

# Marcel A Verheijen

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

252  
papers

9,931  
citations

55  
h-index

92  
g-index

278  
ext. papers

11,192  
ext. citations

7.6  
avg, IF

6.1  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 252 | Continuous-Flow Sunlight-Powered CO <sub>2</sub> Methanation Catalyzed by Al <sub>2</sub> O <sub>3</sub> -Supported Plasmonic Ru Nanorods. <i>Catalysts</i> , <b>2022</b> , 12, 126   | 4    | 1         |
| 251 | Comparing the Performance of Supported Ru Nanocatalysts Prepared by Chemical Reduction of RuCl <sub>3</sub> and Thermal Decomposition of Ru <sub>3</sub> (CO) <sub>12</sub> in the Sunlight-Powered Sabatier Reaction. <i>Catalysts</i> , <b>2022</b> , 12, 284 | 4    | 0         |
| 250 | Controlling transition metal atomic ordering in two-dimensional Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> alloys. <i>2D Materials</i> , <b>2022</b> , 9, 025016   | 5.9  | 0         |
| 249 | Thickness and Morphology Dependent Electrical Properties of ALD-Synthesized MoS <sub>2</sub> FETs. <i>Advanced Electronic Materials</i> , <b>2022</b> , 8, 2100781  | 6.4  | 0         |
| 248 | Enhanced Self-Assembled Monolayer Surface Coverage by ALD NiO in p-i-n Perovskite Solar Cells.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,   | 9.5  | 9         |
| 247 | Excellent surface passivation of germanium by a-Si:H/Al <sub>2</sub> O <sub>3</sub> stacks. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 135303   | 2.5  | 4         |
| 246 | Parity-preserving and magnetic field-resilient superconductivity in InSb nanowires with Sn shells. <i>Science</i> , <b>2021</b> , 372, 508-511  | 33.3 | 13        |
| 245 | Improved Pd/CeO Catalysts for Low-Temperature NO Reduction: Activation of CeO Lattice Oxygen by Fe Doping. <i>ACS Catalysis</i> , <b>2021</b> , 11, 5614-5627   | 13.1 | 10        |
| 244 | Unveiling Planar Defects in Hexagonal Group IV Materials. <i>Nano Letters</i> , <b>2021</b> , 21, 3619-3625   | 11.5 | 3         |
| 243 | Impact of Ions on Film Conformality and Crystallinity during Plasma-Assisted Atomic Layer Deposition of TiO. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 5002-5009  | 9.6  | 5         |
| 242 | On the Contact Optimization of ALD-Based MoS FETs: Correlation of Processing Conditions and Interface Chemistry with Device Electrical Performance. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 3185-3199  | 4.1  | 2         |
| 241 | Universal Platform for Scalable Semiconductor-Superconductor Nanowire Networks. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103062  | 15.6 | 1         |
| 240 | Prismatic Ge-rich inclusions in the hexagonal SiGe shell of GaP-Si-SiGe nanowires by controlled faceting. <i>Nanoscale</i> , <b>2021</b> , 13, 9436-9445  | 7.7  |           |
| 239 | Surface passivation of germanium by atomic layer deposited Al <sub>2</sub> O <sub>3</sub> nanolayers. <i>Journal of Materials Research</i> , <b>2021</b> , 36, 571-581  | 2.5  | 8         |
| 238 | Phase separation of VO <sub>2</sub> and SiO <sub>2</sub> on SiO <sub>2</sub> -Coated float glass yields robust thermochromic coating with unrivalled optical properties. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 230, 111238              | 6.4  | 2         |
| 237 | Novel microreactor and generic model catalyst platform for the study of fast temperature pulsed operation CO oxidation rate enhancement on Pt. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 131559  | 14.7 | 2         |
| 236 | Atomic-layer-deposited Al-doped zinc oxide as a passivating conductive contacting layer for n+-doped surfaces in silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 233, 111386   | 6.4  | 10        |

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| 235 | Conformal Growth of Nanometer-Thick Transition Metal Dichalcogenide TIS -Nbs Heterostructures over 3D Substrates by Atomic Layer Deposition: Implications for Device Fabrication. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 514-521 | 5.6  | 3   |
| 234 | Probing Lattice Dynamics and Electronic Resonances in Hexagonal Ge and SiGe Alloys in Nanowires by Raman Spectroscopy. <i>ACS Nano</i> , <b>2020</b> , 14, 6845-6856   | 16.7 | 11  |
| 233 | Ballistic Phonons in Ultrathin Nanowires. <i>Nano Letters</i> , <b>2020</b> , 20, 2703-2709  | 11.5 | 17  |
| 232 | Extraction of Dzyaloshinskii-Moriya interaction from propagating spin waves. <i>Physical Review B</i> , <b>2020</b> , 101,   | 3.3  | 9   |
| 231 | Large area, patterned growth of 2D MoS and lateral MoS-WS heterostructures for nano- and opto-electronic applications. <i>Nanotechnology</i> , <b>2020</b> , 31, 255603  | 3.4  | 28  |
| 230 | Atomic layer deposition of Nb-doped TiO <sub>2</sub> : Dopant incorporation and effect of annealing. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 022408                                  | 2.9  | 5   |
| 229 | Kinetic Control of Morphology and Composition in Ge/GeSn Core/Shell Nanowires. <i>ACS Nano</i> , <b>2020</b> , 14, 2445-2455   | 16.7 | 12  |
| 228 | Editorial Expression of Concern: Quantized Majorana conductance. <i>Nature</i> , <b>2020</b> , 581, E4   | 50.4 | 6   |
| 227 | Area-Selective Atomic Layer Deposition of Two-Dimensional WS Nanolayers <b>2020</b> , 2, 511-518   |      | 24  |
| 226 | Direct-bandgap emission from hexagonal Ge and SiGe alloys. <i>Nature</i> , <b>2020</b> , 580, 205-209  | 50.4 | 124 |
| 225 | In-plane selective area InSb/Al nanowire quantum networks. <i>Communications Physics</i> , <b>2020</b> , 3,  | 5.4  | 18  |
| 224 | Full characterization and modeling of graded interfaces in a high lattice-mismatch axial nanowire heterostructure. <i>Physical Review Materials</i> , <b>2020</b> , 4,   | 3.2  | 2   |
| 223 | Precise ion energy control with tailored waveform biasing for atomic scale processing. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 213301   | 2.5  | 5   |
| 222 | Probing the Origin and Suppression of Vertically Oriented Nanostructures of 2D WS Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 3873-3885  | 9.5  | 14  |
| 221 | Hard Superconducting Gap and Diffusion-Induced Superconductors in Ge-Si Nanowires. <i>Nano Letters</i> , <b>2020</b> , 20, 122-130   | 11.5 | 10  |
| 220 | Atomic layer deposition of ruthenium using an ABC-type process: Role of oxygen exposure during nucleation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 062402                            | 2.9  | 6   |
| 219 | Collective photothermal effect of Al <sub>2</sub> O <sub>3</sub> -supported spheroidal plasmonic Ru nanoparticle catalysts in the sunlight-powered Sabatier reaction. <i>ChemCatChem</i> , <b>2020</b> , 12, 5618-5622                         | 5.2  | 10  |
| 218 | Area-Selective Atomic Layer Deposition of TiN Using Aromatic Inhibitor Molecules for Metal/Dielectric Selectivity. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 7788-7795   | 9.6  | 21  |

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|-----|---|------|-----|
| 217 | Synthesis of edge-enriched WS <sub>2</sub> on high surface area WS <sub>2</sub> framework by atomic layer deposition for electrocatalytic hydrogen evolution reaction. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 062201 | 2.9  | 2   |
| 216 | Atomic Layer Deposition of Al-Doped MoS <sub>2</sub> : Synthesizing a p-type 2D Semiconductor with Tunable Carrier Density. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 10200-10208  | 5.6  | 7   |
| 215 | Understanding the Film Formation Kinetics of Sequential Deposited Narrow-Bandgap PbSn Hybrid Perovskite Films. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000566   | 21.8 | 18  |
| 214 | Plasma-Assisted ALD of Highly Conductive HfNx: On the Effect of Energetic Ions on Film Microstructure. <i>Plasma Chemistry and Plasma Processing</i> , <b>2020</b> , 40, 697-712  | 3.6  | 6   |
| 213 | Strain engineering in Ge/GeSn core/shell nanowires. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 113102  | 3.4  | 14  |
| 212 | 21.6%-Efficient Monolithic Perovskite/Cu(In,Ga)Se <sub>2</sub> Tandem Solar Cells with Thin Conformal Hole Transport Layers for Integration on Rough Bottom Cell Surfaces. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 583-590   | 20.1 | 106 |
| 211 | Area-Selective Atomic Layer Deposition of ZnO by Area Activation Using Electron Beam-Induced Deposition. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 1250-1257  | 9.6  | 43  |
| 210 | Area-Selective Deposition of Ruthenium by Combining Atomic Layer Deposition and Selective Etching. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3878-3882  | 9.6  | 46  |
| 209 | Phonon Engineering in Twinning Superlattice Nanowires. <i>Nano Letters</i> , <b>2019</b> , 19, 4702-4711  | 11.5 | 19  |
| 208 | Edge-Site Nanoengineering of WS <sub>2</sub> by Low-Temperature Plasma-Enhanced Atomic Layer Deposition for Electrocatalytic Hydrogen Evolution. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5104-5115  | 9.6  | 35  |
| 207 | Boosting the Performance of WO <sub>3</sub> /n-Si Heterostructures for Photoelectrochemical Water Splitting: from the Role of Si to Interface Engineering. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900940  | 21.8 | 28  |
| 206 | Electrochemistry of Sputtered Hematite Photoanodes: A Comparison of Metallic DC versus Reactive RF Sputtering. <i>ACS Omega</i> , <b>2019</b> , 4, 9262-9270  | 3.9  | 4   |
| 205 | High Mobility Stemless InSb Nanowires. <i>Nano Letters</i> , <b>2019</b> , 19, 3575-3582  | 11.5 | 18  |
| 204 | Sunlight-Fueled, Low-Temperature Ru-Catalyzed Conversion of CO and H <sub>2</sub> to CH <sub>4</sub> with a High Photon-to-Methane Efficiency. <i>ACS Omega</i> , <b>2019</b> , 4, 7369-7377  | 3.9  | 18  |
| 203 | Hexagonal silicon grown from higher order silanes. <i>Nanotechnology</i> , <b>2019</b> , 30, 295602   | 3.4  | 6   |
| 202 | Transition in layer structure of atomic/molecular layer deposited ZnO-zinc oxide multilayers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2019</b> , 37, 040602  | 2.9  | 9   |
| 201 | Low-Temperature Phase-Controlled Synthesis of Titanium Di- and Tri-sulfide by Atomic Layer Deposition. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9354-9362  | 9.6  | 15  |
| 200 | Selective-area chemical beam epitaxy of in-plane InAs one-dimensional channels grown on InP(001), InP(111)B, and InP(011) surfaces. <i>Physical Review Materials</i> , <b>2019</b> , 3,   | 3.2  | 26  |

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| 199 | Bottom-Up Grown 2D InSb Nanostructures. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808181   | 24   | 16  |
| 198 | Polarized Raman spectroscopy to elucidate the texture of synthesized MoS. <i>Nanoscale</i> , <b>2019</b> , 11, 22860-22870   | 7.7  | 8   |
| 197 | Plasma-assisted atomic layer deposition of nickel oxide as hole transport layer for hybrid perovskite solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 12532-12543  | 7.1  | 40  |
| 196 | Chemical Analysis of the Interface between Hybrid Organic-Inorganic Perovskite and Atomic Layer Deposited AlO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5526-5535   | 9.5  | 28  |
| 195 | Low-temperature plasma-enhanced atomic layer deposition of 2-D MoS: large area, thickness control and tuneable morphology. <i>Nanoscale</i> , <b>2018</b> , 10, 8615-8627  | 7.7  | 63  |
| 194 | Low resistivity HfNx grown by plasma-assisted ALD with external rf substrate biasing. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 3917-3926   | 7.1  | 25  |
| 193 | Dopant Distribution in Atomic Layer Deposited ZnO:Al Films Visualized by Transmission Electron Microscopy and Atom Probe Tomography. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1209-1217   | 9.6  | 18  |
| 192 | Shape and structural motifs control of MgTi bimetallic nanoparticles using hydrogen and methane as trace impurities. <i>Nanoscale</i> , <b>2018</b> , 10, 1297-1307  | 7.7  | 4   |
| 191 | Efficient Green Emission from Wurtzite Al InP Nanowires. <i>Nano Letters</i> , <b>2018</b> , 18, 3543-3549   | 11.5 | 14  |
| 190 | Surface Fluorination of ALD TiO2 Electron Transport Layer for Efficient Planar Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701456   | 4.6  | 20  |
| 189 | Bottom-up meets top-down: tailored raspberry-like FeO-Pt nanocrystal superlattices. <i>Nanoscale</i> , <b>2018</b> , 10, 5859-5863   | 7.7  | 3   |
| 188 | Quantized Majorana conductance. <i>Nature</i> , <b>2018</b> , 556, 74-79   | 50.4 | 382 |
| 187 | Tuning Material Properties of Oxides and Nitrides by Substrate Biasing during Plasma-Enhanced Atomic Layer Deposition on Planar and 3D Substrate Topographies. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 13158-13180 | 9.5  | 59  |
| 186 | Critical strain for Sn incorporation into spontaneously graded Ge/GeSn core/shell nanowires. <i>Nanoscale</i> , <b>2018</b> , 10, 7250-7256  | 7.7  | 24  |
| 185 | Flow Cell Coupled Dynamic Light Scattering for Real-Time Monitoring of Nanoparticle Size during Liquid Phase Bottom-Up Synthesis. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 108   | 2.6  | 4   |
| 184 | Low-Temperature Plasma-Assisted Atomic-Layer-Deposited SnO as an Electron Transport Layer in Planar Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 30367-30378                                    | 9.5  | 59  |
| 183 | Spin-Orbit Interaction and Induced Superconductivity in a One-Dimensional Hole Gas. <i>Nano Letters</i> , <b>2018</b> , 18, 6483-6488  | 11.5 | 14  |
| 182 | Isotropic Atomic Layer Etching of ZnO Using Acetylacetone and O Plasma. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 38588-38595  | 9.5  | 21  |

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| 181 | Qualification of an Ultrasonic Instrument for Real-Time Monitoring of Size and Concentration of Nanoparticles during Liquid Phase Bottom-Up Synthesis. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1064                 | 2.6  | 1   |
| 180 | Physical and Chemical Defects in WO <sub>3</sub> Thin Films and Their Impact on Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 5887-5895   | 6.1  | 33  |
| 179 | Atomic-layer deposited Nb <sub>2</sub> O <sub>5</sub> as transparent passivating electron contact for c-Si solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 184, 98-104                                    | 6.4  | 41  |
| 178 | Twofold origin of strain-induced bending in core-shell nanowires: the GaP/InGaP case. <i>Nanotechnology</i> , <b>2018</b> , 29, 315703   | 3.4  | 9   |
| 177 | Decoupling high surface recombination velocity and epitaxial growth for silicon passivation layers on crystalline silicon. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 065305                                      | 3    | 4   |
| 176 | Towards the implementation of atomic layer deposited In <sub>2</sub> O <sub>3</sub> :H in silicon heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 163, 43-50                               | 6.4  | 22  |
| 175 | Plasma-assisted atomic layer deposition of conformal Pt films in high aspect ratio trenches. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 052818  | 3.9  | 15  |
| 174 | Atomic layer deposition of HfO <sub>2</sub> using HfCp(NMe <sub>2</sub> ) <sub>3</sub> and O <sub>2</sub> plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2017</b> , 35, 01B130           | 2.9  | 19  |
| 173 | Uniform Atomic Layer Deposition of AlO on Graphene by Reversible Hydrogen Plasma Functionalization. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 2090-2100  | 9.6  | 42  |
| 172 | Plasma-assisted atomic layer deposition of HfNx: Tailoring the film properties by the plasma gas composition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2017</b> , 35, 01B129               | 2.9  | 8   |
| 171 | Boosting Hole Mobility in Coherently Strained [110]-Oriented Ge-Si Core-Shell Nanowires. <i>Nano Letters</i> , <b>2017</b> , 17, 2259-2264   | 11.5 | 36  |
| 170 | Atomic layer deposition for perovskite solar cells: research status, opportunities and challenges. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 30-55  | 5.8  | 114 |
| 169 | Growth and Optical Properties of Direct Band Gap Ge/GeSn Core/Shell Nanowire Arrays. <i>Nano Letters</i> , <b>2017</b> , 17, 1538-1544   | 11.5 | 59  |
| 168 | Atomic Layer Deposition of InO:H from InCp and HO/O: Microstructure and Isotope Labeling Studies. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 592-601   | 9.5  | 12  |
| 167 | Electrically conductive coatings consisting of Ag-decorated cellulose nanocrystals. <i>Cellulose</i> , <b>2017</b> , 24, 2191-2204   | 5.5  | 23  |
| 166 | Synthesis of single-walled carbon nanotubes from atomic-layer-deposited Co <sub>3</sub> O <sub>4</sub> and Co <sub>3</sub> O <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> catalyst films. <i>Carbon</i> , <b>2017</b> , 121, 389-398 | 10.4 | 12  |
| 165 | Atomic layer deposition of high-mobility hydrogen-doped zinc oxide. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 173, 111-119   | 6.4  | 34  |
| 164 | Dynamic reconfiguration of van der Waals gaps within GeTe-SbTe based superlattices. <i>Nanoscale</i> , <b>2017</b> , 9, 8774-8780  | 7.7  | 57  |

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| 163 | Microscopic studies of polycrystalline nanoparticle growth in free space. <i>Journal of Crystal Growth</i> , <b>2017</b> , 467, 137-144   | 1.6  | 2   |
| 162 | Improved structural and electrical properties in native Sb <sub>2</sub> Te <sub>3</sub> /Ge <sub>x</sub> Sb <sub>2</sub> Te <sub>3+x</sub> van der Waals superlattices due to intermixing mitigation. <i>APL Materials</i> , <b>2017</b> , 5, 026107                                    | 5.7  | 19  |
| 161 | Protecting patches in colloidal synthesis of Au semishells. <i>Chemical Communications</i> , <b>2017</b> , 53, 3898-3904  | 1.8  | 4   |
| 160 | Single-Crystalline Hexagonal Silicon-Germanium. <i>Nano Letters</i> , <b>2017</b> , 17, 85-90   | 11.5 | 45  |
| 159 | Atomic layer deposition of highly dispersed Pt nanoparticles on a high surface area electrode backbone for electrochemical promotion of catalysis. <i>Electrochemistry Communications</i> , <b>2017</b> , 84, 40-44   | 5.1  | 14  |
| 158 | (Invited) Area-Selective Atomic Layer Deposition: Role of Surface Chemistry. <i>ECS Transactions</i> , <b>2017</b> , 80, 39-48  | 1    | 9   |
| 157 | Atomic-layer deposited passivation schemes for c-Si solar cells <b>2017</b> ,   |      | 2   |
| 156 | Epitaxy of advanced nanowire quantum devices. <i>Nature</i> , <b>2017</b> , 548, 434-438  | 50.4 | 192 |
| 155 | Effective Surface Passivation of InP Nanowires by Atomic-Layer-Deposited AlO with PO Interlayer. <i>Nano Letters</i> , <b>2017</b> , 17, 6287-6294  | 11.5 | 52  |
| 154 | Crystal Phase Quantum Well Emission with Digital Control. <i>Nano Letters</i> , <b>2017</b> , 17, 6062-6068   | 11.5 | 23  |
| 153 | Surface passivation of n-type doped black silicon by atomic-layer-deposited SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> stacks. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 263106   | 3.4  | 12  |
| 152 | The Influence of Particle Size Distribution and Shell Imperfections on the Plasmon Resonance of Au and Ag Nanoshells. <i>Plasmonics</i> , <b>2017</b> , 12, 929-945   | 2.4  | 15  |
| 151 | High-efficiency humidity-stable planar perovskite solar cells based on atomic layer architecture. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 91-100  | 35.4 | 184 |
| 150 | Synthesis of Polystyrene/Polyphenylsiloxane Janus Particles through Colloidal Assembly with Unexpected High Selectivity: Mechanistic Insights and Their Application in the Design of Polystyrene Particles with Multiple Polyphenylsiloxane Patches. <i>Polymers</i> , <b>2017</b> , 9, | 4.5  | 5   |
| 149 | Synthesis and Characterization of Hybrid Particles Obtained in a One-Pot Process through Simultaneous Sol-Gel Reaction of (3-Mercaptopropyl)trimethoxysilane and Emulsion Polymerization of Styrene. <i>Colloids and Interfaces</i> , <b>2017</b> , 1, 7                                | 3    | 3   |
| 148 | The competing roles of i-ZnO in Cu(In,Ga)Se <sub>2</sub> solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 798-807  | 6.4  | 15  |
| 147 | Influence of growth conditions on the performance of InP nanowire solar cells. <i>Nanotechnology</i> , <b>2016</b> , 27, 454003   | 3.4  | 8   |
| 146 | Ordered Peierls distortion prevented at growth onset of GeTe ultra-thin films. <i>Scientific Reports</i> , <b>2016</b> , 6, 32895   | 4.9  | 15  |

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|-----|--|------|----|
| 145 | Revisiting the Local Structure in Ge-Sb-Te based Chalcogenide Superlattices. <i>Scientific Reports</i> , <b>2016</b> , 6, 22353  | 4.9  | 57 |
| 144 | Surface Infrared Spectroscopy during Low Temperature Growth of Supported Pt Nanoparticles by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 750-755                    | 3.8  | 16 |
| 143 | Functional nickel-based deposits synthesized by focused beam induced processing. <i>Nanotechnology</i> , <b>2016</b> , 27, 065303  | 3.4  | 7  |
| 142 | Atomic layer deposition of Pd and Pt nanoparticles for catalysis: on the mechanisms of nanoparticle formation. <i>Nanotechnology</i> , <b>2016</b> , 27, 034001  | 3.4  | 70 |
| 141 | Nucleation of microcrystalline silicon: on the effect of the substrate surface nature and nano-imprint topography. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 055205                      | 3    | 1  |
| 140 | Factors limiting the doping efficiency in atomic layer deposited ZnO:Al thin films: a dopant distribution study by transmission electron microscopy and atom probe tomography <b>2016</b> , 888-889          |      |    |
| 139 | Silicon heterojunction solar cell passivation in combination with nanocrystalline silicon oxide emitters. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 1932-1936 | 1.6  | 9  |
| 138 | Receptor-Targeted Luminescent Silver Bionanoparticles. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 3030-3035  | 2.3  | 4  |
| 137 | Pseudodirect to Direct Compositional Crossover in Wurtzite GaP/InGaP Core-Shell Nanowires. <i>Nano Letters</i> , <b>2016</b> , 16, 7930-7936   | 11.5 | 17 |
| 136 | Atomic-layer deposited passivation schemes for c-Si solar cells <b>2016</b> ,  |      | 2  |
| 135 | Atomic stacking and van-der-Waals bonding in GeTeBb2Te3 superlattices. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 3115-3124  | 2.5  | 45 |
| 134 | On the solid phase crystallization of In2O3:H transparent conductive oxide films prepared by atomic layer deposition. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 085314                          | 2.5  | 20 |
| 133 | Strong reduction of spectral heterogeneity in gold bipyramids for single-particle and single-molecule plasmon sensing. <i>Nanotechnology</i> , <b>2016</b> , 27, 024001                                      | 3.4  | 13 |
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| 121 | Correlative transmission electron microscopy and electrical properties study of switchable phase-change random access memory line cells. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 064504                   | 2.5  | 5   |
| 120 | Highly porous, ultra-low refractive index coatings produced through random packing of silicated cellulose nanocrystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 487, 1-8 | 5.1  | 17  |
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| 112 | Photoelectrochemical hydrogen production on InP nanowire arrays with molybdenum sulfide electrocatalysts. <i>Nano Letters</i> , <b>2014</b> , 14, 3715-9   | 11.5 | 100 |
| 111 | Atomic Layer Deposition of Highly Transparent Platinum Counter Electrodes for Metal/Polymer Flexible Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1300831                             | 21.8 | 26  |
| 110 | Rationally designed single-crystalline nanowire networks. <i>Advanced Materials</i> , <b>2014</b> , 26, 4875-9   | 24   | 55  |

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- 1 Growth-Related Formation Mechanism of I3-Type Basal Stacking Fault in Epitaxially Grown Hexagonal Ge-2H. *Advanced Materials Interfaces*, 2102340

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