# Reine L Wallenberg

List of Publications by Year
in descending order



| 197 | 14,271 | 23567 | 20961 |
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| papers | citations | 58 h-index | 115 g-index |

| 198 | 198 | 198 | 11811 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Enabling In Situ Studies of Metal-Organic Chemical Vapor Deposition in a Transmission Electron Microscope. Microscopy and Microanalysis, 2022, 28, 1484-1492. | 0.4 | 11 |
| 2 | Realization of axially defined GaInP/InP/InAsP triple-junction photovoltaic nanowires for high-performance solar cells. Materials Today Energy, 2022, 27, 101050. | 4.7 | 11 |
| 3 | Compositional analysis of oxide-embedded IIIâ€“V nanostructures. Nanotechnology, 2022, 33, 375705. | 2.6 | 0 |
| 4 | Selective oxidation of benzyl alcohols with molecular oxygen as the oxidant using Ag-Cu catalysts supported on polyoxometalates. Results in Chemistry, 2021, 3, 100150. | 2.0 | 10 |
| 5 | Compositional Correlation between the Nanoparticle and the Growing Au-Assisted In<sub>x</sub>Ga<sub>1â€“x</sub>As Nanowire. Journal of Physical Chemistry Letters, 2021, 12, 7590-7595. | 4.6 | 12 |
| 6 | Aerotaxy: gas-phase epitaxy of quasi 1D nanostructures. Nanotechnology, 2021, 32, 025605. | 2.6 | 11 |
| 7 | Adsorption of cadmium by a high-capacity adsorbent composed of silicate-titanate nanotubes embedded in hydrogel chitosan beads. Environmental Technology (United Kingdom), 2020, 41, 3043-3054. | 2.2 | 16 |
| 8 | Compressively-strained GaSb nanowires with core-shell heterostructures. Nano Research, 2020, 13, 2517-2524. | 10.4 | 13 |
| 9 | Dislocationâ€Free and Atomically Flat GaN Hexagonal Microprisms for Device Applications. Small, 2020, 16, 1907364. | 10.0 | 10 |
| 10 | Realization of Ultrahigh Quality InGaN Platelets to be Used as Relaxed Templates for Red Micro-LEDs. ACS Applied Materials & Interfaces, 2020, 12, 17845-17851. | 8.0 | 24 |
| 11 | High-Performance Vertical III-V Nanowire MOSFETs on Si With g<sub>m</sub> > 3 mS/Î¼m. IEEE Electron Device Letters, 2020, 41, 1161-1164. | 3.9 | 22 |
| 12 | In situ metal-organic chemical vapour deposition growth of IIIâ€“V semiconductor nanowires in the Lund environmental transmission electron microscope. Semiconductor Science and Technology, 2020, 35, 034004. | 2.0 | 20 |
| 13 | Electron channelling: challenges and opportunities for compositional analysis of nanowires by TEM. Nanotechnology, 2020, 31, 364005. | 2.6 | 6 |
| 14 | Directed Câ^'H Halogenation Reactions Catalysed by Pd<sup>II</sup> Supported on Polymers under Batch and Continuous Flow Conditions. Chemistry - A European Journal, 2019, 25, 13591-13597. | 3.3 | 14 |
| 15 | In situ analysis of catalyst composition during gold catalyzed GaAs nanowire growth. Nature Communications, 2019, 10, 4577. | 12.8 | 49 |
| 16 | Kinetics of Auâ€“Ga Droplet Mediated Decomposition of GaAs Nanowires. Nano Letters, 2019, 19, 3498-3504. | 9.1 | 18 |
| 17 | In situ XAS study of the local structure and oxidation state evolution of palladium in a reduced graphene oxide supported Pd(ii) carbene complex during an undirected Câ€“H acetoxylation reaction. Catalysis Science and Technology, 2019, 9, 2025-2031. | 4.1 | 20 |
| 18 | InGaN Platelets: Synthesis and Applications toward Green and Red Light-Emitting Diodes. Nano Letters, 2019, 19, 2832-2839. | 9.1 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | n-type doping and morphology of GaAs nanowires in Aerotaxy. Nanotechnology, 2018, 29, 285601. | 2.6 | 15 |
| 20 | High In-content InGaN nano-pyramids: Tuning crystal homogeneity by optimized nucleation of GaN seeds. Journal of Applied Physics, 2018, 123, . | 2.5 | 25 |
| 21 | Self-Seeded Axio-Radial InAsâ€“InAs<sub>1â€“x</sub>P<sub>x</sub> Nanowire Heterostructures beyond â€œCommonâ€•VLS Growth. Nano Letters, 2018, 18, 144-151. | 9.1 | 15 |
| 22 | Self-assembled InN quantum dots on side facets of GaN nanowires. Journal of Applied Physics, 2018, 123, . | 2.5 | 14 |
| 23 | A Pd<sup>II</sup> Carbene Complex with Anthracene Sideâ€Arms for Ï€â€Stacking on Reduced Graphene Oxide (rGO): Activity towards Undirected Câ€“H Oxygenation of Arenes. European Journal of Inorganic Chemistry, 2018, 2018, 4742-4746. | 2.0 | 17 |
| 24 | Electron Tomography Reveals the Droplet Covered Surface Structure of Nanowires Grown by Aerotaxy. Small, 2018, 14, e1801285. | 10.0 | 5 |
| 25 | Kinetic Engineering of Wurtzite and Zinc-Blende AlSb Shells on InAs Nanowires. Nano Letters, 2018, 18, 5775-5781. | 9.1 | 6 |
| 26 | Polymerâ€Supported Palladium(II) Carbene Complexes: Catalytic Activity, Recyclability, and Selectivity in Cå^'H Acetoxylation of Arenes. Chemistry - A European Journal, 2017, 23, 8457-8465. | 3.3 | 25 |
| 27 | Effect of hydrophobically modified graphene oxide on the properties of poly(3-hydroxybutyrate-co-4-hydroxybutyrate). Polymer, 2017, 108, 66-77. | 3.8 | 16 |
| 28 | Individual Defects in InAs/InGaAsSb/GaSb Nanowire Tunnel Field-Effect Transistors Operating below 60 mV/decade. Nano Letters, 2017, 17, 4373-4380. | 9.1 | 85 |
| 29 | Real-time in-situ Investigation of III-V Nanowire Growth using Custom-designed Hybrid Chemical Vapor Deposition-TEM. Microscopy and Microanalysis, 2017, 23, 1716-1717. | 0.4 | 1 |
| 30 | Vertical InAs/InGaAs Heterostructure Metalâ€“Oxideâ€“Semiconductor Field-Effect Transistors on Si. Nano Letters, 2017, 17, 6006-6010. | 9.1 | 37 |
| 31 | GaAsP Nanowires Grown by Aerotaxy. Nano Letters, 2016, 16, 5701-5707. | 9.1 | 36 |
| 32 | Measurements of structures and concentrations of carbon particle species in premixed flames by the use of in-situ wide angle X-ray scattering. Carbon, 2016, 96, 782-798. | 10.3 | 8 |
| 33 | Electron microscopy imaging of proteins on gallium phosphide semiconductor nanowires. Nanoscale, 2016, 8, 3936-3943. | 5.6 | 9 |
| 34 | Phase Transformation in Radially Merged Wurtzite GaAs Nanowires. Crystal Growth and Design, 2015, 15, 4795-4803. | 3.0 | 27 |
| 35 | Growth parameter design for homogeneous material composition in ternary Ga<sub>x</sub>In<sub>1â^'x</sub>P nanowires. Nanotechnology, 2015, 26, 435601. | 2.6 | 19 |
| 36 | Zn-doping of GaAs nanowires grown by Aerotaxy. Journal of Crystal Growth, 2015, 414, 181-186. | 1.5 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Sonogashira coupling reaction over supported gold nanoparticles: Influence of support and catalyst synthesis route. Applied Catalysis A: General, 2015, 503, 69-76. | 4.3 | 18 |
| 38 | Iron sensitizer converts light to electrons with 92% yield. Nature Chemistry, 2015, 7, 883-889. | 13.6 | 193 |
| 39 | FIB Plan and Side View Cross-Sectional TEM Sample Preparation of Nanostructures. Microscopy and Microanalysis, 2014, 20, 133-140. | 0.4 | 23 |
| 40 | In situetching for control over axial and radial III-V nanowire growth rates using HBr. Nanotechnology, 2014, 25, 505601. | 2.6 | 10 |
| 41 | Chemical solution deposition of thin films for protonic ceramic fuel cells. Solid State Ionics, 2014, 262, 852-855. | 2.7 | 7 |
| 42 | Epoxidation of olefins with molecular oxygen as the oxidant using gold catalysts supported on polyoxometalates. Green Chemistry, 2014, 16, 1586. | 9.0 | 42 |
| 43 | Straight and kinked InAs nanowire growth observed in situ by transmission electron microscopy. Nano Research, 2014, 7, 1188-1194. | 10.4 | 19 |
| 44 | Growth and characterization of wurtzite GaP nanowires with control over axial and radial growth by use of HCl in-situ etching. Journal of Crystal Growth, 2014, 386, 47-51. | 1.5 | 32 |
| 45 | InN quantum dots on GaN nanowires grown by MOVPE. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 421-424. | 0.8 | 4 |
| 46 | Semiconductor-Oxide Heterostructured Nanowires Using Postgrowth Oxidation. Nano Letters, 2013, 13, 5961-5966. | 9.1 | 8 |
| 47 | Performance of ZrO 2 -supported Nb- and W-oxide in the gas-phase dehydration of glycerol to acrolein. Journal of Catalysis, 2013, 297, 93-109. | 6.2 | 99 |
| 48 | Synthesis by spark plasma sintering of a novel protonic/electronic conductor composite: BaCe0.2Zr0.7Y0.1O3â^'Î´ /Sr0.95Ti0.9Nb0.1O3â^'Î´ (BCZY27/STN95). Journal of Materials Science, 2013, 48, 6177-6185. | 3.7 | 25 |
| 49 | Multiple exciton generation in nano-crystals revisited: Consistent calculation of the yield based on pump-probe spectroscopy. Scientific Reports, 2013, 3, 2287. | 3.3 | 34 |
| 50 | Single GaInP nanowire p-i-n junctions near the direct to indirect bandgap crossover point. Applied Physics Letters, 2012, 100, 251103. | 3.3 | 13 |
| 51 | Continuous gas-phase synthesis of nanowires with tunable properties. Nature, 2012, 492, 90-94. | 27.8 | 156 |
| 52 | Electron Trapping in InP Nanowire FETs with Stacking Faults. Nano Letters, 2012, 12, 151-155. | 9.1 | 102 |
| 53 | High-Resolution Fluorescence Diffuse Optical Tomography Developed with Nonlinear Upconverting Nanoparticles. ACS Nano, 2012, 6, 4788-4795. | 14.6 | 127 |
| 54 | LaCoO3: Promising cathode material for protonic ceramic fuel cells based on a BaCe0.2Zr0.7Y0.1O3â^'Î´ electrolyte. Journal of Power Sources, 2012, 218, 313-319. | 7.8 | 65 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | High-Frequency Performance of Self-Aligned Gate-Last Surface Channel $hbox{In}_{0.53}hbox{Ga}_{0.47}hbox{As}$ MOSFET. IEEE Electron Device Letters, 2012, 33, 369-371. | 3.9 | 58 |
| 56 | Vertical â€œIIIâ€“Vâ€•V-Shaped Nanomembranes Epitaxially Grown on a Patterned Si[001] Substrate and Their Enhanced Light Scattering. ACS Nano, 2012, 6, 10982-10991. | 14.6 | 41 |
| 57 | Formation of Bone-like Nanocrystalline Apatite Using Self-Assembled Liquid Crystals. Chemistry of Materials, 2012, 24, 892-902. | 6.7 | 26 |
| 58 | Electron Microscopy Study of Single Crystal BaZr0.9Y0.1O3-x Films Prepared by Chemical Solution Deposition. ECS Transactions, 2012, 45, 121-127. | 0.5 | 6 |
| 59 | Electron Transfer in Quantum-Dot-Sensitized ZnO Nanowires: Ultrafast Time-Resolved Absorption and Terahertz Study. Journal of the American Chemical Society, 2012, 134, 12110-12117. | 13.7 | 113 |
| 60 | Chemical mapping of DNA and counter-ion content inside phage by energy-filtered TEM. Journal of Biological Physics, 2012, 38, 229-240. | 1.5 | 6 |
| 61 | Probing the Wurtzite Conduction Band Structure Using State Filling in Highly Doped InP Nanowires. Nano Letters, 2011, 11, 2286-2290. | 9.1 | 66 |
| 62 | Electron Image Series Reconstruction of Twin Interfaces in InP Superlattice Nanowires. Microscopy and Microanalysis, 2011, 17, 752-758. | 0.4 | 4 |
| 63 | Growth of Straight InAs-on-GaAs Nanowire Heterostructures. Nano Letters, 2011, 11, 3899-3905. | 9.1 | 44 |
| 64 | Valence band splitting in wurtzite InP nanowires observed by photoluminescence and photoluminescence excitation spectroscopy. Nano Research, 2011, 4, 159-163. | 10.4 | 41 |
| 65 | Epitaxial InP nanowire growth from Cu seed particles. Journal of Crystal Growth, 2011, 315, 134-137. | 1.5 | 17 |
| 66 | Degenerate p-doping of InP nanowires for large area tunnel diodes. Applied Physics Letters, 2011, 99, . | 3.3 | 28 |
| 67 | In situ etching for total control over axial and radial nanowire growth. Nano Research, 2010, 3, 264-270. | 10.4 | 135 |
| 68 | Stability and performance of cation vacant Fe3â^'â^'V â–¡ O4 spinel phase catalysts in methanol oxidation. Journal of Catalysis, 2010, 276, 24-37. | 6.2 | 26 |
| 69 | Growth and segregation of GaAsâ€“AlxIn1â^'xP core-shell nanowires. Journal of Crystal Growth, 2010, 312, 1755-1760. | 1.5 | 39 |
| 70 | The comparison of particle oxidation and surface structure of diesel soot particles between fossil fuel and novel renewable diesel fuel. Fuel, 2010, 89, 4008-4013. | 6.4 | 35 |
| 71 | Sheet-like carbon particles with graphene structures obtained from a Bunsen flame. Carbon, 2010, 48, 4203-4206. | 10.3 | 12 |
| 72 | Control of IIIâ€“V nanowire crystal structure by growth parameter tuning. Semiconductor Science and Technology, 2010, 25, 024009. | 2.0 | 219 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Changes in Contact Angle of Seed Particle Correlated with Increased Zincblende Formation in Doped InP Nanowires. Nano Letters, 2010, 10, 4807-4812. | 9.1 | 83 |
| 74 | Electrical characterization of thin InAs films grown on patterned Wâˆ•GaAs substrates. Journal of Vacuum Science & Technology B, 2009, 27, 2222. | 1.3 | 3 |
| 75 | Formation of carbonated apatite particles from a supersaturated inorganic blood serum model. Journal of Materials Science: Materials in Medicine, 2009, 20, 1677-1687. | 3.6 | 10 |
| 76 | Generation of size-selected gold nanoparticles by spark discharge â€" for growth of epitaxial nanowires. Gold Bulletin, 2009, 42, 20-26. | 2.7 | 51 |
| 77 | Electrochemical characterization and redox behavior of Nb-doped SrTiO3. Solid State Ionics, 2009, 180, 63-70. | 2.7 | 81 |
| 78 | Niobium-Doped Strontium Titanates as SOFC Anodes. , 2009, , 203-214. | | 0 |
| 79 | Defect and electrical transport properties of Nb-doped SrTiO3. Solid State Ionics, 2008, 179, 2047-2058. | 2.7 | 153 |
| 80 | Highâ€Quality InAs/InSb Nanowire Heterostructures Grown by Metalâ€"Organic Vaporâ€Phase Epitaxy. Small, 2008, 4, 878-882. | 10.0 | 160 |
| 81 | Let's twist again. Nature Nanotechnology, 2008, 3, 457-458. | 31.5 | 3 |
| 82 | Electrical Properties of Self-Assembled Branched InAs Nanowire Junctions. Nano Letters, 2008, 8, 1100-1104. | 9.1 | 56 |
| 83 | Control of GaP and GaAs Nanowire Morphology through Particle and Substrate Chemical Modification. Nano Letters, 2008, 8, 4087-4091. | 9.1 | 35 |
| 84 | Strontium Titanate-based Composite Anodes for Solid Oxide Fuel Cells. ECS Transactions, 2008, 13, 181-194. | 0.5 | 26 |
| 85 | Directed Growth of Branched Nanowire Structures. MRS Bulletin, 2007, 32, 127-133. | 3.5 | 40 |
| 86 | Understanding the 3D structure of mathrm {GaAslangle 111angle B} nanowires. Nanotechnology, 2007, 18, 485717. | 2.6 | 41 |
| 87 | Height-controlled nanowire branches on nanotrees using a polymer mask. Nanotechnology, 2007, 18, 035601. | 2.6 | 14 |
| 88 | Strain mapping in free-standing heterostructured wurtzite InAs/InP nanowires. Nanotechnology, 2007, 18, 015504. | 2.6 | 179 |
| 89 | The Morphology of Axial and Branched Nanowire Heterostructures. Nano Letters, 2007, 7, 1817-1822. | 9.1 | 175 |
| 90 | Catalytic and structural effects of W-substitution in M2 Mo-V-Te-oxide for propene ammoxidation. Catalysis Today, 2007, 128, 153-160. | 4.4 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Synthesis of Nb-doped SrTiO3 by a modified glycine-nitrate process. Journal of the European Ceramic Society, 2007, 27, 3609-3612. | 5.7 | 33 |
| 92 | Position-Controlled Interconnected InAs Nanowire Networks. Nano Letters, 2006, 6, 2842-2847. | 9.1 | 85 |
| 93 | Structureâ^'Activity Relationship in HC-SCR of NOxby TEM, O2-Chemisorption, and EDXS Study of Ag/Al2O3. Journal of Physical Chemistry B, 2006, 110, 420-427. | 2.6 | 33 |
| 94 | InAs1-xPxNanowires for Device Engineering. Nano Letters, 2006, 6, 403-407. | 9.1 | 82 |
| 95 | Effects of Sr/Ti-ratio in SrTiO3-based SOFC anodes investigated by the use of cone-shaped electrodes. Electrochimica Acta, 2006, 52, 1651-1661. | 5.2 | 47 |
| 96 | Analysis of the State and Size of Silver on Alumina in Effective Removal of NO<SUB><I>x</I></SUB> from Oxygen Rich Exhaust Gas. Journal of Nanoscience and Nanotechnology, 2006, 6, 1076-1083. | 0.9 | 4 |
| 97 | CRYSTAL STRUCTURE OF BRANCHED EPITAXIAL IIIâ€"V NANOTREES. Nano, 2006, 01, 139-151. | 1.0 | 12 |
| 98 | XEDS-mapping for explaining release patterns from single pellets. International Journal of Pharmaceutics, 2005, 290, 109-120. | 5.2 | 14 |
| 99 | Selective catalytic oxidation of ammonia to nitrogen at low temperature on Pt/CuO/Al2O3. Journal of Catalysis, 2005, 230, 1-13. | 6.2 | 50 |
| 100 | A New Understanding of Au-Assisted Growth of III-V Semiconductor Nanowires. Advanced Functional Materials, 2005, 15, 1603-1610. | 14.9 | 139 |
| 101 | Epitaxially grown GaP/GaAs1â^'xPx/GaP double heterostructure nanowires for optical applications. Nanotechnology, 2005, 16, 936-939. | 2.6 | 68 |
| 102 | Solid-phase Diffusion Mechanism for GaAs Nanowire Growth. Microscopy and Microanalysis, 2005, 11, . | 0.4 | 0 |
| 103 | Defect-free InP nanowires grown in [001] direction on InP (001). Applied Physics Letters, 2004, 85, 2077-2079. | 3.3 | 173 |
| 104 | A Novel Hormone-sensitive Lipase Isoform Expressed in Pancreatic Î²-Cells. Journal of Biological Chemistry, 2004, 279, 3828-3836. | 3.4 | 36 |
| 105 | Probing of Individual Semiconductor Nanowhiskers by TEM-STM. Microscopy and Microanalysis, 2004, 10, 41-46. | 0.4 | 29 |
| 106 | Synthesis of branched 'nanotrees' by controlled seeding of multiple branching events. Nature Materials, 2004, 3, 380-384. | 27.5 | 592 |
| 107 | Solid-phase diffusion mechanism for GaAs nanowire growth. Nature Materials, 2004, 3, 677-681. | 27.5 | 633 |
| 108 | Electron transport in InAs nanowires and heterostructure nanowire devices. Solid State Communications, 2004, 131, 573-579. | 1.9 | 134 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Growth of one-dimensional nanostructures in MOVPE. Journal of Crystal Growth, 2004, 272, 211-220. | 1.5 | 278 |
| 110 | Semiconductor nanowires for novel one-dimensional devices. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 560-567. | 2.7 | 63 |
| 111 | Semiconductor nanowires for 0D and 1D physics and applications. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 25, 313-318. | 2.7 | 172 |
| 112 | Crystallography and porosity effects of CO conversion on mesoporous CeO2. Microporous and Mesoporous Materials, 2004, 69, 187-195. | 4.4 | 42 |
| 113 | Photoinduced Ultrafast Dynamics of Ru(dcbpy)2(NCS)2-Sensitized Nanocrystalline TiO2Films:Â The Influence of Sample Preparation and Experimental Conditions. Journal of Physical Chemistry B, 2004, 108, 6365-6373. | 2.6 | 93 |
| 114 | Epitaxial IIIâˆ’V Nanowires on Silicon. Nano Letters, 2004, 4, 1987-1990. | 9.1 | 538 |
| 115 | Few-Electron Quantum Dots in Nanowires. Nano Letters, 2004, 4, 1621-1625. | 9.1 | 274 |
| 116 | Amino-terminal anchored surface display in insect cells and budded baculovirus using the amino-terminal end of neuraminidase. Journal of Biotechnology, 2004, 114, 21-30. | 3.8 | 28 |
| 117 | Simulation of the release from a multiparticulate system validated by single pellet and dose release experiments. Journal of Controlled Release, 2004, 97, 453-465. | 9.9 | 26 |
| 118 | Effect of impurities on structural and electrochemical properties of the Niâ€“YSZ interface. Solid State Ionics, 2003, 160, 27-37. | 2.7 | 74 |
| 119 | Particle Size and Crystallinity Dependent Electron Injection in Fluorescein 27-Sensitized TiO2Films. Journal of Physical Chemistry B, 2003, 107, 1370-1375. | 2.6 | 101 |
| 120 | Single-electron transistors in heterostructure nanowires. Applied Physics Letters, 2003, 83, 2052-2054. | 3.3 | 403 |
| 121 | Nanowire resonant tunneling diodes. Applied Physics Letters, 2002, 81, 4458-4460. | 3.3 | 429 |
| 122 | Morphology and Structure of CuOx/CeO2Nanocomposite Catalysts Produced by Inert Gas Condensation:Â An HREM, EFTEM, XPS, and High-Energy Diffraction Study. Chemistry of Materials, 2002, 14, 3686-3699. | 6.7 | 80 |
| 123 | One-dimensional heterostructures in semiconductor nanowhiskers. Applied Physics Letters, 2002, 80, 1058-1060. | 3.3 | 581 |
| 124 | One-dimensional Steeplechase for Electrons Realized. Nano Letters, 2002, 2, 87-89. | 9.1 | 656 |
| 125 | Growth and characterization of GaAs and InAs nano-whiskers and InAs/GaAs heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 1126-1130. | 2.7 | 123 |
| 126 | Mesoporous thin films of high-surface-area crystalline cerium dioxide. Microporous and Mesoporous Materials, 2002, 54, 97-103. | 4.4 | 84 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Carbon Monoxide Oxidation on Nanostructured CuO/CeO Composite Particles Characterized by HREM, XPS, XAS, and High-Energy Diffraction. Journal of Catalysis, 2002, 211, 119-133. | 6.2 | 151 |
| 128 | Size dependence of Eu2+ fluorescence in ZnS:Eu2+ nanoparticles. Journal of Applied Physics, 2001, 89, 2671-2675. | 2.5 | 57 |
| 129 | Crystal field, phonon coupling and emission shift of Mn2+ in ZnS:Mn nanoparticles. Journal of Applied Physics, 2001, 89, 1120-1129. | 2.5 | 185 |
| 130 | Size-, shape-, and position-controlled GaAs nano-whiskers. Applied Physics Letters, 2001, 79, 3335-3337. | 3.3 | 249 |
| 131 | GP-zones in Alâ€“Znâ€“Mg alloys and their role in artificial aging. Acta Materialia, 2001, 49, 3443-3451. | 7.9 | 609 |
| 132 | Structural characterization of the metal/glass interface in bioactive glass coatings on Ti-6Al-4V. Journal of Materials Science: Materials in Medicine, 2001, 12, 413-417. | 3.6 | 19 |
| 133 | Characterization and optical properties of CeO 2 based nanocluster composites. Scripta Materialia, 2001, 44, 1929-1932. | 5.2 | 5 |
| 134 | Simulation of electron diffraction patterns from IIIâ€“V alloys with CuPt ordering: Effect of clusters and antiphase boundaries. Journal of Applied Physics, 2001, 89, 2653-2664. | 2.5 | 6 |
| 135 | Modulated structure of Ag2SnO3 studied by high-resolution electron microscopy. Acta Crystallographica Section B: Structural Science, 2000, 56, 363-368. | 1.8 | 14 |
| 136 | Formation and photoluminescence of Ge and Si nanoparticles encapsulated in oxide layers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 74, 242-247. | 3.5 | 36 |
| 137 | Pressure dependence of Mn2+ fluorescence in ZnS:Mn2+ nanoparticles. Journal of Luminescence, 2000, 91, 139-145. | 3.1 | 54 |
| 138 | Effect of Titanium Substitution in â‰ˆSbVO4 Used for Propane Ammoxidation. Journal of Catalysis, 2000, 194, 153-166. | 6.2 | 29 |
| 139 | Synthesis and characterization of carbon filaments grown from Pd3P colloids. Journal of Materials Research, 2000, 15, 1857-1859. | 2.6 | 3 |
| 140 | Energy structure and fluorescence ofEu2+in ZnS:Eu nanoparticles. Physical Review B, 2000, 61, 11021-11024. | 3.2 | 161 |
| 141 | Evaluation of Intermittent Contact Mode AFM Probes by HREM and Using Atomically Sharp CeO2Ridges as Tip Characterizer. Langmuir, 2000, 16, 6267-6277. | 3.5 | 34 |
| 142 | HREM study and structure modeling of the Î·â€² phase, the hardening precipitates in commercial Alâ€“Znâ€“Mg alloys. Acta Materialia, 1999, 47, 2651-2659. | 7.9 | 290 |
| 143 | Carbon nitride nanotubulite â€“ densely-packed and well-aligned tubular nanostructures. Chemical Physics Letters, 1999, 300, 695-700. | 2.6 | 137 |
| 144 | Carbon Monoxide Oxidation on Copper Oxide Thin Films Supported on Corrugated Cerium Dioxide {111} and {001} Surfaces. Journal of Catalysis, 1999, 181, 6-15. | 6.2 | 41 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Sharp microfaceting of (001)-oriented cerium dioxide thin films and the effect of annealing on surface morphology. Surface Science, 1999, 429, 22-33. | 1.9 | 68 |
| 146 | Reduction of surface sulphur upon microbial devulcanization of rubber materials. Biotechnology Letters, 1998, 20, 637-642. | 2.2 | 35 |
| 147 | Digital HREM Imaging of Yttrium Atoms in YB56with YB66Structure. Journal of Solid State Chemistry, 1998, 135, 182-193. | 2.9 | 34 |
| 148 | Structural and electrical properties of superconducting Nb/Si multilayers. Vacuum, 1998, 50, 31-33. | 3.5 | 1 |
| 149 | Strain state in semiconductor quantum dots on surfaces: a comparison of electron microscopy and finite element calculations. Surface Science, 1998, 406, 48-56. | 1.9 | 14 |
| 150 | A new silicon phosphide, Si12P5: Formation conditions, structure, and properties. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 394-401. | 2.1 | 17 |
| 151 | Strain relaxation and thermal stability of the 3C-SiC(001)/Si(001) interface: A molecular dynamics study. Thin Solid Films, 1997, 294, 47-49. | 1.8 | 5 |
| 152 | Combustion of CO and Toluene; Characterisation of Copper Oxide Supported on Titania and Activity Comparisons with Supported Cobalt, Iron, and Manganese Oxide. Journal of Catalysis, 1996, 163, 279-293. | 6.2 | 171 |
| 153 | In-situ growth of quantum dot structures by the Stranski-Krastanow growth mode. Progress in Crystal Growth and Characterization of Materials, 1996, 33, 423-471. | 4.0 | 204 |
| 154 | Compositional information from amorphous Si-Ge multilayers using high-resolution electron microscopy imaging and direct digital recording. Ultramicroscopy, 1996, 66, 221-235. | 1.9 | 5 |
| 155 | Growth and electronic properties of epitaxial TiN thin films on 3C-SiC(001) and 6H-SiC(0001) substrates by reactive magnetron sputtering. Journal of Materials Research, 1996, 11, 2458-2462. | 2.6 | 17 |
| 156 | Microdomains, Solid Solutions and the "Defect Fluorite" to C-Type Sesquioxide Transition in CeO2-RO1.5 and ZrO2-RO1.5 Systems. Journal of Solid State Chemistry, 1995, 120, 290-298. | 2.9 | 29 |
| 157 | Transmission electron microscopy of InP Stranski-Krastanow islands buried in GaInP. Physica Status Solidi A, 1995, 150, 479-487. | 1.7 | 3 |
| 158 | Improved size homogeneity of InP-on-GaInP Stranski-Krastanow islands by growth on a thin GaP interface layer. Journal of Crystal Growth, 1995, 156, 23-29. | 1.5 | 57 |
| 159 | Electron-beam mixing of multilayers. Vacuum, 1995, 46, 1063-1064. | 3.5 | 1 |
| 160 | Transmission electron microscopy investigation of the morphology of InP Stranskiâ€“Krastanow islands grown by metalorganic chemical vapor deposition. Applied Physics Letters, 1995, 67, 2981-2982. | 3.3 | 107 |
| 161 | Chapter 3.1 Surface area and porosity. Catalysis Today, 1994, 20, 11-16. | 4.4 | 17 |
| 162 | Chapter 6 Morphology and nanometric characterization of V2O5/TiO2 (Eurocat) catalysts. Catalysis Today, 1994, 20, 97-107. | 4.4 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | The influence of thermal processing on structural and electrical properties of WxSi1âˆ'x/Si multilayers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 350, 379-390. | 1.6 | 0 |
| 164 | Reactive magnetron sputter deposition of CNx films on Si(001) substrates: film growth, microstructure and mechanical properties. Thin Solid Films, 1994, 246, 103-109. | 1.8 | 144 |
| 165 | Microstructure of amorphous C:H and metal-containing C:H films deposited on steel substrates. Thin Solid Films, 1993, 232, 169-179. | 1.8 | 29 |
| 166 | Structural characterization of yttria (Y2O3) inclusions in YBa2Cu3O7âˆ'x films: Growth model and effect on critical current density. Thin Solid Films, 1993, 229, 237-248. | 1.8 | 34 |
| 167 | Zirconia-supported vanadium oxide catalysts for ammoxidation and oxidation of toluene: A characterization and activity study. Applied Catalysis A: General, 1993, 106, 51-72. | 4.3 | 55 |
| 168 | Characterization of interfaces between hydrogenated amorphous carbon films and steel substrates using high resolution cross-sectional transmission electron microscopy. Diamond and Related Materials, 1993, 2, 562-566. | 3.9 | 2 |
| 169 | A Study of Spreading of Vanadia on Titania Polymorphs using Mechanical Mixtures. Studies in Surface Science and Catalysis, 1993, 75, 1755-1758. | 1.5 | 1 |
| 170 | <title>Syracuse Research Corporation (SRC) ultrawide-bandwidth measurements radar</title>. , 1993, 1875, 33. | | 0 |
| 171 | TEM study of the early stages of the precipitation process in strip-cast Al3003 alloys. Journal of Materials Research, 1992, 7, 3235-3241. | 2.6 | 10 |
| 172 | Formation of polyhedral voids at surface cusps during growth of epitaxial TiN/NbN superlattice and alloy films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1992, 10, 1618-1624. | 2.1 | 43 |
| 173 | Î´-function-shaped Sb-doping profiles in Si(001) obtained using a low-energy accelerated-ion source during molecular-beam epitaxy. Physical Review B, 1992, 46, 7551-7558. | 3.2 | 32 |
| 174 | Yttrium oxide inclusions in YBa2Cu3Ox thin films. Physica C: Superconductivity and Its Applications, 1992, 202, 69-74. | 1.2 | 61 |
| 175 | Ion irradiation effects during growth of Mo/V(001) superlattices by dual-target magnetron sputtering. Journal of Crystal Growth, 1992, 121, 399-412. | 1.5 | 19 |
| 176 | Vanadia catalysts on anatase, rutile, and TiO2(B) for the ammoxidation of toluene: An ESR and high-resolution electron microscopy characterization. Journal of Catalysis, 1991, 132, 128-144. | 6.2 | 61 |
| 177 | A high-resolution electron microscopy investigation of TiO2(B)-supported vanadium oxide catalysts. Journal of Catalysis, 1990, 126, 246-260. | 6.2 | 22 |
| 178 | Vanadium oxide on TiO2(B) â€" a HREM study of catalysis by support interaction. Ultramicroscopy, 1990, 34, 33-40. | 1.9 | 10 |
| 179 | Growth and structural characterization of single-crystal (001) oriented Moî—¸V superlattices. Vacuum, 1990, 41, 1231-1233. | 3.5 | 30 |
| 180 | Structural characterization of precious-mean quasiperiodic Mo/V single-crystal superlattices grown by dual-target magnetron sputtering. Physical Review B, 1990, 41, 10398-10407. | 3.2 | 55 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | On the transformation mechanism of K2Ti4O9 to TiO2(B) and formation of microvoids. Microscopy Microanalysis Microstructures, 1990, 1, 357-364. | 0.4 | 10 |
| 182 | The fluorite-related â€œsolid solutionsâ€•of CeO2î—¸Y2O3 I: A re-examination by electron microscopy and diffraction. Journal of the Less Common Metals, 1989, 156, 1-16. | 0.8 | 35 |
| 183 | The fluorite-related â€œsolid solutionsâ€•of CeO2î—¸Y2O3 II: A modulated structure approach. Journal of the Less Common Metals, 1989, 156, 17-27. | 0.8 | 17 |
| 184 | Incipient Modulation in the New High-Temperature Superconductor:Tl2Ba2CaCu2O8. Physical Review Letters, 1988, 60, 2797-2799. | 7.8 | 43 |
| 185 | A transmission electron microscope and group theoretical study of the new Bi-based high-Tcsuperconductors and some closely related Aurivillius phases. Journal of Physics C: Solid State Physics, 1988, 21, 6067-6083. | 1.5 | 51 |
| 186 | An electron diffraction and group theoretical study of the new Bi-based high-temperature superconductor. Journal of Physics C: Solid State Physics, 1988, 21, L417-L424. | 1.5 | 21 |
| 187 | On the growth of small crystals of Cd, Zn, Pt and Rh during electron microscope observations. Journal of Crystal Growth, 1987, 80, 218-224. | 1.5 | 20 |
| 188 | Atomic-resolution study of structural rearrangements in small platinum crystals. Ultramicroscopy, 1986, 20, 71-75. | 1.9 | 82 |
| 189 | Observation of surface twin formation on gold particles by highresolution electron microscopy. Journal of Materials Science Letters, 1986, 5, 1301-1304. | 0.5 | 7 |
| 190 | Dynamic Atomic-Level Rearrangements in Small Gold Particles. Science, 1986, 233, 872-875. | 12.6 | 283 |
| 191 | Atom hopping on small gold particles imaged by high-resolution electron microscopy. Die Naturwissenschaften, 1985, 72, 539-541. | 1.6 | 41 |
| 192 | Imaging of atomic clouds outside the surfaces of gold crystals by electron microscopy. Nature, 1985, 317, 47-49. | 27.8 | 170 |
| 193 | Dynamics of small gold crystals in real time by high resolution electron microscopy. Ultramicroscopy, 1985, 17, 182. | 1.9 | 2 |
| 194 | Surface profile imaging of column-hopping in real time on gold. Ultramicroscopy, 1985, 17, 183. | 1.9 | 0 |
| 195 | On the crystal structure of small gold crystals and large gold clusters. Surface Science, 1985, 156, 256-264. | 1.9 | 93 |
| 196 | Role of the Au/III-V interaction in the Au-assisted growth of III-V branched nanostructures. , 0, , . | | 2 |
| 197 | Coherently strained and dislocationâ€free architectured AlGaN/GaN submicronâ€sized structures. Nano Select, 0, , . | 3.7 | 2 |