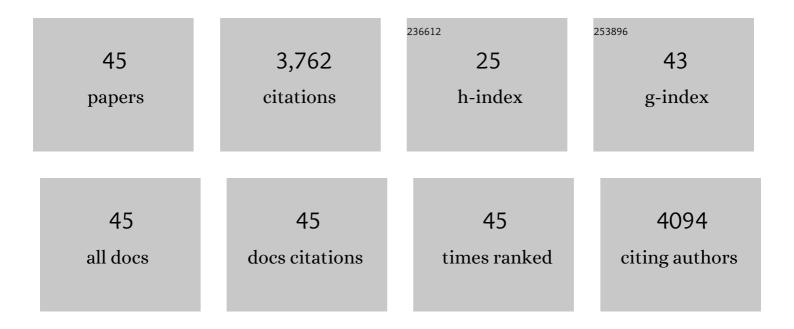
## **Frances M Ross**

List of Publications by Year in descending order

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| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Direct imaging and electronic structure modulation of moir $\tilde{A}$ © superlattices at the 2D/3D interface. Nature Communications, 2021, 12, 1290.                        | 5.8  | 48        |
| 2  | Multilayer Graphene—A Promising Electrode Material in Liquid Cell Electrochemistry. Advanced<br>Functional Materials, 2021, 31, 2104628.                                     | 7.8  | 11        |
| 3  | Real-time imaging of nanoscale electrochemical Ni etching under thermal conditions. Chemical Science, 2021, 12, 5259-5268.   | 3.7  | 10        |
| 4  | Catalytically mediated epitaxy of 3D semiconductors on van der Waals substrates. Applied Physics<br>Reviews, 2020, 7, .  | 5.5  | 15        |
| 5  | In situ TEM modification of individual silicon nanowires and their charge transport mechanisms.<br>Nanotechnology, 2020, 31, 494002.   | 1.3  | 3         |
| 6  | Impact of substrate induced band tail states on the electronic and optical properties of MoS2. Applied Physics Letters, 2019, 115, .   | 1.5  | 24        |
| 7  | Resolution and aberration correction in liquid cell transmission electron microscopy. Nature<br>Reviews Materials, 2019, 4, 61-78.   | 23.3 | 125       |
| 8  | Directed Self-Assembly of Ge Quantum Dots Using Focused Si2+ Ion Beam Patterning. Scientific Reports, 2018, 8, 9361.   | 1.6  | 4         |
| 9  | Nanoscale evolution of interface morphology during electrodeposition. Nature Communications, 2017, 8, 2174.  | 5.8  | 44        |
| 10 | Strain and Stability of Ultrathin Ge Layers in Si/Ge/Si Axial Heterojunction Nanowires. Nano Letters,<br>2015, 15, 1654-1659.  | 4.5  | 24        |
| 11 | Control of Electron Beam-Induced Au Nanocrystal Growth Kinetics through Solution Chemistry.<br>Nano Letters, 2015, 15, 5314-5320.  | 4.5  | 122       |
| 12 | Observation of materials processes in liquids by electron microscopy. MRS Bulletin, 2015, 40, 46-52.   | 1.7  | 40        |
| 13 | Creating New VLS Silicon Nanowire Contact Geometries by Controlling Catalyst Migration. Nano<br>Letters, 2015, 15, 6535-6541.  | 4.5  | 16        |
| 14 | Controlled Nucleation of Ge Islands on Si and Self-Assembly of Nanoscale Island Clusters.<br>International Journal of High Speed Electronics and Systems, 2014, 23, 1420003. | 0.3  | 0         |
| 15 | Electron–Water Interactions and Implications for Liquid Cell Electron Microscopy. Journal of Physical Chemistry C, 2014, 118, 22373-22382.                                   | 1.5  | 519       |
| 16 | Bubble and Pattern Formation in Liquid Induced by an Electron Beam. Nano Letters, 2014, 14, 359-364.   | 4.5  | 286       |
| 17 | Radiolysis during Liquid Cell Electron Microscopy. Microscopy and Microanalysis, 2014, 20, 1516-1517.  | 0.2  | 1         |
| 18 | Visualization of Active and Passive Control of Morphology during Electrodeposition. Microscopy and<br>Microanalysis, 2014, 20, 1530-1531.                                    | 0.2  | 11        |

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Corrosion of Metal Films Observed Using In Situ and Ex Situ Electron Microscopy. Microscopy and Microanalysis, 2014, 20, 1540-1541.                   | 0.2  | 1         |
| 20 | Electric Field Induced Au Nanocrystal Formation in Aqueous Solutions. Microscopy and Microanalysis, 2014, 20, 1598-1599.                              | 0.2  | 4         |
| 21 | Nanoscale chemical templating of Si nanowires seeded with Al. Nanotechnology, 2013, 24, 235301.   | 1.3  | 8         |
| 22 | Microstructural changes in silicon induced by patterning with focused ion beams of Ga, Si and Au.<br>Ultramicroscopy, 2013, 127, 126-131.             | 0.8  | 4         |
| 23 | Strategies To Control Morphology in Hybrid Group III–V/Group IV Heterostructure Nanowires. Nano<br>Letters, 2013, 13, 903-908.                        | 4.5  | 63        |
| 24 | Three-Dimensional a-Si:H Solar Cells on Glass Nanocone Arrays Patterned by Self-Assembled Sn<br>Nanospheres. ACS Nano, 2012, 6, 265-271.              | 7.3  | 60        |
| 25 | In Situ TEM Creation and Electrical Characterization of Nanowire Devices. Nano Letters, 2012, 12, 2965-2970.  | 4.5  | 34        |
| 26 | Controlling the Growth of Si/Ge Nanowires and Heterojunctions Using Silver–Gold Alloy Catalysts.<br>ACS Nano, 2012, 6, 6407-6415.                     | 7.3  | 77        |
| 27 | Electron microscopy of specimens in liquid. Nature Nanotechnology, 2011, 6, 695-704.  | 15.6 | 838       |
| 28 | Heteroepitaxial silicon film growth at 600°C from an Al–Si eutectic melt. Thin Solid Films, 2010, 518,<br>5368-5371.                                  | 0.8  | 10        |
| 29 | Measurement of Local Siâ€Nanowire Growth Kinetics Using In situ Transmission Electron Microscopy of<br>Heated Cantilevers. Small, 2010, 6, 2058-2064. | 5.2  | 27        |
| 30 | (Invited) Fabrication and Properties of Abrupt Si-Ge Heterojunction Nanowire Structures. ECS<br>Transactions, 2010, 33, 671-680.                      | 0.3  | 1         |
| 31 | Controlling nanowire structures through real time growth studies. Reports on Progress in Physics, 2010, 73, 114501.                                   | 8.1  | 178       |
| 32 | Bringing order to twin-plane defects. Nature Nanotechnology, 2009, 4, 17-18.  | 15.6 | 18        |
| 33 | Growth System, Structure, and Doping of Aluminum-Seeded Epitaxial Silicon Nanowires. Nano Letters, 2009, 9, 3296-3301.                                | 4.5  | 73        |
| 34 | Au Stabilization and Coverage of Sawtooth Facets on Si Nanowires Grown by Vaporâ^'Liquidâ^'Solid<br>Epitaxy. Nano Letters, 2008, 8, 3065-3068.        | 4.5  | 41        |
| 35 | Control of GaP and GaAs Nanowire Morphology through Particle and Substrate Chemical<br>Modification. Nano Letters, 2008, 8, 4087-4091.                | 4.5  | 35        |
| 36 | Environmental (S)TEM Studies of Gas–Liquid–Solid Interactions under Reaction Conditions. MRS<br>Bulletin, 2008, 33, 107-114.                          | 1.7  | 69        |

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | The Morphology of Axial and Branched Nanowire Heterostructures. Nano Letters, 2007, 7, 1817-1822.   | 4.5 | 175       |
| 38 | Quantifying Electrochemical Nucleation and Growth of Nanoscale Clusters Using Real-Time Kinetic<br>Data. Nano Letters, 2006, 6, 238-242.                  | 4.5 | 248       |
| 39 | Control of Si Nanowire Growth by Oxygen. Nano Letters, 2006, 6, 1292-1296.  | 4.5 | 159       |
| 40 | Growth and characterization of epitaxial Si/(LaxY1â^x)2O3/Si heterostructures. Journal of Applied Physics, 2003, 93, 251-258.                             | 1.1 | 34        |
| 41 | Dynamic Studies of Semiconductor Growth Processes Using <i>In Situ</i> Electron Microscopy. MRS Bulletin, 2001, 26, 94-101.                               | 1.7 | 4         |
| 42 | Dynamic observations of interface motion during the oxidation of silicon. Surface Science, 1994, 310, 243-266.  | 0.8 | 62        |
| 43 | Dynamic observations of interface propagation during silicon oxidation. Physical Review Letters, 1992, 68, 1782-1785.                                     | 2.9 | 124       |
| 44 | 30 nm CoSi2surface layers for contact metallization in complementary metalâ€oxideâ€semiconductor processes. Applied Physics Letters, 1992, 61, 2311-2313. | 1.5 | 2         |
| 45 | Pore morphology and the mechanism of pore formation innâ€ŧype silicon. Journal of Applied Physics, 1992, 72, 253-258.                                     | 1.1 | 110       |