

## **Electron Microscopy Centre Research Output**

Based on the family name of the first author, all publications by EMC users are arranged in an alphabetical order by year.

### **2016**

1. M. Ahmed, D. Wexler, G. Casillas, D.G. Savvakina, E.V. Pereloma, Strain rate dependence of deformation-induced transformation and twinning in a metastable titanium alloy, *Acta Materialia* 2016, 104, 190-200.
2. I.S. Aisyah, M. Wyszomirska, A. Calka, D. Wexler, Rapid Transformation of Hexagonal to Cubic Silicon Carbide (SiC) by Electric Discharge Assisted Mechanical Milling, *Plasma Chem Plasma Process*, 2016, 36, 1177-1186. DOI: 10.1007/s11090-016-9712-7.
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4. H.A. Almukhlifi, R.C. Burns, The effects of gold nanoparticles obtained from the thermolysis of n-hexanethiolate-stabilized gold nanoparticles on isobutane oxidation over metal oxide catalysts, *Journal of Molecular Catalysis A: Chemical*, 2016, 411, 349-363.
5. H.A. Almukhlifi, R.C. Burns, The complete oxidation of isobutane over CeO<sub>2</sub> and Au/CeO<sub>2</sub>, and the composite catalysts MO<sub>x</sub>/CeO<sub>2</sub> and Au/MO<sub>x</sub>/CeO<sub>2</sub> (Mn<sup>+</sup> = Mn, Fe, Co and Ni): the effects of gold nanoparticles obtained from n-hexanethiolate-stabilized gold nanoparticles, *Journal of Molecular Catalysis A: Chemical*, 2016, 415, 131-143.
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9. K.K. Chen, K. Liao, G. Casillas, Y.Y. Li, G.A. Ozin, Cationic Silicon Nanocrystals with

Colloidal Stability, pH-Independent Positive Surface Charge and Size Tunable Photoluminescence in the Near-Infrared to Red Spectral Range, *Advanced Science*, 2016, 3, DOI: 10.1002/advs.201500263.

10. X.Q. Chen, Y. Bai, Z. Li, L.Z. Wang, S.X. Dou, Ambient Synthesis of One-/Two-Dimensional CuAgSe Ternary Nanotubes as Counter Electrodes of Quantum-Dot-Sensitized Solar Cells, *Chem Plus Chem*, 2016, 81, 414-420.

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23. Y.M. Hu, G.H. Wang, C.Z. Liu, S.L. Chou, M.Y. Zhu, H.M. Jin, W.X. Li, Y. Li, LiFePO<sub>4</sub>/C nanocomposite synthesized by a novel carbothermal reduction method and its electrochemical performance, *Ceramics International*, 2016, 42, 11422-11428.
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## 2015

1. M. Ahmed, D. Wexler, G. Casillas, O.M. Ivasishin, E.V. Pereloma, The influence of  $\beta$  phase stability on deformation mode and compressive mechanical properties of Ti-10V-3Fe-3Al alloy, *Acta Materialia*, 2015, 84, 124-135.
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