Reine L Wallenberg

List of Publications by Year
in descending order

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

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

#	Article	IF	Citations
1	One-dimensional Steeplechase for Electrons Realized. Nano Letters, 2002, 2, 87-89.	9.1	656
2	Solid-phase diffusion mechanism for GaAs nanowire growth. Nature Materials, 2004, 3, 677-681.	27.5	633
3	GP-zones in Alâ€“Znâ€“Mg alloys and their role in artificial aging. Acta Materialia, 2001, 49, 3443-3451.	7.9	609
4	Synthesis of branched 'nanotrees' by controlled seeding of multiple branching events. Nature Materials, 2004, 3, 380-384.	27.5	592
5	One-dimensional heterostructures in semiconductor nanowhiskers. Applied Physics Letters, 2002, 80, 1058-1060.	3.3	581
6	Epitaxial IIIâ^'V Nanowires on Silicon. Nano Letters, 2004, 4, 1987-1990.	9.1	538
7	Nanowire resonant tunneling diodes. Applied Physics Letters, 2002, 81, 4458-4460.	3.3	429
8	Single-electron transistors in heterostructure nanowires. Applied Physics Letters, 2003, 83, 2052-2054.	3.3	403
9	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
10	Dynamic Atomic-Level Rearrangements in Small Gold Particles. Science, 1986, 233, 872-875.	12.6	283
11	Growth of one-dimensional nanostructures in MOVPE. Journal of Crystal Growth, 2004, 272, 211-220.	1.5	278
12	Few-Electron Quantum Dots in Nanowires. Nano Letters, 2004, 4, 1621-1625.	9.1	274
13	Size-, shape-, and position-controlled GaAs nano-whiskers. Applied Physics Letters, 2001, 79, 3335-3337.	3.3	249
14	Control of IIIâ€“V nanowire crystal structure by growth parameter tuning. Semiconductor Science and Technology, 2010, 25, 024009.	2.0	219
15	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
16	Iron sensitizer converts light to electrons with 92% yield. Nature Chemistry, 2015, 7, 883-889.	13.6	193
17	Crystal field, phonon coupling and emission shift of Mn2+ in ZnS:Mn nanoparticles. Journal of Applied Physics, 2001, 89, 1120-1129.	2.5	185
18	Strain mapping in free-standing heterostructured wurtzite InAs/InP nanowires. Nanotechnology, 2007, 18, 015504.	2.6	179

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19	The Morphology of Axial and Branched Nanowire Heterostructures. Nano Letters, 2007, 7, 1817-1822.	9.1	175
20	Defect-free InP nanowires grown in [001] direction on InP (001). Applied Physics Letters, 2004, 85, 2077-2079.	3.3	173
21	Semiconductor nanowires for 0D and 1D physics and applications. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 25, 313-318.	2.7	172
22	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
23	Imaging of atomic clouds outside the surfaces of gold crystals by electron microscopy. Nature, 1985, 317, 47-49.	27.8	170
24	Energy structure and fluorescence ofEu2+in ZnS:Eu nanoparticles. Physical Review B, 2000, 61, 11021-11024.	3.2	161
25	Highâ€Quality InAs/InSb Nanowire Heterostructures Grown by Metalâ€“Organic Vaporâ€Phase Epitaxy. Small, 2008, 4, 878-882.	10.0	160
26	Continuous gas-phase synthesis of nanowires with tunable properties. Nature, 2012, 492, 90-94.	27.8	156
27	Defect and electrical transport properties of Nb-doped SrTiO3. Solid State Ionics, 2008, 179, 2047-2058.	2.7	153
28	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
29	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
30	A New Understanding of Au-Assisted Growth of III-V Semiconductor Nanowires. Advanced Functional Materials, 2005, 15, 1603-1610.	14.9	139
31	Carbon nitride nanotubulite â€“ densely-packed and well-aligned tubular nanostructures. Chemical Physics Letters, 1999, 300, 695-700.	2.6	137
32	In situ etching for total control over axial and radial nanowire growth. Nano Research, 2010, 3, 264-270.	10.4	135
33	Electron transport in InAs nanowires and heterostructure nanowire devices. Solid State Communications, 2004, 131, 573-579.	1.9	134
34	High-Resolution Fluorescence Diffuse Optical Tomography Developed with Nonlinear Upconverting Nanoparticles. ACS Nano, 2012, 6, 4788-4795.	14.6	127
35	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
36	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

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37	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
38	Electron Trapping in InP Nanowire FETs with Stacking Faults. Nano Letters, 2012, 12, 151-155.	9.1	102
39	Particle Size and Crystallinity Dependent Electron Injection in Fluorescein 27-Sensitized TiO2Films. Journal of Physical Chemistry B, 2003, 107, 1370-1375.	2.6	101
40	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
41	On the crystal structure of small gold crystals and large gold clusters. Surface Science, 1985, 156, 256-264.	1.9	93
42	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
43	Position-Controlled Interconnected InAs Nanowire Networks. Nano Letters, 2006, 6, 2842-2847.	9.1	85
44	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
45	Mesoporous thin films of high-surface-area crystalline cerium dioxide. Microporous and Mesoporous Materials, 2002, 54, 97-103.	4.4	84
46	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
47	Atomic-resolution study of structural rearrangements in small platinum crystals. Ultramicroscopy, 1986, 20, 71-75.	1.9	82
48	InAs1-xPxNanowires for Device Engineering. Nano Letters, 2006, 6, 403-407.	9.1	82
49	Electrochemical characterization and redox behavior of Nb-doped SrTiO3. Solid State Ionics, 2009, 180, 63-70.	2.7	81
50	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
51	Effect of impurities on structural and electrochemical properties of the Niâ€“YSZ interface. Solid State Ionics, 2003, 160, 27-37.	2.7	74
52	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
53	Epitaxially grown GaP/GaAs1âˆ’xPx/GaP double heterostructure nanowires for optical applications. Nanotechnology, 2005, 16, 936-939.	2.6	68
54	Probing the Wurtzite Conduction Band Structure Using State Filling in Highly Doped InP Nanowires. Nano Letters, 2011, 11, 2286-2290.	9.1	66

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55	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
56	Semiconductor nanowires for novel one-dimensional devices. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 560-567.	2.7	63
57	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
58	Yttrium oxide inclusions in YBa2Cu3Ox thin films. Physica C: Superconductivity and Its Applications, 1992, 202, 69-74.	1.2	61
59	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
60	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
61	Size dependence of Eu2+ fluorescence in ZnS:Eu2+ nanoparticles. Journal of Applied Physics, 2001, 89, 2671-2675.	2.5	57
62	Electrical Properties of Self-Assembled Branched InAs Nanowire Junctions. Nano Letters, 2008, 8, 1100-1104.	9.1	56
63	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
64	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
65	Pressure dependence of Mn2+ fluorescence in ZnS:Mn2+ nanoparticles. Journal of Luminescence, 2000, 91, 139-145.	3.1	54
66	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
67	Generation of size-selected gold nanoparticles by spark discharge â€" for growth of epitaxial nanowires. Gold Bulletin, 2009, 42, 20-26.	2.7	51
68	Selective catalytic oxidation of ammonia to nitrogen at low temperature on Pt/CuO/Al2O3. Journal of Catalysis, 2005, 230, 1-13.	6.2	50
69	In situ analysis of catalyst composition during gold catalyzed GaAs nanowire growth. Nature Communications, 2019, 10, 4577.	12.8	49
70	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
71	Growth of Straight InAs-on-GaAs Nanowire Heterostructures. Nano Letters, 2011, 11, 3899-3905.	9.1	44
72	Incipient Modulation in the New High-Temperature Superconductor:Tl2Ba2CaCu2O8. Physical Review Letters, 1988, 60, 2797-2799.	7.8	43

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73	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
74	Crystallography and porosity effects of CO conversion on mesoporous CeO2. Microporous and Mesoporous Materials, 2004, 69, 187-195.	4.4	42
75	Epoxidation of olefins with molecular oxygen as the oxidant using gold catalysts supported on polyoxometalates. Green Chemistry, 2014, 16, 1586.	9.0	42
76	Atom hopping on small gold particles imaged by high-resolution electron microscopy. Die Naturwissenschaften, 1985, 72, 539-541.	1.6	41
77	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
78	Understanding the 3D structure of mathrm {GaAslangle 111angle B} nanowires. Nanotechnology, 2007, 18, 485717.	2.6	41
79	Valence band splitting in wurtzite InP nanowires observed by photoluminescence and photoluminescence excitation spectroscopy. Nano Research, 2011, 4, 159-163.	10.4	41
80	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
81	Directed Growth of Branched Nanowire Structures. MRS Bulletin, 2007, 32, 127-133.	3.5	40
82	Growth and segregation of GaAsâ€“AlxIn1â^'xP core-shell nanowires. Journal of Crystal Growth, 2010, 312, 1755-1760.	1.5	39
83	Vertical InAs/InGaAs Heterostructure Metalâ€“Oxideâ€“Semiconductor Field-Effect Transistors on Si. Nano Letters, 2017, 17, 6006-6010.	9.1	37
84	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
85	A Novel Hormone-sensitive Lipase Isoform Expressed in Pancreatic Î²-Cells. Journal of Biological Chemistry, 2004, 279, 3828-3836.	3.4	36
86	GaAsP Nanowires Grown by Aerotaxy. Nano Letters, 2016, 16, 5701-5707.	9.1	36
87	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
88	Reduction of surface sulphur upon microbial devulcanization of rubber materials. Biotechnology Letters, 1998, 20, 637-642.	2.2	35
89	Control of GaP and GaAs Nanowire Morphology through Particle and Substrate Chemical Modification. Nano Letters, 2008, 8, 4087-4091.	9.1	35
90	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

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91	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
92	Digital HREM Imaging of Yttrium Atoms in YB56with YB66Structure. Journal of Solid State Chemistry, 1998, 135, 182-193.	2.9	34
93	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
94	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
95	InGaN Platelets: Synthesis and Applications toward Green and Red Light-Emitting Diodes. Nano Letters, 2019, 19, 2832-2839.	9.1	34
96	Structureâˆ'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
97	Synthesis of Nb-doped SrTiO3 by a modified glycine-nitrate process. Journal of the European Ceramic Society, 2007, 27, 3609-3612.	5.7	33
98	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
99	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
100	Growth and structural characterization of single-crystal (001) oriented Moî—¸V superlattices. Vacuum, 1990, 41, 1231-1233.	3.5	30
101	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
102	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
103	Effect of Titanium Substitution in â‰ˆSbVO4 Used for Propane Ammoxidation. Journal of Catalysis, 2000, 194, 153-166.	6.2	29
104	Probing of Individual Semiconductor Nanowhiskers by TEM-STM. Microscopy and Microanalysis, 2004, 10, 41-46.	0.4	29
105	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
106	Degenerate p-doping of InP nanowires for large area tunnel diodes. Applied Physics Letters, 2011, 99, .	3.3	28
107	Zn-doping of GaAs nanowires grown by Aerotaxy. Journal of Crystal Growth, 2015, 414, 181-186.	1.5	28
108	Phase Transformation in Radially Merged Wurtzite GaAs Nanowires. Crystal Growth and Design, 2015, 15, 4795-4803.	3.0	27

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109	Strontium Titanate-based Composite Anodes for Solid Oxide Fuel Cells. ECS Transactions, 2008, 13, 181-194.	0.5	26
110	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
111	Formation of Bone-like Nanocrystalline Apatite Using Self-Assembled Liquid Crystals. Chemistry of Materials, 2012, 24, 892-902.	6.7	26
112	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
113	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
114	Polymerâ€Supported Palladium(II) Carbene Complexes: Catalytic Activity, Recyclability, and Selectivity in Câ˜†H Acetoxylation of Arenes. Chemistry - A European Journal, 2017, 23, 8457-8465.	3.3	25
115	High In-content InGaN nano-pyramids: Tuning crystal homogeneity by optimized nucleation of GaN seeds. Journal of Applied Physics, 2018, 123, .	2.5	25
116	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
117	FIB Plan and Side View Cross-Sectional TEM Sample Preparation of Nanostructures. Microscopy and Microanalysis, 2014, 20, 133-140.	0.4	23
118	A high-resolution electron microscopy investigation of TiO2(B)-supported vanadium oxide catalysts. Journal of Catalysis, 1990, 126, 246-260.	6.2	22
119	High-Performance Vertical III-V Nanowire MOSFETs on Si With g_m > 3 mS/Î¼m. IEEE Electron Device Letters, 2020, 41, 1161-1164.	3.9	22
120	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
121	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
122	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
123	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
124	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
125	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
126	Straight and kinked InAs nanowire growth observed in situ by transmission electron microscopy. Nano Research, 2014, 7, 1188-1194.	10.4	19

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127	Growth parameter design for homogeneous material composition in ternary Ga_xIn_{1â~x}P nanowires. Nanotechnology, 2015, 26, 435601.	2.6	19
128	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
129	Kinetics of Auâ€“Ga Droplet Mediated Decomposition of GaAs Nanowires. Nano Letters, 2019, 19, 3498-3504.	9.1	18
130	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
131	Chapter 3.1 Surface area and porosity. Catalysis Today, 1994, 20, 11-16.	4.4	17
132	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
133	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
134	Epitaxial InP nanowire growth from Cu seed particles. Journal of Crystal Growth, 2011, 315, 134-137.	1.5	17
135	A Pd^{II} 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
136	Effect of hydrophobically modified graphene oxide on the properties of poly(3-hydroxybutyrate-co-4-hydroxybutyrate). Polymer, 2017, 108, 66-77.	3.8	16
137	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
138	n-type doping and morphology of GaAs nanowires in Aerotaxy. Nanotechnology, 2018, 29, 285601.	2.6	15
139	Self-Seeded Axio-Radial InAsâ€“InAs_{1â€“x}P_x Nanowire Heterostructures beyond â€œCommonâ€•VLS Growth. Nano Letters, 2018, 18, 144-151.	9.1	15
140	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
141	Modulated structure of Ag2SnO3 studied by high-resolution electron microscopy. Acta Crystallographica Section B: Structural Science, 2000, 56, 363-368.	1.8	14
142	XEDS-mapping for explaining release patterns from single pellets. International Journal of Pharmaceutics, 2005, 290, 109-120.	5.2	14
143	Height-controlled nanowire branches on nanotrees using a polymer mask. Nanotechnology, 2007, 18, 035601.	2.6	14
144	Self-assembled InN quantum dots on side facets of GaN nanowires. Journal of Applied Physics, 2018, 123, .	2.5	14

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145	Directed Câ”H Halogenation Reactions Catalysed by Pd^{II} Supported on Polymers under Batch and Continuous Flow Conditions. Chemistry - A European Journal, 2019, 25, 13591-13597.	3.3	14
146	Single GaInP nanowire p-i-n junctions near the direct to indirect bandgap crossover point. Applied Physics Letters, 2012, 100, 251103.	3.3	13
147	Compressively-strained GaSb nanowires with core-shell heterostructures. Nano Research, 2020, 13, 2517-2524.	10.4	13
148	CRYSTAL STRUCTURE OF BRANCHED EPITAXIAL IIIâ€“V NANOTREES. Nano, 2006, 01, 139-151.	1.0	12
149	Sheet-like carbon particles with graphene structures obtained from a Bunsen flame. Carbon, 2010, 48, 4203-4206.	10.3	12
150	Compositional Correlation between the Nanoparticle and the Growing Au-Assisted In_xGa_{1â€“x}As Nanowire. Journal of Physical Chemistry Letters, 2021, 12, 7590-7595.	4.6	12
151	Aerotaxy: gas-phase epitaxy of quasi 1D nanostructures. Nanotechnology, 2021, 32, 025605.	2.6	11
152	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
153	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
154	Vanadium oxide on TiO2(B) â€” a HREM study of catalysis by support interaction. Ultramicroscopy, 1990, 34, 33-40.	1.9	10
155	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
156	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
157	In situetching for control over axial and radial III-V nanowire growth rates using HBr. Nanotechnology, 2014, 25, 505601.	2.6	10
158	Dislocationâ€Free and Atomically Flat GaN Hexagonal Microprisms for Device Applications. Small, 2020, 16, 1907364.	10.0	10
159	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
160	On the transformation mechanism of K2Ti4O9 to TiO2(B) and formation of microvoids. Microscopy Microanalysis Microstructures, 1990, 1, 357-364.	0.4	10
161	Chapter 6 Morphology and nanometric characterization of V2O5/TiO2 (Eurocat) catalysts. Catalysis Today, 1994, 20, 97-107.	4.4	9
162	Electron microscopy imaging of proteins on gallium phosphide semiconductor nanowires. Nanoscale, 2016, 8, 3936-3943.	5.6	9

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163	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
164	Semiconductor-Oxide Heterostructured Nanowires Using Postgrowth Oxidation. Nano Letters, 2013, 13, 5961-5966.	9.1	8
165	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
166	Observation of surface twin formation on gold particles by highresolution electron microscopy. Journal of Materials Science Letters, 1986, 5, 1301-1304.	0.5	7
167	Chemical solution deposition of thin films for protonic ceramic fuel cells. Solid State Ionics, 2014, 262, 852-855.	2.7	7
168	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
169	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
170	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
171	Kinetic Engineering of Wurtzite and Zinc-Blende AlSb Shells on InAs Nanowires. Nano Letters, 2018, 18, 5775-5781.	9.1	6
172	Electron channelling: challenges and opportunities for compositional analysis of nanowires by TEM. Nanotechnology, 2020, 31, 364005.	2.6	6
173	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
174	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
175	Characterization and optical properties of CeO 2 based nanocluster composites. Scripta Materialia, 2001, 44, 1929-1932.	5.2	5
176	Electron Tomography Reveals the Droplet Covered Surface Structure of Nanowires Grown by Aerotaxy. Small, 2018, 14, e1801285.	10.0	5
177	Analysis of the State and Size of Silver on Alumina in Effective Removal of NO_{<I>x</I>} from Oxygen Rich Exhaust Gas. Journal of Nanoscience and Nanotechnology, 2006, 6, 1076-1083.	0.9	4
178	Electron Image Series Reconstruction of Twin Interfaces in InP Superlattice Nanowires. Microscopy and Microanalysis, 2011, 17, 752-758.	0.4	4
179	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
180	Transmission electron microscopy of InP Stranski-Krastanow islands buried in GaInP. Physica Status Solidi A, 1995, 150, 479-487.	1.7	3

#	Article	IF	Citations
181	Synthesis and characterization of carbon filaments grown from Pd3P colloids. Journal of Materials Research, 2000, 15, 1857-1859.	2.6	3
182	Let's twist again. Nature Nanotechnology, 2008, 3, 457-458.	31.5	3
183	Electrical characterization of thin InAs films grown on patterned Wâˆ•GaAs substrates. Journal of Vacuum Science & Technology B, 2009, 27, 2222.	1.3	3
184	Dynamics of small gold crystals in real time by high resolution electron microscopy. Ultramicroscopy, 1985, 17, 182.	1.9	2
185	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
186	Role of the Au/III-V interaction in the Au-assisted growth of III-V branched nanostructures. , 0, , .		2
187	Coherently strained and dislocationâ€free architectured AlGaN/GaN submicronâ€sized structures. Nano Select, 0, , .	3.7	2
188	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
189	Electron-beam mixing of multilayers. Vacuum, 1995, 46, 1063-1064.	3.5	1
190	Structural and electrical properties of superconducting Nb/Si multilayers. Vacuum, 1998, 50, 31-33.	3.5	1
191	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
192	Surface profile imaging of column-hopping in real time on gold. Ultramicroscopy, 1985, 17, 183.	1.9	0
193	<title>Syracuse Research Corporation (SRC) ultrawide-bandwidth measurements radar</title>. , 1993, 1875, 33.		0
194	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
195	Solid-phase Diffusion Mechanism for GaAs Nanowire Growth. Microscopy and Microanalysis, 2005, 11, .	0.4	0
196	Niobium-Doped Strontium Titanates as SOFC Anodes. , 2009, , 203-214.		0
197	Compositional analysis of oxide-embedded IIIâ€“V nanostructures. Nanotechnology, 2022, 33, 375705.	2.6	0