VAPOR-LIQUID-SOLID MECHANISM OF SINGLE CRYSTAL GROWTH

DOI: 10.1063/1.1753975
Applied Physics Letters, 1964, 4, 89-90.

#	Paper	IF	Citations
2269	Nanowire-nanoantenna coupled system fabricated by nanomanipulation. **2016**, 24, 8647		
2268	Strong Light-Field Driven Nanolasers.		
2267	THE GROWTH AND PROPERTIES OF WHISKERS. **1964**, 9, 261-304		13
2266	Axial Boundaries in Bi-Crystal Whiskers of Aluminium Nitride. **1964**, 7, K57-K59		1
2265	The use of a metastable phase in thin alloy zone crystallization. **1964**, 2, 197-199		10
2264	Study of the Filamentary Growth of Silicon Crystals from the Vapor. **1964**, 35, 2993-3000		193
2263	Electret domains in individual trioxane polycrystals. **1965**, 12, 1065-1070		6
2262	Sur le mecanisme vls de croissance des whiskers. **1965**, 16, 32-33		16
2261	Growth of Lithium Fluoride and Magnesium Oxide Whiskers in the Electron Microscope. **1965**, 206, 79-80		12
2260	Silicon whisker growth and epitaxy by the vapour-liquid-solid mechanism. **1965**, 16, 1089-1094		20
2259	Dislocation Mechanisms in the Growth of Palladium Whisker Crystals. **1965**, 36, 214-221		12
2258	Axial Imperfections in Filamentary Crystals of Aluminum Nitride. I. **1965**, 36, 816-823		30
2257	Growth Pips and Whiskers in Epitaxially Grown Silicon. **1965**, 36, 2525-2534		18
2256	Growth and Dislocation Structure of Single-Crystal Ga (As1⊠Px). **1965**, 36, 3790-3801		30
2255	Whisker Crystals of Gallium Arsenide and Gallium Phosphide Grown by the Vapor□liquid□solid Mechanism. **1965**, 36, 2296-2301		75
2254	Recent advances in crystal growing techniques. **1965**, 16, 1415-1428		12
2253	VAPOR-LIQUID-SOLID GROWTH OF GALLIUM PHOSPHIDE. *Applied Physics Letters*, **1965**, 6, 64-65	3.4	26

2252	Growth, Luminescence, Selection Rules, and Lattice Sums of SiC with Wurtzite Structure. **1966**, 143, 526-536		124
2251	Silicon whisker growth by the vapour-liquid-solid process. **1966**, 14, 165-177		16
2250	Epitaxial Growth of Silicon and Germanium (II). **1966**, 15, 419-450		14
2249	Growth pyramids in epitaxial GaAs. **1966**, 4, 463-466		28
2248	Epitaxial deposition of silicon using ultra-thin alloy zone crystallisation. **1966**, 5, 11-14		6
2247	Purification of materials as a branch of science. **1966**, 137, 5-18		2
2246	Growth of epitaxial layers of silicon by sublimation through thin alloy zones. **1966**, 17, 81-86		11
2245	GaAs-WHISKER CRYSTALS CONTAINING GERMANIUM CORE. *Applied Physics Letters*, **1966**, 8, 77-78	3.4	7
2244	Method for Preparation of Thin, Oriented GaAs Crystals. **1966**, 37, 5006-5007		7
2243	Preparation and Morphology of Boron Filamentary Crystals Grown by the Vapor-Liquid-Solid Mechanism. **1966**, 37, 2399-2401		11
2242	VAPOR-LIQUID-SOLID GROWTH OF SELENIUM CRYSTALS. *Applied Physics Letters*, **1966**, 8, 139-140	3.4	15
2241	Surface Spikes: A Perturbation of Growth Steps. **1966**, 37, 2607-2614		3
2240	Oriented Growth of Semiconductors. III. Growth of Gallium Arsenide on Germanium. **1966**, 37, 4687-4693		53
2239	A p-n JUNCTION IN SILICON WHISKERS GROWN BY VLS METHODS. *Applied Physics Letters*, **1967**, 10, 42-43	3.4	4
2238	A Diffusion Model for Filamentary Crystal Growth. **1967**, 38, 1759-1765		19
2237	Single-crystal films of silicon on insulators. **1967**, 18, 1357-1496-4		55
2236	Growth of Crystalline Silicon Films on Polycrystalline Substrate. **1967**, 6, 1170-1175		9
2235	Investigation of epitaxial silicon layers grown in the presence of small quantities of gold. **1967**, 16, 565-579		12

2234	Defects in Silicon Crystals Grown by the VLS Technique. **1967**, 38, 1554-1560		37
2233	Crystallization of Diamond and Graphite. **1967**, 46, 3668-3676		164
2232	Heterogeneous nucleation from the vapor. **1967**, 1, 335-390		71
2231	Thin alloy zone crystallisation. **1967**, 2, 46-62		28
2230	Evidence for MgO Whisker Growth by a Vapor-Liquid-Solid Mechanism. **1967**, 50, 627-628		5
2229	Fibrous TiC. **1967**, 50, 630-630		1
2228	Surface-spike growth on NiBr2 crystals; A VLS mode of crystal growth. **1967**, 1, 93-101		6
2227	Dendritisches Wachstum beim Gastransport halbleitender Stoffe. **1968**, 3, 19-30		5
2226	Filamentary diamond crystals. **1968**, 2, 380-384		132
2225	Morphology of gallium phosphide crystals grown by VLS mechanism with gallium as liquid-forming agent. **1968**, 2, 61-68		27
2224	Growth and perfection of chemically-deposited epitaxial layers of Si and GaAs. **1968**, 3-4, 43-59		27
2223	Growth from metal solutions. **1968**, 3-4, 97-107		9
2222	A solid-liquid-vapor etching process. **1968**, 3-4, 159-161		20
2221	Méthode de synthèse et de croissance à partir de solution, de monocristaux homogènes de semiconducteurs. **1968**, 3-4, 305-308		20
2220	X-ray investigations on the growth of cadmium whiskers. **1968**, 3-4, 700-704		7
2219	Transmission electron-microscopic study on the growth of copper whiskers by halide reduction. **1968**, 3-4, 705-710		9
2218	MOVING MASK GROWTH OF SINGLE-CRYSTAL SILICON FILMS ON AMORPHOUS QUARTZ SUBSTRATES. *Applied Physics Letters*, **1968**, 12, 66-67	3.4	4
2217	THE INFLUENCE OF IMPURITIES ON THE GROWTH OF SILICON CARBIDE CRYSTALS GROWN BY GAS-PHASE REACTIONS. **1969**, S33-S44		4

2216	Crystal Growth of 2H Silicon Carbide. **1969**, 40, 4660-4662	25
2215	In Situ Electron-Microscopic Study of the Growth of Iron Whiskers by Chemical Vapor Deposition. **1969**, 40, 2696-2704	12
2214	X-Ray Microtopographs of Alpha Alumina Whiskers. **1969**, 52, 282-284	8
2213	Étude expérimentale de la croissance de trichites de cuivre en fonction de la température. **1969**, 6, 43-52	7
2212	The tensile strength of silicon whiskers grown by the vapour liquid solid technique. **1970**, 2, 89-100	
2211	Drops of oxides on tungsten oxide needles and nuclei of dendritic crystals. **1970**, 7, 113-116	19
2210	High index growth of □-Al 2 O 3 filamentary crystals. **1970**, 5, 71-92	1
2209	Field emission from silicon carbide whiskers. **1970**, 225, 539-40	5
2208	A systematic study of lattice imperfections in metal whiskers by laue method. **1970**, 3, 617-628	7
2207	Growth of ZnO Whiskers, Platelets, and Dendrites. **1971**, 42, 5302-5304	22
2206	Silicon carbide as a semiconductor. **1971**, 48-118	1
2205	Coiled crystals of gallium arsenide. **1971**, 11, 351-354	8
2204	Das Wachstum von Galliumarsenid-Kristallen nach dem VLS-Mechanismus. **1971**, 11, 11-20	8
2203	The formation of calcium and certain rare-earth hexaboride single crystals. **1971**, 11, 110-112	15
2202	A quantitative study on the growth of silicon whiskers from silane and germanium whiskers from germane. **1971**, 10, 223-234	204
2201	The growth of silicon carbide needles by the vapor-liquid-solid method. **1971**, 9, 314-318	35
2200	Morphology of silicon whiskers grown by the VLS-technique. **1971**, 9, 326-329	50
2199	The growth of MgO crystals from the vapour. **1971**, 9, 340-345	3

2198	Photographic observation of the growth of GaP-Needles from the wet hydrogen process. **1971**, 9, 346-350	10
2197	Growth modes of GaAs on tungsten. **1971**, 6, 413-418	7
2196	On the Growth of Copper Whiskers by Halide Reduction and Their Perfection. **1972**, 11, 1403-1412	11
2195	Autodoping Effects of Ge in Vapor-Grown GaP Layers on Ge Substrates. **1972**, 43, 1792-1798	8
2194	KOWARSKI Protuberances as an Example of Two-Dimensional Growth by the VLS Mechanism. **1972**, 7, 779-786	11
2193	Continuous microscopic observation of the reaction of silicon with methane in the presence of iron. **1972**, 12, 185-190	8
2192	Lanthanum-stimulated high-temperature whisker growth of β-SiC. **1972**, 12, 97-105	22
2191	Growth mechanism of CdS platelets. **1972**, 16, 99-109	9
2190	Chemical vapor deposition of tungsten carbide dendrites. **1972**, 12, 265-271	14
2189	Chemical thermodynamics for optimization of epitaxial film deposition processes. **1972**, 13, 303-312	10
2188	Silver-mercury whiskers. **1972**, 12, 291-297	8
2187	Kinetics of Growth of Al2O3 Whiskers. **1972**, 55, 77-80	5
2186	The preparation and properties of elemental semiconductor thin films. **1973**, 18, 1-23	16
2185	Periodic instability in whisker growth. **1973**, 20, 217-226	139
2184	Recent developments in epitaxial IV–VI films. **1973**, 7, 524-541	15
2183	VLS (Vapor-Liquid-Solid): Newly Discovered Growth Mechanism on the Lunar Surface?. **1973**, 181, 841-2	8
2182	Temperature Dependence of Photocurrent in Polyethylene. **1973**, 12, 757-757	2
2181	Naturally occurring vapor-liquid-solid (VLS) Whisker growth of germanium sulfide. **1974**, 22, 159-160	13

2180	Hollow whiskers of silicon grown by pyrolysis of alkyl-silicon compounds on polycrystalline quartz substrates. **1974**, 26, 157-161	2
2179	Growth and crystallographic features of titanium carbide whiskers. **1974**, 26, 255-260	19
2178	The growth of hetero-epitaxial SiC films by pyrolysis of various alkyl-silicon compounds. **1974**, 24-25, 188-192	54
2177	BEHAVIOUR OF GOLD METAL AS AN IMPURITY FOR THE CHEMICAL VAPOUR DEPOSITION OF TITANIUM NITRIDE WHISKERS ON QUARTZ GLASS. **1975**, 4, 363-366	9
2176	Chemical Vapor Deposition of Tetraboron Silicide Whiskers. **1975**, 48, 1463-1466	9
2175	Keimbildung und kristallwachstum des reaktions-produktes bei festk□perreaktionen: bildung von MgCr2O4 aus den oxiden. **1975**, 26, 349-362	2
2174	Oriented growth of whiskers of AIIIBV compounds by VLS-mechanism. **1975**, 10, 473-484	26
2173	Electron microscope observations on nickel oxide whiskers. **1975**, 28, 367-371	4
2172	Fundamental aspects of VLS growth. **1975**, 31, 20-30	858
2171	FUNDAMENTAL ASPECTS OF VLS GROWTH. **1975**, 20-30	9
2170	Surface morphology and structural defects in epitaxial films. **1976**, 32, 127-134	6
2169	Growth mechanism of ZnO ribbon crystals from ZnS. **1976**, 35, 159-164	11
2168	Vapor phase nucleation and growth of menthol on carbon, glass and fuzed quartz substrates. **1976**, 36, 83-92	2
2167	Negative whiskers formed by solid-liquid-vapor mechanism during vaporization of ZnS. **1977**, 37, 140-146	11
2166	Growth mechanism of copper whiskers by the hydrogen reduction of cuprous iodide. **1977**, 42, 175-182	9
2165	GaAs whiskers grown by a thermal decomposition method. **1977**, 38, 23-28	21
2164	Hot wall epitaxy. **1978**, 49, 3-57	389
2163	On the relations between the number of gold drops and TiP whiskers in VLS growth. **1978**, 44, 499-501	3

2162	Some notes on the growth kinetics and morphology of VLS silicon crystals grown with platinum and gold as liquid-forming agents. **1978**, 43, 235-244	36
2161	Studies of vapour transport reactions for III□V compounds. **1978**, 45, 150-158	2
2160	Growth of hollow Se□e whisker crystals. **1978**, 13, 1435-1438	4
2159	Improvement of the Frequency Stability of the Cs Frequency Standard NRLM-I. **1978**, 17, 1139-1140	1
2158	Determination of the electron temperature of a laser plasma from continuous recombination radiation of multiply charged ions. **1978**, 8, 1285-1287	1
2157	Polytypism and Amorphousness in Silicon Whiskers. **1978**, 44, 181-190	19
2156	Whisker growth on nickel-coated gallium phosphide. **1979**, 12, 277-278	2
2155	The crystal growth and atomic structure of As2(Se, S)3 compounds. **1979**, 39, 111-132	27
2154	Grain size and its influence on efficiency in polycrystalline GaAs solar cells. **1979**, 1, 81-90	6
2153	Nitrides□tructures and crystal growth. **1979**, 2, 207-235	15
2152	Growth of □-Ag2S whiskers in a VLS system. **1979**, 46, 504-510	12
2151	The growth figures of MnAs. **1979**, 46, 763-770	7
2150	Grain size and its influence on efficiency in polycrystalline GaAs solar cells. **1980**, 1, 149-152	
2149	Experimental methods for the preparation of selectively absorbing textured surfaces for photothermal solar conversion. **1980**, 3, 391-404	29
2148	Electron microscopic study of small particles of tungsten oxide formed by the evaporation of tungsten trioxide. **1980**, 13, 591-596	2
2147	Zone Refining and Its Applications. **1980**, 301-355	3
2146	Feasibility of ToF atom-probe analysis of silicon. **1981**, 103, L139-L142	15
2145	Stimulated crystallization of polycrystalline GaSb films. **1981**, 16, 1137-1141	1

2144	Feasibility of ToF atom-probe analysis of silicon. **1981**, 103, L139-L142		1
2143	Metalorganic chemical vapor deposition of very thin (?2 □), oriented GaAs layers on tungsten substrates. *Applied Physics Letters*, **1982**, 41, 836-838	3.4	1
2142	Whisker Growth during Epitaxy of GaAs by Molecular Beam Epitaxy. **1982**, 21, L230-L232		16
2141	Field evaporation of silicon (111) surfaces in the presence of hydrogen. **1982**, 116, L183-L189		10
2140	Continuous growth of polycrystalline silicon films by chemical vapor deposition. **1982**, 56, 313-323		2
2139	Field evaporation of silicon (111) surfaces in the presence of hydrogen. **1982**, 116, L183-L189		1
2138	Large homogeneous Pb1-xSnxTe single crystal growth by vapor-melt-solid mechanism. **1982**, 57, 141-144		11
2137	Vapor-melt-solid mechanism of Pb1□n Te single crystal growth. **1983**, 65, 379-383		4
2136	Crystallization of amorphous Si3N4 prepared by the thermal decomposition of Si(NH)2. **1983**, 2, 275-278		26
2135	Growth morphology and growth mechanism of □-Al2O3 whiskers. **1983**, 61, 75-79		9
2134	Low-temperature silicon crystal growth on an amorphous planar substrate. *Applied Physics Letters*, **1983**, 42, 81-83	3.4	9
2133	Crystal growth of GaN by the reaction between gallium and ammonia. **1984**, 66, 45-54		79
2132	Formation and Structure of Silicon Carbide Whiskers from Rice Hulls. **1984**, 67, 715-720		186
2131	Growth of beta-silicon carbide whiskers by the VLS process. **1985**, 20, 1160-1166		247
2130	Structural and morphological investigations of an atomized iron powder. **1985**, 24, 598-603		
2129	Characterization of the whiskerlike products formed by hydriding magnesium metal powders. **1985**, 58, 292-296		19
2128	Impurity scavenging by foreign phase in heterogeneous CuInS2. **1986**, 4, 198-200		7
2127	Electronic defects in heterogeneous CuInS2. **1986**, 21, 4419-4423		11

2126	Efficient solar energy conversion with CuInS2. **1986**, 321, 687-688		90
2125	Growth of arsenic tritelluride whiskers from vapour. **1986**, 5, 717-718		
2124	A Reappraisal of Wetting in the System A1-A12O3from 750□1000°C. **1987**, 329-339		14
2123	A propagation mechanism for chemical vapor deposited □Sic whiskers. **1987**, 21, 637-638		1
2122	Vapour-melt-solid mechanism for□?-Hgl2 crystal growth. **1987**, 6, 1270-1272		2
2121	Impurity-stimulated crystallization and diffusion in amorphous silicon. *Applied Physics Letters*, **1988**, 52, 439-441	3.4	61
2120	Interfacial phenomena involving liquid metals and solid oxides in the MgAl□O system. **1988**, 3, 729-739		56
2119	Amorphous to Polycrystalline Transformation in High Dose Ion Implanted Silicon. **1988**, 100, 405		18
2118	Growth of Shaped Crystals. **1989**, 275-302		
2117	The growth of tubular or vermicular structures in organic monotectic systems. **1989**, 20, 171-177		17
2116	Micromorphology of as-grown surfaces of crystals. **1989**, 19, 189-245		22
2115	Factors affecting the growth of aluminium nitride layers on sapphire by the reaction of nitrogen with aluminium monoselenide. **1989**, 94, 23-33		31
2114	Crystallization Studies of Glassy Te-Se-Br Thin Films. **1989**, 172, 221		
2113	Homoepitaxial Growth of Crystalline Ge Films through a Liquid Metal Medium at Low Temperature. **1990**, 204, 265		
2112	Mechanism of structure formation of silicon nitride with combustion of silicon in nitrogen. **1990**, 26, 39-45		17
2111	A model for the solute transport in PbSnTe growth by vapor-melt-solid technique. **1990**, 104, 435-444		4
2110	Growth of boron whiskers and ribbons in a low-pressure B2H6 + He + H2 plasma. **1990**, 102, 899-907		9
2109	Characterization and growth of lead sulfide whiskers. **1990**, 9, 511-516		2

2108	Heteroepitaxial ultrafine wire-like growth of InAs on GaAs substrates. *Applied Physics Letters*, **1991**, 58, 1080-1082	3.4	104
2107	Optical characterization of GaAs quantum wire microcrystals. **1991**, 80, 235-238		28
2106	Growth of Bi-Sr-Ca-Cu-O based superconducting whiskers. **1991**, 110, 973-984		48
2105	In situ RBS and channeling study of molecular beam epitaxial growth of metals and semiconductors on semiconductors. **1991**, 56-57, 780-784		10
2104	Laser irradiation studies of Te-Se-Br glasses. **1991**, 26, 2900-2906		6
2103	De Gruyter. **1991**, 196, 197-205		12
2102	Liquid-metal-mediated homoepitaxial film growth of Ge at low temperature. *Applied Physics Letters* , **1991**, 59, 3586-3588	3.4	2
2101	Quantum size microcrystals grown using organometallic vapor phase epitaxy. *Applied Physics Letters*, **1991**, 59, 431-433	3.4	117
2100	In5S4 = SnIn4S4: Eine Korrektur!. **1991**, 196,		1
2099	Crystal Structure Change of GaAs and InAs Whiskers from Zinc-Blende to Wurtzite Type. **1992**, 31, 2061-2065		150
2098	AN EXAMINATION OF THE GROWTH MODELS FOR TiC WHISKERS MADE BY CVD. **1992**, 7, 613-624		4
2097	A selective growth of GaAs microcrystals grown on Se-terminated GaAlAs surface for the quantum well box structure. **1992**, 283, 765		
2096	Growth of GaAs Epitaxial Microcrystals on a S-terminated GaAs (001) by VLS Mechanism in MBE. **1992**, 283, 815		
2095	Effect of one monolayer of surface gold atoms on the epitaxial growth of InAs nanowhiskers. *Applied Physics Letters*, **1992**, 61, 2051-2053	3.4	181
2094	Microcrystal growth of GaAs on a Se-terminated GaAlAs surface for the quantum-well box structure by sequential supplies of Ga and As molecular beams. *Applied Physics Letters*, **1992**, 61, 2431-2433	3.4	20
2093	Growth characteristics of □SiC by chemical vapour deposition. **1992**, 27, 3883-3888		22
2092	Microstructure of Silicon Carbide Whiskers Synthesized by Carbothermal Reduction of Silicon Nitride. **1992**, 75, 1080-1084		15
2091	Growth and structure of graphitic tubules and polyhedral particles in arc-discharge. **1993**, 204, 277-282		274

2090	Semiconductor nanowhiskers. **1993**, 5, 577-580		49
2089	The Growth of Silver Whiskers by Reduction of Silver Halogenides. **1993**, 28, 441-448		1
2088	Nanometric tips for scanning probe devices. **1993**, 67, 73-81		14
2087	Deposition from the vapour phase during induction plasma treatment of alumina powders. **1993**, 28, 4223-4228		25
2086	Effect of chemical vapor deposition process parameters on the growth aspects of titanium carbide whiskers. **1993**, 61, 171-176		3
2085	Silicide formation and silicide-mediated crystallization of nickel-implanted amorphous silicon thin films. **1993**, 73, 8279-8289		316
2084	GaAs free-standing quantum-size wires. **1993**, 74, 3162-3171		158
2083	Growth of GaAs Epitaxial Microcrystals on an S-Terminated GaAs Substrate by Successive Irradiation of Ga and As Molecular Beams. **1993**, 32, 2052-2058		207
2082	Formation of Carbon Nanotubes by Evaporation of Carbon Rod Containing Scandium Oxide. **1993**, 32, L1248-L1251		18
2081	A structure observation of GaAs micro crystal/Se-terminated GaAlAs interface for the quantum well box structure. **1993**, 300, 519		
2080	Instability of Faceted Crystal Shapes and their Transformation into Skeletons during Growth under Diffusion Control. **1994**, 4, 3-71		20
2079	Nanostructure Fabrication Based on Spontaneous Formation Mechanisms. **1994**, 33, 7214-7222		5
2078	Low-temperature homoepitaxial growth on Si(111) mediated by thin overlayers of Au. *Applied Physics Letters*, **1994**, 65, 866-868	3.4	25
2077	Polarization dependence of light emitted from GaAs p-n junctions in quantum wire crystals. **1994**, 75, 4220-4225		47
2076	Inorganic fibers and microstructures directly from the vapor phase. **1994**, 51, 193-212		23
2075	Highly oriented WSe2 thin films prepared by selenization of evaporated WO3. **1994**, 245, 180-185		70
2074	Growth mechanism of Bi2Sr2CaCu2Ox superconducting whiskers. **1994**, 141, 131-140		60
2073	Precise control of growth site of silicon vapor-liquid-solid crystals. **1994**, 141, 357-362		8

2072	Growth rate of Bi-2212 superconducting whiskers from melt-quenched BSCCO containing alumina. **1994**, 144, 375-379	17
2071	Role of liquid droplet surface diffusion in the vapor-liquid-solid whisker growth mechanism. **1994**, 76, 1557-1562	48
2070	Chapter 2 Nucleation, Growth And Dissolution Of Crystals During Sedimentogenesis and Diagenesis. **1994**, 51, 19-47	9
2069	Kinetic Studies of Nanoscale Crystallization in Electronic Materials. **1995**, 405, 73	
2068	Influence of boric acid concentration on silicon carbide morphology. **1995**, 14, 1052-1054	17
2067	Microstructures of laser-treated Al2O3-ZrO2-CeO2 composites. **1995**, 196, 253-260	10
2066	The role of alumina in the growth mechanism of Bi(Pb)?Sr?Ca?Cu?O whiskers. **1995**, 251, 149-155	17
2065	The Use of Phase Studies in the Development of Whiskers and Whisker-Reinforced Ceramics. **1995**, 157-226	1
2064	Nanoscale silicon whiskers formed by silane/gold reaction at 335 °C. **1995**, 24, 109-112	9
2063	Growth and optical properties of nanometer-scale GaAs and InAs whiskers. **1995**, 77, 447-462	550
2062	Superconductive whisker-like crystal growth in Bi-Sr□a-Cu-O and more complicated oxide systems. **1995**, 5, 611-615	15
2061	Growth of diamond particles on sharpened silicon tips for field emission. **1996**, 5, 938-942	10
2060	Probe card with probe pins grown by the vapor-liquid-solid (VLS) method. **1996**, 19, 258-267	11
2059	Emission Characteristics of Arrays of Diamondcoated Silicon Tips. **1996**, 424, 393	5
2058	The Characteristics and Oxidation of Vapor - Liquid - Solid Grown Si Nanowires. **1996**, 452, 237	10
2057	The first crystalline hexagonal Si3N4 microtubes. **1996**, 8, 844-847	16
2056	Advanced self-organized epitaxy for GaAs quantum wire arrays. **1996**, 227, 287-290	
2055	Self-organized growth of heterostructure nanocylinders by organometallic vapor phase epitaxy. **1996**, 163, 226-231	61

2054	VLS growth of silicon whiskers on a patterned silicon-on-insulator (SOI) wafer. **1996**, 165, 37-41	2
2053	Substrate effect on the preparation of silicon carbide whiskers by chemical vapor deposition. **1996**, 167, 607-611	10
2052	In situ observation of Bi 2 Sr 2 CaCu 2 O x superconducting whisker growth. **1996**, 167, 570-573	12
2051	Chemical vapour growth of HfC whiskers and their morphology. **1996**, 31, 3697-3700	16
2050	Control of the Size and Position of Silicon Nanowires Grown via the Vapor-Liquid-Solid Technique. **1997**, 36, 6204-6209	58
2049	HREM of nanometric tips prepared from epitaxially grown silicon whiskers. **1997**, 28, 21-29	1
2048	Free-standing submicrometre filament crystals of Si and GexSi1 □x. **1997**, 28, 13-22	3
2047	Vapour-liquid-solid Growth and Characterisation of N-methylurea Crystals. **1997**, 32, 213-220	3
2046	Nickel-Catalyzed Conversion of Activated Carbon Extrudates into High Surface Area Silicon Carbide by Reactive Chemical Vapour Deposition. **1997**, 170, 311-324	13
2045	Growth of twin-free CdTe single crystals in a semi-closed vapour phase system. **1997**, 174, 696-707	23
2044	Transmission electron microscopy evidence of the defect structure in Si nanowires synthesized by laser ablation. **1998**, 283, 368-372	100
2043	Hillocks formation during the molecular beam epitaxial growth of ZnSe on GaAs substrates. **1998**, 193, 528-534	22
2042	Factors determining the diameter of silicon carbide whiskers prepared by chemical vapor deposition. **1998**, 56, 256-261	21
2041	Ultrasharp diamond-coated silicon tips for scanning-probe devices. **1998**, 41-42, 499-502	9
2040	Si Nanowires Grown via the Vapour□liquid□Solid Reaction. **1998**, 165, 37-42	42
2039	One-dimensional nanostructures: Chemistry, physics & applications. **1998**, 107, 607-616	776
2038	High-temperature carboreduction of kaolins of different crystallinity. **1998**, 13, 1-12	14
2037	A Novel Solventothermal Synthetic Route to Nanocrystalline CdE (E = S, Se, Te) and Morphological Control. **1998**, 10, 2309-2312	182

2036	Nonaqueous Synthesis of CdS Nanorod Semiconductor. **1998**, 10, 2301-2303		283
2035	A laser ablation method for the synthesis of crystalline semiconductor nanowires. **1998**, 279, 208-11		3867
2034	Silicon nanowhiskers grown on a hydrogen-terminated silicon {111} surface. *Applied Physics Letters*, **1998**, 73, 3700-3702	3.4	118
2033	Nucleation and growth of Si nanowires from silicon oxide. **1998**, 58, R16024-R16026		282
2032	Electrically Induced Morphological Instabilities in Free Dendrite Growth. **1998**, 81, 176-179		47
2031	Transmission electron microscopy study of Si nanowires. *Applied Physics Letters*, **1998**, 73, 677-679	3.4	67
2030	Amorphous silica nanowires: Intensive blue light emitters. *Applied Physics Letters*, **1998**, 73, 3076-3078	3.4	453
2029	Chemical Vapor Deposition of □SiC Nanowires on Granular Active Carbon Cylinders Loaded with Iron Nanoparticles Inside the Pores. **1998**, 15, 689-691		15
2028	Studies of the formation mechanism of the phase. **1998**, 11, 110-115		9
2027	SiO2-enhanced synthesis of Si nanowires by laser ablation. *Applied Physics Letters*, **1998**, 73, 3902-3904	3.4	181
2026	Self-organized chain of crystalline-silicon nanospheres. *Applied Physics Letters*, **1998**, 73, 3144-3146	3.4	61
2025	Growth of Metastable Alloy InAsBi by Low-Pressure MOVPE. **1998**, 37, 1608-1613		43
2024	Cathodoluminescent Field Emission Flat Panel Display Prototype Built Using Arrays of Diamond-Coated Silicon Tips. **1998**, 29, 577		1
2023	Field Aided Lateral Crystallization of Amorphous Silicon Thin Film. **1999**, 38, L108-L109		43
2022	High-Efficiency Amorphous Silicon Solar Cells with ZnO as Front Contact. **1999**, 38, 4983-4988		54
2021	Advanced Inorganic Fibers. **1999**,		11
2020	Oxide-Assisted Semiconductor Nanowire Growth. **1999**, 24, 36-42		191
2019	Fullerene-structured nanowires of silicon. **1999**, 60, 11593-11600		147

2018	Aligned island formation using an array of step bands and holes on Si(111). *Applied Physics Letters*, **1999**, 74, 815-817	3.4	20
2017	Formation mechanism of single-wall carbon nanotubes on liquid-metal particles. **1999**, 60, 11180-11186		168
2016	Synthesis and characterization of amorphous carbon nanowires. *Applied Physics Letters*, **1999**, 75, 2921-2923	3.4	61
2015	Cloud chambers and crystal growth: Effects of electrically enhanced diffusion on dendrite formation from neutral molecules. **1999**, 59, 3253-3261		23
2014	High growth rate deposition techniques for coated conductors: liquid phase epitaxy and vapor-liquid-solid growth. **1999**, 9, 1979-1982		12
2013	Ga2O3 nanowires prepared by physical evaporation. **1999**, 109, 677-682		271
2012	Si nanowires grown from silicon oxide. **1999**, 299, 237-242		246
2011	Growth of A3N whiskers and plate-shaped crystals by molecular-beam epitaxy with the participation of the liquid phase. **1999**, 25, 741-744		16
2010	Growth morphology and micro-structural aspects of Si nanowires synthesized by laser ablation. **1999**, 197, 129-135		21
2009	One-dimensional growth mechanism of crystalline silicon nanowires. **1999**, 197, 136-140		97
2008	Growth of Si whiskers on Au/Si(1 1 1) substrate by gas source molecular beam epitaxy (MBE). **1999**, 200, 106-111		36
2007	Ga-droplet-induced formation of GaAs nano-islands by chemical beam epitaxy. **1999**, 201-202, 1198-1201		13
2006	Growth and properties of Nd1+xBa2−xCu3O7−δ whiskers and needle-like crystals. **1999**, 203, 534-539		7
2005	Nano-scale GeO2 wires synthesized by physical evaporation. **1999**, 303, 311-314		166
2004	Formation of ceria partially stabilized zirconia nanocrystals by laser evaporation-condensation. **1999**, 10, 383-397		4
2003	The role of gold clusters in semiconductor microstructure fabrication. **1999**, 32, 80-84		7
2002	Synthesis and micro-structural study of one-dimensional nano-materials. **1999**, 42, 429-437		1
2001	Chemistry and Physics in One Dimension: Synthesis and Properties of Nanowires and Nanotubes. **1999**, 32, 435-445		3021

2000	Germanium dioxide whiskers synthesized by laser ablation. *Applied Physics Letters*, **1999**, 74, 3824-3826	3.4	65
1999	Morphology and growth mechanism of alumina whiskers in aluminum-based metal matrix composites. **1999**, 14, 2997-3000		17
1998	Aligned island formation using step-band networks on Si(111). **1999**, 86, 3083-3088		40
1997	Growth of SiC nanorods at low temperature. *Applied Physics Letters*, **1999**, 75, 507-509	3.4	116
1996	Morphology of Si nanowires synthesized by high-temperature laser ablation. **1999**, 85, 7981-7983		91
1995	Fabrication of nanoscale heterojunction of si/au and si/ag by surface droplet epitaxy. **1999**, 12, 13-18		5
1994	A new phase with nano-rod structure evolved from ferroelectric thin film. **1999**, 41, 215-221		1
1993	Kinetics of surface droplet epitaxy and its application to fabrication of mushroom-shaped metal/Si heterostructure on nanometer scale. **1999**, 420, 190-199		13
1992	Solvothermal Elemental Direct Reaction to CdE (E = S, Se, Te) Semiconductor Nanorod. **1999**, 38, 1382-1387		316
1991	Semiconductor nanowires from oxides. **1999**, 14, 4503-4507		128
1990	Controlled Growth of Amorphous Silicon Nanowires Via a Solid-Liquid-Solid (SLS) Mechanism. **1999**, 581, 225		5
1989	Oriented Si nanowires grown via an SLS mechanism. **1999**, 581, 231		2
1988	Optical properties of Si nanowires on a Si {111} surface. **1999**, 588, 98		4
1987	Self-organized growth of Si/Si and Ge/sub x/Si/sub 1-x//Si superlattices.		
1986	Synthesis of BaCO3Nanowires and Nanorods in the Presence of Different Nonionic W/O Microemulsions. **2000**, 29, 638-639		15
1985	Synthesis of Carbon, Silicon, and Boron-nitride Nanostructures via Microwave Plasma Enhanced Chemical Vapor Deposition. **2000**, 633, 13421		
1984	A Soft Lithographic Approach to the Fabrication of Single Crystalline Silicon Nanostructures with Well-Defined Dimensions and Shapes. **2000**, 636, 421		1
1983	Hollow defect elimination during solution growth of SiC. **2000**, 640, 1		

1982	The structure of nanotubes fabricated by carbon evaporation at high gas pressure. **2000**, 38, 1217-1240		42
1981	Self-assembly of Si nanostructures. **2000**, 322, 312-320		15
1980	Growth of amorphous silicon nanowires via a solid–liquid–solid mechanism. **2000**, 323, 224-228		205
1979	Bulk-quantity Si nanowires synthesized by SiO sublimation. **2000**, 212, 115-118		78
1978	Periodic instability in growth of chains of crystalline-silicon nanospheres. **2000**, 216, 185-191		37
1977	Growth of silicon nanowires by chemical vapor deposition: approach by charged cluster model. **2000**, 218, 33-39		65
1976	Synthesis of titanium carbide nanowires. **2000**, 219, 485-488		42
1975	A chemical solution transport mechanism for one-dimensional growth of CdS nanowires. **2000**, 220, 231-234		37
1974	Growth of InAs nanocrystals on GaAs(100) by droplet epitaxy. **2000**, 212, 67-73		36
1973	Metal-mediated growth of alternate semiconductor–insulator nanostructures. **2000**, 116, 591-594		18
1972	Synthesis of silicon nanowires using AuPd nanoparticles catalyst on silicon substrate. **2000**, 61, 1171-1174		26
1971	Semiconductor nanowires: synthesis, structure and properties. **2000**, 286, 16-23		113
1970	Whisker probes. **2000**, 82, 57-61		20
1969	VLS-growth of carbon nanotubes from the vapor. **2000**, 317, 65-70		160
1968	Direct synthesis of silicon nanowires, silica nanospheres, and wire-like nanosphere agglomerates. *Applied Physics Letters*, **2000**, 76, 2346-2348	3.4	133
1967	Size distribution of quantum-scale GaAs islands grown by Ga droplet induced chemical beam epitaxy. **2000**, 18, 1507		1
1966	AuPd catalytic nanoparticle size effect on the formation of amorphous silicon nanowires. **2000**, 9, 774-777		1
1965	Silicon nanowire devices. *Applied Physics Letters*, **2000**, 76, 2068-2070	3.4	325

1964	Simple and high-yield method for synthesizing single-crystal GaN nanowires. *Applied Physics Letters*, **2000**, 77, 1961-1963	3.4	92
1963	Metal-induced growth of poly-Si on foreign substrates for solar cell applications.		
1962	Microstructure observations of silicon carbide nanorods. **2000**, 15, 2020-2026		12
1961	Growth Mechanism of Chains of Silicon Nanocrystallites. **2000**, 638, 1		1
1960	Study on preparation, growth mechanism, and optoelectronic properties of highly oriented WSe2 thin films. **2000**, 15, 2636-2646		5
1959	Preparation and characterization of amorphous SiOx nanowires. **2000**, 277, 63-67		90
1958	Synthesis and optical properties of gallium arsenide nanowires. *Applied Physics Letters*, **2000**, 76, 1116-1118	3.4	255
1957	Control of thickness and orientation of solution-grown silicon nanowires. **2000**, 287, 1471-3		1369
1956	A Solution-Phase Approach to the Synthesis of Uniform Nanowires of Crystalline Selenium with Lateral Dimensions in the Range of 10-30 nm. **2000**, 122, 12582-12583		300
1955	Laser-Assisted Catalytic Growth of Single Crystal GaN Nanowires. **2000**, 122, 188-189		733
1954	Synthesis and Characterization of SiC Nanowires through a Reduction−Carburization Route. **2000**, 104, 5251-5254		128
1953	Silicon Nanowires: Preparation, Device Fabrication, and Transport Properties. **2000**, 104, 11864-11870		203
1952	Silicon nanowires grown on iron-patterned silicon substrates. *Applied Physics Letters*, **2000**, 76, 3020-3022	3.4	35
1951	Chemical vapor deposition of Si nanowires nucleated by TiSi2 islands on Si. *Applied Physics Letters*, **2000**, 76, 562-564	3.4	133
1950	Raman spectral study of silicon nanowires: High-order scattering and phonon confinement effects. **2000**, 61, 16827-16832		229
1949	Diameter-Selective Synthesis of Semiconductor Nanowires. **2000**, 122, 8801-8802		282
1948	Germanium Nanowire Growth via Simple Vapor Transport. **2000**, 12, 605-607		404
1947	Growth of Crystalline Cu2S Nanowire Arrays on Copper Surface: Effect of Copper Surface Structure, Reagent Gas Composition, and Reaction Temperature. **2001**, 13, 4794-4799		81

1946	Growth Mechanisms of Carbon Nanotubes. **2001**, 55-81		65
1945	Root-growth mechanism for single-wall carbon nanotubes. **2001**, 87, 275504		322
1944	Computation of large systems with an economic basis set: Ab initio calculations of silicon oxide clusters. **2001**, 114, 5531-5536		26
1943	Direct Observation of Vapor□iquid□olid Nanowire Growth. **2001**, 123, 3165-3166		874
1942	Ti-catalyzed Si nanowires by chemical vapor deposition: Microscopy and growth mechanisms. **2001**, 89, 1008-1016		255
1941	Bulk synthesis of silicon nanowires using a low-temperature vapor□iquid□olid method. *Applied Physics Letters*, **2001**, 79, 1546-1548	3.4	224
1940	Synthesis of boron nitride in tubular form. **2001**, 51, 315-319		13
1939	Nanobelts of semiconducting oxides. **2001**, 291, 1947-9		5235
1938	Synthesis and growth mechanism of NaFe/sub 4/P/sub 12/ nanowires.		
1937	Development ofa synthesis technique and characterization of Bi/sub 2/Sr/sub 2/CaCu/sub 2/O/sub 8+/spl delta// whiskers. **2001**, 11, 2846-2849		11
1936	Temperature-Controlled Growth of Silicon-Based Nanostructures by Thermal Evaporation of SiO Powders. **2001**, 105, 2507-2514		167
1935	Nucleation and growth of silicon nitride nanoneedles using microwave plasma heating. **2001**, 16, 3111-3115		37
1934	Synthetic Control of the Diameter and Length of Single Crystal Semiconductor Nanowires. **2001**, 105, 4062-4064		232
1933	Synthesis of □□iO2 nanowires using Au nanoparticle catalysts on a silicon substrate. **2001**, 16, 683-686		85
1932	The Effects of Cu on Field Aided Lateral Crystallization (FALC) of Amorphous Silicon (a-Si) Films. **2001**, 664, 681		1
1931	A Novel Low Temperature Synthesis Method for Semiconductor Nanowires. **2001**, 676, 161		11
1930	Synthesis of Silicon Nano-Dendrites. **2001**, 676, 271		
1929	A Non-Traditional Vapor-Liquid-Solid Method for Bulk Synthesis of Semiconductor Nanowires. **2001**, 703, 1		

1928	Studies on the growth aspects of Bi2Sr2CaCu2O8+ whiskers by vapour liquid solid mechanism. **2001**, 357-360, 345-349	10
1927	Controlled growth of oriented amorphous silicon nanowires via a solid liquid solid (SLS) mechanism. **2001**, 9, 305-309	121
1926	Mechanism of oxide-assisted nucleation and growth of silicon nanostructures. **2001**, 16, 31-35	46
1925	Silica-assisted catalytic growth of oxide and nitride nanowires. **2001**, 333, 12-15	107
1924	Controlled growth of carbon nanotubes on graphite foil by chemical vapor deposition. **2001**, 335, 141-149	94
1923	Preparation and photoluminescence properties of amorphous silica nanowires. **2001**, 336, 53-56	151
1922	Growth of amorphous silicon nanowires. **2001**, 341, 523-528	40
1921	Catalytic growth of nanotube and nanobamboo structures of boron nitride. **2001**, 342, 492-496	70
1920	Solid liquid solid (SLS) growth of coaxial nanocables: silicon carbide sheathed with silicon oxide. **2001**, 345, 29-32	35
1919	Selective Co-catalysed growth of novel MgO fishbone fractal nanostructures. **2001**, 347, 337-343	121
1918	Radial growth dynamics of nanowires. **2001**, 222, 586-590	36
1917	Preparation and growth mechanism of TaCx whiskers. **2001**, 224, 244-250	43
1916	In situ catalytic growth of Al2O3 and Si nanowires. **2001**, 224, 117-121	51
1915	Synchrotron white-beam topographic studies of 2H SiC crystals. **2001**, 224, 269-273	2
1914	Vapour liquid solid (VLS) growth mechanism of superconducting Bi Sr Ca Cu O whiskers. **2001**, 229, 339-342	12
1913	Rapid growth of YBa2Cu3O7 films by metalorganic chemical vapor deposition using vapor liquid solid mode. **2001**, 229, 348-352	8
1912	Synthesis of thin Si whiskers (nanowires) using SiCl4. **2001**, 226, 185-191	56
1911	Investigations on InN whiskers grown by chemical vapour deposition. **2001**, 231, 68-74	47

1910	Production of SnO2 nanorods by redox reaction. **2001**, 233, 8-12		46
1909	Carbon monoxide-assisted growth of carbon nanotubes. **2001**, 342, 259-264		19
1908	Transmission electron microscopy of GaN columnar nanostructures grown by molecular beam epitaxy. **2001**, 43, 151-156		8
1907	Molecular electronics. Nanowires begin to shine. **2001**, 409, 32-3		79
1906	DNA replication. SOS polymerases. **2001**, 409, 33-4		7
1905	Production of SiC and Si3N4 whiskers in C+SiO2 solid mixtures. **2001**, 72, 326-331		69
1904	Copper silicide nanocrystals in silicon nanowires. **2001**, 36, 1407-1415		6
1903	MORPHOLOGICAL STABILITY OF A NANOWIRE DURING GROWTH PROCESS. **2001**, 15, 27-31		14
1902	Fabrication, structure, and transport properties of nanowires. **2001**, 27, 167-203		5
1901	Influences of Various Metal Elements on Field Aided Lateral Crystallization of Amorphous Silicon Films. **2001**, 40, 6177-6181		31
1900	Dependence of Morphology of SiO x Nanowires on the Supersaturation of Au-Si Alloy Liquid Droplets Formed on the Au-Coated Si Substrate. **2001**, 18, 1529-1532		4
1899	Si nanowires synthesized from silicon monoxide by laser ablation. **2001**, 19, 317		19
1898	Needle-Like SiC Nanorods. **2001**, 40, L1065-L1067		7
1897	Characterizations of Simultaneously Fabricated Silicon and Silicon Monoxide Nanowires. **2001**, 40, L134-L136		7
1896	Catalytic synthesis and photoluminescence of □Ga2O3 nanowires. *Applied Physics Letters*, **2001**, 78, 3202-3204	3.4	257
1895	Surface reactivity of Si nanowires. **2001**, 89, 6396-6399		37
1894	High reactivity of silicon suboxide clusters. **2001**, 64,		48
1893	Morphological, optical, and photoluminescent characteristics of GaAs1□Nx nanowhiskered thin films. *Applied Physics Letters*, **2001**, 79, 2555-2557	3.4	2

1892	Nanosprings. *Applied Physics Letters*, **2001**, 79, 1540-1542	3.4	125
1891	Bulk-quantity Si nanosphere chains prepared from semi-infinite length Si nanowires. **2001**, 89, 727-731		48
1890	Growth and electrical transport of germanium nanowires. **2001**, 90, 5747-5751		135
1889	Twinning in TiSi2-island catalyzed Si nanowires grown by gas-source molecular-beam epitaxy. *Applied Physics Letters*, **2002**, 81, 2451-2453	3.4	23
1888	Synthesis and Raman scattering study of rutile SnO2 nanowires. **2002**, 92, 2740-2742		84
1887	Imaging, structural, and chemical analysis of silicon nanowires. *Applied Physics Letters*, **2002**, 81, 2866-2868	3.4	22
1886	Self-assembly of spatially separated silicon structures by Si heteroepitaxy on Ni disilicide. **2002**, 91, 6077-6080		3
1885	Vapor□quid□olid tri-phase pulsed-laser epitaxy of RBa2Cu3O7□ single-crystal films. *Applied Physics Letters*, **2002**, 80, 61-63	3.4	55
1884	Template-catalyst-free growth of highly ordered boron nanowire arrays. *Applied Physics Letters*, **2002**, 80, 4226-4228	3.4	34
1883	Cu/SiO2□ nanowires with compositional modulation structure grown via thermal evaporation. *Applied Physics Letters*, **2002**, 81, 4425-4427	3.4	8
1882	Forming silicon carbon nitride crystals and silicon carbon nitride nanotubes by microwave plasma-enhanced chemical vapor deposition. *Applied Physics Letters*, **2002**, 80, 4638-4640	3.4	17
1881	Growth of Au-catalyzed ordered GaAs nanowire arrays by molecular-beam epitaxy. *Applied Physics Letters*, **2002**, 81, 5177-5179	3.4	145
1880	Dispersion, refinement, and manipulation of single silicon nanowires. *Applied Physics Letters*, **2002**, 80, 1812-1814	3.4	5
1879	One-phonon Raman scattering studies of chains of crystalline-Si nanospheres. **2002**, 91, 3232-3235		31
1878	Synthesis of large-area germanium cone-arrays for application in electron field emission. *Applied Physics Letters*, **2002**, 81, 3281-3283	3.4	14
1877	Compartmentalized CNx nanotubes: Chemistry, morphology, and growth. **2002**, 116, 8966-8972		130
1876	Zinc oxide nanowires on carbon nanotubes. *Applied Physics Letters*, **2002**, 81, 2085-2087	3.4	100
1875	SYNTHESIS OF AMORPHOUS SiOx NANOSTRUCTURES. **2002**, 01, 149-157		9

1874	Aligned silica nanofibres. **2002**, 14, L473-L477	14
1873	Nanowire Composite Thermoelectric Devices. **2002**, 7	1
1872	Characterization of plasma-enhanced chemical vapor deposition carbon nanotubes by Auger electron spectroscopy. **2002**, 20, 116	66
1871	Template-directed vapor□quid□olid growth of silicon nanowires. **2002**, 20, 389	64
1870	THE GROWTH OF ALIGNED CARBON NANOTUBES ON FeNiCo CATALYST FILMS. **2002**, 01, 79-85	
1869	Self-organized Si Nanowires with Room-Temperature Photo-Emission. **2002**, 728, 3341	1
1868	Equilibrium Analysis of Lattice-Mismatched Nanowire Heterostructures. **2002**, 737, 262	5
1867	Direct Synthesis of Silicon Nanowires using Silane and Molten Gallium. **2002**, 737, 623	
1866	Quantitative V-L-S Growth Model and Experiments of Fe Catalyzed Si Nanowire Formation. **2002**, 737, 629	4
1865	Imaging, Structural and Chemical Analysis of Silicon Nanowires. **2002**, 737, 635	1
1864	Polymorphous silicon nanowires synthesized by plasma-enhanced chemical vapor deposition. **2002**, 737, 742	
1863	The Effects of Crystallinity and Catalyst Dynamics on Boron Carbide Nanospring Formation. **2002**, 739, 521	0
1862	Heterointerfaces in III-V semiconductor nanowhiskers.	
1861	Fiery spirits and supporting programs of action: keys to exploration and exploitation of open technologies. **2002**, 4, 319	12
1860	Molten gallium as a catalyst for the large-scale growth of highly aligned silica nanowires. **2002**, 124, 1817-22	317
1859	Catalytic Growth of Large-Scale Single-Crystal CdS Nanowires by Physical Evaporation and Their Photoluminescence. **2002**, 14, 1773-1777	203
1858	Oxide-Assisted Catalytic Growth of MgO Nanowires with Uniform Diameter Distribution. **2002**, 106, 7449-745286	
1857	Gallium Oxide Nanoribbons and Nanosheets. **2002**, 106, 902-904	243

1856	Synthesis of Ga2O3 Nanowires by Laser Ablation. **2002**, 106, 9536-9539		92
1855	Lithium-Assisted Self-Assembly of Aluminum Carbide Nanowires and Nanoribbons. **2002**, 2, 105-108		39
1854	Silicon Nanowires Wrapped with Au Film. **2002**, 106, 6980-6984		25
1853	Investigation on the Growth of Boron Carbide Nanowires. **2002**, 14, 4403-4407		60
1852	Block-by-Block Growth of Single-Crystalline Si/SiGe Superlattice Nanowires. **2002**, 2, 83-86		853
1851	Tungsten Oxide Nanowires on Tungsten Substrates. **2002**, 2, 849-851		260
1850	Formation of ZnO nanostructures by a simple way of thermal evaporation. *Applied Physics Letters*, **2002**, 81, 757-759	3.4	837
1849	CuO Nanowires Can Be Synthesized by Heating Copper Substrates in Air. **2002**, 2, 1333-1338		847
1848	A Simple Method To Synthesize Nanowires. **2002**, 14, 3564-3568		173
1847	Growth and structure evolution of novel tin oxide diskettes. **2002**, 124, 8673-80		303
1846	Lead oxide nanobelts and phase transformation induced by electron beam irradiation. *Applied Physics Letters*, **2002**, 80, 309-311	3.4	148
1845	Structure-directing coordination template effect of ethylenediamine in formations of ZnS and ZnSe nanocrystallites via solvothermal route. **2002**, 41, 869-73		275
1844	Nucleation and growth of germanium nanowires seeded by organic monolayer-coated gold nanocrystals. **2002**, 124, 1424-9		259
1843	Catalyst-Free Growth and Characterization of ZnO Nanorods. **2002**, 106, 9546-9551		364
1842	Self-Assembled Nanowire−Nanoribbon Junction Arrays of ZnO. **2002**, 106, 12653-12658		311
1841	Synthesis of Uniform Hexagonal Prismatic ZnO Whiskers. **2002**, 14, 1216-1219		260
1840	Growth of Silicon Nanowires by Heating Si Substrate. **2002**, 19, 240-242		16
1839	Silicon fiber formed on silicon without using a gas process. **2002**, 91, 10224		

1838	Metalorganic vapor-phase epitaxial growth of vertically well-aligned ZnO nanorods. *Applied Physics Letters*, **2002**, 80, 4232-4234	3.4	1014
1837	Modeling Growth Directional Features of Silicon Nanowires Obtained Using SiO. **2002**, 719, 8381		
1836	Synthesis and characterization of Sb2Se3 nanorods. **2002**, 37, 495-502		69
1835	Synthesis of crystalline and amorphous germanium nanorods. **2002**, 37, 2179-2183		6
1834	Inorganic semiconductor nanowires: rational growth, assembly, and novel properties. **2002**, 8, 1260-8		344
1833	AlGaN Nanocolumns Grown by Molecular Beam Epitaxy: Optical and Structural Characterization. **2002**, 192, 60-66		50
1832	Metal Silicide/Silicon Nanowires from Metal Vapor Vacuum Arc Implantation. **2002**, 14, 218-221		39
1831	Synthesis and Characterization of Crystalline Ag2Se Nanowires Through a Template-Engaged Reaction at Room Temperature. **2002**, 12, 679-686		131
1830	The role of nucleation and heteroepitaxial processes in nanostructuring of Si. **2002**, 31, 466-471		7
1829	Synthesis and characterization of several one-dimensional nanomaterials. **2002**, 33, 523-34		16
1828	Fabrication and properties of ultrasmall Si wire arrays with circuits by vapor□quid□olid growth. **2002**, 97-98, 709-715		35
1827	Chemically vapor deposited Si nanowires nucleated by self-assembled Ti islands on patterned and unpatterned Si substrates. **2002**, 13, 995-998		16
1826	Fabrication of semiconducting ZnO nanobelts using a halide source and their photoluminescence properties. **2002**, 299, 276-281		88
1825	Atomic force microscopy imaging and cutting of beaded carbon nanotubes deposited on glass. **2002**, 33, 900-904		7
1824	Nanosized ZnO whiskers formed on Al□nSi□e alloy by directed melt oxidation process. **2002**, 123, 191-193		10
1823	Nucleation and growth of crystalline diamond particles on silicon tips. **2002**, 47, S159-S168		3
1822	Application of energy-filtering transmission electron microscopy to characterize amorphous boron nanowires. **2002**, 244, 123-128		9
1821	Growth mechanism of single crystal NaFe4P12 nanowires. **2002**, 234, 679-682		6

1820	Synthesis and characterisation of boron carbide whiskers and thin elongated platelets. **2002**, 236, 466-476	43
1819	Nucleation behavior of silicon carbide whiskers grown by chemical vapor deposition. **2002**, 236, 171-175	11
1818	Bi20TiO32 nanocones prepared from Bi□TiO□ mixture by metalorganic decomposition method. **2002**, 240, 489-494	17
1817	Growth of CdS nanowires by physical vapor deposition. **2002**, 242, 309-312	45
1816	A new phenomenon in the floating-zone (FZ) growth of Si nanowires. **2002**, 246, 64-68	11
1815	Microscopic mechanisms for the catalyst assisted growth of single-wall carbon nanotubes. **2002**, 40, 1649-1663	110
1814	Effective growth of boron nitride nanotubes. **2002**, 356, 254-258	25
1813	Cone-shaped hexagonal 6H□SiC nanorods. **2002**, 356, 325-330	37
1812	Catalytic growth and photoluminescence properties of semiconductor single-crystal ZnS nanowires. **2002**, 357, 314-318	274
1811	Temperature dependence of morphology and diameter of silicon nanowires synthesized by laser ablation. **2002**, 358, 396-400	13
1810	One-dimensional growth mechanism of amorphous boron nanowires. **2002**, 359, 273-277	23
1809	A facile vapor□solid synthetic route to Sb2O3 fibrils and tubules. **2002**, 363, 34-38	52
1808	Intensive green light emission from MgO nanobelts. **2002**, 363, 293-297	80
1807	Ultrafine and uniform silicon nanowires grown with zeolites. **2002**, 365, 22-26	39
1806	Selective synthesis and characterization of CdSe nanorods and fractal nanocrystals. **2002**, 41, 5249-54	160
1805	Novel inorganic-organic-layered structures: crystallographic understanding of both phase and morphology formations of one-dimensional CdE (E = S, Se, Te) nanorods in ethylenediamine. **2003**, 42, 2331-41	156
1804	Laser-Induced Fano Resonance Scattering in Silicon Nanowires. **2003**, 3, 627-631	175
1803	Gold catalyzed growth of silicon nanowires by plasma enhanced chemical vapor deposition. **2003**, 94, 6005-6012	225

1802	Preparation and characterization of oriented silica nanowires. **2003**, 128, 287-290	36
1801	Controlled growth of silicon carbide nanorods by rapid thermal process and their field emission properties. **2003**, 379, 155-161	45
1800	ReductionBoronation route to chromium boride (CrB) nanorods. **2003**, 381, 194-198	27
1799	Preparation and structure of magnesium oxide coated indium nanowires. **2003**, 382, 374-380	11
1798	Structure- and size-controlled ultrafine ZnS nanowires. **2003**, 382, 434-438	95
1797	Nucleation and growth of SWNT: TEM studies of the role of the catalyst. **2003**, 4, 975-991	21
1796	A simple method to synthesize gallium oxide nanosheets and nanobelts. **2003**, 378, 660-664	54
1795	Synthesis of beta gallium oxide nano-ribbons from gallium arsenide by plasma immersion ion implantation and rapid thermal annealing. **2003**, 382, 573-577	15
1794	Array-orderly single crystalline silicon nano-wires. **2003**, 367, 528-532	37
1793	Amorphous feather-like boron nanowires. **2003**, 367, 495-499	21
1792	Bulk-quantity synthesis and self-catalytic VLS growth of SnO2 nanowires by lower-temperature evaporation. **2003**, 369, 16-20	152
1791	Boron nanowires synthesized by laser ablation at high temperature. **2003**, 370, 825-828	62
1790	Catalytic synthesis of aluminum borate nanowires. **2003**, 373, 626-629	37
1789	Silicon quantum-wires arrays synthesized by chemical vapor deposition and its micro-structural properties. **2003**, 374, 542-547	29
1788	Rational growth of highly oriented amorphous silicon nanowire films. **2003**, 374, 626-630	22
1787	A simple large-scale synthesis of coaxial nanocables: silicon carbide sheathed with silicon oxide. **2003**, 375, 269-272	22
1786	Catalytic growth of CdS nanobelts and nanowires on tungsten substrates. **2003**, 376, 653-658	105
1785	Temperature dependence of the quality of silicon nanowires produced over a titania-supported gold catalyst. **2003**, 377, 377-383	8

1784	Doing chemistry on low-dimensional silicon surfaces: silicon nanowires as platforms and templates. **2003**, 246, 229-246	12
1783	Silicon nanowires grown on a pre-annealed Si substrate. **2003**, 247, 13-16	30
1782	Synthesis and characterization of Cu/SiO2 composite nanowires. **2003**, 252, 167-173	7
1781	Preparation of Bi2S3 nanowhiskers and their morphologies. **2003**, 252, 505-510	46
1780	Fabrication and characterization of hexagonal wire-like ZnO. **2003**, 253, 357-360	14
1779	Growth characteristics of silicon nanowires synthesized by vapor–liquid–solid growth in nanoporous alumina templates. **2003**, 254, 14-22	152
1778	Zinc sulfide nanocrystals on carbon nanotubes. **2003**, 255, 114-118	36
1777	Synthesis of BN nanobamboos and nanotubes from barium metaborate. **2003**, 256, 67-72	12
1776	Two-step evaporation process for formation of aligned zinc oxide nanowires. **2003**, 258, 342-348	60
1775	Simultaneous gold deposition and formation of silicon nanowire arrays. **2003**, 558, 35-39	77
1774	Hydrothermal growth and characterization of La(OH)3 nanorods and nanocables with Ni(OH)2 coating. **2003**, 64, 607-610	8
1773	Titanium-induced germanium nanocones synthesized by vacuum electron-beam evaporation: growth mechanism and morphology evolution. **2003**, 125, 503-507	12
1772	Synthesis of ZnS nanorods by annealing precursor ZnS nanoparticles in NaCl flux. **2003**, 125, 455-458	54
1771	The synthesis of silica nanowire arrays. **2003**, 125, 629-631	39
1770	Catalytic synthesis of single-crystalline gallium nitride nanobelts. **2003**, 126, 315-318	17
1769	Synthesis and characterization of monoclinic ZrO2 nanorods by a novel and simple precursor thermal decomposition approach. **2003**, 127, 639-643	47
1768	Crystallization and disappearance of defects of the annealed silicon nanowires. **2003**, 66, 65-69	21
1767	A new era of crystallization: advances in polysilicon crystallization and crystal engineering. **2003**, 208-209, 250-262	82

1766	SiC nanofibers grown by high power microwave plasma chemical vapor deposition. **2003**, 212-213, 378-382		27
1765	Catalytic growth of Ga2O3 nanowires by physical evaporation and their photoluminescence properties. **2003**, 289, 243-249		85
1764	Preparation and properties of GaN nanostructures by post-nitridation technique. **2003**, 334, 287-291		8
1763	Nano-dendrites in NaFe4P12 nano-wires synthesized by hydrothermal method. **2003**, 23, 475-478		1
1762	Fabrication of Single-Crystal □-Al2O3 Nanorods by Displacement Reactions. **2003**, 86, 1385-1388		17
1761	The 'right' size in nanobiotechnology. **2003**, 21, 1161-5		667
1760	Fabrication of high-Tc LaBa2Cu3Oy thin films with vapor□quid□olid growth mode. **2003**, 392-396, 1286-1290		3
1759	Copper-catalyzed ZnO nanowires on silicon (100) grown by vapor□quid□olid process. **2003**, 247, 357-362		231
1758	Nucleation of Ti-catalyzed self-assembled kinked Si nanowires grown by gas source MBE. **2003**, 251, 662-665		3
1757	Shape-selected synthesis of nanocrystalline SnS in different alkaline media. **2003**, 252, 581-586		36
1756	Microscopy Study of the Growth Process and Structural Features of Closely Packed Silica Nanowires. **2003**, 107, 13029-13032		27
1755	Fabrication and microstructure analysis on zinc oxide nanotubes. **2003**, 5, 115-115		77
1754	Synthesis, Microstructure, and Growth Mechanism of Dendrite ZnO Nanowires. **2003**, 107, 8289-8293		100
1753	Properties of MOCVD Deposits Using Novel Sn(II) Neo-Pentoxide Precursors. **2003**, 15, 765-775		20
1752	Thermal conductivity of Si/SiGe superlattice nanowires. *Applied Physics Letters*, **2003**, 83, 3186-3188	3.4	317
1751	Temperature Dependence of Morphologies of Aligned Silicon Oxide Nanowire Assemblies Catalyzed by Molten Gallium. **2003**, 3, 1279-1284		111
1750	Metalorganic vapor-phase epitaxial growth and characterization of vertical InP nanowires. *Applied Physics Letters*, **2003**, 83, 3371-3373	3.4	80
1749	Large-scale synthesis of tungsten oxide nanowires with high aspect ratio. **2003**, 42, 921-4		128

1748	Temperature-controlled growth of □-Al2O3 nanobelts and nanosheets. **2003**, 13, 3040-3043		99
1747	Fabrication of Titania Nanofibers by Electrospinning. **2003**, 3, 555-560		1090
1746	Synthesis and Characterization of PbSe Quantum Wires, Multipods, Quantum Rods, and Cubes. **2003**, 3, 857-862		189
1745	Silicon-silica nanowires, nanotubes, and biaxial nanowires: inside, outside, and side-by-side growth of silicon versus silica on zeolite. **2003**, 42, 6723-8		62
1744	Synthesis of InP nanotubes. **2003**, 125, 3440-1		123
1743	Microstructure and Growth Model of Periodic Spindle-Unit BN Nanotubes by Nitriding Fe-B Nanoparticles with Nitrogen/Ammonia Mixture. **2003**, 107, 11316-11320		34
1742	Ammonothermal Crystal Growth of Germanium and Its Alloys: Synthesis of a Hollow Metallic Crystal. **2003**, 3, 121-124		10
1741	Silicon Carbide Nanosprings. **2003**, 3, 983-987		138
1740	Thermal Reduction Route to the Fabrication of Coaxial Zn/ZnO Nanocables and ZnO Nanotubes. **2003**, 15, 305-308		286
1739	Inorganic nanowires. **2003**, 31, 5-147		654
1738	Synthesis and characterization of ZnO nanorods. **2003**, 252, 213-218		21
1737	Evaluation of size and its distribution of InP nanowires using small angle X-ray scattering and X-ray diffraction at the grazing condition.		
1736	Analytical TEM observation of Au and Ir deposited on rutile TiO2. **2003**, 52, 119-24		30
1735	Crystallographic Orientation-Aligned ZnO Nanorods Grown by a Tin Catalyst. **2003**, 3, 1315-1320		355
1734	Epitaxial Directional Growth of Indium-Doped Tin Oxide Nanowire Arrays. **2003**, 3, 925-928		128
1733	Synthesis and characterization of ZnS bicrystal nanoribbons. *Applied Physics Letters*, **2003**, 83, 2244-2246	3.4	46
1732	Low-field electron emission of self-organized laser-produced micro-tip arrays with incorporated carbon nanotubes. **2003**, 12, 1705-1709		2
1731	ZnO nanowires formed on tungsten substrates and their electron field emission properties. *Applied Physics Letters*, **2003**, 82, 1096-1098	3.4	171

1730	Growth and optical properties of single-crystal tubular ZnO whiskers. *Applied Physics Letters*, **2003**, 82, 1401-1403	3.4	256
1729	Fabrication of ultrathin ZnO nanowires and their photoluminescence properties.		
1728	Nucleation of single-walled carbon nanotubes. **2003**, 90, 145501		121
1727	High-Throughput Screening of Flux Materials for Single Crystal Growth by Combinatorial Pulsed Laser Deposition. **2003**, 804, 284		1
1726	Preparation of Tungsten Bronze Nanowires. **2003**, 789, 246		
1725	Formation and Properties of Silicon/Silicide/Oxide Nanochains. **2003**, 789, 69		
1724	Shape-Controllable Synthesis of Indium Oxide Structures: Nanopyramids and Nanorods. **2003**, 18, 2793-2798		21
1723	Two-step oxygen injection process for growing ZnO nanorods. **2003**, 18, 2837-2844		46
1722	Group III- and Group IV-Nitride Nanorods and Nanowires. **2003**, 257-315		9
1721	Monocrystalline InP Nanotubes. **2003**, 789, 127		
1720	Neuron size Si probe array fabricated on integrated circuits for multichannel electrode.		3
1719	Characterization of GaN quantum discs embedded in AlxGa1⊠N nanocolumns grown by molecular beam epitaxy. **2003**, 68,		106
1718	Liquid gallium ball/crystalline silicon polyhedrons/aligned silicon oxide nanowires sandwich structure: An interesting nanowire growth route. *Applied Physics Letters*, **2003**, 83, 3159-3161	3.4	32
1717	Oxide-assisted growth and characterization of Ge/SiOx nanocables. *Applied Physics Letters*, **2003**, 83, 2241-2243	3.4	42
1716	ZnSe nanowires epitaxially grown on GaP(111) substrates by molecular-beam epitaxy. *Applied Physics Letters*, **2003**, 83, 2665-2667	3.4	97
1715	Thermal stability of Ti-catalyzed Si nanowires. *Applied Physics Letters*, **2003**, 82, 263-265	3.4	33
1714	Single-electron tunneling in InP nanowires. *Applied Physics Letters*, **2003**, 83, 344-346	3.4	133
1713	Growth, branching, and kinking of molecular-beam epitaxial <110> GaAs nanowires. *Applied Physics Letters*, **2003**, 83, 3368-3370	3.4	102

1712	Low-temperature growth and Raman scattering study of vertically aligned ZnO nanowires on Si substrate. *Applied Physics Letters*, **2003**, 83, 4631-4633	3.4	176
1711	Thermodynamic argument about SnO2 nanoribbon growth. *Applied Physics Letters*, **2003**, 83, 635-637	3.4	105
1710	Catalyst-free GaAs nanowires grown by MBE.		
1709	Low Temperature Gas Phase Synthesis of Germanium Nanowires. **2003**, 789, 181		
1708	Fabrication of Cobalt Silicide Nanowire Contacts to Silicon Nanowires. **2003**, 150, G577		17
1707	Low-temperature growth of ZnO nanowires. **2003**, 18, 714-718		29
1706	Synthesis of aligned bamboo-like carbon nanotubes using radio frequency magnetron sputtering. **2003**, 21, 1437		16
1705	CMOS Signal processing circuits on Si (111) for neural activity image-recording with epitaxially grown micro-Si probes.		
1704	Large-scale synthesis of single-crystalline Te nanobelts by a low-temperature chemical vapour deposition route. **2003**, 14, 983-986		37
1703	Single-Walled Carbon Nanotubes for Nanoelectronics. **2003**, 293-343		2
1702	Optical and structural properties of InP nanowires grown under vapor-liquid-solid mechanism by metal organic vapor phase epitaxy.		1
1701	Crystallization of amorphous silicon films by Cu-field aided rapid thermal annealing. **2003**, 21, 2076		
1700	Synthesis of SnO2nanobelts and their structural characterization. **2003**, 36, L21-L24		19
1699	Preparation and Characterization of GaN Nanowires. **2003**, 20, 568-570		2
1698	Diameter Modification of Si Nanowires via Catalyst Size. **2003**, 20, 700-702		8
1697	Smart chip with selective micro-probes on Si(111) IC chips for detecting nerve potential. **2003**, 5062, 352		
1696	Technology of Polysilicon Thin-Film Transistors. **2003**,		
1695	Growth and Characterization of ZnO Nanowires. **2003**, 776, 791		1

1694	Whiskers And Dendrites. **2003**,		
1693	Effect of Catalysts on Carbon Nanotube Growth on Silicon Substrates in Chemical Vapor Deposition. **2004**, 25, 339-344		2
1692	Preparation and characterization of highly ordered vanadium□iron cyanide molecular magnet nanowire arrays. **2004**, 15, 27-31		19
1691	Electroluminescence from silicon nanowires. **2004**, 15, 1848-1850		29
1690	Straight ZnS nanobelts with wurtzite structure synthesized by the vapour phase transport process and their crystallization and photoluminescence properties. **2004**, 15, 581-585		18
1689	Growth of Si wires on a Si(111) substrate under ultrahigh vacuum condition. **2004**, 22, 237		11
1688	Formation of density controlled Cr-filled carbon nanotubes on Au□Cr solid solution. **2004**, 22, 2792		1
1687	Role of thin Fe catalyst in the synthesis of double- and single-wall carbon nanotubes via microwave chemical vapor deposition. *Applied Physics Letters*, **2004**, 85, 2601-2603	3.4	85
1686	Controlling dissociative adsorption for effective growth of carbon nanotubes. *Applied Physics Letters*, **2004**, 85, 3265-3267	3.4	31
1685	Growth mechanism for single-crystalline thin film of InGaO3(ZnO)5 by reactive solid-phase epitaxy. **2004**, 95, 5532-5539		54
1684	Optical and electrical transport properties in silicon carbide nanowires. *Applied Physics Letters*, **2004**, 85, 1256-1258	3.4	191
1683	Mechanical properties of nanosprings. **2004**, 92, 175502		73
1682	Hexagonal-to-cubic phase transformation in GaN nanowires by Ga+ implantation. *Applied Physics Letters*, **2004**, 84, 5473-5475	3.4	31
1681	Two-dimensional extremely thin single-crystalline □-Si3N4 microribbons. *Applied Physics Letters*, **2004**, 84, 804-806	3.4	25
1680	Self-assembled growth and optical emission of silver-capped silicon nanowires. *Applied Physics Letters*, **2004**, 84, 3867-3869	3.4	41
1679	Self-assembly of carbon nanohelices: Characteristics and field electron emission properties. *Applied Physics Letters*, **2004**, 84, 2646-2648	3.4	49
1678	Photoluminescence of GaAs nanowhiskers grown on Si substrate. *Applied Physics Letters*, **2004**, 85, 6407-6408	3.4	26
1677	Structural and electrical properties of trimethylboron-doped silicon nanowires. *Applied Physics Letters*, **2004**, 85, 3101-3103	3.4	116

1676	Cold wall chemical vapor deposition of single walled carbon nanotubes. **2004**, 22, 747		12
1675	High-quality CdS nanoribbons with lasing cavity. *Applied Physics Letters*, **2004**, 85, 3241-3243	3.4	102
1674	Nucleation and growth processes of silicon nanowires. **2004**, 832, 353		
1673	Ultrafast Laser Deposition of Semiconductor Nanowires. **2004**, 850, 147		
1672	Effect of Carrier Gas on the Growth Rate, Growth Density, and Structure of Carbon Nanotubes. **2004**, 818, 84		4
1671	Size Control and Phonon Confinement of Silicon Nanowires Synthesized by Laser Ablation. **2004**, 832, 370		
1670	Templated Formation of Ordered Metallic Nano-Particle Arrays. **2004**, 818, 217		1
1669	Molecular dynamics study of the catalyst particle size dependence on carbon nanotube growth. **2004**, 121, 2775-9		148
1668	Solution Phase Synthesis of Semiconductor Nanowires. **2004**, 848, 394		
1667	TEM investigation of nucleation and initial growth of ZnSe nanowires. **2004**, 838, 97		
1666	Influence of oxygen partial pressure on the quality of nanowires for energetic photon detection applications. **2004**, 850, 110		
1665	Complex Diameter Modulations in Silicon Carbide Nanowire Growth. **2004**, 832, 27		
1664	Optical activation of Si nanowires using Er-doped sol-gel derived silica. **2004**, 832, 87		
1663	Neural recording chip with penetrating Si microprobe electrode array by selective vapor-liquid-solid growth method. **2004**, 2004, 2066-9		1
1662	Analysis of Silicon Nanowires Grown by Combining SiO Evaporation with the VLS Mechanism. **2004**, 151, G472		85
1661	Evolution of ZnO nanowires, nanorods, and nanosheets with an oxygen-assisted carbothermal reduction process. **2004**, 848, 486		
1660	Dependence of Silicon Carbide Product Morphology on the Degree of Mechanical Activation. **2004**, 85, 709-711		8
1659	Liquid-Phase Growth of Small Crystals for Seeding □-SiAlON Ceramics. **2004**, 87, 1040-1046		29

1658	Underwater and water-assisted laser processing: Part 2Etching, cutting and rarely used methods. **2004**, 41, 329-352	168
1657	Synthesis of branched 'nanotrees' by controlled seeding of multiple branching events. **2004**, 3, 380-4	544
1656	Epitaxial growth of InP nanowires on germanium. **2004**, 3, 769-73	168
1655	Materials science: a 'bed of nails' on silicon. **2004**, 432, 450-1	14
1654	Regenerative medicine: Prometheus unbound. **2004**, 432, 451-3	15
1653	Kinetic model of the growth of nanodimensional whiskers by the vapor-liquid-crystal mechanism. **2004**, 30, 682-686	27
1652	Peculiarities of the MBE growth of nanowhiskers on GaAs(100) substrates. **2004**, 30, 765-768	1
1651	Properties of GaAs nanowhiskers grown on a GaAs(111)B surface using a combined technique. **2004** , 38, 1217-1220	6
1650	Selective vapor-liquid-solid epitaxial growth of micro-Si probe electrode arrays with on-chip MOSFETs on Si (111) substrates. **2004**, 51, 415-420	47
1649	SEMICONDUCTOR NANOWIRES AND NANOTUBES. **2004**, 34, 83-122	1210
1648	Magnetron sputtering synthesis of large area well-ordered boron nanowire arrays. **2004**, 47, 403	1
1647	Large-scale boron nanowire nanojunctions and their highly-oriented arrays. **2004**, 47, 621	1
1646	Synthesis and characterization of high-quality In2O3 nanobelts via catalyst-free growth using a simple physical vapor deposition at low temperature. **2004**, 384, 246-250	119
1645	Synthesis of Ga2O3 chains with closely spaced knots connected by nanowires. **2004**, 267, 538-542	19
1644	A growth mechanism of Si nanowires synthesized by gas condensation of SiO without any catalyst. **2004**, 269, 207-212	4
1643	Optical and structural studies of GaN 3D structures selectively grown by MOCVD. **2004**, 272, 466-474	7
1642	The effects of oxidative environments on the synthesis of CuO nanowires on Cu substrates. **2004**, 36, 31-38	49
1641	Growth mechanism and characterization of zinc oxide microcages. **2004**, 130, 517-521	73

1640	Growth of platelike and branched single-crystalline Si3N4 whiskers. **2004**, 132, 263-268	30
1639	Synthesis of silicon nanowires and novel nano-dendrite structures. **2004**, 6, 421-425	6
1638	Large-scale fast production of amorphous Si-Al-O nanowires under ambient conditions. **2004**, 78, 295-298	4
1637	Growth of amorphous SiO2 nanowires on Si using a Pd/Au thin film as a catalyst. **2004**, 79, 461-467	60
1636	Thin-film polycrystalline Si solar cells on foreign substrates: film formation at intermediate temperatures (700–1300 °C). **2004**, 79, 469-480	31
1635	Morphology of Si nanowires fabricated by laser ablation using gold catalysts. **2004**, 79, 895-897	11
1634	Catalyst-free growth of single-crystalline alumina nanowire arrays. **2004**, 79, 1721-1724	43
1633	ZnO nanotips grown on Si substrates by metal-organic chemical-vapor deposition. **2004**, 33, 654-657	18
1632	Synthesis and characterization of well-aligned quantum silicon nanowires arrays. **2004**, 35, 179-184	15
1631	On the non-monotonic lateral size dependence of the height of GaAs nanowhiskers grown by molecular beam epitaxy at high temperature. **2004**, 241, R30-R33	41
1630	Diamond Nanorods from Carbon Nanotubes. **2004**, 16, 1849-1853	101
1629	Nanowires for surface enlargement of narrow-bore fused-silica tubing. **2004**, 25, 3660-8	3
1628	Nanometric superlattices: non-lithographic fabrication, materials, and prospects. **2004**, 43, 103-138	163
1627	Nanocrystalline materials and coatings. **2004**, 45, 1-88	680
1626	Heteroepitaxial metalorganic vapor phase epitaxial growth of InP nanowires on GaP(111)B. **2004**, 464-465, 248-250	11
1625	Positioning growth of ZnO whiskers/dots on sapphire substrates. **2004**, 464-465, 273-276	8
1624	Vapor–liquid–solid growth of vertically aligned InP nanowires by metalorganic vapor phase epitaxy. **2004**, 464-465, 244-247	47
1623	Oxidation of a ZnS nanobelt into a ZnO nanotwin belt or double single-crystalline ZnO nanobelts. **2004**, 129, 233-238	37

1622	Selective area growth of ZnO crystals by electric current heating. **2004**, 172, 353-355	9
1621	A LEEM study of bamboo-like growth of Ag crystals on Si(001) surfaces. **2004**, 569, 142-148	9
1620	Preparation of large-scale cupric oxide nanowires by thermal evaporation method. **2004**, 260, 130-135	148
1619	Synthesis of ZnO nanoparticles on Si substrates using a ZnS source. **2004**, 260, 309-315	33
1618	Selective growth of ZnO nanorods on pre-coated ZnO buffer layer. **2004**, 261, 520-525	38
1617	Synthesis and characterization of crystalline gallium nitride nanoribbon rings. **2004**, 263, 25-29	34
1616	Synthesis of gallium borate nanowires. **2004**, 263, 504-509	11
1615	Large-scale synthesis of ZnS nanosheets by the evaporation of ZnS nanopowders. **2004**, 263, 263-268	45
1614	Preparation of well-aligned ZnO whiskers on glass substrate by atmospheric MOCVD. **2004**, 263, 119-124	88
1613	Scaffolding and filling process: a new type of 2D crystal growth. **2004**, 263, 237-242	35
1612	Effect of a graphitic structure on the stability of FCC iron. **2004**, 267, 738-744	11
1611	Application of elevated magnetic fields during growth of BiSrCaCuO superconducting whiskers and studies of growth defects for better understanding of the growth mechanism. **2004**, 269, 518-534	12
1610	Free-standing and vertically aligned InP nanowires grown by metalorganic vapor phase epitaxy. **2004**, 21, 583-587	22
1609	Tiny SiO2 nano-wires synthesized on Si (111) wafer. **2004**, 23, 1-4	16
1608	Structural and optical properties of vertically aligned InP nanowires grown by metal organic vapor phase epitaxy. **2004**, 23, 305-308	4
1607	Site-controlled InP nanowires grown on patterned Si substrates. **2004**, 24, 133-137	28
1606	Tiny silicon nano-wires synthesis on silicon wafers. **2004**, 24, 328-332	5
1605	Fabrication, structural characterization and optical properties of semiconducting gallium oxide nanobelts. **2004**, 322, 363-368	37

1604	The iron-catalyzed synthesis of carbon microfibers from methane: the influence of growth conditions on conversion, selectivity, morphology and structure of the fibers. **2004**, 274, 71-77	23
1603	Synthesis of silicon carbide nanorods by catalyst-assisted pyrolysis of polymeric precursor. **2004**, 383, 441-444	127
1602	Study of the growth of boron nanowires synthesized by laser ablation. **2004**, 385, 177-183	17
1601	Indium-doped zinc oxide nanobelts. **2004**, 387, 466-470	190
1600	The role of the catalytic particle temperature gradient for SWNT growth from small particles. **2004**, 393, 309-313	76
1599	Growth of aligned ZnO nanorod arrays by catalyst-free pulsed laser deposition methods. **2004**, 396, 21-26	377
1598	Polymer-assisted synthesis of aligned amorphous silicon nanowires and their core/shell structures with Au nanoparticles. **2004**, 397, 128-132	1
1597	Phase controlled synthesis of ZnS nanobelts: zinc blende vs wurtzite. **2004**, 398, 32-36	103
1596	Synthesis of carbon nanotubes and nano-necklaces by thermal plasma process. **2004**, 42, 2543-2549	54
1595	Effect of catalysis on coal to nanotube in thermal plasma. **2004**, 89, 233-236	22
1594	.	
1593	Three-dimensional multichannel Si microprobe electrode array chip for analysis of the nervous system. **2004**,	3
1592	Large-scale synthesis of high-purity, one-dimensional □-Al2O3 structures. **2004**, 14, 3058-3062	6
1591	Formation of MgO nanorods in the reaction zone of a Mg□uO powder mixture by in-situ reaction. **2004**, 84, 69-80	4
1590	Microwave-assisted synthesis of one-dimensional nanostructures. **2004**, 19, 1649-1655	34
1589	Catalytic Growth of Silicon Nanowires Assisted by Laser Ablation. **2004**, 108, 846-852	78
1588	Size Control and Associated Photophysics of Erbium-Doped Silicon Nanowires. **2004**, 108, 2497-2500	11
1587	Nanofibrous Calcite Synthesized via a Solution□Precursor□Solid Mechanism. **2004**, 16, 2355-2362	95

1586	Carbon-Assisted Growth of SiOx Nanowires. **2004**, 108, 17032-17041		66
1585	PbSe Nanocrystal Assemblies: Synthesis and Structural, Optical, and Electrical Characterization. **2004**, 4, 159-165		103
1584	Fabrication of super-sharp nanowire atomic force microscope probes using a field emission induced growth technique. **2004**, 75, 3248-3255		24
1583	Catalyst-Assisted Vapor□Liquid□Solid Growth of Single-Crystal CdS Nanobelts and Their Luminescence Properties. **2004**, 108, 20045-20049		94
1582	Solution-Based Straight and Branched CdSe Nanowires. **2004**, 16, 5260-5272		206
1581	Growth of Ternary Oxide Nanowires by Gold-Catalyzed Vapor-Phase Evaporation. **2004**, 108, 8249-8253		68
1580	Optical Properties of Rectangular Cross-sectional ZnS Nanowires. **2004**, 4, 1663-1668		185
1579	Synthesis of alpha-MoTe2 nanorods via annealing Te-seeded amorphous MoTe2 particles. **2004**, 43, 6061-6		15
1578	From Si Source Gas Directly to Positioned, Electrically Contacted Si Nanowires: The Self-Assembling □Grow-in-Place□Approach. **2004**, 4, 2085-2089		53
1577	Au-Mediated Growth of Wurtzite ZnS Nanobelts, Nanosheets, and Nanorods via Thermal Evaporation. **2004**, 108, 9728-9733		77
1576	Study of CNT synthesis mechanism by in-situ spectroscopy. **2004**, 13, 999-1003		2
1575	Silicon nanowhiskers grown on <111>Si substrates by molecular-beam epitaxy. *Applied Physics Letters*, **2004**, 84, 4968-4970	3.4	278
1574	Substrate Atomic-Termination-Induced Anisotropic Growth of ZnO Nanowires/Nanorods by the VLS Process. **2004**, 108, 7534-7537		185
1573	Structure Analysis of Nanowires and Nanobelts by Transmission Electron Microscopy. **2004**, 108, 12280-12291		158
1572	Atomic-scale nanowires: physical and electronic structure. **2004**, 16, R721-R754		66
1571	Directed growth of nickel silicide nanowires. *Applied Physics Letters*, **2004**, 84, 1389-1391	3.4	80
1570	Phonon confinement in oxide-coated silicon nanowires. *Applied Physics Letters*, **2004**, 84, 1564-1566	3.4	43
1569	Fabrication of Single-Crystalline Semiconductor CdS Nanobelts by Vapor Transport. **2004**, 108, 7002-7005		92

1568	Synthesis and photoluminescence of ´-Al2O3nanowires. **2004**, 16, 4157-4163		32
1567	Control Growth of One-Dimensional Nanostructures of Organic Materials. **2004**, 108, 7744-7747		21
1566	Single Crystal Nanowire Vertical Surround-Gate Field-Effect Transistor. **2004**, 4, 1247-1252		601
1565	Zinc oxide nanostructures: growth, properties and applications. **2004**, 16, R829-R858		2510
1564	Transition Metal Oxide Core□Shell Nanowires:´Generic Synthesis and Transport Studies. **2004**, 4, 1241-1246		145
1563	GaAs□AlGaAs nanowires capped with AlGaAs layers on GaAs(311)B substrates. *Applied Physics Letters*, **2004**, 85, 1808-1810	3.4	29
1562	Direct synthesis of single-crystalline silicon nanowires using molten gallium and silane plasma. **2004**, 15, 130-134		75
1561	Nanocrystal and Nanowire Synthesis and Dispersibility in Supercritical Fluids. **2004**, 108, 9574-9587		158
1560	Synthesis and Characterization of Au/Bi Core/Shell Nanocrystals: A Precursor toward III□VI Nanowires. **2004**, 108, 9745-9751		72
1559	Single-crystalline tin-doped indium oxide whiskers: Synthesis and characterization. *Applied Physics Letters*, **2004**, 85, 4759-4761	3.4	57
1558	Nanocantilevers made of bent silicon carbide nanowire-in-silicon oxide nanocones. *Applied Physics Letters*, **2004**, 85, 5388-5390	3.4	30
1557	Periodic array of uniform ZnO nanorods by second-order self-assembly. *Applied Physics Letters*, **2004**, 84, 3376-3378	3.4	208
1556	Formation Mechanism of Mg2SiO4 Fishbone-like Fractal Nanostructures. **2004**, 108, 11561-11566		27
1555	Hybrid liquid phase epitaxy processes for YBa2Cu3O7film growth. **2004**, 17, 1215-1223		26
1554	Growth and photoluminescence characteristics of AlGaAs nanowires. *Applied Physics Letters*, **2004**, 85, 657-659	3.4	70
1553	Bimetallic Catalysts for the Efficient Growth of SWNTs on Surfaces. **2004**, 16, 799-805		39
1552	Self-Aligned, Gated Arrays of Individual Nanotube and Nanowire Emitters. **2004**, 4, 1575-1579		113
1551	Chemical Vapor Deposition Growth of Single-Walled Carbon Nanotubes at 600 °C and a Simple Growth Model. **2004**, 108, 1888-1893		145

1550	Nanowires. **2004**, 99-146		8
1549	Direct Integration of Metal Oxide Nanowire in Vertical Field-Effect Transistor. **2004**, 4, 651-657		248
1548	Nanopropeller arrays of zinc oxide. *Applied Physics Letters*, **2004**, 84, 2883-2885	3.4	282
1547	Silicon monoxide clusters: the favorable precursors for forming silicon nanostructures. **2004**, 93, 095503		51
1546	. **2004**, 13, 505-513		118
1545	Growth and characterization of iridium dioxide nanorods. **2004**, 383, 273-276		18
1544	One-dimensional growth induced by thermal stress. **2004**, 58, 1917-1919		6
1543	In situ observation of bamboo-shoot-like one-dimensional growth of SiOx□gyO nanowires induced by electron beam irradiation. **2004**, 58, 3573-3577		4
1542	Catalyst-nanostructure interfacial lattice mismatch in determining the shape of VLS grown nanowires and nanobelts: a case of Sn/ZnO. **2004**, 126, 2066-72		193
1541	Size-dependent surface luminescence in ZnO nanowires. **2004**, 69,		546
1540	Functional oxide nanobelts: materials, properties and potential applications in nanosystems and biotechnology. **2004**, 55, 159-96		398
1539	Growth rate of a crystal facet of arbitrary size and growth kinetics of vertical nanowires. **2004**, 70, 031604		99
1538	Nanospring formation□nexpected catalyst mediated growth. **2004**, 16, R415-R440		66
1537	Controlled Growth and Structures of Molecular-Scale Silicon Nanowires. **2004**, 4, 433-436		825
1536	Germanium Nanowires and Core□Shell Nanostructures by Chemical Vapor Deposition of [Ge(C5H5)2]. **2004**, 16, 2449-2456		109
1535	Charged clusters in thin film growth. **2004**, 49, 171-190		62
1534	Chemical design of inorganic nanowires, nanotubes and nanowire networks. **2004**, 5593, 173		
1533	Roadmap for high efficiency solid-state neutron detectors. **2005**, 6013, 36		18

1532	Laser Assisted Catalytic Growth of ZnS/CdSe Core-Shell and Wire-Coil Nanowire Heterostructures. **2005**, 52, 725-732	7
1531	Electron microscopy study of exotic nanostructures of cadmium sulfide. **2005**, 11, 116-23	13
1530	Laser synthesis of amorphous SiAl oxide nanowires under atmospheric conditions. **2005**, 247, 631-635	2
1529	The influence of hydrogen on the growth of gallium catalyzed silicon oxide nanowires. **2005**, 66, 701-705	6
1528	High-density, uniform gallium nitride nanorods grown on Au-coated silicon substrate. **2005**, 273, 375-380	19
1527	Simultaneous growth of Si3N4 nanobelts and nanodendrites by catalyst-assisted crystallization of amorphous SiCN. **2005**, 276, 1-6	17
1526	Flux-mediated epitaxy: general application in vapor phase epitaxy to single crystal quality of complex oxide films. **2005**, 275, 325-330	23
1525	Topological whisker bundles of amphibole and frost column of quartz. **2005**, 276, 663-673	1
1524	From Si nanotubes to nanowires: Synthesis, characterization, and self-assembly. **2005**, 277, 143-148	61
1523	Catalyst-free synthesis of ZnO nanowires on Si by oxidation of Zn powders. **2005**, 277, 471-478	108
1522	Star-shaped ZnO nanostructures on silicon by cyclic feeding chemical vapor deposition. **2005**, 277, 479-484	71
1521	Synthesis and photoluminescence of gallium oxide ultra-long nanowires and thin nanosheets. **2005**, 279, 122-128	38
1520	Temperature induced shape change of highly aligned ZnO nanocolumns. **2005**, 282, 353-358	20
1519	Polycrystalline tubular nanostructures of germanium. **2005**, 285, 59-65	6
1518	Highly aligned ZnS nanorods grown by plasma-assisted metalorganic chemical vapor deposition. **2005**, 285, 561-565	28
1517	Controllable growth of individual, uniform carbon nanotubes by thermal chemical vapor deposition. **2005**, 25, 597-604	11
1516	Crystalline boron oxide nanowires on silicon substrate. **2005**, 27, 319-324	20
1515	Nucleation mechanism and microstructural assessment of SnO2 nanowires prepared by pulsed laser deposition. **2005**, 345, 391-397	16

1514	Synthesis, characterization and magnetic properties of Fe2Al nanopins. **2005**, 370, 131-136	5
1513	TEM and HREM of diamond crystals grown on Si tips: structure and results of ion-beam-treatment. **2005**, 36, 81-8	14
1512	Formation of carbon nanofibers from decacyclene by ion beam irradiation. **2005**, 236, 474-481	10
1511	Friction-induced formation of nanocrystals on Si. **2005**, 259, 524-528	3
1510	Root growth of multi-wall carbon nanotubes by MPCVD. **2005**, 471, 140-144	19
1509	A liquid–liquid interface technique to form films of CuO nanowhiskers. **2005**, 491, 168-172	26
1508	Straight single-crystalline germanium nanowires and their patterns grown on sol–gel prepared gold/silica substrates. **2005**, 134, 251-255	14
1507	Synthesis of silicon nanowires using laser ablation method and their manipulation by electron beam. **2005**, 6, 628-632	27
1506	Iron particles in carbon nanotubes. **2005**, 43, 1743-1748	73
1505	Oriented silicon nanowires on silicon substrates from oxide-assisted growth and gold catalysts. **2005**, 406, 381-385	46
1504	Doped and undoped ITO nanowires. **2005**, 408, 389-394	40
1503	Iron-catalytic growth of prism-shaped single-crystal silicon nanowires by chemical vapor deposition of silane. **2005**, 411, 198-202	13
1502	Electron field emission from single crystalline TiO2 nanowires prepared by thermal evaporation. **2005**, 413, 490-494	122
1501	GeO2nanowires and nanoneedles grown by thermal deposition without a catalyst. **2005**, 16, 2521-2524	53
1500	Surface diffusion: the low activation energy path for nanotube growth. **2005**, 95, 036101	329
1499	The diffusion mechanism in the formation of GaAs and AlGaAs nanowhiskers during the process of molecular-beam epitaxy. **2005**, 39, 557-564	35
1498	GaAs nanowhisker arrays grown by magnetron sputter deposition. **2005**, 31, 644	6
1497	Atomic structure of MBE-grown GaAs nanowhiskers. **2005**, 47, 2213	52

1496	Comparison of computed tomographic and standard radiographic determination of tibial torsion in the dog. **2005**, 34, 457-62	44
1495	Ultra-Long Single-Crystalline □-Si3N4 Nanowires: Derived from a Polymeric Precursor. **2005**, 88, 1647-1650	68
1494	A simple model for growth of semiconductor nanorods using lamellar precursors. **2005**, 94, 1-6	9
1493	Carbon-assisted synthesis of nanowires and related nanostructures of MgO. **2005**, 40, 831-839	33
1492	Synthesis of aluminium borate nanowires by sol□gel method. **2005**, 40, 1551-1557	35
1491	GeO2 nanotubes and nanorods synthesized by vapor phase reactions. **2005**, 59, 416-419	51
1490	Microstructure and growth mechanism of SiC whiskers on carbon/carbon composites prepared by CVD. **2005**, 59, 2593-2597	50
1489	Synthesis of ZnO hexagonal columnar pins by chemical vapor deposition. **2005**, 59, 3870-3875	33
1488	Synthesis and Characterization of SnO2 One-dimensional Nanostructures. **2005**, 23, 337-340	6
1487	Germanium-catalyzed growth of zinc oxide nanowires: a semiconductor catalyst for nanowire synthesis. **2004**, 44, 274-8	51
1486	Deterministic one-to-one synthesis of germanium nanowires and individual gold nanoseed patterning for aligned nanowire arrays. **2005**, 44, 2925-9	54
1485	Bulk preparation of Si-SiOx hierarchical structures: high-density radially oriented amorphous silica nanowires on a single-crystal silicon nanocore. **2005**, 44, 6934-7	44
1484	Germanium-Catalyzed Growth of Zinc Oxide Nanowires: A Semiconductor Catalyst for Nanowire Synthesis. **2005**, 117, 278-282	11
1483	Deterministic One-to-One Synthesis of Germanium Nanowires and Individual Gold Nanoseed Patterning for Aligned Nanowire Arrays. **2005**, 117, 2985-2989	
1482	Bulk Preparation of Si□SiOx Hierarchical Structures: High-Density Radially Oriented Amorphous Silica Nanowires on a Single-Crystal Silicon Nanocore. **2005**, 117, 7094-7097	7
1481	Temperature-Controlled Catalytic Growth of ZnS Nanostructures by the Evaporation of ZnS Nanopowders. **2005**, 15, 63-68	249
1480	Growth of Aligned Square-Shaped SnO2 Tube Arrays. **2005**, 15, 57-62	158
1479	Photolithographic Route to the Fabrication of Micro/Nanowires of III□V Semiconductors. **2005**, 15, 30-40	98

1478	One-Step Preparation of Coaxial CdS/ZnS and Cd1−xZnxS/ZnS Nanowires. **2005**, 15, 1350-1357	100
1477	A New Understanding of Au-Assisted Growth of III–V Semiconductor Nanowires. **2005**, 15, 1603-1610	131
1476	Diameter-Controlled Synthesis of Silicon Nanowires Using Nanoporous Alumina Membranes. **2005**, 17, 114-117	74
1475	Orientation-Controlled Growth of Single-Crystal Silicon-Nanowire Arrays. **2005**, 17, 56-61	108
1474	Growth of Individual Vertical Germanium Nanowires. **2005**, 17, 549-553	83
1473	Core–Shell Nanowire Light-Emitting Diodes. **2005**, 17, 701-704	200
1472	Catalyst Metal Selection for Synthesis of Inorganic Nanowires. **2005**, 17, 1773-1777	74
1471	Si Nanowire Bridges in Microtrenches: Integration of Growth into Device Fabrication. **2005**, 17, 2098-2102	129
1470	SiC Nanowires Synthesized from Electrospun Nanofiber Templates. **2005**, 17, 1531-1535	112
1469	A Method for the Rapid Synthesis of Large Quantities of Metal Oxide Nanowires at Low Temperatures. **2005**, 17, 2138-2142	157
1468	Thermal evaporation synthesis of zinc oxide nanowires. **2005**, 80, 1527-1530	34
1467	Large-scale crystalline GaN nanowires synthesized through a chemical vapor deposition method. **2005**, 80, 1129-1132	10
1466	Synthesis and characterization of ultra-long silica nanowires. **2005**, 80, 423-425	14
1465	Synthesis of □a2O3 nanowires by an MOCVD approach. **2005**, 81, 763-765	36
1464	Growth and optical properties of ultra-long single-crystalline □-Si3N4 nanobelts. **2005**, 80, 1419-1423	22
1463	A novel interconnection technique for manufacturing nanowire devices. **2005**, 80, 1133-1140	67
1462	On the morphological instability of silicon/silicon dioxide nanowires. **2005**, 80, 1405-1408	20
1461	Self-catalytic synthesis and light-emitting property of highly aligned Mn-doped Zn2SiO4 nanorods. **2005**, 81, 929-931	15

1460	Catalytic synthesis and photoluminescence of silicon oxide nanowires and nanotubes. **2005**, 81, 477-479	14
1459	Catalyst patterning methods for surface-bound chemical vapor deposition of carbon nanotubes. **2005**, 81, 1559-1567	22
1458	Controlled growth of semiconducting oxides hierarchical nanostructures. **2005**, 178, 2804-2810	13
1457	Fabrication of nanowires of multicomponent oxides: Review of recent advances. **2005**, 25, 738-751	103
1456	Controlled electrochemical growth of silver microwires. **2005**, 9, 239-243	16
1455	Synthesis of ZnO nanowalls on Al2O3 (0001) by catalyst-free metalorganic chemical vapor deposition. **2005**, 11, 165-168	4
1454	Growth and formation mechanism of sea urchin-like ZnO nanostructures on Si. **2005**, 22, 489-493	18
1453	Ga2O3 nanorods crossing perpendicularly each other on MgO (100) substrate. **2005**, 40, 4145-4147	2
1452	Fabrication of silica nano wires on the internal perimeter of narrow bore fused silicia tubing by non-isothermal etching. **2005**, 40, 583-589	7
1451	The Influence of B2H6 on the Growth of Silicon Nanowire. **2005**, 7, 615-620	6
1450	Ion-assisted nanorod growth by dc magnetron sputtering. **2005**, 202, 2737-2741	3
1449	Direct observation of the growth process of MgO nanoflowers by a simple chemical route. **2005**, 1, 422-8	156
1448	Size-dependent photoconductance in SnO2 nanowires. **2005**, 1, 713-7	253
1447	Top-down fabrication of semiconductor nanowires with alternating structures along their longitudinal and transverse axes. **2005**, 1, 1052-7	22
1446	?????????????????????????????? -??????????????????-. **2005**, 56, 791-796	1
1445	Factors determining the morphology of polyhedral crystals. **2005**, 60-88	
1444	Epitaxially grown GaP/GaAs1Px/GaP double heterostructure nanowires for optical applications. **2005**, 16, 936-939	66
1443	Characterization of Nanocones Grown During DC Magnetron Sputtering of an ITO Target. **2005**, 879, 1	

1442	Synthesis of ZnO Nanowires by Pulsed Laser Deposition in Furnace. **2005**, 900, 1	
1441	Nanoholes Formed by Au Particles Digging into GaAs and InP Substrates by Reverse Vapor-Liquid-Solid Mechanism. **2005**, 44, L1553-L1555	1
1440	Nanoholes in InP and C60Layers on GaAs Substrates by Using AlGaAs Nanowire Templates. **2005**, 44, L428-L431	1
1439	Synthesis and Growth Mechanism of Silicon Nitride Nanostructures. **2005**, 475-479, 1239-1242	3
1438	Growth of Silica Nanowires Catalysed by Pd Ion Implantation into Si(100). **2005**, 900, 1	
1437	Binormal nanohelices. **2005**, 903, 1	
1436	Synthesis of shuttle-like ZnO nanostructures from precursor ZnS nanoparticles. **2005**, 16, 1469-1473	38
1435	Electrochemical Synthesis of Functionalized Nickel Oxide Nanowires. **2005**, 8, D26	24
1434	Realization ofIn SituDoped n-Type and p-Type Si-Microprobe Array by Selective Vapor-Liquid-Solid (VLS) Growth Method. **2005**, 44, 2161-2165	14
1433	InAs Nano-Dot Array Formation Using Nano-Jet Probe for Photonics Applications. **2005**, 44, 5777-5780	12
1432	Carbon Beads on Semiconductor Nanowires. **2005**, 44, 6862-6863	1
1431	Growth of nanometric CuGaxOystructures on copper substrates. **2005**, 16, 2790-2793	5
1430	Covalent functionalization and biomolecular recognition properties of DNA-modified silicon nanowires. **2005**, 16, 1868-1873	67
1429	Growth of ZnO hexagonal nanoprisms. **2005**, 16, 2665-2669	49
1428	Electron transport in Si nanochains/nanowires. **2005**, 54 Suppl 1, i15-9	8
1427	Vertically aligned growth of carbon nanotubes with long length and high density. **2005**, 23, 1450	11
1426	Selective growth of vertical ZnO nanowires on ZnO:Ga□i3N4□iO2□i templates. **2005**, 23, 2292	11
1425	Synthesis and Field Emission of ZnO Nanostructures on CuO Catalyzed Porous Silicon Substrate. **2005**, 22, 2411-2414	3

1424	Self-assembled growth and blue emission of a SiO(x)-capped (x = 0.5-0.8) silicon nanowire array. **2005**, 16, 2222-6		5
1423	Synthesis of blue-light-emitting Si1−xGex oxide nanowires. *Applied Physics Letters*, **2005**, 86, 263109	3.4	23
1422	Nucleation site and mechanism leading to growth of bulk-quantity Mn3O4 nanorods. *Applied Physics Letters*, **2005**, 86, 181911	3.4	33
1421	Unseeded growth of germanium nanowires by vapor-liquid-solid mechanism. *Applied Physics Letters* , **2005**, 86, 053105	3.4	25
1420	Directed integration of ZnO nanobridge devices on a Si substrate. *Applied Physics Letters*, **2005**, 87, 223114	3.4	70
1419	Self-organization of semiconductor nanocrystals by selective surface faceting. **2005**, 72,		43
1418	Optical and structural investigation of In1−xGaxP free-standing microrods. **2005**, 98, 053506		5
1417	Synthesis and field emission properties of TiSi2 nanowires. *Applied Physics Letters*, **2005**, 86, 243103	3.4	66
1416	Mechanical elasticity of single and double clamped silicon nanobeams fabricated by the vapor-liquid-solid method. *Applied Physics Letters*, **2005**, 87, 053111	3.4	109
1415	Stress-driven formation of Si nanowires. *Applied Physics Letters*, **2005**, 86, 193105	3.4	26
1414	Fabrication of CdS□Si nanocable heterostructures by one-step thermal evaporation. *Applied Physics Letters*, **2005**, 86, 143102	3.4	14
1413	Characterisation of GaAs nanowhiskers grown on GaAs and Si substrates.		2
1412	High-density vertically aligned multiwalled carbon nanotubes with tubular structures. *Applied Physics Letters*, **2005**, 86, 253105	3.4	33
1411	Femtosecond laser assisted growth of ZnO nanowires. *Applied Physics Letters*, **2005**, 87, 133115	3.4	74
1410	Low-temperature synthesis of ZnSe nanowires and nanosaws by catalyst-assisted molecular-beam epitaxy. *Applied Physics Letters*, **2005**, 86, 153103	3.4	82
1409	Fe-catalytic growth of ZnSe nanowires on a ZnSe(001) surface at low temperatures by molecular-beam epitaxy. *Applied Physics Letters*, **2005**, 87, 043105	3.4	25
1408	Growth of inclined boron nanowire bundle arrays in an oxide-assisted vapor-liquid-solid process. *Applied Physics Letters*, **2005**, 87, 113109	3.4	26
1407	Optical activation of Si nanowires using Er-doped, sol-gel derived silica. *Applied Physics Letters*, **2005**, 86, 053101	3.4	15

1406	Equilibrium limits of coherency in strained nanowire heterostructures. **2005**, 97, 114325		301
1405	Polycrystalline Si films on glass substrates prepared by metal induced crystallization.		1
1404	Nanowire formation during catalyst assisted chemical vapor deposition. **2005**, 72,		29
1403	Controlled growth of GaN nanowires by pulsed metalorganic chemical vapor deposition. *Applied Physics Letters*, **2005**, 86, 033104	3.4	57
1402	Flower-shaped ZnO nanostructures obtained by cyclic feeding chemical vapour deposition: structural and optical properties. **2005**, 16, 2462-8		100
1401	Characterization of Single-Crystalline TiO[sub 2] Nanowires Grown by Thermal Evaporation. **2005**, 152, G613		48
1400	Growth of Epitaxial Needlelike ZnO Nanowires on GaN Films. **2005**, 152, G95		23
1399	Synthesis of Well-aligned ZnO Nanowires Using Simple Physical Vapor Deposition without Catalysts or Additives. **2005**, 879, 1		
1398	Synthesis of Magnetic Self-Assembled Nickel-Rich Oxide Nanowires Using a Novel Electrochemical Process. **2005**, 877, 1		2
1397	Low Temperature Synthesis of Silicon Oxide Nanowires. **2005**, 879, 1		
1396	Synthesis, Characterization, and Growth Mechanism of Silicon Oxide Nanowires. **2005**, 879, 1		
1395	Selective growth of ZnSe and ZnCdSe nanowires by molecular beam epitaxy. **2005**, 16, S139-S142		30
1394	A simple method to synthesize single-crystalline Zn2SnO4(ZTO) nanowires and their photoluminescence properties. **2005**, 16, 2928-2931		106
1393	UHV chemical vapour deposition of silicon nanowires. **2005**, 96, 427-428		12
1392	Solid-state dewetting for ordered arrays of crystallographically oriented metal particles. *Applied Physics Letters*, **2005**, 86, 121903	3.4	186
1391	Diffusion-induced growth of GaAs nanowhiskers during molecular beam epitaxy: Theory and experiment. **2005**, 71,		258
1390	Failure of the vapor-liquid-solid mechanism in Au-assisted MOVPE growth of InAs nanowires. **2005**, 5, 761-4		268
1389	How does the nickel nanowire melt?. *Applied Physics Letters*, **2005**, 86, 011913	3.4	49

1388	Growth of silica nanowire arrays by reaction of Si substrate with oxygen using Ga as catalyst. **2005**, 335, 304-309		21
1387	Combustion synthesis as a novel method for production of 1-D SiC nanostructures. **2005**, 109, 16244-51		94
1386	Growth and spatially resolved luminescence of low dimensional structures in sintered ZnO. **2005**, 16, 931-935		42
1385	CVD Deposition of Binary AlSb and GaSb Material Films -- a Single-Source Approach. 101-123		1
1384	The effects on the field emission properties of silicon nanowires by different pre-treatment techniques of Ni catalysts layers. **2005**, 14, 2105-2108		5
1383	Anisotropy of selective epitaxy in nanoscale-patterned growth: GaAs nanowires selectively grown on a SiO2-patterned (001) substrate by molecular-beam epitaxy. **2005**, 98, 114312		9
1382	Single-crystalline alpha silicon nitride nanowires: Large-scale synthesis, characterization, and optic properties. *Applied Physics Letters*, **2005**, 86, 181901	3.4	45
1381	Growth of segmented ZnS nanocones induced by regular occurrence of twins structure. *Applied Physics Letters*, **2005**, 87, 183107	3.4	9
1380	Growth of light-emitting silicate nanowires on individual Au particles in self-assembled hexagonal Au particle networks. *Applied Physics Letters*, **2005**, 87, 163101	3.4	11
1379	Role of the Au/III-V interaction in the Au-assisted growth of III-V branched nanostructures.		2
1378	Surfactant-free hydrothermal synthesis of lithium aluminate microbricks and nanorods from aluminium oxide nanoparticles. **2005**, 4471-3		5
1377	InP nanobridges epitaxially formed between two vertical Si surfaces.		
1376	Catalyst-assisted vapor-liquid-solid growth of single-crystal Ga2O3 nanobelts. **2005**, 109, 13143-7		38
1375	Increase of the photoluminescence intensity of InP nanowires by photoassisted surface passivation. **2005**, 127, 12357-62		86
1374	Growth of GaAs/InAs vertical nanowires on GaAs (111)b by metalorganic chemical vapor deposition. **2005**,		
1373	Metal-induced assembly of a semiconductor island lattice: Ge truncated pyramids on Au-patterned Si. **2005**, 5, 2070-3		24
1372	Bismuth Nanocrystal-Seeded III-V Semiconductor Nanowire Synthesis. **2005**, 5, 1971-1976		82
1371	Synthesis and characterization of silicon nanowires on mesophase carbon microbead substrates by chemical vapor deposition. **2005**, 109, 3291-7		6

1370	Large Pore Methylene-Bridged Periodic Mesoporous Organosilicas: Synthesis, Bifunctionalization and Their Use as Nanotemplates. **2005**, 17, 6407-6415	23
1369	Stranski-Krastanow growth of germanium on silicon nanowires. **2005**, 5, 1081-5	80
1368	Aligned Zn-Zn2SiO4 core-shell nanocables with homogeneously intense ultraviolet emission at 300 nm. **2005**, 109, 15786-90	21
1367	Zinc Oxide Nanowires Grown by Vapor-Phase Transport Using Selected Metal Catalysts:´A Comparative Study. **2005**, 17, 4227-4234	111
1366	Thermodynamic and kinetic size limit of nanowire growth. **2005**, 109, 9966-9	34
1365	Supercritical Fluid□liquid□olid Synthesis of Gallium Phosphide Nanowires. **2005**, 17, 230-233	69
1364	Induced Branching in Confined PbSe Nanowires. **2005**, 17, 4416-4425	92
1363	Excellent field-emission properties of P-doped GaN nanowires. **2005**, 109, 21521-4	52
1362	Low temperature growth of boron nitride nanotubes on substrates. **2005**, 5, 2528-32	152
1361	Use of phosphine as an n-type dopant source for vapor-liquid-solid growth of silicon nanowires. **2005**, 5, 2139-43	124
1360	ZnO nanorods: synthesis, characterization and applications. **2005**, 20, S22-S34	672
1359	Materials Chemistry of Group 13 Nitrides. 49-80	13
1358	Raman scattering and photoluminescence of quasi-aligned ternary ZnCdO nanorods. **2005**, 38, 2919-2922	40
1357	Chalcogenide nanowires by evaporation□ondensation. **2005**, 351, 1410-1416	13
1356	Growth of □Ga2O3 nanocolumns crossing perpendicularly each other on MgO (1 0 0) surface. **2005**, 390, 261-264	7
1355	Synthesis and structural investigation of □Ga2O3 nanosheets and nanobelts. **2005**, 402, 204-207	17
1354	Bulk-quantity SnO2 nanorods synthesized from simple calcining process based on annealing precursor powders. **2005**, 351, 3619-3623	7
1353	Synthesis of ZnO nanostructures on CuO catalyzed porous silicon substrate. **2005**, 59, 3525-3529	8

1352	Configuration of nanostructures reinforced MgMgOMg2Cu composite. **2005**, 36, 1222-1228		1
1351	High-resolution x-ray diffraction analysis of epitaxially grown indium phosphide nanowires. **2005**, 97, 084318		4
1350	Core-shell SiGe whiskers with composition gradient along the axial direction: Cross-sectional analysis. *Applied Physics Letters*, **2005**, 87, 083111	3.4	14
1349	Growth and luminescence properties of micro- and nanotubes in sintered tin oxide. **2005**, 97, 044316		75
1348	Synthesis of nano/micro zinc oxide rods and arrays by thermal evaporation approach on cylindrical shape substrate. **2005**, 109, 13091-3		74
1347	Ordered arrays of silicon nanowires produced by nanosphere lithography and molecular beam epitaxy. **2005**, 5, 2524-7		239
1346	Radial pn junction nanorod solar cells: device physics principles and routes to fabrication in silicon.		7
1345	Synthesis and synchrotron light-induced luminescence of ZnO nanostructures: nanowires, nanoneedles, nanoflowers, and tubular whiskers. **2005**, 109, 3120-5		123
1344	Surface-enhanced Raman scattering and polarized photoluminescence from catalytically grown CdSe nanobelts and sheets. **2005**, 127, 11262-8		134
1343	Large-scale Ni-doped ZnO nanowire arrays and electrical and optical properties. **2005**, 127, 16376-7		211
1342	Semiconductor nanowires for subwavelength photonics integration. **2005**, 109, 15190-213		253
1341	CdS Multipod-Based Structures through a Thermal Evaporation Process. **2005**, 5, 1085-1089		87
1340	Directed assembly of ZnO nanowires on a Si substrate without a metal catalyst using a patterned ZnO seed layer. **2005**, 16, 292-296		87
1339	Optically bright quantum dots in single Nanowires. **2005**, 5, 1439-43		241
1338	Self-assembled growth and enhanced blue emission of SiOxNy-capped silicon nanowire arrays. *Applied Physics Letters*, **2005**, 86, 193111	3.4	20
1337	Analysis of vapor-liquid-solid mechanism in Au-assisted GaAs nanowire growth. *Applied Physics Letters*, **2005**, 87, 203101	3.4	231
1336	Nanotubular SnO2 Templated by Cellulose Fibers: Synthesis and Gas Sensing. **2005**, 17, 3513-3518		252
1335	Fabrication and characterization of freestanding GaAsAlGaAs core-shell nanowires and AlGaAs nanotubes by using selective-area metalorganic vapor phase epitaxy. *Applied Physics Letters*, **2005**, 87, 093109	3.4	158

1334	Controlled growth of Si nanowire arrays for device integration. **2005**, 5, 457-60		581
1333	Diameter-dependent growth direction of epitaxial silicon nanowires. **2005**, 5, 931-5		433
1332	Catalytic hydride vapour phase epitaxy growth of GaN nanowires. **2005**, 16, 2342-5		68
1331	Effect of temperature, pressure, and gas ratio of methane to hydrogen on the synthesis of double-walled carbon nanotubes by chemical vapour deposition. **2005**, 16, 532-535		49
1330	Synthesis of well-aligned ZnO nanowires by simple physical vapor deposition on c-oriented ZnO thin films without catalysts or additives. *Applied Physics Letters*, **2005**, 86, 024108	3.4	170
1329	Sawtooth faceting in silicon nanowires. **2005**, 95, 146104		330
1328	Formation mechanism of Si3N4 nanowires via carbothermal reduction of carbonaceous silica xerogels. **2006**, 110, 14546-9		44
1327	Functional Properties of Nanostructured Materials. **2006**,		7
1326	Self-Organized Nanoscale Materials. **2006**,		11
1325	Controlled selective growth of ZnO nanorod and microrod arrays on Si substrates by a wet chemical method. *Applied Physics Letters*, **2006**, 89, 163128	3.4	107
1324	High-performance ZnO nanowire field effect transistors. *Applied Physics Letters*, **2006**, 89, 133113	3.4	208
1323	Synthesis and low-temperature photoluminescence properties of SnO2 nanowires and nanobelts. **2006**, 17, 1695-9		205
1322	Control of Si nanowire growth by oxygen. **2006**, 6, 1292-6		144
1321	Nanowire lasers with distributed-Bragg-reflector mirrors. *Applied Physics Letters*, **2006**, 89, 053125	3.4	50
1320	Influence of nanowire density on the shape and optical properties of ternary InGaAs nanowires. **2006**, 6, 599-604		196
1319	Critical dimensions for the plastic relaxation of strained axial heterostructures in free-standing nanowires. **2006**, 74,		525
1318	Silicon-nanowire transistors with intruded nickel-silicide contacts. **2006**, 6, 2660-6		199
1317	Periodically twinned nanowires and polytypic nanobelts of ZnS: The role of mass diffusion in vapor-liquid-solid growth. **2006**, 6, 1650-5		201

1316	Diameter-independent kinetics in the vapor-liquid-solid growth of Si nanowires. **2006**, 96, 096105		227
1315	Au-free epitaxial growth of InAs nanowires. **2006**, 6, 1817-21		194
1314	Growth kinetics of heterostructured GaP-GaAs nanowires. **2006**, 128, 1353-9		171
1313	Fabrication, structural characterization and photoluminescence of Q-1D semiconductor ZnS hierarchical nanostructures. **2006**, 17, 2695-700		27
1312	Optoelectrical characteristics of individual zinc oxide nanorods grown by DNA directed assembly on vertically aligned carbon nanotube tips. *Applied Physics Letters*, **2006**, 89, 103109	3.4	9
1311	Band-gap modulation in single-crystalline Si1-xGex nanowires. **2006**, 6, 2679-84		99
1310	Formation, Characterization, and Properties of One-Dimensional Oxide Nanostructures. **2006**, 169-205		
1309	Solution synthesis of germanium nanowires using a Ge2+ alkoxide precursor. **2006**, 128, 5244-50		85
1308	Shape selective growth of CdS one-dimensional nanostructures by a thermal evaporation process. **2006**, 110, 4542-7		123
1307	Photoluminescence and Raman scattering from catalytically grown Zn(x)Cd(1-x)Se alloy nanowires. **2006**, 110, 11691-6		88
1306	Nanometre-sized GaAs wires grown by organo-metallic vapour-phase epitaxy. **2006**, 17, S369-S375		23
1305	A universal approach to electrically connecting nanowire arrays using nanoparticles□pplication to a novel gas sensor architecture. **2006**, 17, 3786-3790		50
1304	Temperature conditions for GaAs nanowire formation by Au-assisted molecular beam epitaxy. **2006** , 17, 4025-30		101
1303	Synthesis Methods and Growth Mechanisms. **2006**, 49-130		27
1302	Two-dimensional tungsten oxide nanowire networks. *Applied Physics Letters*, **2006**, 89, 133116	3.4	27
1301	Synthesis and characterization of phase-change nanowires. **2006**, 6, 1514-7		127
1300	Uniformly sized gold nanoparticles derived from PS-b-P2VP block copolymer templates for the controllable synthesis of Si nanowires. **2006**, 22, 3951-4		67
1299	Nanotips: Growth, Model, and Applications. **2006**, 31, 15-53		73

1298	Pulsed PECVD for the Growth of Silicon Nanowires. **2006**,		1
1297	InN nanoflowers grown by metal organic chemical vapor deposition. *Applied Physics Letters*, **2006**, 89, 071113	3.4	43
1296	Vertically aligned tin-doped indium oxide nanowire arrays: Epitaxial growth and electron field emission properties. *Applied Physics Letters*, **2006**, 89, 123102	3.4	61
1295	In2O3 nanowires grown from Au□h film on glass. *Applied Physics Letters*, **2006**, 88, 163111	3.4	10
1294	Power generation with nanowire resonant tunneling thermoelectrics. **2006**,		
1293	Fabrication and Electrical Characterisation of n-InAs Single Nanowhisker Field-Effect Transistors.		1
1292	Self-Organized ZnO Microcombs with Cuboid Nanobranches by Simple Thermal Evaporation. **2006**, 6, 2588-2591		19
1291	Growth of Indium Oxide Nanostructures by Thermal Evaporation. **2006**,		0
1290	A New Approach for Establishing Electrical Contacts to a Nanowire Array as Applied to Gas Sensing. **2006**,		
1289	Characterization of heat transfer along a silicon nanowire using thermoreflectance technique. **2006**, 5, 67-74		27
1288	Determination of Surface Depletion Thickness of p-doped Silicon Nanowires Synthesized Using Metal Catalyzed CVD Process. **2006**,		
1287	Position-controlled epitaxial III□V nanowires on silicon. **2006**, 17, S271-S275		107
1286	High-density, aligned SiO2 nanowire arrays: microscopic imaging of the unique growth style and their ultraviolet light emission properties. **2006**, 110, 15724-8		29
1285	Theoretical analysis of the vapor-liquid-solid mechanism of nanowire growth during molecular beam epitaxy. **2006**, 73, 021603		154
1284	One-dimensional Wurtzite Semiconducting Nanostructures. **2006**, 384-426		
1283	High-pressure pyrolysis of melamine route to nitrogen-doped conical hollow and bamboo-like carbon nanotubes. **2006**, 15, 164-170		43
1282	Synthesis and properties of single-crystal FeSi nanowires. **2006**, 6, 1617-21		116
1281	Crystal-structure-dependent photoluminescence from InP nanowires. **2006**, 17, 1580-3		143

1280	Synthesis of wurtzite ZnSe nanorings by thermal evaporation. *Applied Physics Letters*, **2006**, 88, 183110	3.4	46
1279	One-dimensional ZnO nanostructure arrays: synthesis and characterization. **2006**, 110, 4605-11		181
1278	Synergism of C5N six-membered ring and vapor-liquid-solid growth of CN(x) nanotubes with pyridine precursor. **2006**, 110, 16422-7		96
1277	III-VI compound semiconductor indium selenide (In2Se3) nanowires: Synthesis and characterization. *Applied Physics Letters*, **2006**, 89, 233121	3.4	79
1276	Size-dependent phase transition memory switching behavior and low writing currents in GeTe nanowires. *Applied Physics Letters*, **2006**, 89, 223116	3.4	110
1275	Well-aligned arrays of CuO nanoplatelets. **2006**, 110, 1632-7		158
1274	Review on Bi□Sr□Ca□Cu□O whiskers. **2006**, 19, R81-R99		33
1273	Solvothermal/hydrothermal route to semiconductor nanowires. **2006**, 17, S313-S320		93
1272	Solution-Based Straight and Branched CdTe Nanowires. **2006**, 18, 5722-5732		125
1271	Self-assembled boron nanowire Y-junctions. **2006**, 6, 385-9		35
1270	Photoluminescence and photoconductivity properties of copper-doped Cd1□ZnxS nanoribbons. **2006**, 17, 5935-5940		38
1269	Self-catalysis: a contamination-free, substrate-free growth mechanism for single-crystal nanowire and nanotube growth by chemical vapor deposition. **2006**, 125, 094705		45
1268	Electronic structure of semiconductor nanowires. **2006**, 73,		181
1267	Theoretical analysis of non-catalytic growth of nanorods on a substrate. **2006**, 110, 3876-82		19
1266	Giant optical birefringence in ensembles of semiconductor nanowires. *Applied Physics Letters*, **2006**, 89, 233117	3.4	60
1265	Optical properties of SnO2 nanoparticles and nanorods synthesized by solvothermal process. **2006**, 99, 114303		153
1264	Structural stability and electronic structures of InP nanowires: Role of surface dangling bonds on nanowire facets. **2006**, 73,		95
1263	Novel Nanostructures and Nanodevices of ZnO. **2006**, 339-370		10

1262	Thermal evaporation processing of nano and submicron tin oxide rods. **2006**, 110, 11210-6	9
1261	Self-organized hierarchical ZnS/SiO(2) nanowire heterostructures. **2006**, 110, 7199-202	49
1260	Realization of a linear germanium nanowire p-n junction. **2006**, 6, 2070-4	76
1259	Position-controlled interconnected InAs nanowire networks. **2006**, 6, 2842-7	77
1258	Synthesis and characterization of Ge2Sb2Te5 nanowires with memory switching effect. **2006**, 128, 14026-7	106
1257	Fabrication of Mn-doped ZnO diluted magnetic semiconductor nanostructures by chemical vapor deposition. **2006**, 99, 08M119	33
1256	Rationalization of nanowire synthesis using low-melting point metals. **2006**, 110, 18351-7	38
1255	Evidence for, and an understanding of, the initial nucleation of carbon nanotubes produced by a floating catalyst method. **2006**, 110, 16941-6	40
1254	Growth of HgTe nanowires. **2006**, T126, 115-120	10
1253	Origin of diameter-dependent growth direction of silicon nanowires. **2006**, 6, 1552-5	53
1252	Catalyst-assisted formation of nanocantilever arrays on ZnS nanoribbons by post-annealing treatment. **2006**, 110, 6759-62	23
1251	[Cu4{Se2P(OiPr)2}4]: A Novel Precursor Enabling Preparation of Nonstoichiometric Copper Selenide (Cu2-xSe) Nanowires. **2006**, 18, 3323-3329	69
1250	Selective growth of organic 1-D structures on au nanoparticle arrays. **2006**, 6, 2852-5	39
1249	Preparation of novel saw-toothed and riblike alpha-Si3N4 whiskers. **2006**, 110, 3088-92	27
1248	Germanium nanowire epitaxy: shape and orientation control. **2006**, 6, 318-23	203
1247	Silica nanocoils. **2006**, 110, 8296-301	22
1246	Single InGaAs nanowhiskers characterized by analytical transmission electron microscopy. **2006**, 79, 727-737	6
1245	Catalyst-nanostructure interaction in the growth of 1-D ZnO nanostructures. **2006**, 110, 1656-60	99

1244	Solution-liquid-solid growth of semiconductor nanowires. **2006**, 45, 7511-21	295
1243	Ferromagnetic self-assembled quantum dots on semiconductor nanowires. **2006**, 6, 50-4	58
1242	Molecular dynamics study of SWNT growth on catalyst particles without temperature gradients. **2006**, 35, 243-246	34
1241	Catalytic growth of nanowires: Vapor□quid□olid, vapor□olid□olid, solution□quid□olid and solid□quid□olid growth. **2006**, 10, 182-191	236
1240	Soft Synthesis of Inorganic Nanorods, Nanowires, and Nanotubes. **2006**, 101-158	1
1239	Catalyzed-assisted growth of well-aligned silicon oxide nanowires. **2006**, 352, 2859-2862	13
1238	Catalytic chemical vapor deposition of single-wall carbon nanotubes at low temperatures. **2006**, 6, 1107-12	267
1237	Fabrication and Structural Characterization of Ultrathin Nanoscale Wires and Particles. **2006**, 93-129	
1236	Synthesis of carbon nanotubes. **2006**, 19-49	8
1235	Graphite, Tubular PAHs, and the Diffuse Interstellar Bands. **2006**, 638, L105-L108	22
1234	Forward. **2006**, 21, 2709-2710	1
1233	28.4L: Late-News Paper: Millisecond Crystallization of Amorphous Silicon Film using Joule Heating. **2006**, 37, 1280	5
1232	Synthesis and characterization of ZnO nanostructures grown on Si substrates. **2006**, T126, 131-134	14
1231	The Sophistication of Ceramic Science Through Silicon Nitride Studies. **2006**, 114, 873-879	29
1230	Realization of a silicon nanowire vertical surround-gate field-effect transistor. **2006**, 2, 85-8	329
1229	Shape control of II-VI semiconductor nanomaterials. **2006**, 2, 316-29	335
1228	Semiconductor nanowires: from self-organization to patterned growth. **2006**, 2, 700-17	662
1227	Catalyst-free vapor-phase transport growth of vertically aligned ZnO nanorods on 6H-SiC and (11-20)Al2O3. **2006**, 3, 1046-1050	33

1226	Synthesis and characterization of Al2O3 nanorods. **2006**, 203, 294-299	19
1225	Influence of MBE growth conditions on the surface morphology of Al(Ga)As nanowhiskers. **2006**, 203, 1365-1369	5
1224	Rapid crystallization of WS2 films assisted by a thin nickel layer: An in situ energy-dispersive X-ray diffraction study. **2006**, 203, 2457-2462	9
1223	Epitaxial vapor–liquid–solid growth of silicon nano-whiskers by electron beam evaporation. **2006**, 203, 3692-3698	13
1222	Self-assembled nanowhiskers grown by MBE on InP(001) surface. **2006**, 203, 2793-2799	5
1221	Silicon nanowires: catalytic growth and electrical characterization. **2006**, 243, 3340-3345	24
1220	Nanowire electronic and optoelectronic devices. **2006**, 9, 18-27	1128
1219	Nanowire-based one-dimensional electronics. **2006**, 9, 28-35	587
1218	Nanowire photonics. **2006**, 9, 36-45	376
1217	Nanotechnology: how clean is too clean?. **2006**, 440, 34-5	21
1216	Ecology: corals fail a test of neutrality. **2006**, 440, 35-6	5
1215	Epitaxial growth of silicon nanowires using an aluminium catalyst. **2006**, 1, 186-9	478
1214	The influence of the surface migration of gold on the growth of silicon nanowires. **2006**, 440, 69-71	774
1213	Supercurrent reversal in quantum dots. **2006**, 442, 667-70	322
1212	Current–voltage characteristics of GaAs nanowhiskers. **2006**, 6, 10-13	4
1211	Synthesis of ultrawide ZnO nanosheets. **2006**, 6, 1020-1023	26
1210	Scaled-up self-assembly of carbon nanotubes inside long stainless steel tubing. **2006**, 44, 1235-1242	57
1209	Nanowire growth on Si wafers by oxygen implantation and annealing. **2006**, 252, 5572-5574	20

1208	Structural evolution of AlN nano-structures: Nanotips and nanorods. **2006**, 418, 152-157	42
1207	Self-catalyst growth of LaB6 nanowires and nanotubes. **2006**, 423, 138-142	56
1206	Crystalline boron nanowires grown by magnetron sputtering. **2006**, 434, 53-57	5
1205	Quasi-one-dimensional metal oxide materials□Synthesis, properties and applications. **2006**, 52, 49-91	475
1204	Structural and mechanical properties of polymer nanocomposites. **2006**, 53, 73-197	1093
1203	Combinatorial exploration of flux material for Bi4Ti3O12 single crystal film growth. **2006**, 252, 2477-2481	12
1202	Nanofibers and spheres by polymerization of cyanoacrylate monomer. **2006**, 47, 4328-4332	12
1201	Epitaxial growth of □Ga2O3 nanocolumns on MgO substrate. **2006**, 286, 240-246	12
1200	Growth of GaAs nanoscale whiskers by magnetron sputtering deposition. **2006**, 289, 31-36	47
1199	Morphological evolution of Ge islands on Au-patterned Si. **2006**, 287, 518-521	2
1198	Growth and branching of CuO nanowires by thermal oxidation of copper. **2006**, 289, 670-675	216
1197	Anisotropic vapor phase growth of Ga2O3 crystalline nanobelts. **2006**, 290, 585-591	9
1196	Gallium-based catalysts for growth of GaN nanowires. **2006**, 290, 115-120	22
1195	Growth phenomena of Si and Si/Ge nanowires on Si (111) by molecular beam epitaxy. **2006**, 290, 6-10	109
1194	Synthesis of single-crystalline CeB6 nanowires. **2006**, 291, 112-116	40
1193	Hydroxyl-promoted synthesis of GaN nanorods on SBA-15 surface. **2006**, 291, 527-532	7
1192	Growth of hexagonal tungsten trioxide tubes. **2006**, 292, 143-148	39
1191	Effect of substrate temperature on the growth and photoluminescence properties of vertically aligned ZnO nanostructures. **2006**, 292, 19-25	134

1190	Fabrication of semiconductor CdS hierarchical nanostructures. **2006**, 293, 236-241	29
1189	Synthesis of ZnO nanocrystals with novel hierarchical structures via atmosphere pressure physical vapor deposition method. **2006**, 294, 184-190	34
1188	Observation of size dependent liquidus depression in the growth of InAs nanowires. **2006**, 296, 159-164	27
1187	Formation of micron-sized and nanometer-sized single crystal alumina whiskers by displacement reactions. **2006**, 26, 1561-1565	8
1186	Focused ion beam induced nanodot and nanofiber growth. **2006**, 83, 1491-1494	8
1185	High-density silicon nanowire growth from self-assembled Au nanoparticles. **2006**, 83, 1530-1533	21
1184	One-dimensional silicon nanostructures fabricated by thermal evaporation. **2006**, 26, 800-804	0
1183	Irradiation-induced nanostructures in cadmium niobate pyrochlores. **2006**, 250, 188-191	3
1182	Phonon confinement in silicon nanowires synthesized by laser ablation. **2006**, 376-377, 864-867	13
1181	WO3 nanowires based electrochromic devices. **2006**, 90, 1147-1155	98
1180	Preparation and characterization of CdS/Si coaxial nanowires. **2006**, 138, 139-142	17
1179	Colloids seeded deposition: growth of titania nanotubes in solution. **2006**, 128, 11042-3	34
1178	Nanodimensional whisker growth by the generalized vapor-liquid-crystal mechanism. **2006**, 32, 185-187	4
1177	Growth of GaAs nanowhisker arrays by magnetron sputtering on Si(111) substrates. **2006**, 32, 520-522	6
1176	Assessing the minimum diameter of nanowhiskers. **2006**, 32, 1047-1050	2
1175	Controlled growth of filamentary crystals and fabrication of single-crystal whisker probes. **2006**, 51, 888-894	5
1174	The role of surface diffusion of adatoms in the formation of nanowire crystals. **2006**, 40, 1075-1082	45
1173	Formation of GaAs nanowhisker arrays by magnetron sputtering deposition. **2006**, 48, 786-791	6

1172	Structural characteristics of GaSb□GaAs nanowire heterostructures grown by metal-organic chemical vapor deposition. *Applied Physics Letters*, **2006**, 89, 231917	3.4	87
1171	One-dimensional Germanium Nanowires for Future Electronics. **2006**, 17, 579-597		63
1170	A3B5 nanowhiskers: MBE growth and properties. **2006**, 56, 13-20		7
1169	Controlled growth of silicon nanowires on silicon surfaces. **2006**, 16, 15-21		26
1168	Selective growth of znic oxide nanowires on the metal electrodes. **2006**, 17, 923-928		0
1167	Morphology and diameter controllable synthesis of boron nanowires. **2006**, 41, 3547-3552		12
1166	Synthesis of polygonal Au by a facile route. **2006**, 41, 2545-2546		2
1165	The synthesis of polygonal Au by a facile route. **2006**, 41, 3131-3133		
1164	Morphology, structures and properties of ZnO nanobelts fabricated by Zn-powder evaporation without catalyst at lower temperature. **2006**, 41, 3057-3062		59
1163	The seminal literature of nanotechnology research. **2006**, 8, 193-213		60
1162	Nanoparticle-Coated Silicon Nanowires. **2006**, 8, 995-1002		8
1161	Growth and characterization of indium phosphide single-crystal nanoneedles on microcrystalline silicon surfaces. **2006**, 85, 1-6		22
1160	Growth peculiarities during vapor□liquid□solid growth of silicon nanowhiskers by electron-beam evaporation. **2006**, 85, 311-315		33
1159	Applications of electron microscopy to the characterization of semiconductor nanowires. **2006**, 85, 227-231		5
1158	Indium oxide nanostructures. **2006**, 85, 233-240		49
1157	Synthesis and optical properties of silicon nanowires grown by different methods. **2006**, 85, 247-253		44
1156	Composition analysis of single semiconductor nanowires using pulsed-laser atom probe tomography. **2006**, 85, 271-275		42
1155	Raman scattering as a probe of phonon confinement and surface optical modes in semiconducting nanowires. **2006**, 85, 287-297		124

1154	Semiconductor nanowires: optics and optoelectronics. **2006**, 85, 209-215	244
1153	Low-dimensional SiC nanostructures: Fabrication, luminescence, and electrical properties. **2006**, 51, 983-1031	275
1152	The growth of silicon nanowires by electroless plating technique of Ni catalysts on silicon substrate. **2006**, 514, 20-24	21
1151	Evolution of ZnO nanostructures on silicon substrate by vapor-solid mechanism: Structural and optical properties. **2006**, 35, 758-765	14
1150	Selective growth and directed integration of ZnO nanobridge devices on si substrates without a metal catalyst using a ZnO seed layer. **2006**, 35, 795-802	9
1149	p-n junctions in silicon nanowires. **2006**, 35, 1509-1512	11
1148	Intergrowth mechanism of silicon nanowires and silver dendrites. **2006**, 35, 1879-1884	55
1147	Developing 1D nanostructure arrays for future nanophotonics. **2006**, 1, 99-119	42
1146	Indium and tin oxide nanowires by vapor-liquid-solid growth technique. **2006**, 35, 200-206	19
1145	Molecular dynamics study of bamboo-like carbon nanotube nucleation. **2006**, 35, 207-210	25
1144	Synthesis of low-melting metal oxide and sulfide nanowires and nanobelts. **2006**, 35, 941-946	19
1143	Synthesis of ZnO nanowires on Si substrate by thermal evaporation method without catalyst: Structural and optical properties. **2006**, 23, 499-504	44
1142	Rapid synthesis of SiN dendritic crystals. **2006**, 54, 447-451	11
1141	Shape-controlled synthesis and nanostructure evolution of single-crystal Mn3O4 nanocrystals. **2006**, 55, 735-738	47
1140	Ultrafast growth of single-crystalline Si nanowires. **2006**, 60, 2125-2128	16
1139	Growth and structural characterization of InN/In2O3 coaxial nanocables. **2006**, 60, 2153-2157	6
1138	Alignment of ZnO nanowires on Al, Ti, Pt electrodes. **2006**, 60, 2282-2287	3
1137	Anionic surfactant-assisted hydrothermal synthesis of high-aspect-ratio ZnO nanowires and their photoluminescence property. **2006**, 60, 2777-2782	57

1136	Necktie-like ZnO nanobelts grown by a self-catalytic VLS process. **2006**, 60, 3809-3812	10
1135	Systematic investigation of the formation of 1D alpha-Si(3)N(4) nanostructures by using a thermal-decomposition/nitridation process. **2006**, 12, 2987-93	43
1134	Dart-shaped tricrystal ZnS nanoribbons. **2006**, 45, 2568-71	56
1133	Fast Rate Growth of Organized Carbon Nanotubes by CVD Using Iron Pentacarbonyl as Gas-Phase Catalyst. **2006**, 12, 395-402	9
1132	MOCVD Synthesis of Germanium Filled Diamondlike Carbon Nanotubes and Microtubes from Organogermanium Precursors and Their Field-Emission Properties. **2006**, 12, 357-363	11
1131	Nanowire-Based Electrochemical Biosensors. **2006**, 18, 533-550	390
1130	Dart-Shaped Tricrystal ZnS Nanoribbons. **2006**, 118, 2630-2633	5
1129	Perfect Bi4Ti3O12 Single-Crystal Films via Flux-Mediated Epitaxy. **2006**, 16, 485-491	34
1128	Sequential Nucleation and Growth of Complex Nanostructured Films. **2006**, 16, 335-344	210
1127	Sharp Infrared Emission from Single-Crystalline Indium Nitride Nanobelts Prepared Using Guided-Stream Thermal Chemical Vapor Deposition. **2006**, 16, 537-541	59
1126	The Size-Dependent Growth Direction of ZnSe Nanowires. **2006**, 18, 109-114	107
1125	Tapered Carbon Nanotubes from Activated Carbon Powders. **2006**, 18, 197-200	22
1124	Biomimetic Synthesis of High-Tc, Type-II Superconductor Nanowires. **2006**, 18, 487-490	72
1123	Single-Crystalline AlGaN:Mn Nanotubes and Their Magnetism. **2006**, 18, 3019-3023	15
1122	Aligned Ultralong ZnO Nanobelts and Their Enhanced Field Emission. **2006**, 18, 3275-3278	247
1121	Indium phosphide nanostructures on hydrogenated silicon formed on metallic and dielectric substrates. **2006**,	
1120	III-V nanowires for optoelectronics. **2006**,	2
1119	Quantum Dots and Nanowires Grown by Metal Organic Chemical Vapor Deposition for Optoelectronic Device Applications. **2006**, 12, 1242-1254	2

1118	Theoretical analysis of the radius of semiconductor nanowires grown by the catalytic vapour–liquid–solid mechanism. **2006**, 18, 3875-3885	7
1117	Growth of Au-catalysed Si nanowires by low pressure chemical vapour deposition on Si(100) and amorphous Si surfaces. **2006**, 18, 10853-10859	6
1116	Properties of a pn junction developed with a Si microprobe by vapour–liquid–solid growth using in situ doping. **2006**, 21, 1364-1368	4
1115	Solidification driven extrusion of spikes during laser melting of silicon pillars. **2006**, 17, 2741-2744	14
1114	Selective growth of silica nanowires in silicon catalysed by Pt thin film. **2006**, 17, 4606-13	56
1113	High yield synthesis and lithography of silica-based nanospring mats. **2006**, 17, S298-S303	48
1112	Fabrication and photoluminescence of high-quality ternary CdSSe nanowires and nanoribbons. **2006**, 17, 1083-6	62
1111	Growth of Indium Nanorods by Magnetron Sputtering. **2006**, 23, 1627-1630	3
1110	Mechanical properties of amorphous nanosprings. **2006**, 17, 5620-6	18
1109	Catalyst-nanostructure interaction and growth of ZnS nanobelts. **2006**, 17, 1067-71	26
1108	Bulk quantities of single-crystal silicon micro-/nanoribbons generated from bulk wafers. **2006**, 6, 2318-24	90
1107	Deterministic shape-selective synthesis of nanowires, nanoribbons and nanosaws by steady-state vapour-transport. **2006**, 17, 1046-51	22
1106	Improving InAs nanotree growth with composition-controlled Au–In nanoparticles. **2006**, 17, 1344-1350	32
1105	Size and shape control of GaAs nanowires grown by metalorganic vapor phase epitaxy using tertiarybutylarsine. **2006**, 100, 094305	62
1104	Structure of twins in GaAs nanowires grown by the vapour–liquid–solid process. **2006**, 86, 807-816	17
1103	Interface study on heterostructured GaP-GaAs nanowires. **2006**, 17, 4010-3	56
1102	Nanomaterials and Nanomanufacturing. **2006**, 551-614	8
1101	Growth and structural properties of gallium oxide nanowires prepared by chemical vapour deposition. **2006**, 105, 84-87	3

1100	Design, Fabrication and Testing of a Novel Gas Sensor utilizing Vertically Aligned Zinc Oxide Nanowire Arrays. **2006**, 951, 9	1
1099	Effect of Atmosphere on Zinc Oxide Crystal Growth by Electric Current Heating with Au Catalyst. **2006**, 11-12, 269-272	1
1098	CRYSTAL STRUCTURE OF BRANCHED EPITAXIAL III□V NANOTREES. **2006**, 01, 139-151	9
1097	Time Resolved Photoconduction Studies of Uniformly Doped and p-n Junction Si Nanowires. **2006**, 958, 1	1
1096	Metal catalysis-free, direction-controlled planar growth of single-crystalline □-Si3N4 nanowires on Si(100) substrate. **2006**, 17, 3989-3993	14
1095	A Novel Fabrication Technique for Developing Metal Nanodroplet Arrays. **2006**, 940, 1	
1094	Growth and Kinetic Modeling of Fe(CO)[sub 5]-Catalyzed Carbon Nanotubes Grown by Chemical Vapor Deposition. **2006**, 153, J21	5
1093	Nitride and Oxide Based Nanowires Grown by Plasma-Assisted Molecular Beam Epitaxy. **2006**, 940, 1	
1092	The Growth Mechanism of Nanometer-scale GaAs, InAs, and AlGaAs Whiskers. **2006**, 153, C1	8
1091	Metal-Induced Nickel Silicide Nanowire Growth Mechanism in the Solid State Reaction. **2006**, 910, 7	
1090	Electroluminescence from Single 3D GaN Nanowire Grown by Self-Catalytic Molecular Beam Epitaxy. **2006**, 955, 1	1
1089	Highly aligned, template-free growth and characterization of vertical GaN nanowires on sapphire by metal□rganic chemical vapour deposition. **2006**, 17, 5773-5780	145
1088	Electrically directed assembly and detection of nanowire bridges in aqueous media. **2006**, 17, S280-S286	21
1087	Germanium nanowires: synthesis, morphology and local structure studies. **2006**, 17, 2925-2930	39
1086	Low-Temperature Solid-Phase Epitaxy of Defect-Free Aluminum p+-doped Silicon for Nanoscale Device Applications. **2006**, 940, 1	1
1085	Growth of silicon nanowires by chemical vapour deposition on gold implanted silicon substrates. **2006**, 17, 2895-2898	69
1084	Solid-state growth of nickel silicide nanowire by the metal-induced growth method. **2006**, 21, 2936-2940	12
1083	Silicon Surface Morphologies after Femtosecond Laser Irradiation. **2006**, 31, 626-633	139

1082	SILICON NANOWIRES FORMATION IN CMOS COMPATIBLE MANNER. **2006**, 05, 445-451		2
1081	Gas Sensor Based on the Network of SnO2 Semiconducting Nanowires. **2006**, 951, 3		3
1080	Conductivity and photoconductivity in undoped ZnSe nanowire array. **2006**, 99, 066106		19
1079	Manganese doping and optical properties of ZnS nanoribbons by postannealing. *Applied Physics Letters*, **2006**, 88, 013115	3.4	55
1078	Calculation of the temperature profile in nanowhiskers growing on a hot substrate. **2006**, 73,		32
1077	Large-scale fabrication of single-phase Er2SiO5 nanocrystal aggregates using Si nanowires. *Applied Physics Letters*, **2006**, 89, 223102	3.4	34
1076	Composition control in metal-organic vapor-phase epitaxy grown InGaAs nanowhiskers. **2006**, 100, 074321		22
1075	Synthesis of nanowires in room temperature ambient: A focused ion beam approach. *Applied Physics Letters*, **2006**, 88, 163114	3.4	12
1074	GaAs nanowires on Si substrates grown by a solid source molecular beam epitaxy. *Applied Physics Letters*, **2006**, 89, 053106	3.4	26
1073	Doping of germanium nanowires grown in presence of PH3. *Applied Physics Letters*, **2006**, 89, 263101	3.4	61
1072	Vapor-liquid-solid mechanisms: Challenges for nanosized quantum cluster/dot/wire materials. **2006** , 100, 044315		44
1071	Si-assisted growth of InAs nanowires. *Applied Physics Letters*, **2006**, 89, 223125	3.4	32
1070	Effect of size in nanowires grown by the vapor-liquid-solid mechanism. *Applied Physics Letters*, **2006** , 88, 143118	3.4	25
1069	Evolution of electronic structure and spectral evaluation in single-crystal Mn3O4 nanorods. **2006**, 124, 184707		13
1068	Regular MgO nanoflowers and their enhanced dielectric responses. *Applied Physics Letters*, **2006**, 88, 013101	3.4	70
1067	Retarded oxidation of Si nanowires. *Applied Physics Letters*, **2006**, 89, 263106	3.4	88
1066	Root-like structure at the nanowire/substrate interface in GaAs nanowires. *Applied Physics Letters*, **2006**, 88, 031919	3.4	1
1065	Phonon confinement and self-limiting oxidation effect of silicon nanowires synthesized by laser ablation. **2006**, 100, 024311		42

1064	InP nanobridges epitaxially formed between two vertical Si surfaces by metal-catalyzed chemical vapor deposition. *Applied Physics Letters*, **2006**, 89, 133121	3.4	36
1063	Mechanisms of size-dependent shape evolution of one-dimensional nanostructure growth. **2006**, 74,		17
1062	Growth Mechanism of Truncated Triangular GaAs Nanowires. **2006**,		
1061	Self-driven formation and structure of single crystal platelets of Zn3As2. *Applied Physics Letters*, **2006**, 89, 071901	3.4	8
1060	ZnTe nanowires grown on GaAs(100) substrates by molecular beam epitaxy. *Applied Physics Letters*, **2006**, 89, 133114	3.4	63
1059	Au-catalyzed growth processes and luminescence properties of ZnO nanopillars on Si. **2006**, 99, 054307		43
1058	Si nanowire growth and characterization using a microelectronics-compatible catalyst: PtSi. *Applied Physics Letters*, **2006**, 89, 233111	3.4	55
1057	Ion implantation based selective synthesis of silica nanowires on silicon wafers. *Applied Physics Letters*, **2006**, 88, 143110	3.4	50
1056	Electronic conduction in GaN nanowires. *Applied Physics Letters*, **2006**, 88, 072111	3.4	24
1055	Nanoskyscrapers of ferroelectric Bi4Ti3O12. *Applied Physics Letters*, **2006**, 88, 152904	3.4	13
1054	Catalyst-free growth of In(As)P nanowires on silicon. *Applied Physics Letters*, **2006**, 89, 063119	3.4	84
1053	Optical activation of implanted impurities in ZnS nanowires. **2006**, 24, 1356-1359		4
1052	Vapor-liquid-solid growth of silicon nanowires by chemical vapor deposition on implanted templates. **2006**, 100, 084323		23
1051	Towards controlled manipulation and assembly of ZnO nanowires for nanoscale imaging applications. *Applied Physics Letters*, **2006**, 89, 123114	3.4	4
1050	Morphology of germanium nanowires grown in presence of B2H6. *Applied Physics Letters*, **2006**, 88, 043113	3.4	48
1049	Boron nitride microfibers grown by plasma-assisted laser chemical vapor deposition without a metal catalyst. *Applied Physics Letters*, **2006**, 88, 151914	3.4	6
1048	Vertical GaP nanowires arranged at atomic steps on Si(111) substrates. *Applied Physics Letters*, **2006**, 89, 033114	3.4	31
1047	LOW-TEMPERATURE SYNTHESIS OF NOVEL ZINC OXIDE SINGLE-SIDED COMB-LIKE STRUCTURE. **2006**, 05, 207-212		

1046	DIAMOND NANORODS FROM CARBON NANOTUBES BY HYDROGEN PLASMA TREATMENT. **2006**, 05, 307-313	3
1045	One-dimensional conductive IrO2nanocrystals. **2006**, 17, R67-R87	49
1044	Buffer controlled GaN nanorods growth on Si(111) substrates by plasma-assisted molecular beam epitaxya). **2006**, 24, 845	20
1043	Chapter 4 Modification and passivation of colloidal particles. **2006**, 225-292	
1042	SiC Nanowires by Silicon Carburization. **2006**, 963, 1	3
1041	On the formation of Si nanowires by molecular beam epitaxy. **2006**, 97, 1008-1015	69
1040	Gallium Nitride: Synthesis and Characterization. **2007**, 66, 1-16	3
1039	Static NMOS circuits for crossbar architectures using silicon nano-wire technology. **2007**, 22, 54-64	8
1038	MBE GROWTH OF GaAs NANOWHISKERS STIMULATED BY THE ADATOM DIFFUSION. **2007**, 06, 225-231	0
1037	Epitaxial III-V Nanowires on Lattice-Mismatched Substrates by MOCVD. **2007**,	
1036	Solid Au nanoparticles as a catalyst for growing aligned ZnO nanowires: a new understanding of the vapour□quid□olid process. **2007**, 18, 365304	59
1035	Synthesis and electronic properties of transition metal oxide core□hell nanowires. **2007**, 18, 044019	13
1034	Symmetric growth of carbon nanosheets on Cu nanowires by a surface diffusion mechanism. **2007**, 18, 345607	9
1033	Epitaxial Growth of III-V Nanowires on Group IV Substrates. **2007**, 32, 117-122	87
1032	Synthesis of germanium nanowires on insulator catalyzed by indium or antimony. **2007**, 25, 415	33
1031	p-Si Microprobe Arrays Grown at Low Temperature by Selective VLS Using In-Situ Doping and Their Properties. **2007**,	
1030	FORMATION OF Y- AND T-JUNCTION Ge NANOWIRES BY VAPOR□IQUID□OLID MECHANISM. **2007**, 06, 467-471	
1029	InP nanowire photodetectors heteroepitaxially grown between silicon electrodes. **2007**, 6779, 120	

1028	Selected-Area Growth of SnO2Nanowires on TiO2Layer through Reduction of Hydrogen Gas. **2007**, 46, 1792-1796	6
1027	Anisotropic Growth of Nanostructures in Germanium Electroplating. **2007**, 10, D121	8
1026	Nanowebs and nanocables of silicon carbide. **2007**, 18, 335607	17
1025	Theoretical investigations of Ge nanowires grown along the [110] and [111] directions. **2007**, 18, 295706	28
1024	Mechanical elasticity of vapour-liquid-solid grown GaN nanowires. **2007**, 18, 135708	25
1023	Exciton and Biexciton Emissions from Single GaAs Quantum Dots in (Al,Ga)As Nanowires. **2007**, 46, 2578-2580	10
1022	Structural characteristics of single-crystal nanowires grown by self-catalytic chemical vapor deposition method. **2007**, 25, 1909	11
1021	Formation of Decacyclene Nanowire by Rapid Vapor Deposition. **2007**, 46, 703-707	7
1020	Self-induced preparation of TiSi nanopins by chemical vapor deposition. **2007**, 18, 345605	14
1019	Spontaneous formation of Si nanocones vertically aligned to Si wafers. **2007**, 25, 808	2
1018	Indium Phosphide Nanoneedles on Non-single Crystalline Semiconductor Surfaces. **2007**, 46, 6346-6351	8
1017	InGaAs/InP core□shell and axial heterostructure nanowires. **2007**, 18, 385305	21
1016	GaP/GaAsP/GaP core□multishell nanowire heterostructures on (111) silicon. **2007**, 18, 445304	55
1015	Is it possible to grow amorphous normal nanosprings?. **2007**, 18, 435606	4
1014	Plasma-enhanced chemical vapour deposition growth of Si nanowires with low melting point metal catalysts: an effective alternative to Au-mediated growth. **2007**, 18, 505307	109
1013	SiGe nanowire growth and characterization. **2007**, 18, 075302	26
1012	Single-step growth and low resistance interconnecting of gold nanowires. **2007**, 18, 175707	28
1011	Temperature dependent shape transformation of Ge nanostructures by the vapor-liquid-solid method. **2007**, 101, 074307	17

1010	Thermal and chemical vapor deposition of Si nanowires: Shape control, dispersion, and electrical properties. **2007**, 102, 034302		72
1009	Concerning the 506cm−1 band in the Raman spectrum of silicon nanowires. *Applied Physics Letters*, **2007**, 91, 123107	3.4	24
1008	Diameter control of gallium nitride nanowires. **2007**, 101, 094305		23
1007	Time-Resolved Photoluminescence Studies and Spectral Narrowing in ZnO Nanostructures. **2007**,		
1006	Mechanism of catalyst diffusion on magnesium oxide nanowire growth. *Applied Physics Letters*, **2007**, 91, 061502	3.4	49
1005	Novelty and versatility of self-catalytic nanowire growth: A case study with InN nanowires. **2007**, 25, 940		24
1004	High Transconductance MISFET With a Single InAs Nanowire Channel. **2007**, 28, 682-684		62
1003	Effect of oxide thickness on the low temperature (≤400 °C) growth of cone-shaped silicon nanowires. **2007**, 102, 046102		4
1002	GaAs whiskers grown by metal-organic vapor-phase epitaxy using Fe nanoparticles. **2007**, 101, 054318		16
1001	. **2007**, 6, 291-302		11
1000	Study of the initial nucleation and growth of catalyst-free InAs and Ge nanowires. *Applied Physics Letters*, **2007**, 90, 203104	3.4	11
999	Surface thermomigration of nanoscale Pt-Si droplets on stepped Si(100). **2007**, 76,		9
998	Growth and characterization of stoichiometric tungsten oxide nanorods by thermal evaporation and subsequent annealing. **2007**, 18, 395604		60
997	Synthesis and analysis of abnormal wurtzite ZnSe nanowheels. **2007**, 102, 044302		29
996	Template fabrication of SiO2 nanotubes. *Applied Physics Letters*, **2007**, 90, 103114	3.4	9
995	Critical diameter for III-V nanowires grown on lattice-mismatched substrates. *Applied Physics Letters*, **2007**, 90, 043115	3.4	186
994	In situ NiSi nanowire junction based on substrate sourced growth and its electrical transport behavior. *Applied Physics Letters*, **2007**, 90, 253115	3.4	1
993	Integrated silicon nanowire diodes and the effects of gold doping from the growth catalyst. **2007**, 102, 054310		18

992	Ceramic liquid droplets stabilized in vacuum. **2007**, 101, 033511		9
991	Characterization of Fabry-PÉrot microcavity modes in GaAs nanowires fabricated by selective-area metal organic vapor phase epitaxy. *Applied Physics Letters*, **2007**, 91, 131112	3.4	52
990	Critical condition for growth of silicon nanowires. **2007**, 102, 094906		51
989	Selective area synthesis of magnesium oxide nanowires. **2007**, 102, 104906		8
988	Three-stage transition during silicon carbide nanowire growth. *Applied Physics Letters*, **2007**, 90, 083106	3.4	42
987	Selective growth of catalyst-free ZnO nanowire arrays on Al:ZnO for device application. *Applied Physics Letters*, **2007**, 91, 233112	3.4	44
986	Conditions for subeutectic growth of Ge nanowires by the vapor-liquid-solid mechanism. **2007**, 102, 094311		39
985	InAs nanowires on Si substrates grown by solid source molecular beam epitaxy. **2007**, 18, 355603		35
984	Preparation and Photoluminescence of ZnO Nanorods Arrays. **2007**, 20, 213-216		1
983	Fabrication of Si1−xGex alloy nanowire field-effect transistors. *Applied Physics Letters*, **2007**, 91, 033104	3.4	29
982	Effects of V/III Ratios for InP Nanowires Grown on Si Substrates. **2007**,		
981	Phonon Confinement and Impurity Doping in Silicon Nanowires Synthesized by Laser Ablation. **2007**, 131-133, 553-558		
980	Single-crystalline PrB6nanowires and their field-emission properties. **2007**, 18, 115621		25
979	Growth model of lantern-like amorphous silicon oxide nanowires. **2007**, 18, 125601		20
978	Production of Si3N4 Whiskers in Solid Mixtures through Vapor-Solid Mechanism Using 2MgO 2Al2O3 5SiO2 as Sintering Additives. **2007**, 280-283, 1227-1230		
977	Synthesis of Disarrayed and Arrayed ZnO Nanowires by Physical Evaporation Deposition Approach without Catalysts. **2007**, 121-123, 9-12		1
976	Electrical Characterizations of InGaAs Nanowire-Top-Gate Field-Effect Transistors by Selective-Area Metal Organic Vapor Phase Epitaxy. **2007**, 46, 7562-7568		38
975	Growth and microstructural characterization of catalyst-free ZnO nanostructures grown on sapphire and GaN by thermal evaporation. **2007**, 22, 937-942		12

974	Directed Growth of Branched Nanowire Structures. **2007**, 32, 127-133	38
973	Growth and Raman Spectroscopy of Single Crystal ZnGeN2 Rods Grown from a Molten Zn/Ge Alloy. **2007**, 1040, 1	5
972	Silicon Nanowires: Growth Studies Using Pulsed PECVD. **2007**, 989, 3	8
971	Synthesis and Characterization of In-Doped SnO2 (ITO) Nanowires. **2007**, 121-123, 209-214	2
970	Synthesis of MgO Nanowires Combined with C Nanotubes. **2007**, 280-283, 1167-1170	
969	Quantitative EELS Analysis of AlGaN Nanowires Grown by Ni Promoted MBE on Sapphire Substrate. **2007**, 1026, 1	
968	The Effect of Surface States on Secondary Electron (SE) Dopant Contrast from Silicon p-n Junctions. **2007**, 1026, 1	1
967	Characterization of GaP Nanowires Synthesized by Chemical Vapor Deposition. **2007**, 534-536, 25-28	
966	Pulsed PECVD Growth of Silicon Nanowires on Various Substrates. **2007**, 1058, 1	1
965	Growth of ZnO Submicron Single-Crystalline Platelets, Wires, and Rods by Ultrasonic Spray Pyrolysis. **2007**, 46, 440-448	35
964	Modeling the Carrier Mobility in Nanowire Channel FET. **2007**, 1017, 139	4
963	Synthesis of Silicon Carbide Nanowires Doped with Al2O3. **2007**, 353-358, 2171-2174	3
962	Synthesis of Iron Oxide Nanowires by Heating Iron Foils. **2007**, 342-343, 597-600	
961	Self-branching in GaN Nanowires Induced by a Novel Vapor-Liquid-Solid Mechanism. **2007**, 1058, 1	1
960	An Empirical Interatomic Potential Approach to Structural Stability of ZnS and ZnSe Nanowires. **2007**, 46, 1783-1787	21
959	Growth of Boron Nanowires by Chemical Vapor Deposition. **2007**, 1017, 20	
958	New type of BN nanoparticles and films prepared by synergetic deposition processes using laser and plasma: the nanostructures, properties and growth mechanisms. **2007**, 40, 2320-2340	17
957	Effect of substrate orientation on the catalyst-free growth of InP nanowires. **2007**, 18, 155301	35

956	Silicon Nanowire Electromechanical Switch for Logic Device Application. **2007**, 1018, 1	2
955	Alternative Catalysts For Si-Technology Compatible Growth Of Si Nanowires. **2007**, 1017, 14	2
954	Synthesis of SiOx Nanowires through the Thermal Heating of Au-Coated Si Substrates. **2007**, 119, 79-82	
953	III-V Semiconductor Vertical and Tilted Nanowires on Silicon Using Chemical Beam Epitaxy. **2007**, 1031, 1	0
952	Formation of Silicon Nanowires by CVD Using Gold Catalysts at Low Temperatures. **2007**, 48, 2202-2206	18
951	Synthesis and properties of □conjugated organic molecular one-dimensional nanomaterials. **2007**, 4, 197	8
950	Growth kinetics of InP nanowires heteroepitaxially grown on a silicon surface. **2007**,	
949	Preparation of nanowires from silicon whiskers. **2007**, 61, 352-358	2
948	Ultra-fast growth of In nanowires on In-rich InGaN layers by focused ion beam irradiation. **2007**, 61, 884-888	0
947	Persistent photoconductivity of InP nanowire photoconductors bridged between amorphous silicon electrodes. **2007**,	4
946	Catalytic growth of ZnTe nanowires by molecular beam epitaxy: structural studies. **2007**, 18, 475606	52
945	Schottky-Barrier Si Nanowire MOSFET: Effects of Source/Drain Metals and Gate Dielectrics. **2007**, 1017, 133	4
944	Real-time observation of formation of indium phosphide nanowires by means of GISAXS. **2007**, 83, 012035	
943	Growth Mechanism of Indium Tin Oxide Whiskers Prepared by Sputtering. **2007**, 46, 3537-3544	18
942	Bond-order potential for transition metal carbide cluster for the growth simulation of a single-walled carbon nanotube. **2007**, 39, 842-848	83
941	The SERS and TERS effects obtained by gold droplets on top of Si nanowires. **2007**, 7, 75-80	62
940	Smooth silicon oxide nanowires under supercritically hydrothermal conditions. **2007**, 353, 159-163	6
939	Synthesis of aligned ripple-like and helical structure silica fibres. **2007**, 353, 1041-1045	2

938	Study of Bi2O3 nanorods grown using the MOCVD technique. **2007**, 126, 306-310		32
937	High-sensitivity humidity sensor based on a single SnO(2) nanowire. **2007**, 129, 6070-1		743
936	Crystalline surface phases of the liquid Au-Si eutectic alloy. **2007**, 76,		34
935	Single-Crystal Semiconducting Chromium Disilicide Nanowires Synthesized via Chemical Vapor Transport. **2007**, 19, 3238-3243		69
934	Catalyst-assisted solution-liquid-solid synthesis of CdS/CdSe nanorod heterostructures. **2007**, 129, 133-8		162
933	Growth of GaN free-standing nanowires by plasma-assisted molecular beam epitaxy: structural and optical characterization. **2007**, 18, 385306		103
932	Mechanism of molecular beam epitaxy growth of GaN nanowires on Si(111). *Applied Physics Letters*, **2007**, 90, 123117	3.4	195
931	Functional Nanowires. **2007**, 32, 99-108		887
930	Controlling the Growth Mechanism of ZnO Nanowires by Selecting Catalysts. **2007**, 111, 17500-17505		97
929	Directed growth of diameter-tunable nanowires. **2007**, 18, 365302		32
928	In situ control of atomic-scale Si layer with huge strain in the nanoheterostructure NiSi/Si/NiSi through point contact reaction. **2007**, 7, 2389-94		127
927	Point contact reactions between Ni and Si nanowires and reactive epitaxial growth of axial nano-NiSi□Si. *Applied Physics Letters*, **2007**, 90, 253111	3.4	51
926	Shape- and Size-controlled Growth of ZnS Nanostructures. **2007**, 111, 8469-8474		70
925	Why does wurtzite form in nanowires of III-V zinc blende semiconductors?. **2007**, 99, 146101		615
924	Strong broadband optical absorption in silicon nanowire films. **2007**, 1, 013552		241
923	Silicon-based low-dimensional nanomaterials and nanodevices. **2007**, 107, 1454-532		208
922	Towards vertical III-V nanowire devices on silicon. **2007**,		0
921	Quasi-aligned Zn1□MgxO nanorods synthesized by thermal evaporation. **2007**, 40, 3490-3493		15

920	Nano- and Microstructured Semiconductor Materials for Macroelectronics. **2007**, 375-400		1
919	Steady growth of nanowires via the vapor-liquid-solid method. **2007**, 102, 034304		57
918	Using pn junction depletion regions to position epitaxial nanowires. **2007**, 102, 044311		10
917	Nano-enabled synthetic biology. **2007**, 3, 125		92
916	Complementary Metal-Oxide-Semiconductor Compatible Al-Catalyzed Silicon Nanowires. **2007**, 10, E11		22
915	Growth of Silicon Carbide Nanowires by a Microwave Heating-Assisted Physical Vapor Transport Process Using Group VIII Metal Catalysts. **2007**, 19, 5531-5537		70
914	Self-catalytic solution for single-crystal nanowire and nanotube growth. **2007**, 127, 244702		24
913	Silicon, Germanium and Silicon-Germanium Liquid Phase Epitaxy. **2007**, 109-178		3
912	Hyperbranched PbS and PbSe nanowires and the effect of hydrogen gas on their synthesis. **2007**, 7, 2907-12		149
911	Quantum-confinement effects in InAs-InP core-shell nanowires. **2007**, 19, 295219		30
910	GaAu alloy catalyst for single crystal silicon-nanowire epitaxy. *Applied Physics Letters*, **2007**, 90, 023109	3.4	23
909	Materials science. How nanowires grow. **2007**, 316, 698-9		58
908	Silicon nanowires: the key building block for future electronic devices. **2007**, 17, 4639		103
907	Vertically aligned wurtzite CdTe nanowires derived from a catalytically driven growth mode. **2007**, 18, 275301		64
906	Growth of branched single-crystalline GaAs whiskers on Si nanowire trunks. **2007**, 18, 355306		26
905	Oxide Shell Assisted VaporLiquidSolid Growth of Periodic Composite NanowiresA Case of Si/Sn. **2007**, 19, 5598-5601		9
904	Diameter-dependent growth rate of InAs nanowires. **2007**, 76,		137
903	. **2007**, 35, 460-466		6

902	Towards vertical III-V nanowire devices. **2007**,		
901	Enhanced luminescence from catalyst-free grown InP nanowires. *Applied Physics Letters*, **2007**, 90, 033101	3.4	39
900	Photoelectron spectroscopy of individual nanowires of Si and Ge. *Applied Physics Letters*, **2007**, 91, 233116	3.4	8
899	Controlled catalytic growth and characterization of zinc oxide nanopillars on a-plane sapphire. **2007**, 101, 054319		24
898	Monte Carlo Simulation of Silicon Nanowhiskers Growth. **2007**,		0
897	Silicon nanowire electromechanical switches for logic device application. **2007**, 18, 315202		44
896	Efficient production of ZnO nanowires by a ball milling and annealing method. **2007**, 18, 175604		35
895	Nanowire electrochemical sensors: can we live without labels?. **2007**, 7, 19-23		24
894	Formation of Ge-based nanowires for nanoelectronic applications by vapor-liquid-solid mechanism. **2007**,		1
893	Synthesizing and Comparing the Photocatalytic Activities of Single-Crystalline TiO[sub 2] Rutile Nanowires and Mesoporous Anatase Paste. **2007**, 154, H157		21
892	Structure and Morphology of Annealed Gold Films Galvanically Displaced on the Si(111) Surface. **2007**, 111, 7508-7513		29
891	Single n-InAs Nanowire MIS-Field-Effect Transistor: Experimental and Simulation Results. **2007**,		1
890	Controlled growth and field emission properties of CuS nanowalls. **2007**, 18, 145706		61
889	Vapor-solid-solid synthesis of Ge nanowires from vapor-phase-deposited manganese germanide seeds. **2007**, 129, 10670-1		40
888	Lanthanum Hexaboride Nanoobelisks. **2007**, 19, 6379-6381		51
887	Correlating electrical resistance to growth conditions for multiwalled carbon nanotubes. *Applied Physics Letters*, **2007**, 91, 093105	3.4	12
886	Phosphorus doping and hydrogen passivation of donors and defects in silicon nanowires synthesized by laser ablation. *Applied Physics Letters*, **2007**, 90, 153117	3.4	36
885	Nanowire electromechanical logic switch. **2007**,		

884 Si nanowire semisphere-like ensembles as field emitters. **2007**, 4093-5 39

883 Solution□iquid□olid-Induced Tip-Growth of Filled-GaN Nanotubes on MCM-48 Microspheres. **2007**, 111, 2386-2390 8

882 Optical size effects in ultrathin ZnO nanowires. **2007**, 18, 435701 53

881 A self-assembly SHS approach to form silicon carbide nanofibres. **2007**, 19, 395022 22

880 Polarization-sensitive nanowire photodetectors based on solution-synthesized CdSe quantum-wire solids. **2007**, 7, 2999-3006 88

879 Growth of InAs Nanowires on SiO2 Substrates: Nucleation, Evolution, and the Role of Au Nanoparticles. **2007**, 111, 13331-13336 35

878 One-dimensional Silicon□admium Selenide Heterostructures. **2007**, 111, 8475-8482 13

877 Suspended mechanical structures based on elastic silicon nanowire arrays. **2007**, 7, 1100-4 52

876 Morphology- and orientation-controlled gallium arsenide nanowires on silicon substrates. **2007**, 7, 39-44 86

875 Influence of Cu as a catalyst on the properties of silicon nanowires synthesized by the vapour□olid□olid mechanism. **2007**, 18, 305606 132

874 Self-Assembly of Clewlike ZnO Superstructures in the Presence of Copolymer. **2007**, 111, 9729-9733 53

873 Sn(78)Ge(22)@carbon core-shell nanowires as fast and high-capacity lithium storage media. **2007**, 7, 2638-41 119

872 Large-Scale Synthesis of Closed Loop Silica Fibers. **2007**, 111, 16207-16210 2

871 GaAs:Mn nanowires grown by molecular beam epitaxy of (Ga,Mn)as at MnAs segregation conditions. **2007**, 7, 2724-8 46

870 Fabrication of Coaxial Zn/ZnS Core/Shell Fibers on a Large Scale. **2007**, 111, 5673-5676 6

869 A magnetism-assisted chemical vapor deposition method to produce branched or iron-encapsulated carbon nanotubes. **2007**, 129, 7364-8 36

868 Synthesis and structural characterization of single-crystalline branched nanowire heterostructures. **2007**, 7, 264-8 156

867 Nanowire-based delivery of Escherichia coli O157 shiga toxin 1 A subunit into human and bovine cells. **2007**, 7, 2718-23 28

866	A facile approach to synthesize single-crystalline rutile TiO2one-dimensional nanostructures. **2007**, 18, 445609	50
865	Ordered arrays of -oriented silicon nanorods by CMOS-compatible block copolymer lithography. **2007**, 7, 1516-20	104
864	Single-crystalline nanowires of SiC synthesized by carbothermal reduction of electrospun PVP/TEOS composite fibres. **2007**, 18, 245606	29
863	Synthesis and Structures of High-Quality Single-Crystalline II3V2Semiconductors Nanobelts. **2007**, 111, 5044-5049	29
862	Toward Industrial-Scale Fabrication of Nanowire-Based Devices. **2007**, 19, 5279-5284	49
861	Lamellar Twinning in Semiconductor Nanowires. **2007**, 111, 2929-2935	139
860	Diameter-dependent elastic modulus supports the metastable-catalyst growth of carbon nanotubes. **2007**, 7, 1598-602	40
859	Controlled Growth of Silicon Oxide Nanowires from a Patterned Reagent. **2007**, 111, 1865-1867	3
858	Gold-catalyzed oxide nanopatterns for the directed assembly of Ge island arrays on Si. **2007**, 7, 2655-9	18
857	SYNTHESIS AND PROPERTIES OF ONE-DIMENSIONAL ALUMINUM NITRIDE NANOSTRUCTURES. **2007**, 02, 307-331	10
856	Triple-Crystal Zinc Selenide Nanobelts. **2007**, 111, 9055-9059	27
855	Ultra thin and ultra long SiC/SiO2nanocables from catalytic pyrolysis of poly(dimethyl siloxane). **2007**, 18, 485601	26
854	CuInS2 Flower Vaselike Nanostructure Arrays on a Cu Tape Substrate by the Copper Indium Sulfide on Cu-Tape (CISCuT) Method: Growth and Characterization. **2007**, 7, 1547-1552	27
853	Signal enhancement in nano-Raman spectroscopy by gold caps on silicon nanowires obtained by vapour-liquid-solid growth. **2007**, 18, 035503	39
852	Synthesis and Growth Mechanism of ZnO Nanoneedles Using Thermal Oxidation Upon a Plated Zn Nanocrystalline Layer. **2007**, 26-28, 597-600	0
851	Silicon nanowire on oxide/nitride/oxide for memory application. **2007**, 18, 235204	34
850	Germanium nanowire growth below the eutectic temperature. **2007**, 316, 729-32	512
849	Morphology control of layer-structured gallium selenide nanowires. **2007**, 7, 199-203	71

848	Growth and optical properties of large-quantity single-crystalline ZnO rods by thermal evaporation. **2007**, 40, 3478-3484		19
847	From Copper Nanocrystalline to CuO Nanoneedle Array: Synthesis, Growth Mechanism, and Properties. **2007**, 111, 5050-5056		153
846	Nanowires. **2007**, 113-160		9
845	Structure and photoluminescence of ZnSe nanostructures fabricated by vapor phase growth. **2007**, 101, 014326		33
844	A Dual Catalytic Role of Co Nanoparticles in Bulk Synthesis of Si-Based Nanowires. **2007**, 153-181		
843	Axial and radial growth of Ni-induced GaN nanowires. *Applied Physics Letters*, **2007**, 91, 093113	3.4	71
842	Crystal Growth. **2007**,		0
841	Field emission from silicon nanowires: Conditioning and stability. **2007**, 102, 054906		11
840	Kinetic Monte Carlo simulation of vapor-liquid-solid nanostructure growth. **2007**, 102, 104301		2
839	High-order waveguide modes in ZnO nanowires. **2007**, 7, 3675-80		142
838	Silicon nanowire solar cells. *Applied Physics Letters*, **2007**, 91, 233117	3.4	799
837	Manganese Oxide Nanorod with 2 □4 Tunnel Structure:´Synthesis and Electrochemical Properties. **2007**, 7, 1375-1377		44
836	Growth and characterization of InP nanowires with InAsP insertions. **2007**, 7, 1500-4		102
835	Precise Alignment of Single Nanowires and Fabrication of Nanoelectromechanical Switch and Other Test Structures. **2007**, 6, 256-262		47
834	Synthesis of bismuth oxide nanostructures by an oxidative metal vapour phase deposition technique. **2007**, 18, 295605		56
833	Growth of vertically aligned Si wire arrays over large areas (>1cm2) with Au and Cu catalysts. *Applied Physics Letters*, **2007**, 91, 103110	3.4	234
832	Metastability of Au-Ge liquid nanocatalysts: Ge vapor-liquid-solid nanowire growth far below the bulk eutectic temperature. **2007**, 1, 415-22		82
831	Synthesis of single-crystalline Zn metal nanowires utilizing cold-wall physical vapor deposition. **2007**, 7, 2540-4		29

830	A Nanowire Growth Technique Utilizing Focused Ion Beams. **2007**,	
829	[Au3Ge18](5-)--a gold-germanium cluster with remarkable Au-Au interactions. **2007**, 46, 1638-40	95
828	A New Route to Large-Scale Synthesis of Silicon Nanowires in Ultrahigh Vacuum. **2007**, 17, 1729-1734	14
827	Nanowire Structural Evolution from Fe3O4 to ?-Fe2O3. **2007**, 17, 1172-1178	89
826	A New Technique for Controllably Producing Branched or Encapsulating Nanostructures in a Vapor□liquid□Solid Process. **2007**, 19, 386-390	28
825	When Small Is Different: Some Recent Advances in Concepts and Applications of Nanoscale Phenomena. **2007**, 19, 639-655	208
824	Mg3N2-Ga: Nanoscale Semiconductor□liquid Metal Heterojunctions inside Graphitic Carbon Nanotubes. **2007**, 19, 1342-1346	9
823	Synthesis of Silicon Nanowires with Wurtzite Crystalline Structure by Using Standard Chemical Vapor Deposition. **2007**, 19, 1347-1351	136
822	Low-Temperature Epitaxial Growth of Vertical In2O3 Nanowires on A-Plane Sapphire with Hexagonal Cross-Section. **2007**, 19, 3012-3015	43
821	Influence of Plasma Stimulation on Si Nanowire Nucleation and Orientation Dependence. **2007**, 19, 2603-2607	35
820	Epitaxial Growth of Indium Arsenide Nanowires on Silicon Using Nucleation Templates Formed by Self-Assembled Organic Coatings. **2007**, 19, 1801-1806	84
819	Growth and Electrical Characteristics of Platinum-Nanoparticle-Catalyzed Silicon Nanowires. **2007**, 19, 2946-2950	79
818	Oriented Bicrystalline GaN Nanowire Arrays suitable for Field Emission Applications. **2007**, 13, 527-532	15
817	Time-resolved synchrotron radiation excited optical luminescence: light-emission properties of silicon-based nanostructures. **2007**, 8, 2557-67	51
816	Vapour phase transport growth of ZnO layers and nanostructures. **2007**, 42, 33-39	30
815	Large-scale synthesis of neodymium hexaboride nanowires by self-catalyst. **2007**, 141, 53-56	34
814	Mechanism of the growth of ZnSe nanowires with Fe catalysts. **2007**, 141, 228-232	6
813	Solution synthesis of ZnO nanotubes via a template-free hydrothermal route. **2007**, 141, 620-623	32

812	Growth of GaN nanowires through a pyrolysis method with vapor□quid□olid mechanism. **2007**, 201, 5578-5581	4
811	Synthesis of indium oxide nanorods on indium phosphide substrate using plasma immersion ion implantation. **2007**, 201, 6816-6818	3
810	Organometallic precursors as catalyst to grow three-dimensional micro/nanostructures: Spheres, clusters & wires. **2007**, 201, 9104-9108	5
809	Plasma assisted growth of nanotubes and nanowires. **2007**, 201, 9215-9220	25
808	The effects of hydrogen and temperature on the growth and microstructure of carbon nanotubes obtained by the Fe(CO)5 gas-phase-catalytic chemical vapor deposition. **2007**, 201, 9172-9178	15
807	Diffusion-controlled growth of semiconductor nanowires: Vapor pressure versus high vacuum deposition. **2007**, 601, 4395-4401	53
806	The field emission in the alternative electric fields. **2007**, 107, 838-43	6
805	Growth of zinc oxide thin films and nanostructures by wet oxidation. **2007**, 515, 3323-3329	29
804	Millisecond crystallization of amorphous silicon films by Joule-heating induced crystallization using a conductive layer. **2007**, 515, 5357-5361	23
803	In2O3 nanowires for gas sensors: morphology and sensing characterisation. **2007**, 515, 8356-8359	75
802	Ultrafast laser assisted fabrication of ZnO nanorod arrays for photon detection applications. **2007**, 253, 7851-7854	12
801	The O2-dependent growth of ZnO nanowires and their photoluminescence properties. **2007**, 33, 1119-1123	11
800	Synthesis, growth mechanism and magnetic properties of SiO2-coated Co nanocapsules. **2007**, 55, 3727-3733	26
799	Study of focused ion beam response of GaSb. **2007**, 255, 309-313	11
798	Silicon nanowire synthesis on metal implanted silicon substrates. **2007**, 257, 172-176	10
797	Stoichiometry investigations of interlayer of GaAs/AlAs heterostructures. **2007**, 260, 314-316	1
796	FIB induced growth of antimony nanowires. **2007**, 84, 1440-1442	2
795	Synthesis, structure and magnetic properties of SiO2-coated Fe nanocapsules. **2007**, 454-455, 211-215	44

794	New materials for micro-scale sensors and actuators. **2007**, 56, 1-129	384
793	Self-catalyst growth of single-crystalline CaB6 nanostructures. **2007**, 180, 2577-2580	23
792	Growth of Si whiskers by MBE: Mechanism and peculiarities. **2007**, 37, 148-152	27
791	Effects of Ni catalyst–substrate interaction on carbon nanotubes growth by CVD. **2007**, 37, 21-25	15
790	Flower-like silicon nanostructures. **2007**, 38, 27-30	5
789	An analysis on synthesizing large scales of one-dimensional silicon nano-structures by simple evaporation of sulfur-contained powders. **2007**, 39, 244-247	2
788	First-principles studies on the Au surfactant on polar ZnO surfaces. **2007**, 363, 327-331	13
787	Au-catalyst growth and photoluminescence of zinc-blende and wurtzite ZnS nanobelts via chemical vapor deposition. **2007**, 122-123, 172-175	29
786	Synthesis and room temperature photoluminescence of ZnO/CTAB ordered layered nanocomposite with flake-like architecture. **2007**, 126, 661-664	41
785	High response and stability in CO and humidity measures using a single SnO2 nanowire. **2007**, 121, 3-17	132
784	Effect of varying the nanostructured porous-Si process parameters on the performance of Pd-doped hydrogen sensor. **2007**, 127, 74-81	17
783	MOVPE growth and real structure of vertical-aligned GaAs nanowires. **2007**, 298, 625-630	37
782	InAs nanowires grown by MOVPE. **2007**, 298, 631-634	32
781	Catalyst-free fabrication of InP and InP(N) nanowires by metalorganic vapor phase epitaxy. **2007**, 298, 640-643	9
780	Growth and characterisation of GaAs/InGaAs/GaAs nanowhiskers on (111) GaAs. **2007**, 298, 607-611	44
779	Growth of highly uniform InAs nanowire arrays by selective-area MOVPE. **2007**, 298, 644-647	112
778	Low-temperature MOCVD growth of InN buffer layers with indium pre-deposition technology. **2007**, 300, 123-126	8
777	Growth temperature dependence of MBE-grown ZnSe Nanowires. **2007**, 301-302, 866-870	13

776	GaAs nanowires formed by Au-assisted molecular beam epitaxy: Effect of growth temperature. **2007**, 301-302, 853-856	61
775	GaN nanorings: Another example of spontaneous polarization-induced nanostructure. **2007**, 303, 427-432	21
774	Fabrication of large-scale, layer-deposited, low oxygen-content and uniform silicon nanowires. **2007**, 303, 391-394	4
773	Silicon nanowire growth by electron beam evaporation: Kinetic and energetic contributions to the growth morphology. **2007**, 300, 288-293	38
772	Self-catalyst growth of EuB6 nanowires and nanotubes. **2007**, 303, 466-471	22
771	Growth of high quality, epitaxial InSb nanowires. **2007**, 304, 399-401	47
770	General form of the dependences of nanowire growth rate on the nanowire radius. **2007**, 304, 504-513	65
769	Collector Droplet Behavior during Formation of Nanowire Junctions. **2020**, 11, 6498-6504	1
768	Silicon Nanowires and Their Impact on Cancer Detection and Monitoring. **2020**, 3, 8522-8536	9
767	Recent Advances in Vertically Aligned Nanowires for Photonics Applications. **2020**, 11,	3
766	3D Ordering at the Liquid-Solid Polar Interface of Nanowires. **2020**, 32, e2001030	5
765	New Schottky-Type Wire-Based Solar Cell with NiSi Nanowire Contacts. **2020**, 12, 37464-37469	0
764	State of the Art and Future Perspectives in Advanced CMOS Technology. **2020**, 10,	48
763	Large-Scale Synthesis of Highly Uniform Silicon Nanowire Arrays Using Metal-Assisted Chemical Etching. **2020**, 32, 9425-9434	22
762	High responsivity GaN nanowire UVA photodetector synthesized by hydride vapor phase epitaxy. **2020**, 128, 155705	3
761	Axially Segmented Semiconductor Heteronanowires. **2020**, 1, 126-136	5
760	Modeling Metal-Catalyzed Lateral Epitaxy. **2020**,	1
759	Modulating Surface/Interface Structure of Emerging InGaN Nanowires for Efficient Photoelectrochemical Water Splitting. **2020**, 30, 2005677	19

758	Stable and high yield growth of GaP and InGaAs nanowire arrays using In as a catalyst. **2020**, 12, 18240-18248	4
757	Single-nanostructure bandgap engineering enabled by magnetic-pulling thermal evaporation growth. **2020**, 2, 4305-4322	
756	Investigation of Au droplet formation and growth of SixGe1⊠ nanowires by molecular beam epitaxy. **2020**, 22, 6322-6329	
755	Methane Pyrolysis for CO2-Free H2 Production: A Green Process to Overcome Renewable Energies Unsteadiness. **2020**, 92, 1596-1609	32
754	A New Possibility for Fermentation Monitoring by Electrical Driven Sensing of Ultraviolet Light and Glucose. **2020**, 10,	1
753	Low-Temperature In-Induced Holes Formation in Native-SiO/Si(111) Substrates for Self-Catalyzed MBE Growth of GaAs Nanowires. **2020**, 13,	
752	Design of Silicon Nanowire Array for PEDOT:PSS-Silicon Nanowire-Based Hybrid Solar Cell. **2020**, 13, 3797	13
751	Metal chalcogenide semiconductor nanocrystals synthesized from ion-conducting seeds and their applications. **2020**, 8, 13868-13895	4
750	Growth and Kinetics of Elemental and Binary Semiconducting Nanowires. **2020**,	
749	Growth Kinetics of Planar Nanowires. **2020**, 46, 1008-1011	
748	Dilute nitride III-V nanowires for high-efficiency intermediate-band photovoltaic cells: Materials requirements, self-assembly methods and properties. **2020**, 66, 100510	3
747	Kinetic Analysis of the VLS Growth of Semiconducting Nanowires. **2020**,	
746	Role of Thermodynamics and Kinetics in the Composition of Ternary III-V Nanowires. **2020**, 10,	2
745	Homogeneous and Heterogeneous Gold Catalysis for Materials Science. **2021**, 121, 9113-9163	48
744	Kinetically Favorable Growth of Oxides Nanowires and Pyramids with Gold Seeds. **2020**, 26, 1430-1431	
743	Engineering Porous Silicon Nanowires with Tuneable Electronic Properties. **2020**, 5, 57	3
742	Study of Grass Shoot-Shape Silicon Nanowires Grown by Thermal Chemical Vapor Deposition. **2020**, 1	1
741	Design of a pulsed 0.5 THz gyrotron and preliminary test of its electron gun with field emitter. **2020**, 111, 103480	2

740	Growth of Ge Nanowires by Chemical Vapor Deposition at Atmospheric Pressure Using Readily Available Precursors GeO2 and C2H5OH. **2020**, 72, 4340-4345	1
739	Self-organization of various phase-separated nanostructures in a single chemical vapor deposition. **2020**, 13, 1723-1732	1
738	Oscillations of As Concentration and Electron-to-Hole Ratio in Si-Doped GaAs Nanowires. **2020**, 10,	2
737	Enhanced performance of InO nanowire field effect transistors with controllable surface functionalization of Ag nanoparticles. **2020**, 31, 355703	2
736	Excitonic complexes in InAs/InP nanowire quantum dots. **2020**, 101,	1
735	Synthesis and in-vitro antibacterial properties of the novel Ag wires reinforced carbon based composite coatings. **2020**, 517, 146207	2
734	Nanostructured Carbon-Nitrogen-Sulfur-Nickel Networks Derived From Polyaniline as Bifunctional Catalysts for Water Splitting. **2020**, 8, 385	5
733	Photocatalytic Bi2O3/TiO2:N Thin Films with Enhanced Surface Area and Visible Light Activity. **2020**, 10, 445	3
732	Dynamics of Gold Droplet Formation on SiO2/Si(111) Surface. **2020**, 124, 11946-11951	7
731	Ultrafast nucleation and growth of high-quality monolayer MoSe crystals via vapor-liquid-solid mechanism. **2020**, 31, 335601	7
730	In situ TEM observation of the vapor-solid-solid growth of InAs nanowires. **2020**, 12, 11711-11717	6
729	Effect of Arsenic Depletion on the Silicon Doping of Vapor Liquid Solid GaAs Nanowires. **2020**, 14, 2000129	3
728	Greenockite Whiskers from the Bytom Burned Coal Dump, Upper Silesia, Poland. **2020**, 10, 470	0
727	Stimulated Raman Scattering in Ge Nanowires. **2020**, 124, 13872-13877	1
726	Critical role of defect states on visible luminescence from ZnS nanostructures doped with Au, Mn and Ga. **2020**, 117, 105193	2
725	Utilization of nanoporous biosilica of diatoms as a potential source material for fabrication of nanoelectronic device and their characterization. **2020**, 32, 3041-3049	4
724	Effect of eutectic reaction between depositing atoms and substrate elements on morphological evolution of Sn Bi Sn multilayer deposition. **2020**, 250, 122960	0
723	Formation mechanism of whiskers in Al MgAl2O4 MgO refractories at 1400 °C under N2 atmosphere. **2020**, 46, 20724-20731	0

722	One-Dimensional Nanostructured Oxide Chemoresistive Sensors. **2020**, 36, 6326-6344		33
721	An ab initio approach on the asymmetric stacking of GaAs <111> nanowires grown by a vapor-solid method. **2020**, 12, 17703-17714		3
720	Influence of CaF2 on the preparation of ZnO via SHS method. **2020**, 50, 587-591		
719	Interface Engineering of Si Hybrid Nanostructures for Chemical and Biological Sensing. **2020**, 5, 2000380		7
718	Crystal phase engineering of self-catalyzed GaAs nanowires using a RHEED diagram. **2020**, 2, 2127-2134		6
717	Cylindrical Line-Feeding Growth of Free-Standing Silicon Nanohelices as Elastic Springs and Resonators. **2020**, 20, 5072-5080		11
716	Transition from freestanding SnO nanowires to laterally aligned nanowires with a simulation-based experimental design. **2020**, 11, 843-853		2
715	Effect of substrate temperature on GaAs nanowires growth directly on Si (111) substrates by molecular beam epitaxy. **2020**, 23, 685-689		
714	Detection of TNT in sulfuric acid solution by SiNWs-FET based sensor. **2020**, 1		2
713	Metalorganic vapor phase epitaxy of wurtzite InP nanowires on GaN. *Applied Physics Letters*, **2020**, 116, 093101	3.4	1
712	Structural Modulation of GaN Nanowires Grown in High-Density Plasma Environment. **2020**, 124, 6725-6731		4
711	Metastable Group IV Allotropes and Solid Solutions: Nanoparticles and Nanowires. **2020**, 32, 2703-2741		16
710	In-plane growth of germanium nanowires on nanostructured Si(001)/SiO2 substrates. **2020**, 4, 035006		5
709	Selective Growth of Stacking Fault Free <100> Nanowires on a Polycrystalline Substrate for Energy Conversion Application. **2020**, 12, 17676-17685		2
708	Appearance and Disappearance of Quasi-Liquid Layers on Ice Crystals in the Presence of Nitric Acid Gas. **2020**, 10, 72		2
707	Dispersion tailoring of silicon nanowire optical rectangular waveguide (SNORW). **2020**, 2, 1		2
706	Modulating the properties of SnO2 nanocrystals: morphological effects on structural, photoluminescence, photocatalytic, electrochemical and gas sensing properties. **2020**, 8, 4604-4635		41
705	Effects of Experimental Configuration on the Morphology of Two-Dimensional ZnO Nanostructures Synthesized by Thermal Chemical-Vapor Deposition. **2020**, 10, 517		5

704	On the Interaction between 1D Materials and Living Cells. **2020**, 11,		3
703	1D semiconductor nanowires for energy conversion, harvesting and storage applications. **2020**, 76, 104991		35
702	Catalyzed Kinetic Growth in Two-Dimensional MoS. **2020**, 142, 13130-13135		18
701	Synthesis of Metal Oxide Semiconductor Nanostructures for Gas Sensors. **2020**,		2
700	The compositional homogeneity of the metal particle during vapor-liquid-solid growth of nanowires. **2020**, 10, 11041		
699	Droplet manipulation and horizontal growth of high-quality self-catalysed GaAsP nanowires. **2020**, 34, 100921		2
698	Covalently Bound Gold Nanoparticle-Assisted Epitaxial Growth of Silicon Nanowires. **2020**, 20, 5551-5556		1
697	Kinetics of Nucleus Growth from a Nanophase. **2020**, 46, 357-360		1
696	Nanowire Growth without Catalysts: Applications and Mechanisms at the Atomic Scale. **2020**, 3, 7314-7324		4
695	Progress in silicon microwire solar cells. **2020**, 8, 5395-5420		11
694	Iron whiskers on asteroid Itokawa indicate sulfide destruction by space weathering. **2020**, 11, 1117		17
693	A low-dimensional crystal growth model on an isotropic and quasi-free sustained substrate. **2020**, 29, 038101		
692	Structure-sensitive principle in silicon nanowire growth. **2020**, 697, 137814		0
691	Awl-like HfC nanowires grown on carbon cloth via Fe-catalyzed in a polymer pyrolysis route. **2020**, 103, 3458-3465		6
690	Embedded sacrificial AlAs segments in GaAs nanowires for substrate reuse. **2020**, 31, 204002		5
689	Formation of Si Nanorods and Discrete Nanophases by Axial Diffusion of Si from Substrate into Au and AuPt Nanoalloy Nanorods. **2019**, 10,		
688	Independent Control of Nucleation and Layer Growth in Nanowires. **2020**, 14, 3868-3875		14
687	Coulomb blockade in monolithic and monocrystalline Al-Ge-Al nanowire heterostructures. *Applied Physics Letters*, **2020**, 116, 013105	3.4	4

686	High-Aspect-Ratio Nanostructured Surfaces as Biological Metamaterials. **2020**, 32, e1903862		90
685	Mixing enthalpies of liquid Au-Ga-In alloys. **2020**, 301, 112439		1
684	Hydrophobic Silica Nanorod Arrays Vertically Grown on Melamine Foams for Oil/Water Separation. **2020**, 3, 1479-1488		21
683	3D electronic and photonic structures as active biological interfaces. **2020**, 2, 527-552		12
682	Production of □-Al2O3 Whiskers on the Surface of Ceramic Made using Lead-Zinc Ore Beneficiation Wastes. **2020**, 76, 457-461		
681	A low-temperature limit for growth of ZnO nanowires by using of laser ablation processes. **2020**, 126, 1		3
680	Polysiloxane Derived Macroporous Silicon Oxycarbide Microspheroidal Particles and Their Decoration with 1D Structures. **2020**, 30, 3574-3585		
679	Functional hetero-interfaces in atomically thin materials. **2020**, 37, 74-92		10
678	Platinum additive impacts on vapor-liquid-solid growth chemical interface for high-quality SiC single crystal films. **2020**, 16, 100266		2
677	Morphology modulation and structural study of indium assisted silicon nanowires by PECVD. **2020**, 121, 114101		
676	Recent progress on infrared photodetectors based on InAs and InAsSb nanowires. **2020**, 31, 294004		10
675	Ultrathin InP annular nanohole arrays for efficient light absorption solar cells. *Applied Physics Letters*, **2020**, 116, 113903	3.4	2
674	Hydrogen Plasma-Assisted Growth of Gold Nanowires. **2020**, 20, 4185-4192		2
673	Atomically Dispersed Nickel(I) on an Alloy-Encapsulated Nitrogen-Doped Carbon Nanotube Array for High-Performance Electrochemical CO2 Reduction Reaction. **2020**, 132, 12153-12159		19
672	Atomically Dispersed Nickel(I) on an Alloy-Encapsulated Nitrogen-Doped Carbon Nanotube Array for High-Performance Electrochemical CO Reduction Reaction. **2020**, 59, 12055-12061		56
671	Optical property and lasing of GaAs-based nanowires. **2020**, 63, 1364-1381		7
670	Growth of nanowire heterostructures and their optoelectronic and spintronic applications. **2020**, 103-133		
669	Self-catalyzed GaAs(P) nanowires and their application for solar cells. **2020**, 53, 233001		3

668	Nanodot array deposition via single shot laser interference pattern using laser-induced forward transfer. **2020**, 2, 025101	9
667	Nanostructured MOS Sensor for the Detection, Follow up, and Threshold Pursuing of Development in Milk Samples. **2020**, 20,	5
666	Effect of Etching Duration on the Morphological and Opto-Electrical Properties of Silicon Nanowires Obtained by Ag-Assisted Chemical Etching. **2021**, 13, 179-187	9
665	Synthesis and field emission properties of Cu-filled vertically aligned carbon nanotubes. **2021**, 537, 148086	1
664	Fabrication and Spectral Characteristics of Silicon Nanowires for Efficient Solar Energy Harvesting. **2021**, 16, 1-8	3
663	MoS2 hydrogen evolution catalysis on p-Si nanorod photocathodes. **2021**, 121, 105308	4
662	Advanced VLS growth of gold encrusted silicon nanowires Mediated by porous Aluminium Oxide template. **2021**, 185, 109991	2
661	Selective area epitaxy by metalorganic chemical vapor deposition□a tool for photonic and novel nanostructure integration. **2021**, 75, 100304	2
660	Field-Effect Transistor Behavior of Synthesized In2O3/InP (100) Nanowires via the Vapor□liquid□solid Method. **2021**, 50, 59-64	1
659	A review of helical carbon materials structure, synthesis and applications. **2021**, 40, 3-19	21
658	Stabilizing the hexagonal diamond metastable phase in silicon nanowires. **2021**, 188, 110180	3
657	Analysis of the Growth of Laterally Aligned SnO2 Nanowires by Thermodynamic Considerations and Experiments. **2021**, 21, 191-199	1
656	Self-Organized Growth of 111-Oriented (VNbTaMoW)N Nanorods on MgO(001). **2021**, 21, 577-582	4
655	Structural, morphological and optical behavior of In1-xHfxP films synthesized via 2,3-di(tetradecanoyloxy)propyl tetradecanoate assisted sol□gel technique for infrared photodiode applications. **2021**, 134, 106625	17
654	Arsenic-Induced Growth of Dodecagonal GaN Microrods with Stable a-Plane Walls. **2021**, 9, 2001348	3
653	Improvement of electrical characteristics of SnSe/Si heterostructure by integration of Si nanowires. **2021**, 604, 412669	0
652	Tunneling-Related Leakage Currents in Coaxial GaAs/InGaP Nanowire Heterojunction Bipolar Transistors. **2021**, 258, 2000395	2
651	Enhanced microwave absorption properties of polymer-derived SiC/SiCN composite ceramics modified by TiC. 1	1

650	Novel Nanofluidic Cells Based on Nanowires and Nanotubes for Advanced Chemical and Bio-Sensing Applications. **2021**, 11,	4
649	Growth mechanism of helical □Dy2S3 single crystals. **2021**, 23, 2196-2201	2
648	Vapor□liquid□solid growth of 4H-SiC single crystal films with extremely low carrier densities in chemical vapor deposition with a Pt□Si alloy flux and X-ray topography analysis of their dislocation propagation behaviors. **2021**, 23, 5039-5044	
647	Mechanism of morphology variations in colloidal CuGaS2 nanorods. **2021**, 3, 5322-5331	0
646	Near-IR emission of InGaN quasi-quantum dots on non-polar GaN nanowire structures. **2021**, 3, 5036-5045	1
645	Orientation-Dependent Conversion of VLS-Grown Lead Iodide Nanowires into Organic-Inorganic Hybrid Perovskites. **2021**, 11,	0
644	Thermodynamics of the Vapor-Liquid-Solid Growth of Ternary III-V Nanowires in the Presence of Silicon. **2021**, 11,	
643	Confining Chainmail-Bearing Ni Nanoparticles in N-doped Carbon Nanotubes for Robust and Efficient Electroreduction of CO. **2021**, 14, 1140-1154	9
642	GaN Nanowire Growth Promoted by In-Ga-Au Alloy Catalyst with Emphasis on Agglomeration Temperature and In Composition. **2021**, 6, 3173-3185	4
641	Diversely Doped Uniform Silicon Nanotube Axial Heterostructures Enabled by "Dopant Reflection". **2021**, 37, 1247-1254	1
640	Growth of MSe semiconductor nanowires on metal substrates through an Ag2Se-catalyzed solution□solid□solid mechanism (M = Zn, Cd and Mn).	0
639	Fabrication of Stretchable and Transparent Core□Shell Polymeric Nanofibers Using Coaxial Electrospinning and Their Application to Phototransistors. **2021**, 7, 2001000	4
638	Photoluminescence and Boosting Electron-Phonon Coupling in CdS Nanowires with Variable Sn(IV) Dopant Concentration. **2021**, 16, 19	0
637	Carbon nanotubes for rapid capturing of SARS-COV-2 virus: revealing a mechanistic aspect of binding based on computational studies.. **2021**, 11, 5785-5800	7
636	Growing a CdS flag from a wire with in situ control of the catalyst. **2021**, 23, 3664-3670	0
635	Structural Properties of Porous Silicon Nanowires: A Combined Characterization by Advanced Spectroscopic Techniques. **2021**, 191-201	
634	Determination of the Wurtzite and Zincblende Fractions in III□V Semiconductor Nanowires. **2021**, 33, 1061-1069	4
633	Reconciling Nano- and Micro-Scale VLS Growth by Including Multi-Scale Supersaturation: A Growth Model Applied to Lateral Ge Films on Si. **2021**, 20, 592-597	1

632	Growth of long III-As NWs by hydride vapor phase epitaxy. **2021**, 32, 162002	
631	Wurtzite phase control for self-assisted GaAs nanowires grown by molecular beam epitaxy. **2021**, 32, 155602	4
630	Nanowire Waveguides and Lasers: Advances and Opportunities in Photonic Circuits. **2020**, 8, 613504	5
629	Vapor□Solid□Solid growth dynamics in GaAs nanowires.	3
628	Synthesis of □MoO3 nanowhiskers from core/shell molybdenum/molybdenum oxide wire by pulsed wire discharge. **2021**, 18, 889-901	4
627	Imaging the influence of oxides on the electrostatic potential of photovoltaic InP nanowires. **2021**, 14, 4087	1
626	A theoretical study on the growth of low-dimensional nanocrystals on isotropic substrates. **2021**, 388, 127073	
625	Facile synthesis of □Ga2O3 nanowires network for solar-blind ultraviolet photodetector. **2021**, 54, 175106	5
624	Silicon Nanowires Synthesis by Metal-Assisted Chemical Etching: A Review. **2021**, 11,	14
623	Thermodynamics Controlled Sharp Transformation from InP to GaP Nanowires via Introducing Trace Amount of Gallium. **2021**, 16, 49	3
622	Kinetics of Guided Growth of Horizontal GaN Nanowires on Flat and Faceted Sapphire Surfaces. **2021**, 11,	0
621	Mechanisms of Atomic□Molecular Processes Underlying Si and GaAs Nanowire Crystallization. **2021**, 57, 219-226	1
620	Time-resolved compositional mapping during in situ TEM studies. **2021**, 222, 113193	2
619	Temperature dependence of optical properties of InAs/InP quantum rod-nanowires grown on Si substrate. **2021**, 231, 117814	0
618	Fabrication and characterization of silicon nanowires with MACE method to influence the optical properties. **2021**,	1
617	Monolithic Metal-Semiconductor-Metal Heterostructures Enabling Next-Generation Germanium Nanodevices. **2021**, 13, 12393-12399	4
616	Si and SiGe Nanowire for Micro-Thermoelectric Generator: A Review of the Current State of the Art. **2021**, 8,	6
615	Au-Ag-Te□RICH MELT INCLUSIONS IN HYDROTHERMAL GOLD-QUARTZ VEINS, XIAOQINLING LODE GOLD DISTRICT, CENTRAL CHINA.	9

614	Doping challenges and pathways to industrial scalability of III-V nanowire arrays. **2021**, 8, 011304		13
613	Contrasting H-Etching to OH-Etching in Plasma-Assisted Nucleation of Carbon Nanotubes. **2021**, 125, 7849-7855		
612	Reversible tuning from multi-mode laser to single-mode laser in coupled nanoribbon cavity. *Applied Physics Letters*, **2021**, 118, 171101	3.4	2
611	About a fundamental uncertainty of the contact angle of the catalyst drop on the top of the nanowire. **2021**, 129, 164302		1
610	Morphological Control in Gold Nanostructures Synthesis Process. **2021**, 20, 2150025		
609	Cooling rate-dependent microstructure and mechanical properties of 2D surface polycrystals in liquid AuSi thin films. **2021**, 768, 138381		1
608	Anomalous nucleation of crystals within amorphous germanium nanowires during thermal annealing. **2021**, 32,		0
607	Radial Junction Silicon Nanowire Solar Mini-Modules Grown on FTO/Glass Substrates. **2021**,		
606	Spontaneous shape transition of Mn Ge islands to long nanowires. **2021**, 12, 366-374		1
605	Linewidth related resistivities and growth behavior of nickel silicide nanowires by solid state reaction between Ni and electron-beam lithography prepared Si nanowires. **2021**, 724, 138612		1
604	Exploring nanowire regrowth for the integration of bottom-up grown silicon nanowires into AFM scanning probes. **2021**, 31, 055010		0
603	Terrace-confined guided growth of high-density ultrathin silicon nanowire array for large area electronics. **2021**,		2
602	Fabrication of pn junction arrays with highly successful grown n-Si microneedles by using low temperature VLS method. **2021**, 31, 055008		
601	Antimony doped SnOnanowire@C core-shell structure as a high-performance anode material for lithium-ion battery. **2021**, 32,		6
600	Functionalization and Characterization of Silicon Nanowires for Sensing Applications: A Review. **2021**, 11,		5
599	Semiconductor nanowire arrays for optical sensing: a numerical insight on the impact of array periodicity and density. **2021**, 32,		2
598	Low-symmetry nanowire cross-sections for enhanced Dresselhaus spin-orbit interaction. **2021**, 103,		1
597	Highly Efficient Synthesis of Silicon Nanowires from Molten Salt Electrolysis Cell with a Ceramic Diaphragm. **2021**, 50, 5021		2

596	In-Cell Nanoelectronics: Opening the Door to Intracellular Electrophysiology. **2021**, 13, 127	10
595	Optoelectronics and Nanophotonics of Vapor-Liquid-Solid Grown GaSe van der Waals Nanoribbons. **2021**, 21, 4335-4342	7
594	Unconventionally anisotropic growth of PbSe nanorods: Controllable fabrication under solution-solid-solid regime over Ag2Se catalysis for broadband photodetection. **2021**, 14, 3386-3394	2
593	One-Dimensional (1D) Nanostructured Materials for Energy Applications. **2021**, 14,	8
592	Growth of Black Arsenic Phosphorus Thin Films and its Application for Field-Effect Transistors. **2021** ,	0
591	Giant enhancement of second harmonic light intensity in waveguiding core/shell ZnTe/ZnMgTe nanowires. *Applied Physics Letters*, **2021**, 118, 192106	3.4
590	Electrodeposition Polyaniline Nanofiber on the PEDOT:PSS-Coated SiNWs for High Performance Supercapacitors. **2021**, 31, 4260	1
589	Tunable Layer Orientation and Morphology in Vapor□Liquid□Solid Growth of One-Dimensional GeS van der Waals Nanostructures. **2021**, 33, 3980-3988	2
588	Synthesis and Photochemical Properties of Monolithic TiO Nanowires Diode. **2021**, 26,	0
587	Induced structural modifications in ZnS nanowires via physical state of catalyst: Highlights of 15R crystal phase. **2022**, 15, 377	2
586	Conditions for the Formation of Vertical Nanowires and Crystalline Clusters of GaAs during the Self-Catalyzed Growth. **2021**,	
585	High-Aspect-Ratio Silicon Nanostructures on N-type Silicon Wafer Using Metal-Assisted Chemical Etching (MACE) Technique. **2021**,	
584	Gate control, g factors, and spin-orbit energy of p-type GaSb nanowire quantum dot devices. **2021**, 103,	0
583	Dynamics of Monolayer Growth in Vapor-Liquid-Solid GaAs Nanowires Based on Surface Energy Minimization. **2021**, 11,	
582	A review exploring the adsorptive removal of organic micropollutants on tailored hierarchical carbon nanotubes. 1-44	1
581	Effect of Flow Rate Scaling on SAE-InAs Crystal Phase and Integration of Self-Catalyzed InAs/InSb Heterostructure Nanowires on Si (111) Substrate by MOCVD. **2021**, 10, 071011	
580	Oriented Halide Perovskite Nanostructures and Thin Films for Optoelectronics. **2021**, 121, 12112-12180	25
579	In Situ TEM Studies of III-V Nanowire Growth Mechanism.	

578	Highly Cyclable All-Solid-State Battery with Deposition-Type Lithium Metal Anode Based on Thin Carbon Black Layer. 2100066		4
577	Formation mechanism of dominant kinks in GaP nanowires grownin an in-situ (S)TEM gas cell holder investigatedby SPED and SNBED. **2021**, 27, 2228-2230		
576	Indium (In)-Catalyzed Silicon Nanowires (Si NWs) Grown by the Vapor□Liquid□Solid (VLS) Mode for Nanoscale Device Applications.		
575	Surface morphology of nanostructured zinc oxide materials obtained by plasma-enhanced chemical vapor deposition. **2021**, 1967, 012049		0
574	The growth behaviors and high controllability of GaN nanostructures on stripe-patterned sapphire substrates. **2021**, 555, 149725		2
573	Stability and energetics of two-dimensional surface crystals in liquid AuSi thin films and nanoscale droplets. **2021**, 5,		1
572	Ultrafast epitaxial growth of CuO nanowires using atmospheric pressure plasma with enhanced electrocatalytic and photocatalytic activities.		1
571	Dynamics of Droplet Consumption in Vapor□Liquid□Solid III□V Nanowire Growth. **2021**, 21, 4647-4655		1
570	A Review of Self-Seeded Germanium Nanowires: Synthesis, Growth Mechanisms and Potential Applications. **2021**, 11,		2
569	Effect of Surface Liquid Layer during Film Growth On Morphology of BaHfO3in YBa2Cu3OyCoated Conductors Fabricated by Pulsed Laser Deposition. **2021**, 31, 1-5		1
568	Porous silicon nanowires phase transformations at high temperatures and pressures. *Applied Physics Letters*, **2021**, 119, 053101	3.4	0
567	Surface Nano-Patterning for the Bottom-Up Growth of III-V Semiconductor Nanowire Ordered Arrays. **2021**, 11,		3
566	Methane Pyrolysis for Zero-Emission Hydrogen Production: A Potential Bridge Technology from Fossil Fuels to a Renewable and Sustainable Hydrogen Economy. **2021**, 60, 11855-11881		21
565	Enhancement of Ic of BaHfO3 -Doped REBCO Thick Coated Conductor Using Vapor-Liquid-Solid Growth Technique. **2021**, 31, 1-4		
564	Effect of SiC nanowires on the mechanical properties and thermal conductivity of 3D-SiCf/SiC composites prepared via precursor infiltration pyrolysis. **2021**, 41, 5026-5035		5
563	Wafer-Scale Synthesis and Optical Characterization of InP Nanowire Arrays for Solar Cells. **2021**, 21, 7347-7353		2
562	Correlating spectroscopic and nanoscale structural properties in quantum well tubes III-V nanowires. **2021**,		
561	Aligned Growth of Semiconductor Nanowires on Scratched Amorphous Substrates. **2021**, 31, 2103950		1

560	In-situ transmission electron microscopy for probing the dynamic processes in materials. **2021**, 54, 443002	4
559	Catalyst-assisted heteroepitaxial strategy for highly ordered-GaOnanoarrays and their optical property investigation. **2021**, 32,	0
558	Reconsideration of Nanowire Growth Theory at Low Temperatures. **2021**, 11,	2
557	Liquid-Assisted VaporSolidSolid Silicon Nanowire Growth Mechanism Revealed by In Situ TEM When Using CuSn Bimetallic Catalysts. **2021**, 125, 19773-19779	4
556	Growth of Metal Oxide Nanostructures by Thermal Oxidation of Metals Under Influence of External Electric Fields and Electric Current Flow. 2100323	1
555	Selective area growth rates of III-V nanowires. **2021**, 5,	3
554	Low-Temperature Growth of Au-Catalyzed InAs Nanowires: Experiment and Theory. 2100401	
553	On the Possibility of Obtaining Titanium Nitride Whisker Crystals from the Gas Phase. **2021**, 78, 188-192	
552	Molten-salt assisted synthesis and characterization of Mg2B2O5 and Al18B4O33 whiskers. 1-12	3
551	Progress in one-dimensional nanostructures. **2021**, 179, 111373	4
550	Mechanisms of long-range edge retraction of metal bilayer films. **2021**, 130, 125302	
549	Investigation on the optical and electrical properties of undoped and Sb-doped SnO2 nanowires obtained by the VLS method. **2021**, 134, 114856	2
548	Nanowhiskers of K2Ti6O13 as a promoter of photocatalysis in anatase mesocrystals. **2021**, 378, 133-139	0
547	Nanofabrication Techniques: Challenges and Future Prospects. **2021**, 21, 4981-5013	1
546	Selective area epitaxy of high quality Wurtzite-InAs heterostructure on InGaAs nanopillars at indium-rich region using MOCVD. **2021**, 135, 106103	
545	Advancement and challenges in MOSFET scaling. **2021**, 134, 106002	10
544	Formation and evolution of Au-SiOx Heterostructures: From nanoflowers to nanosprouts. **2021**, 209, 109956	2
543	A comprehensive review of template-synthesized multi-component nanowires: From interfacial design to sensing and actuation applications. **2021**, 3, 100029	5

542	An overview of semiconducting silicon nanowires for biomedical applications. **2022**, 1-6		
541	Semiconducting silicon nanowires and nanowire composites for biosensing and therapy. **2022**, 363-378		
540	Nanowire array fabrication for high throughput screening in the biosciences. **2022**, 279-308		
539	Growth and characterization of silicon nanowires for biomedical applications. **2022**, 7-24		
538	CMOS-compatible silicon nanowire field-effect transistors: Where nanotechnology pushes the limits in biosensing. **2022**, 327-362		1
537	Wafer Manufacturing: Generalized Processes and Flow. **2021**, 39-69		
536	Synthesis of Novel Phases in Si Nanowires Using Diamond Anvil Cells at High Pressures and Temperatures. **2021**, 21, 1427-1433		3
535	Correlating in situ RHEED and XRD to study growth dynamics of polytypism in nanowires. **2021**, 13, 13095-13107		
534	Gate-Tunable Negative Differential Resistance in Next-Generation Ge Nanodevices and their Performance Metrics. **2021**, 7, 2001178		8
533	Size- and temperature-dependent Young's modulus of SiC nanowires determined by a laser-Doppler vibration measurement. *Applied Physics Letters*, **2021**, 118, 043103	3.4	5
532	Using Novel Semiconductor Features to Construct Advanced ZnO Nanowires-Based Ultraviolet Photodetectors: A Brief Review. **2021**, 9, 11954-11973		5
531	The Effect of Cryolite on the Formation of Aluminum Carbide at the Carbon Aluminum Interface. 1245-1250		3
530	One-Dimensional Silica Nanostructures and Metal–Silica Nanocomposites: Fabrication, Characterization, and Applications. 149-203		1
529	Biohybrid Circuits: Nanotransducers Linking Cells and Neural Electrodes. 95-113		1
528	Growth and Properties of Zincsulfide Nanowires. **2006**, 407-410		2
527	Nanowires as Building Blocks for Nanoscale Science and Technology. **2003**, 3-68		14
526	Epitaxial Quantum Wires: Growth, Properties and Applications. **2003**, 69-92		2
525	Sulphide Nanowires. **2003**, 209-238		5

524	Nanobelts and Nanostructures of Transparent Conducting Oxides. **2003**, 47-71	1
523	Nanowires of Functional Oxides. **2003**, 113-137	7
522	Defect in Zinc Oxide Nanostructures Synthesized by a Hydrothermal Method. **2008**, 117-130	3
521	Study of Nanowire Growth Mechanisms: VLS and Si Assisted. **2008**, 1-15	1
520	Self-Organized Nanowire Formation of Si-Based Materials. **2008**, 61-78	1
519	Optical Anisotropy of Semiconductor Nanowires. **2008**, 127-145	5
518	Structural and Chemical Properties of ZnTe Nanowires Grown on GaAs. **2008**, 233-236	1
517	Thermoelectric Effects in Current Induced Crystallization of Silicon Microstructures. **2011**, 9-16	1
516	Determination of Kinetic Crystallization Coefficients in Experiments with Whiskers. **1979**, 136-145	1
515	Principles of the Vapour Growth of Single Crystals. **1974**, 49-191	13
514	Chemical Vapour Deposition Systems Design. **2010**, 73-128	2
513	Optical and Structural Properties of Nitride Based Nanostructures. **2020**, 135-201	1
512	Broadband and Omnidirectional Anti-reflection Coating for III/V Multi-junction Solar Cells. **2014**, 571-595	1
511	Amelogenin in Enamel Tissue Engineering. **2015**, 881, 237-54	8
510	Low Energy Ion Beam Modification of Nanostructures. **2016**, 475-500	1
509	Carbothermal Reduction Synthesis: An Alternative Approach to Obtain Single-Crystalline Metal Oxide Nanostructures. **2017**, 43-67	4
508	Low-Dimensional Semiconductors. **2018**, 1081-1104	2
507	GaN and InN Nanowires: Growth and Optoelectronic Properties. **2010**, 73-96	1

506	Silicon Based Photovoltaic Materials. **2013**, 1-23	0
505	Silicon Nanostructures. **2014**, 19-38	1
504	Fabrication and Properties of Ultra Small Si Wire Arrays by Vapor-Liquid-Solid Growth with Circuits. **2001**, 1038-1041	1
503	Semiconductor and Molecular-Assembly Nanowires. **2003**, 123-147	3
502	In-situ observation and surface morphology of YBa2Cu3O7-y films by metalorganic chemical vapor deposition. **1999**, 1089-1092	1
501	Semiconductor Nanowire as a Nanoelectronics Platform. **2016**, 273-283	1
500	Encyclopedia of Nanotechnology. **2015**, 1-9	2
499	Whisker and Platelet Synthesis Processes. **1997**, 411-432	1
498	Metal-Enhanced Growth of Silicon. **1992**, 483-499	4
497	Carbon Deposition and Filament Initiation and Growth Mechanisms on Iron Particles and Foils. **1990**, 459-505	4
496	Growth Mechanism of CVD Silicon. **2016**, 163-180	1
495	Encyclopedia of Nanotechnology. **2016**, 1404-1427	1
494	Vapor□Liquid□Solid Growth of Semiconductor Nanowires. **2021**, 3-107	5
493	Nanowire Field-Effect Transistors. **2021**, 371-431	2
492	Chrysanthemum-like high-entropy diboride nanoflowers: A new class of high-entropy nanomaterials. **2020**, 9, 339-348	19
491	SINGLE-CRYSTAL GROWTH OF HEXAGONAL SELENIUM FROM IMPURITY DOPED MELTS. **1969**, 103-113	4
490	CRYSTAL GROWTH AND LATTICE IMPERFECTIONS□NTERFEROMETRIC AND X-RAY DIFFRACTION STUDIES: REMINISCENCES. **1982**, 1-56	1
489	Theory of VLS Growth of Compound Semiconductors. **2015**, 93, 1-78	22

488	Thermal insulated and mechanical enhanced silica aerogel nanocomposite with in-situ growth of mullite whisker on the surface of aluminum silicate fiber. **2020**, 136, 105968	9
487	Investigation of quantum confinement phenomenon in composition- and diameter-modulated nanowires. **2020**, 384, 126795	2
486	Stress induced modification of electronic band structure and enhanced optical emission in 1-D GaN nanostructures. **2020**, 105, 106242	6
485	Integration Techniques for Micro/Nanostructure-based Large-Area Electronics. **2018**,	12
484	Synthesis of Narrow SnTe Nanowires Using Alloy Nanoparticles. **2021**, 3, 184-191	2
483	Nanotechnology: How clean is too clean?. 1-2	1
482	Vapor-liquid-solid growth of large-area multilayer hexagonal boron nitride on dielectric substrates. **2020**, 11, 849	36
481	Geometry-tailored freestanding epitaxial Pd, AuPd, and Au nanoplates driven by surface interactions. **2020**, 12, 6537-6544	3
480	Computational prediction of a novel 1D InSeI nanochain with high stability and promising wide-bandgap properties. **2020**, 22, 27441-27449	3
479	Inductively Coupled Plasma Sputtering: Structure of IV-VI Semiconductors. **2016**, 679-691	2
478	Sub-Poissonian length distributions of vapor□quid□olid nanowires induced by nucleation antibunching. **2017**, 50, 254004	2
477	One-dimensional nanomaterials in lithium-ion batteries. **2021**, 54, 083001	5
476	Coalescence, crystallographic orientation and luminescence of ZnO nanowires grown on Si(001) by chemical vapour transport. **2020**, 31, 475603	1
475	Modeling the dynamics of interface morphology and crystal phase change in self-catalyzed GaAs nanowires. **2020**, 31, 485602	2
474	Aerotaxy: gas-phase epitaxy of quasi 1D nanostructures. **2021**, 32, 025605	5
473	Assembling your nanowire: an overview of composition tuning in ternary III-V nanowires. **2021**, 32, 072001	3
472	The role of surface diffusion in the growth mechanism of III-nitride nanowires and nanotubes. **2021**, 32, 085606	2
471	HS sensing for breath analysis with Au functionalized ZnO nanowires. **2021**, 32, 205505	6

470	Antireflection properties and solar cell application of silicon nanostructures. **2011**, 32, 084005	2
469	Thermal-induced formation of domain structures in CuO nanomaterials. **2017**, 1,	15
468	Correlation between surface reconstruction and polytypism in InAs nanowire selective area epitaxy. **2017**, 1,	8
467	Faceting of local droplet-etched nanoholes in AlGaAs. **2018**, 2,	2
466	Polar-charge-induced self-assembly: Electric effect that causes nonisotropic nanorod growth in wurtzite semiconductors. **2019**, 3,	1
465	Development and Characterization of a bottom-up InP Nanowire Solar Cell with 16.7% Efficiency. **2020**,	3
464	Tailoring the Relative Si3N4 and SiC Contents in Si3N4/SiC Nanopowders through Carbothermic Reduction and Nitridation of Silica Fume. **2012**, 9, 291	4
463	Low-field electron emission of Si microtip arrays produced by laser beam evaporation. **2003**, 21, 449	15
462	Photodetector fabrication by dielectrophoretic assembly of GaAs nanowires grown by a two-steps method. **2017**,	1
461	Microscopic Growth Mechanisms for Carbon Nanotubes. **1997**, 275, 646-9	200
460	Electronic structure and optical properties of semiconductor nanowires polytypes. **2020**, 93, 1	5
459	X-Ray Investigation of a 2H-3C Phase-Transformation in Silicon Carbide Single Crystals. **1970**, 14, 67-77	6
458	One-Dimensional Semiconductor and Oxide Nanostructures. **2006**,	3
457	Manufacturing Electrical Contacts to Nanostructures. **2006**, 127-146	1
456	One-DimensionalSemiconductor and OxideNanostructures. **2006**, 199-232	2
455	Introduction to Photovoltaic Physics, Applications, and Technologies. **2010**, 1-48	1
454	Silicon Nanowire Electrodes for Lithium-Ion Battery Negative Electrodes. **2013**, 1-68	2
453	Morphology and Selected Properties of Core/Shell ZnTe-Based Nanowire Structures Containing ZnO. **2011**, 119, 612-614	2

452	FIB Method of Sectioning of III-V Core-Multi-Shell Nanowires for Analysis of Core/Sell Interfaces by High Resolution TEM. **2017**, 131, 1332-1336	2
451	TEM Study of the Structural Properties of Nanowires Based on Cd, Zn, Te grown by MBE on Silicon Substrates. **2017**, 131, 1399-1405	2
450	Design of an InP/ZnO core-shell nanocone array solar cell with efficient broadband light absorption enhancement. **2020**, 59, 107-115	4
449	Coupled boron-doping and geometry control of tin-catalyzed silicon nanowires for high performance radial junction photovoltaics. **2019**, 27, 37248-37256	3
448	Non-resonant Raman scattering of wurtzite GaAs and InP nanowires. **2020**, 28, 11016-11022	1
447	Nanowire photonics toward wide wavelength range and subwavelength confinement [Invited]. **2020**, 10, 2560	2
446	Review of gallium-oxide-based solar-blind ultraviolet photodetectors. **2019**, 7, 381	203
445	Chains of crystalline-Si nanospheres: growth and properties. **2005**, 3, 131-140	23
444	Property of Zinc Oxide (Zno) Nanostructures Potential for Biomedical System and Its Common Growth Mechanism. **2017**, 2,	5
443	Structural and optical studies of (Ag3AsS3)0.6(As2S3)0.4 thin films deposited at different technological conditions. **2014**, 17, 232-236	3
442	Growth of silicon self-assembled nanowires by using gold-enhanced CVD technology. **2018**, 21, 282-287	3
441	Synthesis and characterization of SiC whiskers. **1992**, 7, 148-163	107
440	VLS Growth of Si nanowhiskers on a H-terminated Si{111} surface. **1998**, 536, 305	1
439	Catalytic Growth of Semiconducting ZnO Nanowires by Reactive Evaporation Process. **2003**, 776, 7101	1
438	InAs Nanowire Circuits Fabricated by Field-Assisted Self-Assembly on a Host Substrate. **2012**, E95.C, 1369-1375	5
437	Characterization of Local Electronic Transport through Ultrathin Au/Highly-Dense Si Nanocolumnar Structures by Conducting-Probe Atomic Force Microscopy. **2013**, E96.C, 718-721	2
436	High-Sensitive Detection of Electronic Emission through Si-Nanocrystals/Si-Nanocolumnar Structures by Conducting-Probe Atomic Force Microscopy. **2014**, E97.C, 397-400	1
435	Features of Synthesizing Ceramic Composites Discretely Reinforced by Carbon Fibers and SiC Nanowires Formed in situ in the Combustion Wave. **2020**, 61, 559-570	3

434	An Array of MOX Sensors and ANNs to Assess Grated Parmigiano Reggiano Cheese Packs' Compliance with CFPR Guidelines. **2020**, 10,	3
433	Nanowire-based telecom-band light-emitting diodes with efficient light extraction. **2020**, 59, 105003	1
432	GaAs-Carbon Nanotubes Nanocomposite: Synthesis and Field-Emission Property. **2010**, 20, 199-203	2
431	Morphology and Chemical Composition of InxGa1-xAs NWs Au-assisted Grown at Low Growth Temperature Using MOCVD. **2011**, 11, 1315-1320	3
430	Growth and Characterisation of ZnSe Semiconductor Nanowires. **2011**, 11, 1401-1405	1
429	One Dimensional Silicon Nanostructures Synthesized via Thermal Evaporation on Nickel Coated Silicon Wafer: Effect of Substrate Position. **2011**, 11, 3586-3592	2
428	Self Growth of Silica Nanowires on a Si/SiO2Substrate. **2008**, 45, 142-145	1
427	Carbon Nanotube Synthesis and Growth Using Zeolite by Catalytic CVD and Applications. **2013**, 50, 1-17	5
426	Piezoelectric Energy Harvesting Characteristics of GaN Nanowires Prepared by a Magnetic Field-Assisted CVD Process. **2016**, 53, 167-170	6
425	Recent Progress in Synthesis of Plate-like ZnO and its Applications: A Review. **2017**, 54, 167-183	20
424	Synthesis and Characterization of GaN Rods Prepared by Ammono-Chemical Vapor Deposition. **2012**, 02, 292-299	1
423	Growth and Improvement of ZnO Nanostructure Using Aged Solution by Flow Coating Process. **2013**, 03, 194-200	6
422	Evolution of Morphology of Nano-Scale CuO Grown on Copper Metal Sheets in 5 wt% NaCl Solution of Spray Fog Environment. **2012**, 02, 278-283	3
421	Synthesis of Zirconia Oxide (ZrO₂) Nanofibers on Zirconnia Substrates by Ultrasonic Spray Pyrolysis. **2014**, 05, 193-198	3
420	Laser Synthesis of Metal Oxide Crystals with the Use of Carbon Nanotubes. **2013**, 03, 16-20	2
419	Photoluminescence and Structural Properties of ZnO Nanorods Growth by Assisted-Hydrothermal Method. **2013**, 03, 152-157	16
418	Correlation between the Width of Gallium Oxide Nanobelts and the Diameter of the Catalysts. **2006**, 27, 1963-1964	3
417	Morphologically Controlled Growth of Aluminum Nitride Nanostructures by the Carbothermal Reduction and Nitridation Method. **2009**, 30, 1563-1566	6

416	Influence of SiO2Capping and Annealing on the Luminescence Properties of Larva-Like GaS Nanostructures. **2012**, 33, 3576-3580	2
415	Effect of Tributylphosphine for the Solution-Liquid-Solid Synthesis of CdSe Nanowires. **2013**, 34, 590-594	1
414	Optical Properties and Field Emission of ZnO Nanorods Grown on p-Type Porous Si. **2013**, 34, 1779-1782	6
413	Crystallization of Amorphous Silicon Films Using Joule Heating. **2014**, 47, 20-24	1
412	Fabrication of TiO2Nanowires Using Vapor-Liquid-Solid Process for the Osseointegration. **2013**, 22, 204-210	2
411	Present Status and Future Prospects of Silicon Thin-Film Solar Cells. **2011**, 50, 030001	69
410	Optical Properties of ZnO Soccer-Ball Structures Grown by Vapor Phase Transport. **2012**, 51, 021102	4
409	AgNO3-Dependent Morphological Change of Si Nanostructures Prepared by Single-Step Metal Assisted Etching Method. **2012**, 51, 11PE02	3
408	Optical Properties of Site-Controlled InGaAs Quantum Dots Embedded in GaAs Nanowires by Selective Metalorganic Chemical Vapor Deposition. **2012**, 51, 11PE13	2
407	Nitride single photon sources. **2021**, 439-471	
406	Progress in the research of Silicon and Germanium quantum computing materials. **2021**, 0-0	
405	Synthesis, Characterization, Physical Properties and Applications of Metal Borides. **2021**, 251-305	0
404	Physics and applications of semiconductor nanowire lasers. **2021**, 20, 389-438	
403	Insights on the Electrocatalytic Seawater Splitting at Heterogeneous Nickel-Cobalt Based Electrocatalysts Engineered from Oxidative Aniline Polymerization and Calcination. **2021**, 26,	1
402	Synthesis of MoO3 whiskers by the thermal evaporation method with flowing oxygen gas.	1
401	Recycling of the Diamond-wire Saw Powder by Ni-catalyzed Nitridation to Prepare Si3N4. 1	
400	Controlled growth of gallium nitride nanowires on silicon and their utility in high performance Ultraviolet-A photodetectors. **2021**, 332, 113189	2
399	Contamination-Assisted Rather Than Metal Catalyst-Free Bottom-Up Growth of Silicon Nanowires. 2101121	1

398	Nanoscale Growth Initiation as a Pathway to Improve the Earth-Abundant Absorber Zinc Phosphide.	0
397	Short Fibers, Whiskers, and Nanotubes. **2000**, 11-46	
396	Whiskers. **2001**, 9570-9574	
395	Epitaxial Technology for MEMS Applications. **2001**, 952-955	
394	Ti-Island-Catalyzed Si Nanowire Growth by Gas-Source MBE: Morphology and Twinning. **2002**, 728, 8341	
393	The Growth of Carbon and Boron Nitride Nanotubes: A Quantum Molecular Dynamics Study. **2002**, 53-65	
392	Signal Conditioning CMOS Circuits Integrated on Si (111) for Image-Recording Sensor of Neural Activity. **2003**, 123, 363-367	0
391	Semiconducting Oxide and Nitride Nanowires. **2003**, 393-411	
390	Wide Band-Gap Semiconductor Nanowires Synthesized by Vapor Phase Growth. **2003**, 343-391	
389	Semiconductor Nanowires. **2003**, 878-942	
388	Multichannel microprobe electrode array chip.. **2004**, 11, 125-132	
387	Synthesis and Characterization of PbSe Nanocrystal Assemblies. **2005**, 207-224	
386	Design of Nanostructured Materials. **2005**,	
385	Nanobelts and Nanowires of Functional Oxides. **2005**,	
384	Laser Crystallization of Silicon Thin Films for Flat Panel Display Applications. **2006**, 317-373	
383	Metal Induced Crystallisation - an Advanced Method for Polycrystalline SI Films Preparation. **2006**, 301-311	
382	Strategies of Nanoscale Semiconductor Lasers. **2007**, 105-169	
381	Physical and Chemical Vapor Deposition Processes. **2007**, 8-2-8-27	

380 Growth Characteristics of GaAs and InAs Nanowhiskers. **2008**, 29, 736-739

379 Formation of III-V Compound Semiconductor Nanowires by using Selective-area MOVPE. **2008**, 29, 726-730

378 Advanced Growth Techniques of InAs-system Quantum Dots for Integrated Nanophotonic Circuits. **2008**, 529-551

377 One-Dimensional Phase-Change Nanomaterials for Information Storage Applications. **2008**, 273-290

376 Synthesis of Carbon Nanotubes and Silicon Carbide Nanofibers as Composite Reinforcing Materials. 41-48

375 Nanosensors: Controlling Transduction Mechanisms at the Nanoscale Using Metal Oxides and Semiconductors. **2009**, 1-51

374 Synthesis of Silicon and Zinc Oxide Nanowhiskers and Studies of Their Properties. **2009**, 217-225

373 Fabrication and Assembly of Nanomaterials and Nanostructures for Biological Detections. **2009**, 76-95

372 Formation of SiC Particles with Projections and a Complex Inner Substructure at the End Stage of Nanowire Growth. **2009**, 78, 034802

371 Microstructure Evolution and Process Control. **2010**, 215-269

370 Multiband model of the valence-band electronic structure in cylindrical GaAs nanowires. **2010**, 64, 165-170

369 Growth of n-doped GaAs nanowires by Au-assisted Metalorganic Chemical Vapor Deposition: Effect of Flux Rates of n-type Dopants. **2010**,

368 Effects of synthesis parameters on the growth of magnesium oxide nanowries by vapor-liquid-solid mechanism at low temperatures. **2010**, 59, 8814 2

367 Quantum Wire Formations by Crystal Growth. **2010**, 31, 13-18

366 Behavior of Solid Phase Crystallization of Amorphous Silicon Films at High Temperatures according to Raman Spectroscopy. **2010**, 43, 7-11

365 Semiconductor Nanowires. **2010**, 253-278

364 Nanowire- and Nanotube-Based Solar Cells. **2010**, 211-251 1

363 Self Catalyst Germanium Dioxide Comets-Like Nanowires by Thermal Evaporation. **2010**, 10, 1001-1005 1

362	ZnO Nanowires and Si Nanowires. 231-258	
361	Fundamentals and Functionality of Inorganic Wires, Rods and Tubes.	
360	Reliable Circuits Design with Nanowire Arrays. **2011**, 153-187	
359	Fabrication of Nanowire Crossbars. **2011**, 33-73	
358	Growths of InAs/GaAs and InAs/In x Ga1-x As/GaAs nanowire heterostructures. **2011**, 60, 036103	2
357	Nanowire Quantum Dots.	
356	Formation of GaN microstructures using metal catalysts on the vertex of GaN pyramids. **2011**, 21, 110-113	1
355	Controlled Synthesis of Hollow Hemispheric ZnO Shells/Cages on Graphite Fiber. **2011**, 2011, 1-5	
354	Semiconductor Nanowire Heterostructures: Controlled Growth and Optoelectronic Applications. **2012**, 137-166	
353	Semiconductor Templates for the Fabrication of Nano-Objects. 169-188	
352	Growth Characteristics of Amorphous Silicon Oxide Nanowires Synthesized via Annealing of Ni/SiO2/Si Substrates. **2011**, 32, 4371-4376	
351	Realtime TEM Observation of Nanoscaled Interface of Silicon and Gold. **2012**, 33, 159-164	
350	Nanocarbon Materials Growth Dependent on Au Nanoparticle Catalyst Size. **2012**, 33, 141-146	
349	Material and Doping Contrast in III/V Nanowires Probed by Kelvin Probe Force Microscopy. **2012**, 185-206	
348	Tin Whiskers. 323-335	
347	References. 177-198	
346	Nanowires and Nanotubes. 961-993	1
345	Inorganic Semiconductor Nanoarrays as Photoanodes for Solar Cells. **2012**, 375-419	

344 One-Dimensional Inorganic Semiconductor Nanostructures. **2012**, 37-70

343 Heterostructures and Strain Relaxation in Semiconductor Nanowires. **2012**, 189-228

342 Studying Nucleation Mechanism of Carbon Nanotubes by Using In Situ TEM. **2013**, 37-54

341 Synthesis of Vertically Aligned CuO Nanorods by Thermal Oxidation. **2013**, 23, 1-6

340 Designing of Interference Pattern Using Coherent Beams and Fabrication of Gold Nanowhisker Arrayed in Matrix. **2013**, 41, 811

339 6.5.3 Growth and fabrication of InGaAsP nanowhiskers on InP and silicon substrates. **2013**, 135-136

338 Growth of Nanomaterials by Screw Dislocation. **2013**, 639-664 0

337 Introduction. **2013**, 1-21

336 Progress of the Study of Self-Assembly 1D Nano-Functional Materials. **2013**, 02, 51-67

335 Single Crystalline InxGa1-xAs Nanowires on Si (111) via VLS Method. **2013**, 22, 105-110 1

334 Technology of Flexible Semiconductor/Memory Device. **2013**, 20, 1-9 3

333 Influence of High Temperature Annealing on the Structure and the Intrinsic Absorption Edge of Thin-Film Silicon Doped with Tin. **2013**, 58, 769-772 1

332 Fabrication and Characterization of Free-Standing Silicon Nanowires Based on Ultrasono-Method. **2013**, 6, 170-175

331 In situ Observations of Vapor□iquid□olid Growth of Silicon Nanowires. **2013**, 1-22

330 Fabrication of Nanowires and Their Applications. **2014**, 89-128

329 SiGe Nanowires for Thermoelectrics Applications. **2014**, 497-515

328 Introduction. **2014**, 1-6

327 Growth Mechanism of Silicon Nanowires. **2014**, 7-12

326 Performance Comparison of Carbon Nanotube, Graphene Nano Ribon and Silicon Nanowire Transistors. **2013**, 4, 1-10

325 Fabrication and Characterization of Dodecyl-derivatized Silicon Nanowires for Preventing Aggregation. **2013**, 34, 3451-3455

324 Synthesis of Single-Crystalline InSb Nanowires Using CVD Method and Study of Growth Mechanism in Open and Close System. **2013**, 22, 306-312

323 A Study on Formation of Vertically Aligned ZnO Nanorods Arrays on a Rough FTO Transparent Electrode by the Introduction of TiO2Crystalline Nano-sol Blocking Interlayer. **2013**, 51, 774-779 1

322 Chalcogenide Micro/Nanostructures by Evaporation Condensation Method. **2014**, 593-595

321 Preparation of GaN nanowires by nonammonia method and their photoelectronic properties. **2014**, 63, 117702 2

320 SiC Nanowires. **2014**, 195-269

319 Enhancement of Field Emission from Silicon Nanowires Treated with Carbon Tetrafluoride Plasma. **2014**, 939-946

318 Si-NWs. **2014**, 108-130

317 Formation of Vertical Epitaxial Si Nanowires on Si Using Self-organized Nanohole Array of Anodic Porous Alumina Template. **2014**, 80, 439-442

316 Chalcogenide Micro/Nanostructures by Evaporation Condensation Method. **2014**, 753-755

315 Otrzymywanie nanorurek w□glowych. **2014**,

314 Nanosilicon for Advanced Post-Scaling Applications. **2014**, 635-670

313 A new technique for producing epitaxial silicon layers using ultra-thin alloy zones. **1967**, 295-299

312 Kristallzucht aus der Gasphase. **1968**, 42-73 1

311 Technik der Kristallisation. **1969**, 174-370

310 Germanium and Silicon. **1972**, 113-148

309 Bibliography. **1972**, 306-373

290	Computational study of structures and electronic properties of SimGen (m+n=9) clusters. **2015**, 64, 042102	3
289	Material modeling for large scale and complex nanostructures: A semi-empirical Hamiltonian method. **2015**, 64, 187302	
288	Next-Generation GA Photovoltaics. 341-356	
287	Gold Nanorods. **2015**, 1-16	0
286	Growth of One-Dimensional Nanomaterials in the ETEM. **2016**, 213-235	0
285	Conclusions and Outlook on Templated Electrochemical Synthesis Using Coaxial Lithography. **2016**, 77-87	
284	Mechanism for Assembling Arrays of Rotary Nanoelectromechanical Devices. **2016**, 1946-1954	
283	Thermal Drawing of High-Density In-fiber Arrays of Well-Ordered 5-nm-Diameter Nanowires. **2016**,	
282	Nanotechnologia: Dlaczego? **2016**,	
281	Nanotechnology in Environmental Applications. **2016**, 37-77	
280	Chapter 6 Room Temperature Light Emission from Silicon Nanowires Fabricated by a Metal-Assisted Wet Etching Process. **2016**, 161-190	
279	Chapter 14: III□V Nanowires: Transistor and Photovoltaic Applications. **2016**, 465-516	
278	Chapter 12: InP/InAs Quantum Heterostructure Nanowires. **2016**, 397-436	
277	CHAPTER 6:Laser Deposition of Nano-ionic Liquids and Their Process Applications in a Vacuum. **2017**, 136-167	1
276	Effect of surface passivation on the electronic properties of GaAs nanowire:A first-principle study. **2017**, 66, 197302	1
275	Charge-Trap-Non-volatile Memory and Focus on Flexible Flash Memory Devices. **2017**, 55-89	1
274	Silicon nanowires for Li-based battery anode applications. **2017**, 455-474	
273	Silicon nanostalagmites for hybrid solar cells. **2017**, 523-538	

272 Silicon nanowires as electron field emitters. **2017**, 435-454

271 Nanoscale silicon in photonics and photovoltaics. **2017**, 593-616

270 Silicon nanowires in biomedicine. **2017**, 417-430

269 Nanosilicon and thermoelectricity. **2017**, 555-574

268 Formation and optical properties of silicon nanowire arrays. **2017**, 3-42

267 Si nanowires for evolutionary nanotechnology. **2017**, 515-536

266 Ion-implanted silicon nanowires. **2017**, 495-514

265 Silicon nanowire and nanohole arrays. **2017**, 193-212

264 BOR NÏTRÜR MÏKROTÜP (BNMT) SENTEZÏNE REAKSÏYON SÜRESÏNÏN ETKÏSÏ. **2017**, 32,

263 Predicting the growth of Si3N4 nanowires by phase-equilibrium-dominated vapor-liquid-solid mechanism. **2017**, 1,

262 Bibliography. **2017**, 349-358

261 Au-Catalyst Assisted MOVPE Growth of CdTe Nanowires for Photovoltaic Applications. **2018**, 279-288

260 InP/InAs Quantum Heterostructure Nanowires. **2017**, 397-436

259 SYNTHESIS OF ALUMINIUM BORATE WHISKERS THROUGH WET MOLTEN SALT METHOD. **2017**, 81-85

258 Polymorphous Nano-Si and Radial Junction Solar Cells. **2018**, 1-53

257 Morphological Change and Luminescence Properties of ZnO Crystals Synthesized by Thermal Evaporation of a Mixture of Zn and Cu Powder. **2018**, 28, 578-582

256 Use of atomic force microscope for the synthesis of GaAs/AlGaAs heterostructure base one-dimensional structure. **2018**, 4, 163-166

255 Chemistry and Physics for Nanostructures Semiconductivity. **2019**, 457-478 1

254	Polymorphous Nano-Si and Radial Junction Solar Cells. **2019**, 879-931	
253	Interfacing Biology Systems with Nanoelectronics for Nanodevices. **2019**, 701-759	1
252	Growth of SiO2 nanowires co-catalyzed by carbon and nickel particles. **2019**, 9, 2386	
251	Optoelectronic Properties and Applications of Quantum Dots. **2019**, 503-536	
250	The Structure of Semiconductors. **2020**, 1-51	
249	Nanostructured Black Silicon for Efficient Thin Silicon Solar Cells: Potential and Challenges. **2020**, 549-623	1
248	Laser-Induced Processing of Nanoparticles and Growth of Nanowires. **2020**, 1-39	
247	Direct formation of ZnO nanorods by hydrothermal process: study on its optical properties and electron transport. **2020**, 38, 91-96	
246	Features of synthesizing ceramic composites discretely reinforced by carbon fibers and SiC nanowires formed in situ in the combustion wave. **2020**, 41-54	
245	Selective area grown ZnTe nanowires as the basis for quasi-one-dimensional CdTe-HgTe multishell heterostructures. **2020**, 4,	0
244	Thermal Evaporation Syntheis and Luminescence Properties of SnO2 Nanocrystals using Mg as the Reducing Agent. **2020**, 30, 338-342	
243	Formation Mechanism of the Dominant Kinks in GaP Nanowires Grown in an In-situ (S)TEM Gas Cell Holder. **2020**, 26, 1432-1433	
242	Molecular Beam Epitaxy of Strained Nanoheterostructures Based on Si, Ge, and Sn. **2020**, 56, 470-477	
241	Nanometer-Scale Ge-Based Adaptable Transistors Providing Programmable Negative Differential Resistance Enabling Multivalued Logic. **2021**,	6
240	Mg-Doped GaAs Nanowires with Enhanced Surface Alloying for Use as Ohmic Contacts in Nanoelectronic Devices.	
239	Semiconductor Nanowire-Based Cellular and Subcellular Interfaces. 2107997	0
238	Novel one-step formed composite reinforcement of "Spider web like" SiCnw networks and "Z-pins like" SiC rods for ablation resistance improvement of C/C-ZrC-SiC. **2021**, 42, 786-786	1
237	Catalyzed Growth for Atomic-Precision Colloidal Chalcogenide Nanowires and Heterostructures: Progress and Perspective. **2021**, 12, 10695-10705	1

236	Mass Fabrication of 3D Silicon Nano-/Microstructures by Fab-Free Process Using Tip-Based Lithography. **2021**, 17, e2005036	5
235	Synthesis of enriched boron nitride nanocrystals: A potential element for biomedical applications. **2020**, 166, 109404	1
234	In situ observation of droplet nanofluidics for yielding low-dimensional nanomaterials. **2022**, 573, 151510	2
233	Bottom-up synthesis of nanosized objects. **2022**, 85-123	1
232	Controllable growth of GeSi nanowires on trench patterned Si(001) substrate. **2020**, 69, 028102	1
231	Laser-Induced Processing of Nanoparticles and Growth of Nanowires. **2021**, 1537-1575	
230	Special Growth Techniques. **2020**, 469-520	
229	The VLS Mechanism. **2020**, 69-99	
228	HWCVD: A Potential Tool for Silicon-Based Thin Films and Nanostructures. **2020**, 455-478	0
227	Introduction. **2020**, 1-11	
226	Self-catalytic Growth (SCG) Mechanism. **2020**, 187-205	
225	CHAPTER 5:Synthetic Strategies for Inorganic Nanowires. **2021**, 357-373	
224	Review of Hybrid 1D/2D Photocatalysts for Light-Harvesting Applications.	8
223	Obtaining Titanium Nitride Whisker from the Gas Phase. 1	
222	Electric-field control of exciton fine structure in alloyed nanowire quantum dot molecules. **2021**, 104,	0
221	Photosensors-based on cadmium sulfide (CdS) nanostructures: a review. **2021**, 58, 631	2
220	Friction-Induced Nucleation of Nanocrystals. **2006**, 45-54	
219	Growth and surface structure of silicon nanowires observed in real time in the electron microscope. 283-286	

218	Synthesis of Oxide Nanostructures. **2008**, 11-36	
217	Electronic Transport Through Metal Nanowire Contacts. **2008**, 139-148	
216	Metallization and Oxidation Templating of Surfaces for Directed Island Assembly. **2007**, 441-460	
215	Site Control and Selective-Area Growth Techniques of In As Quantum Dots with High Density and High Uniformity. **2007**, 463-488	
214	Dose dependent crystallographic structure of InAs nanowires. **2008**, 131-132	
213	Characterization of indium doped zinc oxide nanorods. **2008**, 191-192	
212	3D growth of silicon nanowires under pure hydrogen plasma at low temperature (250 °C). **2021**, 32, 065602	
211	InP/InAs Quantum Heterostructure Nanowires Toward Telecom-Band Nanowire Lasers. **2021**, 433-454	1
210	Impurity Doping in Semiconductor Nanowires. **2021**, 143-181	0
209	X-ray Methods for Structural Characterization of III-V Nanowires: From an ex-situ Ensemble Average to Time-resolved Nano-diffraction. **2021**, 185-250	
208	Photoluminescence Spectroscopy Applied to Semiconducting Nanowires: A Valuable Probe for Assessing Lattice Defects, Crystal Structures, and Carriers Temperature. **2021**, 289-306	
207	Synthesis and characterization of kinked GaAs nanowires by Sb surfactant. **2022**, 196, 110778	0
206	Protein biosensor based on Schottky barrier nanowire field effect transistor. **2021**, 239, 123092	1
205	Nanofabrication through molding. **2022**, 125, 100891	4
204	Topical Review: Pathways toward cost-effective single-junction III-V solar cells.	3
203	Bias-Switchable Photoconductance in a Nanoscale Ge Photodetector Operated in the Negative Differential Resistance Regime.	2
202	Post-nucleation evolution of the liquid-solid interface in nanowire growth. **2021**,	0
201	Measuring Surface Tension of III-V Nanowire Au-Catalyst Droplets with an E-field. **2021**, 27, 27-28	

200	Investigation of Cu whisker growth by molecular beam epitaxy. **2021**, 63, 988-993	
199	Silicon nanorod formation from powder feedstock through co-condensation in plasma flash evaporation and its feasibility for lithium-ion batteries. **2021**, 11, 22445	0
198	Silica Microspheres for Economical Advanced Solar Applications. **2021**, 11, 1409	
197	Plasma-Enhanced Chemical Vapor Deposition in a Transmission Electron Microscope?. **2021**, 27, 25-26	1
196	Effect of SiO2 Interlayer Thickness in Au/SiO2/Si Multilayer Systems on Si Sources and the Formation of Au-Based Nanostructures. **2022**, 9, 2101493	0
195	Hierarchical Carbon Nanofibers@Nickel Phosphide Nanoparticles for High-Performance Supercapacitors. 2100183	1
194	Homogeneous and well-aligned GaN nanowire arrays a modified HVPE process and their cathodoluminescence properties.. **2022**,	
193	Synthesis of Semiconductor Nanowires. **2022**, 9-26	
192	Intracrystalline migration of polymetallic Au-rich melts in multistage hydrothermal systems: example from the Xiaoqinling lode gold district, central China. **2022**, 57, 147	3
191	Revealing the Quantum-Confined Free Exciton A Anisotropic Emission in a CdS/CdS:SnS2 Superlattice Nanocone via Angle-Resolved Photoluminescence Spectroscopy.	0
190	A review of filamentous carbon nanomaterial synthesis via catalytic conversion of waste plastic pyrolysis products. **2022**, 10, 107049	4
189	Mechanism of droplet motion and in-plane nanowire formation with and without electromigration. **2022**, 579, 152015	0
188	Advances in synthesis and applications of boron nitride nanotubes: A review. **2022**, 431, 134118	4
187	Investigation of Sn-containing precursors for in-plane GeSn nanowire growth. **2022**, 899, 163273	1
186	Contacts between CMOS circuits and cell membrane by silicon nanowires. **2020**,	
185	Factors influencing the length distributions of vapor-liquid-solid nanowires. **2020**,	
184	Theory of MBE Growth of Nanowires on Reflecting Substrates.. **2022**, 12,	3
183	Applications of Hybrid Metal-Dielectric Nanostructures: State of the Art. 2100286	6

182	Synthesis of CdSe Nanowires and CuInSe2 Nanosheets for Hydrogen Evolution.	0
181	Perovskite Nanowires for Next-Generation Optoelectronic Devices: Lab to Fab.	0
180	Laser energy absorption and x-ray generation in nanowire arrays irradiated by relativistically intense ultra-high contrast femtosecond laser pulses. **2022**, 29, 013301	3
179	Introduction. **2022**, 1-38	
178	Localized Self-Assembly of InAs Nanowire Arrays on Reusable Si Substrates for Substrate-Free Optoelectronics. **2022**, 5, 840-851	1
177	A Triangle Hybrid Plasmonic Waveguide with Long Propagation Length for Ultradeep Subwavelength Confinement. **2022**, 12, 64	0
176	Defect control and Si/Ge core-shell heterojunction formation on silicon nanowire surfaces formed using the top-down method.. **2022**, 33,	
175	Substrate-Free Chemical Vapor Deposition of Large-Scale III–V Nanowires for High-Performance Transistors and Broad-Spectrum Photodetectors. 2102291	3
174	Cathodoluminescence mapping of electron concentration in MBE-grown GaAs:Te nanowires.. **2022**,	0
173	Controlling reaction paths for ultra-fast growth of inorganic nanowires floating in the gas phase. **2021**,	3
172	Growth of Single-Walled Carbon Nanotubes from Solid Carbon Nanoparticle Seeds via Cap Formation Engineering with a Two-Step Growth Process and Water Vapor Supply.. **2022**, 7, 3639-3648	0
171	Morphogenesis of Liquid Indium Microdroplets on Solid Molybdenum Surfaces during Solidification at Normal Pressure and under Vacuum Conditions.. **2022**,	
170	Tin oxide based nanostructured materials: synthesis and potential applications.. **2022**,	4
169	Material properties and potential applications of CdSe semiconductor nanocrystals. **2022**, 105-153	0
168	Integrated Nanotechnology 2.0: 3D, Smart, Flexible, and Dynamic [Highlights]. **2022**, 16, 11-15	
167	On the formation of Si nanowires by molecular beam epitaxy. **2022**, 97, 1008-1015	
166	Bioactive hybrid nanowires for drug delivery. **2022**, 269-301	
165	Homoepitaxial growth of high-quality GaN nanoarrays for enhanced UV luminescence.	

164	Visualizing the effects of plasma-generated H atoms in situ in a transmission electron microscope. **2022**, 97, 7	0
163	Iron-catalyzed graphitization for the synthesis of nanostructured graphitic carbons.	1
162	Probing Oxygen-to-Hydrogen Peroxide Electro-Conversion at Electrocatalysts Derived from Polyaniline.. **2022**, 14,	
161	Synthetic Methodologies for Si-Containing Li-Storage Electrode Materials. 2100198	1
160	One-Step Bottom-Up Growth of Highly Liquid Repellent Worm-Like Surfaces on Planar Substrates. 2101961	0
159	Growth selectivity control of InAs shells on crystal phase engineered GaAs nanowires.	1
158	Nanomaterials for sensors: Synthesis and applications. **2022**, 121-168	1
157	Study of Niga2o4 Microneedles Grown by a Thermal-Evaporation Method.	
156	Optimization of light absorption in ultrathin elliptical silicon nanowire arrays for solar cell applications. **2022**, 69, 368-380	2
155	Aligned deposition of bottom-up grown nanowires by two-directional pressure-controlled contact printing.. **2022**,	0
154	Theory of MBE Growth of Nanowires on Adsorbing Substrates: The Role of the Shadowing Effect on the Diffusion Transport.. **2022**, 12,	1
153	Liquid Metal as a New Reaction Medium. **2022**, 153-215	
152	Position Control of Self-Grown III□V Nanowire Arrays on Si Substrates via Micrometer-Size Patterns by Photolithography. **2022**, 22, 2266-2271	
151	Germanium nanowire microbolometer.. **2022**,	0
150	Particle swarm optimization of GaAs-AlGaAS nanowire photonic crystals as two-dimensional diffraction gratings for light trapping.	1
149	Ultrafast Photoacoustic Nanometrology of InAs Nanowires Mechanical Properties.	3
148	Induced quantum-Fano effect by Raman scattering and its correlation with field emission properties of silicon nanowires. **2022**, 128, 1	1
147	Leveraging dewetting models rather than nucleation models: current crystallographic challenges in interfacial and nanomaterials research. **2022**,	

146	Cutting-edge nano-LED technology. **2022**, 131, 110903	2
145	Ultra-thin broadband solar absorber based on stadium-shaped silicon nanowire arrays. **2022**, 15, 1	2
144	A study on repeatable and universal growth morphology optimization for nanowires grown on Si substrates. **2022**, 111057	0
143	Silicon Nanostructures for Molecular Sensing: A Review.	3
142	Geological and geochemical characteristics of the Wulong gold deposit, Liaodong Peninsula: Implications for gold mineralization. **2022**, 144, 104850	0
141	Catalyst-free growth of □Ga2O3 microstructures by thermal oxidation. **2022**, 310, 123000	
140	In-situ anisotropic growth of nickel oxide nanostructures through layer-by-layer metal oxidation. **2022**, 214, 114660	0
139	Sensitive detection of SARS-CoV-2 spike protein using vertically-oriented silicon nanowire array-based biosensor.. **2022**, 36, 100487	0
138	Gallium Diffusion Flow Direction during Deposition on the Surface with Regular Hole Arrays. **2021**, 47, 601-604	0
137	Unusually-high growth rate (~2.8 □m/s) of germania nanowires and its hierarchical structures by an in-situ continuous precursor supply. **2021**,	
136	Simultaneous Nucleation and Growth of Quaternary Polar and Nonpolar GaN□ZnO Solid Solution Nanowires and Nanorods. **2022**, 22, 813-820	0
135	Vapor□liquid-Solid silicon wires□synthesis catalyzed by a low-surface tension post-transition metal: effect of process parameters. **2021**, 23,	0
134	The Dependence of the Growth Rate and Structure of III□V Nanowires on the Adatom Collection Area on the Substrate Surface. **2021**, 47, 440-443	
133	Mechanical properties of fullerene embedded silicon nanowires. 1	0
132	Experimental Activation Energy for Solid Phase Crystallization of Amorphous Silicon Thin Films at Elevated Temperatures Using Vertical Cavity Surface-Emitting Laser-Based Infrared Heating.	0
131	Semiconductor Epitaxial Crystal Growth: Silicon Nanowires.	
130	Tuning the structural and optical properties of GeSiSn/Si multiple quantum wells and GeSn nanostructures using annealing and a faceted surface as a substrate. **2022**, 593, 153421	1
129	Data_Sheet_1.pdf. **2020**,	

128	Tuning nanowire lasers hybridization with two-dimensional materials.. **2022**,	1
127	Parameter-Free Model of the Self-Catalyzed Growth of Ga(As,P) Nanowires. **2022**, 56, 14-17	
126	Sn-Guided Self-Grown Ge Stripes Banded by Gesn Nanowires: Formation Mechanism and Electric-Field-Induced Switching from P- to N-Type Conduction.	
125	PLD Growth of InGaAsP Nanowires: Morphology Surface and Structural Property. **2022**,	
124	Preparation and optical properties of sulfur-doped silicon oxide microbelts and microrods. **2022**, 115294	1
123	One-dimensional van der Waals quantum materials. **2022**,	8
122	Properties of Spatially Indirect Excitons in Nanowire Arrays. **2022**, 12, 4924	
121	Silicon Nanowire Growth on Carbon Cloth for Flexible Li-ion Battery Anodes. **2022**, 101030	0
120	Analytical prediction for quasi-TE mode in silicon nanowire optical rectangular waveguide. 1	
119	Dispersibility, Stability, and Size Distribution of Au and Pt Nanoparticles on the Surface of Collapsed Multi-Walled Carbon Nanotubes. **2022**, 91,	0
118	Investigation of the cross-sectional morphology of epitaxial Si nanowires grown by chemical vapor deposition for the fabrication of vertical devices. **2022**, 281, 115748	
117	Modeling the Radial Growth of Self-Catalyzed III-V Nanowires. **2022**, 12, 1698	0
116	Silica Particle-Mediated Growth of Single Crystal Graphene Ribbons on Cu(111) Foil.. **2022**, e2202536	0
115	The Structure of Semiconductors. **2022**, 1-52	
114	Monolithic and Single-Crystalline AluminumSilicon Heterostructures.	3
113	Realization of axially defined GaInP/InP/InAsP triple-junction photovoltaic nanowires for high performance solar cells. **2022**, 101050	3
112	Study of NiGa2O4 microneedles grown by a thermal-evaporation method. **2022**, 165718	0
111	Composite silicon-iron nanoparticles: physical properties and potential application in MRI contrasting. **2022**, 24,	

110	Effect of defective structure taking on the electronic and optical properties of InP nanowire. **2022**, 640, 414042	
109	Bottom-up and Top-down Strategies for Fabrication of Silicon Nanowires. **2022**, 02, 69-82	
108	Vapor-Solid-Solid Growth of Si Nanowires Using Mg Seeds and Their Electrochemical Performance in Li-Ion Battery Anodes.	
107	Recent progress of Ga2O3-based gas sensors. **2022**,	1
106	Toward High Rate Performance Solid-State Batteries. 2200948	3
105	Catalyst-free synthesis of sub-5 nm silicon nanowire arrays with massive lattice contraction and wide bandgap. **2022**, 13,	2
104	Synthesis of Crossed Twin Disks of Zno and its Growth Mechanism.	
103	Electrospun carbon nanofibre-assisted patterning of metal oxide nanostructures. **2022**, 8,	1
102	Photocatalytic Activity of Silicon Nanowires Decorated with PbS Nanoparticles Deposited by Pulsed Laser Deposition for Efficient Wastewater Treatment. **2022**, 15, 4970	0
101	Sub-nanometer mapping of strain-induced band structure variations in planar nanowire core-shell heterostructures. **2022**, 13,	1
100	Comparative Study of Electrical Properties of Chalcogenide Films Produced by Reaction of Cu, Ag, Ni and Nicu with Sb2s3 in Hot Wall Epitaxy.	
99	Bottom-Up Growth Methods. **2022**, 1-37	
98	High-sensitive MIS structures with silicon nanocrystals grown via solid-state dewetting of silicon-on-insulator for solar cell and photodetector applications. **2022**, 33, 19376-19384	
97	Repeatedly and Superbroad Wavelength Tuning Microcavity in a Single Sn-Doped CdS Microcone. **2022**, 126, 12696-12703	
96	Theory of MOCVD Growth of III-V Nanowires on Patterned Substrates. **2022**, 12, 2632	1
95	Micro/Nanostructures for Light Trapping in Monocrystalline Silicon Solar Cells. **2022**, 2022, 1-40	0
94	Bottom-Up Growth of Graphene Nanospears and Nanoribbons. 2206961	
93	Effect of Silicate Additive on Structural and Electrical Properties of Germanium Nanowires Formed by Electrochemical Reduction from Aqueous Solutions. **2022**, 12, 2884	

92	Vapor-Phase Chemical Etching of Silicon Assisted by Graphene Oxide for Microfabrication and Microcontact Printing. **2022**, 5, 11707-11714	0
91	Tin versus indium catalyst in the growth of silicon nanowires by plasma enhanced chemical vapor deposition on different substrates. **2022**, 758, 139447	1
90	Sn-guided self-grown Ge stripes banded by GeSn Nanowires: Formation mechanism and electric-field-induced switching from p- to n-type conduction. **2022**, 604, 154443	0
89	Site-selective low-temperature growth of Au nanowires on Si substrates irradiated with low-energy Ar ions. **2022**, 604, 154616	
88	Vapor-solid-solid growth of silicon nanowires using magnesium seeds and their electrochemical performance in Li-ion battery anodes. **2023**, 452, 139397	0
87	Wetting of Ga Droplets in SiO2/Si Cavities: Application to Self-Assisted GaAs Nanowire Growth. **2022**, 22, 6070-6078	0
86	Single-phase (Hf 0.84 Ta 0.16)C solid solution nanowires growth via catalyst-assisted chemical vapor deposition.	0
85	Electromigration-Driven Crystallinity Design of Metallic Nanowire. **2022**, 71, 735-741	0
84	Silicon Nanostructures and Nanocomposites for Antibacterial and Theranostic Applications. **2022**, 113912	0
83	Ultrafast growth of carbon nanotubes using microwave irradiation: characterization and its potential applications. **2022**, e10943	1
82	Broadband tunable light emitters based on composition graded nanomaterials grown over silica optical fiber. **2022**, 252, 119363	0
81	Environmental gas sensors based on electroactive hybrid organic-inorganic nanocomposites.	0
80	Effect of quantum confinement on polarization anisotropy emission in Sn-doped CdS microcones.	0
79	Interfacial profile of axial nanowire heterostructures in the nucleation limited regime.	0
78	A Photoemission Analysis of Gold on Silicon Regarding the Initial Stages of Nanowire Metal-Catalyzed Vapor□liquid□olid Growth.	0
77	Mixed-Substituted Single-Source Precursors for Si1□Gex Thin Film Deposition. **2022**, 61, 17248-17255	1
76	Formation and Optical Characteristics of Tm,Yb-Codoped ZnO Nanowires Towards Improvement of Photovoltaic Conversion Efficiency Via Downconversion. **2022**, 71, 811-818	0
75	Real-Time Study of Surface-Guided Nanowire Growth by In Situ Scanning Electron Microscopy.	0

74	Nanowires for UV□visI□R Optoelectronic Synaptic Devices. 2208807	2
73	Criterion for Selective Area Growth of III-V Nanowires. **2022**, 12, 3698	0
72	Chemical Vapor Deposition of Transparent Superhydrophobic Anti-Icing Coatings with Tailored Polymer Nanoarray Architecture. **2022**, 139981	1
71	Formation of CuO whiskers and facet-controlled oxidation during the oxidation of Au-Cu nanoparticles fabricated by solid-state dewetting. **2022**, 155547	0
70	Comparative study of electrical properties of chalcogenide films produced by reaction of Cu, Ag, Ni and NiCu with Sb2S3 in hot wall epitaxy. **2023**, 931, 167565	0
69	One-dimensional semiconducting hierarchical nanostructures. **2022**,	0
68	Challenges in Electron Beam Lithography of Silicon Nanostructures. **2022**,	0
67	Hierarchical and Gradient Si Nano Wires-holes Arrays by LIL and MACE. **2022**,	0
66	In Situ Kinetic Observations on Crystal Nucleation and Growth.	8
65	Temporary Cohabitation: The Metastable Phase Au4Si.	0
64	Kinetic modeling of interfacial abruptness in axial nanowire heterostructures.	0
63	Morphology and Luminescence of Flexible Free-Standing ZnO/Zn Composite Films Grown by Vapor Transport Synthesis. **2022**, 15, 8165	0
62	Possible interplay of tangential and perpendicular modes in the growth of Fe-filled carbon nanotubes.	0
61	Electron Tractor Beam: Deterministic Manipulation of Liquid Droplets on Solid Surfaces. 2201963	0
60	Atomic Hydrogen Annealing of Graphene on InAs Surfaces and Nanowires: Interface and Morphology Control for Optoelectronics and Quantum Technologies. **2022**, 5, 17919-17927	0
59	Colloidal Synthesis of Metal Nanocrystals: From Asymmetrical Growth to Symmetry Breaking.	3
58	Silicon nanowires as an efficient material for hydrogen evolution through catalysis: A review. **2022**,	0
57	Economical Silicon Nanowire Growth via Cooling Controlled Solid□iquid□olid Mechanism. 2202247	0

56	One-Dimensional Semiconducting Hybrid Nanostructure: Gas Sensing and Optoelectronic Applications. **2023**, 1-26	0
55	One-Dimensional Si Nanostructure-Based Hybrid Systems: Surface-Enhanced R aman Spectroscopy and Photodetector Applications. **2023**, 185-203	0
54	Si Nanowires Grown on Cu Substrates via the Hot-Wire-Assisted Vapor□iquid□olid Method for Use as Anodes for Li-Ion Batteries. **2022**, 5, 17767-17782	0
53	Non-<111>-oriented semiconductor nanowires: growth, properties, and applications.	0
52	Super-Broad-Wavelength-Range Polarization-Selective Exciton-Polariton in Sn-Doped CdS Nanowires.	0
51	Damage protection from focused ion beam process toward nanocavity-implemented compound semiconductor nanowire lasers.	0
50	High aspect ratio arrays of Si nano-pillars using displacement Talbot lithography and gas-MacEtch. **2023**, 157, 107311	0
49	Observation of Focused Ion Beam-Induced Artifacts in Transmission Electron Microscopy Samples Leading to the Epitaxial Growth of AlGaSb Quantum Dots on the GaSb Substrate.	0
48	Nanostripe-Confined Catalyst Formation for Uniform Growth of Ultrathin Silicon Nanowires. **2023**, 13, 121	0
47	Bioactive glass nanofibers: synthesis and applications. **2023**, 351-378	0
46	Liquid-Phase Epitaxy. 1-31	0
45	Chemical Vapor Deposition of Zirconium Compounds: A Review. **2023**, 13, 266	0
44	In-Situ Gas Transmission Electron Microscopy. **2023**, 251-325	0
43	Synthesis and application of CdSe functional material. **2023**, 393-423	0
42	Transmission electron microscopy (TEM) studies of functional nanomaterials. **2023**, 467-512	0
41	Silicon-based lithium-ion battery anodes and their application in solid-state batteries. **2023**, 129-169	0
40	The Structure of Semiconductors. **2023**, 59-110	0
39	Growth and Luminescent Properties of the Regular Structure of ZnO Microcrystals on Si Substrates with Whiskers. **2022**, 67, 931-936	0

38	Quantum confinement in optically active ultrathin (Cd,Mn)Te/(Cd,Mg)Te core/shell nanowires. **2023**, 107,	0
37	Electrical and Structural Properties of Si1−xGex Nanowires Prepared from a Single-Source Precursor. **2023**, 13, 627	0
36	Synthesis of crossed twin disks of ZnO and its growth mechanism. **2023**, 127154	0
35	Anisotropic Heavy-Metal-Free Semiconductor Nanocrystals: Synthesis, Properties, and Applications. **2023**, 123, 3625-3692	0
34	Formation mechanism and characteristics of Au-Sn-O and Sn-O nanocompounds with various band gaps through flame chemical vapor deposition process. **2023**, 69, 431-443	0
33	Self-catalyzed GaP nanowire MOVPE growth on Si. **2023**, 609, 127138	0
32	The dependence of structural, optical and electrical properties on substrates for GaAs nanowires grown by metal organic chemical vapor deposition. **2023**, 149, 115671	0
31	One-dimensional α-Al2O3 growth from the oxidation of NiAl. **2023**, 216, 111069	0
30	A thin Si nanowire network anode for high volumetric capacity and long-life lithium-ion batteries. **2023**, 81, 20-27	0
29	Fabrication of ultrahigh aspect ratio Si nanopillar and nanocone arrays. **2023**, 41, 023001	0
28	Liquid elementary metals and alloys: Synthesis, characterization, properties, and applications. **2023**, 31, 101746	0
27	Neural modulation with photothermally active nanomaterials. **2023**, 1, 193-207	1
26	Single-Crystal Terbium Silicate Chloride Core–Shell Nanowires and Nanotubes for Monolithically Integrated Optoelectronics. **2023**, 6, 2963-2971	0
25	Light-Induced Surface Tension Gradients for Hierarchical Assembly of Particles from Liquid Metals.	0
24	Modifying the Molecular Structure of Carbon Nanotubes through Gas-Phase Reactants. **2023**, 3, 182-191	0
23	Demonstration of GaN:Eu/GaN nanowire light emitting diodes grown by selective-area organometallic vapor phase epitaxy. **2023**, 62, SG1018	0
22	Theory of diffusion-induced selective area growth of III-V nanostructures. **2023**, 7,	1
21	Recent Progress in Vacuum Engineering of Ionic Liquids. **2023**, 28, 1991	0

20	About the Shape of the Crystallization Front of the Semiconductor Nanowires. **2023**, 8, 8263-8275	0
19	Progress in group-IV semiconductor nanowires based photonic devices. **2023**, 129,	0
18	Nanowires for photodetection. **2023**, 139-197	0
17	Tuning the Liquid–Vapour Interface of VLS Epitaxy for Creating Novel Semiconductor Nanostructures. **2023**, 13, 894	0
16	One-dimensional III-nitrides: towards ultrahigh efficiency, ultrahigh stability artificial photosynthesis. **2023**, 11, 5427-5459	0
15	Chemical etching of InP assisted by graphene oxide. **2023**, 62, SG1040	0
14	Epitaxial growth of crystal phase quantum dots in III–V semiconductor nanowires. **2023**, 5, 1890-1909	0
13	The Growth of Submillimeter Spherules on a Graphite Surface Under Prolonged Heating. **2022**, 60, 513-522	0
12	Flow Effects on the Morphology of Silicon Materials Produced in a Gas Phase Reaction of SiCl₄. **2022**, 2022, 21-23	0
11	Optical Properties of Silicon Nanowires Obtained by Metal-Assisted Chemical Etching Using Gold Nanoparticles. **2023**, 117, 111-115	0
10	Modification of micro/nanoscaled manganese dioxide-based materials and their electrocatalytic applications toward oxygen evolution reaction. **2023**, 11, 6688-6746	0
9	Gold Drop Formation and Motion over a Si(111) Substrate: Monte Carlo Simulation. **2022**, 58, 608-615	0
8	InP Low-Dimensional Nanomaterials for Electronic and Optoelectronic Device Applications: A Review.	0
7	About Some Fundamental Aspects of the Growth Mechanism Vapor-Liquid-Solid Nanowires. **2023**, 2023, 1-18	0
6	Aligned Phthalocyanine Molecular Nanowires by Graphoepitaxial Self-Assembly and Their In Situ Integration into Photodetector Arrays.	0
5	Modeling Catalyst-Free Growth of III-V Nanowires: Empirical and Rigorous Approaches. **2023**, 13, 1253	0
4	Giant Grain Growth of 2,5-Di(2-thienyl)-1H-pyrrole Crystal Films: Kinetic Analysis of Self-Crystallization from Its Supercooled Liquid in Vacuum Deposition.	0
3	Growth of Ultrafine Si embedded SiO 2 Nanowires by Pt catalyst.	0

2	Direct Observation of Liquid–Solid Two-Phase Seed Particle-Assisted Kinking in GaP Nanowire Growth.	0
1	Improving Hazardous Gas Detection Behavior with Palladium Decorated SnO2 Nanobelts Networks. **2023**, 23, 4783	0