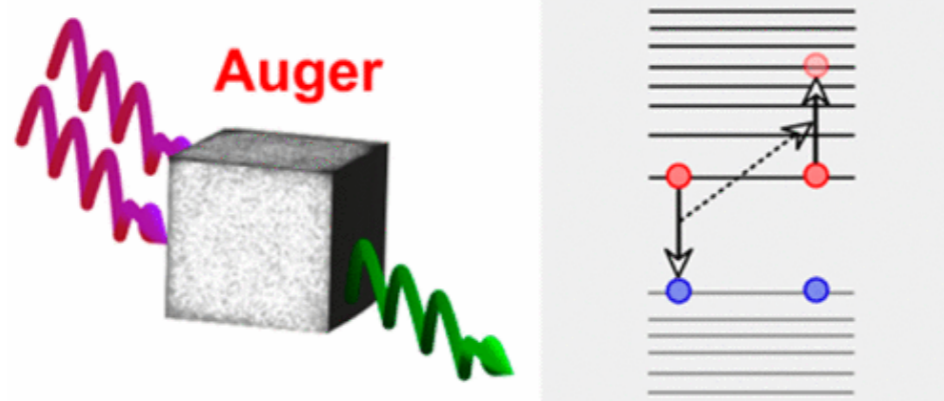


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 **Effect of Si/Al Ratio and Rh Precursor Used on the Synthesis of HY Zeolite-Supported Rhodium Carbonyl Hydride Complexes**

Konstantin Khivantsev, Artem Vityuk, Hristiyan A. Aleksandrov, Georgi N. Vayssilov, Oleg S. Alexeev, and Michael D. Amiridis

Publication Date (Web): June 30, 2015 (Article)

DOI: 10.1021/acs.jpcc.5b03969



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 **Structure of Gold–Silver Nanoparticles**

Ian J. Godfrey, Andrew J. Dent, Ivan P. Parkin, Shinya Maenosono, Gopinathan Sankar

Publication Date (Web): January 4, 2017 (Article)

DOI: 10.1021/acs.jpcc.6b11186

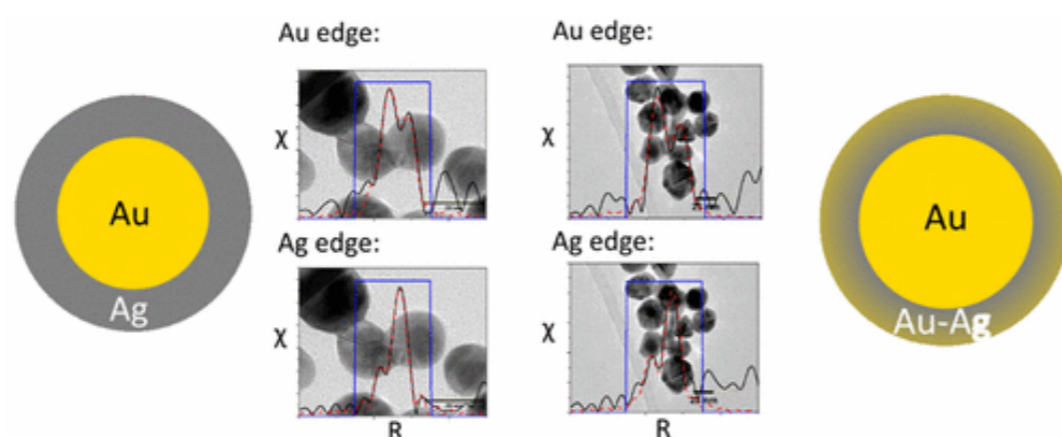


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 **Modulated III–V Triple-Junction Solar Cell Wireless Device for Efficient Water Splitting**

Shinya Okamoto, Masahiro Deguchi, Satoshi Yotsuhashi

Publication Date (Web): January 6, 2017 (Article)

DOI: 10.1021/acs.jpcc.6b07991

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 **Low Density of Conduction and Valence Band States Contribute to the High Open-Circuit Voltage in Perovskite Solar Cells**

Yecheng Zhou, Guankui Long

Publication Date (Web): January 4, 2017 (Article)

DOI: 10.1021/acs.jpcc.6b10914

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 **Thermally Activated Delayed Fluorescence Behavior Investigation in the Different Polarity**

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### Acceptor and Donor Molecules

Joon Beom Im, Raju Lampande, Gyeong Heon Kim, Ju Young Lee, and Jang Hyuk Kwon  
Publication Date (Web): December 14, 2016 (Article)  
DOI: 10.1021/acs.jpcc.6b10854

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### Mechanism of Oxygen Reduction in Aprotic Li–Air Batteries: The Role of Carbon Electrode Surface Structure

Alina I. Belova, David G. Kwabi, Lada V. Yashina, Yang Shao-Horn, and Daniil M. Itkis  
Publication Date (Web): January 2, 2017 (Article)  
DOI: 10.1021/acs.jpcc.6b12221

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### First-Principle Determination of Electronic Coupling and Prediction of Charge Recombination Rates in Dye-Sensitized Solar Cells

Hsien-Hsin Chou, Chou-Hsun Yang, Jiann T'suen Lin, Chao-Ping Hsu  
Publication Date (Web): December 14, 2016 (Article)  
DOI: 10.1021/acs.jpcc.6b08553

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### Photocatalytic Activity of g-C<sub>3</sub>N<sub>4</sub> Quantum Dots in Visible Light: Effect of Physicochemical Modifications

Arkamita Bandyopadhyay, Dibyajyoti Ghosh, Nisheal M. Kaley, and Swapan K. Pati  
Publication Date (Web): January 4, 2017 (Article)  
DOI: 10.1021/acs.jpcc.6b11520

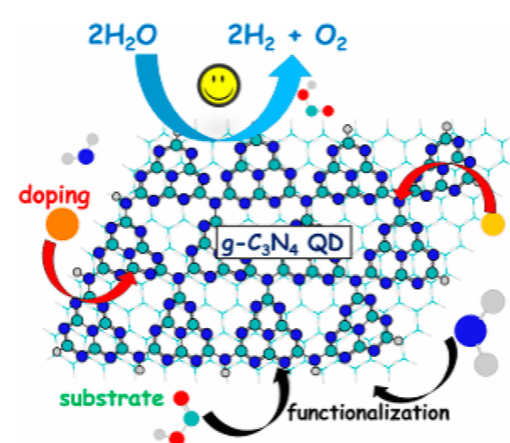


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### Observation of Charge Transfer in Heterostructures Composed of MoSe<sub>2</sub> Quantum Dots and a Monolayer of MoS<sub>2</sub> or WSe<sub>2</sub>

Shrawan Roy, Guru P. Neupane, Krishna P. Dhakal, Jubok Lee, Seok Joon Yun, Gang Hee Han, and Jeongyong Kim  
Publication Date (Web): January 3, 2017 (Article)  
DOI: 10.1021/acs.jpcc.6b11778

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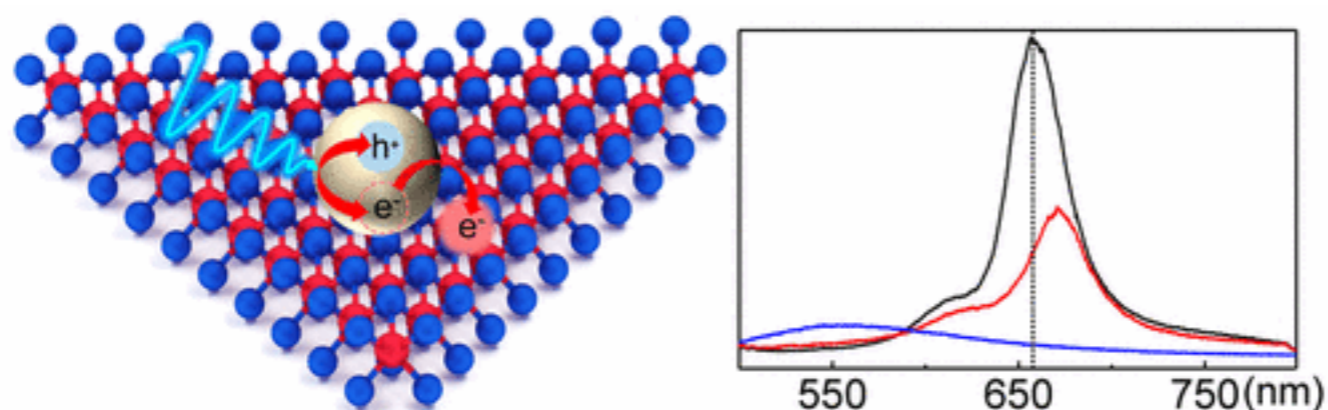


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**Rational Design of a Low-Cost, High-Performance Metal–Organic Framework for Hydrogen Storage and Carbon Capture**

Matthew Witman, Sanliang Ling, Andrzej Gladysiak, Kyriakos C. Stylianou, Berend Smit, Ben Slater, Maciej Haranczyk

Publication Date (Web): December 16, 2016 (Article)

DOI: 10.1021/acs.jpcc.6b10363



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**Structural Stabilities and Electronic Properties of High-Angle Grain Boundaries in Perovskite Cesium Lead Halides**

Yaguang Guo, Qian Wang, and Wissam A. Saidi

Publication Date (Web): January 3, 2017 (Article)

DOI: 10.1021/acs.jpcc.6b11434

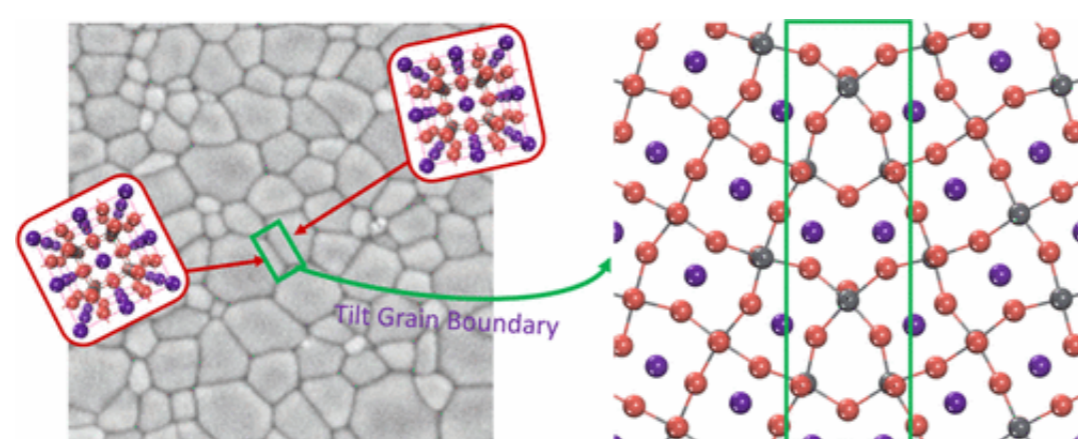


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**Large-Scale Synthesis of Graphene-Like MoSe<sub>2</sub> Nanosheets for Efficient Hydrogen Evolution Reaction**

Chu Dai, Zhaoxin Zhou, Chen Tian, Yong Li, Chao Yang, Xueyun Gao, and Xike Tian

Publication Date (Web): January 2, 2017 (Article)

DOI: 10.1021/acs.jpcc.6b11423

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