

# Subhashish Meher

## List of Publications by Year in descending order

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27  
papers

722  
citations

687363

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642732

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times ranked

761  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Microstructural and Micro-Chemical Evolutions in Irradiated UCO Fuel Kernels of AGR-1 and AGR-2 TRISO Fuel Particles. Journal of Physics: Conference Series, 2021, 2048, 012006.                                      | 0.4  | 0         |
| 2  | Ab initio study and thermodynamic modeling of the Pd-Si-C system. Computational Materials Science, 2020, 171, 109238.   | 3.0  | 3         |
| 3  | In-situ High Temperature Ion Irradiation Transmission Electron Microscopy to Understand Fission Product Transport in Silicon Carbide of TRISO Fuel. Microscopy and Microanalysis, 2020, 26, 870-871.                  | 0.4  | 0         |
| 4  | Micro- and Nano-Characterization of Neutron Irradiated TRISO Coated Particles. Microscopy and Microanalysis, 2019, 25, 1612-1613.   | 0.4  | 1         |
| 5  | Understanding of fission products transport in SiC layer of TRISO fuels by nanoscale characterization and modeling. Journal of Nuclear Materials, 2019, 527, 151793.  | 2.7  | 6         |
| 6  | A Novel Dual-Step Nucleation Pathway in Crystalline Solids under Neutron Irradiation. Scientific Reports, 2018, 8, 98.  | 3.3  | 9         |
| 7  | Three-dimensional nanoscale characterisation of materials by atom probe tomography. International Materials Reviews, 2018, 63, 68-101.  | 19.3 | 119       |
| 8  | Designing nickel base alloys for microstructural stability through low $\gamma/\gamma'$ interfacial energy and lattice misfit. Materials and Design, 2018, 140, 249-256.  | 7.0  | 44        |
| 9  | Effect of High Si Content on U <sub>3</sub> Si <sub>2</sub> Fuel Microstructure. Jom, 2018, 70, 209-213.  | 1.9  | 3         |
| 10 | Understanding of a Novel Irradiation-induced Nanostructuring Process in SiC layer of TRISO fuel particles via Transmission Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 2208-2209.                    | 0.4  | 0         |
| 11 | The origin and stability of nanostructural hierarchy in crystalline solids. Science Advances, 2018, 4, eaao6051.  | 10.3 | 17        |
| 12 | Enhancing elevated temperature strength of copper containing aluminium alloys by forming L12 Al <sub>3</sub> Zr precipitates and nucleating $\gamma'$ precipitates on them. Scientific Reports, 2017, 7, 11154.       | 3.3  | 41        |
| 13 | Determination of the gamma prime/gamma interface width in a Co-Al-W alloy via coupled aberration-corrected scanning transmission electron microscopy and atom probe tomography. Scripta Materialia, 2016, 121, 23-27. | 5.2  | 11        |
| 14 | Understanding of Inverse Coarsening of $\gamma'$ precipitates in Ni-base Superalloys. Microscopy and Microanalysis, 2016, 22, 1258-1259.  | 0.4  | 1         |
| 15 | Solute partitioning in multi-component $\gamma/\gamma'$ Co-Ni-base superalloys with near-zero lattice misfit. Scripta Materialia, 2016, 113, 185-189.   | 5.2  | 56        |
| 16 | Determination of solute site occupancies within $\gamma'$ precipitates in nickel-base superalloys via orientation-specific atom probe tomography. Ultramicroscopy, 2015, 159, 272-277.                                | 1.9  | 18        |
| 17 | Conjugated precipitation of twin-related $\gamma'$ and Ti <sub>2</sub> Cu phases in a Ti-25V-3Cu alloy. Acta Materialia, 2015, 84, 457-471.   | 7.9  | 32        |
| 18 | Probing the crystallography of ordered Phases by coupling of orientation microscopy with atom probe tomography. Ultramicroscopy, 2015, 148, 67-74.  | 1.9  | 19        |

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|----|---|-----|-----------|
| 19 | Partitioning and site occupancy of Ta and Mo in Co-base $\gamma/\gamma'$ alloys studied by atom probe tomography. <i>Intermetallics</i> , 2014, 49, 138-142.                                      | 3.9 | 72        |
| 20 | Homogeneous and heterogeneous precipitation mechanisms in a binary Mg-Nd alloy. <i>Journal of Materials Science</i> , 2014, 49, 6986-7003.  | 3.7 | 23        |
| 21 | Probing the Crystallography of Ordered Phases by coupling Orientation Microscopy and Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2014, 20, 958-959.                              | 0.4 | 1         |
| 22 | Coarsening kinetics of $\gamma'$ precipitates in cobalt-base alloys. <i>Acta Materialia</i> , 2013, 61, 4266-4276.  | 7.9 | 111       |
| 23 | Evolution of a honeycomb network of precipitates in a hot-rolled commercial Mg-Y-Nd-Zr alloy. <i>Philosophical Magazine Letters</i> , 2013, 93, 395-404.  | 1.2 | 22        |
| 24 | Influence of composition on monomodal versus multimodal $\gamma'$ precipitation in Ni-Al-Cr alloys. <i>Journal of Materials Science</i> , 2013, 48, 825-831.                                      | 3.7 | 12        |
| 25 | Coarsening behaviour of gamma prime precipitates and concurrent transitions in the interface width in Ni-14 at.% Al-7 at.% Cr. <i>Philosophical Magazine Letters</i> , 2013, 93, 521-530.         | 1.2 | 12        |
| 26 | Direct Atomic Scale Observation of the Structure and Chemistry of Order/Disorder $\gamma'/\gamma$ Interfaces in Nickel Base Superalloys. <i>Microscopy and Microanalysis</i> , 2013, 19, 944-945. | 0.4 | 0         |
| 27 | Solute partitioning and site preference in $\gamma/\gamma'$ cobalt-base alloys. <i>Scripta Materialia</i> , 2012, 67, 850-853.  | 5.2 | 89        |