

Joan M Redwing

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

278 papers	10,164 citations	56 h-index	90 g-index
306 ext. papers	11,331 ext. citations	5.2 avg, IF	6.01 L-index

#	Paper	IF	Citations
278	Two-dimensional gallium nitride realized via graphene encapsulation. <i>Nature Materials</i> , 2016 , 15, 1166-1171	11.7	447
277	In situ epitaxial MgB2 thin films for superconducting electronics. <i>Nature Materials</i> , 2002 , 1, 35-8	27	355
276	Highly scalable, atomically thin WSe2 grown via metal-organic chemical vapor deposition. <i>ACS Nano</i> , 2015 , 9, 2080-7	16.7	273
275	Bottom-up assembly of large-area nanowire resonator arrays. <i>Nature Nanotechnology</i> , 2008 , 3, 88-92	28.7	257
274	High-field superconductivity in alloyed MgB2 thin films. <i>Physical Review B</i> , 2005 , 71,	3.3	213
273	Silicon nanowire array photoelectrochemical cells. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12344-5	16.4	204
272	Crystallographic wet chemical etching of GaN. <i>Applied Physics Letters</i> , 1998 , 73, 2654-2656	3.4	194
271	Optical properties of Si-doped GaN. <i>Applied Physics Letters</i> , 1997 , 71, 921-923	3.4	190
270	Optical Properties of Rectangular Cross-sectional ZnS Nanowires. <i>Nano Letters</i> , 2004 , 4, 1663-1668	11.5	185
269	The role of the tunneling component in the current-voltage characteristics of metal-GaN Schottky diodes. <i>Journal of Applied Physics</i> , 1998 , 84, 2099-2104	2.5	160
268	An optically pumped GaN/AlGaIn vertical cavity surface emitting laser. <i>Applied Physics Letters</i> , 1996 , 69, 1-3	3.4	154
267	Growth characteristics of silicon nanowires synthesized by vapor-liquid-solid growth in nanoporous alumina templates. <i>Journal of Crystal Growth</i> , 2003 , 254, 14-22	1.6	152
266	Nanometer-scale modification and welding of silicon and metallic nanowires with a high-intensity electron beam. <i>Small</i> , 2005 , 1, 1221-9	11	146
265	High voltage (450 V) GaN Schottky rectifiers. <i>Applied Physics Letters</i> , 1999 , 74, 1266-1268	3.4	139
264	Diffusion-Controlled Epitaxy of Large Area Coalesced WSe Monolayers on Sapphire. <i>Nano Letters</i> , 2018 , 18, 1049-1056	11.5	136
263	Diameter dependent growth rate and interfacial abruptness in vapor-liquid-solid Si/Si1-xGex heterostructure nanowires. <i>Nano Letters</i> , 2008 , 8, 1246-52	11.5	134
262	A roadmap for electronic grade 2D materials. <i>2D Materials</i> , 2019 , 6, 022001	5.9	133

261	Realizing Large-Scale, Electronic-Grade Two-Dimensional Semiconductors. <i>ACS Nano</i> , 2018 , 12, 965-975	16.7	127
260	Use of phosphine as an n-type dopant source for vapor-liquid-solid growth of silicon nanowires. <i>Nano Letters</i> , 2005 , 5, 2139-43	11.5	124
259	Superconducting MgB ₂ thin films on silicon carbide substrates by hybrid physical-chemical vapor deposition. <i>Applied Physics Letters</i> , 2003 , 82, 2097-2099	3.4	124
258	Enhancement of the superconducting transition temperature of MgB ₂ by a strain-induced bond-stretching mode softening. <i>Physical Review Letters</i> , 2004 , 93, 147006	7.4	121
257	Schottky barrier engineering in III-V nitrides via the piezoelectric effect. <i>Applied Physics Letters</i> , 1998 , 73, 1880-1882	3.4	120
256	Measuring the specific contact resistance of contacts to semiconductor nanowires. <i>Solid-State Electronics</i> , 2005 , 49, 227-232	1.7	117
255	Structural and electrical properties of trimethylboron-doped silicon nanowires. <i>Applied Physics Letters</i> , 2004 , 85, 3101-3103	3.4	116
254	Enhanced conversion efficiencies for pillar array solar cells fabricated from crystalline silicon with short minority carrier diffusion lengths. <i>Applied Physics Letters</i> , 2010 , 96, 213503	3.4	104
253	Electrochemical Investigation of the Gallium Nitride-Aqueous Electrolyte Interface. <i>Journal of the Electrochemical Society</i> , 1995 , 142, L238-L240	3.9	101
252	Vapor-Liquid-Solid Growth of Silicon-Germanium Nanowires. <i>Advanced Materials</i> , 2003 , 15, 2073-2076	24	100
251	MgB ₂ thin films by hybrid physical-chemical vapor deposition. <i>Physica C: Superconductivity and Its Applications</i> , 2007 , 456, 22-37	1.3	98
250	Capacitance-Voltage characterization of AlN/GaN metal-insulator-semiconductor structures grown on sapphire substrate by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , 2000 , 88, 1983-1986	2.5	97
249	Thickness dependence of the properties of epitaxial MgB ₂ thin films grown by hybrid physical-chemical vapor deposition. <i>Applied Physics Letters</i> , 2003 , 82, 4319-4321	3.4	92
248	Properties of MgB ₂ thin films with carbon doping. <i>Applied Physics Letters</i> , 2004 , 85, 2017-2019	3.4	86
247	Lateral Al _x Ga _{1-x} N power rectifiers with 9.7 kV reverse breakdown voltage. <i>Applied Physics Letters</i> , 2001 , 78, 823-825	3.4	85
246	Properties of Si donors and persistent photoconductivity in AlGa _N . <i>Solid-State Electronics</i> , 1998 , 42, 627-635	6.35	82
245	Effect of diborane on the microstructure of boron-doped silicon nanowires. <i>Journal of Crystal Growth</i> , 2005 , 277, 428-436	1.6	82
244	Radial junction silicon wire array solar cells fabricated by gold-catalyzed vapor-liquid-solid growth. <i>Applied Physics Letters</i> , 2010 , 97, 143108	3.4	81

243	Stranski-Krastanow growth of germanium on silicon nanowires. <i>Nano Letters</i> , 2005 , 5, 1081-5	11.5	80
242	Evidence of compensating centers as origin of yellow luminescence in GaN. <i>Applied Physics Letters</i> , 1997 , 71, 3224-3226	3.4	79
241	Growth stresses and cracking in GaN films on (111) Si grown by metal-organic chemical-vapor deposition. I. AlN buffer layers. <i>Journal of Applied Physics</i> , 2005 , 98, 023514	2.5	79
240	Ni and Ti Schottky barriers on n-AlGaIn grown on SiC substrates. <i>Applied Physics Letters</i> , 1998 , 73, 238-240	9.4	79
239	Diameter-Controlled Synthesis of Silicon Nanowires Using Nanoporous Alumina Membranes. <i>Advanced Materials</i> , 2005 , 17, 114-117	24	74
238	The impact of graphene properties on GaN and AlN nucleation. <i>Surface Science</i> , 2015 , 634, 81-88	1.8	73
237	Thermally stable PtSi Schottky contact on n-GaN. <i>Applied Physics Letters</i> , 1997 , 70, 1275-1277	3.4	72
236	X-ray photoemission spectroscopic investigation of surface treatments, metal deposition, and electron accumulation on InN. <i>Applied Physics Letters</i> , 2003 , 82, 3254-3256	3.4	72
235	Intrinsic stresses in AlN layers grown by metal organic chemical vapor deposition on (0001) sapphire and (111) Si substrates. <i>Journal of Applied Physics</i> , 2004 , 96, 2995-3003	2.5	71
234	Lateral Versus Vertical Growth of Two-Dimensional Layered Transition-Metal Dichalcogenides: Thermodynamic Insight into MoS ₂ . <i>Nano Letters</i> , 2016 , 16, 5742-50	11.5	70
233	Critical current density and resistivity of MgB ₂ films. <i>Applied Physics Letters</i> , 2003 , 83, 102-104	3.4	70
232	Defect-Controlled Nucleation and Orientation of WSe on hBN: A Route to Single-Crystal Epitaxial Monolayers. <i>ACS Nano</i> , 2019 , 13, 3341-3352	16.7	70
231	Persistent photoconductivity and defect levels in n-type AlGaIn/GaN heterostructures. <i>Applied Physics Letters</i> , 1998 , 72, 2745-2747	3.4	69
230	Fabrication and characterization of axially doped silicon nanowire tunnel field-effect transistors. <i>Nano Letters</i> , 2010 , 10, 4813-8	11.5	67
229	Benchmarking monolayer MoS and WS field-effect transistors. <i>Nature Communications</i> , 2021 , 12, 693	17.4	66
228	Template-directed vapor-liquid-solid growth of silicon nanowires. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002 , 20, 389		64
227	Fabrication and electrical properties of si nanowires synthesized by Al catalyzed vapor-liquid-solid growth. <i>Nano Letters</i> , 2009 , 9, 4494-9	11.5	63
226	Interfacial reactions between nickel thin films and GaN. <i>Journal of Applied Physics</i> , 1997 , 82, 650-654	2.5	63

225	Lateral variations in threshold voltage of an Al _x Ga _{1-x} N/GaN heterostructure field-effect transistor measured by scanning capacitance spectroscopy. <i>Applied Physics Letters</i> , 2001 , 78, 88-90	3.4	57
224	An Al/sub 0.3/Ga/sub 0.7/N/GaN undoped channel heterostructure field effect transistor with Fmax of 107 GHz. <i>IEEE Electron Device Letters</i> , 1999 , 20, 323-325	4.4	57
223	A low-power biomimetic collision detector based on an in-memory molybdenum disulfide photodetector. <i>Nature Electronics</i> , 2020 , 3, 646-655	28.4	57
222	Large anisotropic normal-state magnetoresistance in clean MgB2 thin films. <i>Physical Review Letters</i> , 2006 , 96, 167003	7.4	55
221	Growth stresses and cracking in GaN films on (111) Si grown by metalorganic chemical vapor deposition. II. Graded AlGaIn buffer layers. <i>Journal of Applied Physics</i> , 2005 , 98, 023515	2.5	52
220	Carbon doping in metalorganic vapor phase epitaxy. <i>Journal of Crystal Growth</i> , 1994 , 145, 382-389	1.6	52
219	Diameter-dependent composition of vapor-liquid-solid grown Si(1-x)Ge(x) nanowires. <i>Nano Letters</i> , 2007 , 7, 3241-5	11.5	51
218	Wafer-Scale Epitaxial Growth of Unidirectional WS Monolayers on Sapphire. <i>ACS Nano</i> , 2021 , 15, 2532-2541	16.7	51
217	Tin-Catalyzed Plasma-Assisted Growth of Silicon Nanowires. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3833-3839	3.8	50
216	Effect of damage by 2MeV He ions on the normal and superconducting properties of magnesium diboride. <i>Applied Physics Letters</i> , 2005 , 86, 012508	3.4	49
215	Controlled synthesis of 2D transition metal dichalcogenides: from vertical to planar MoS 2. <i>2D Materials</i> , 2017 , 4, 025029	5.9	48
214	Correlation of growth stress and structural evolution during metalorganic chemical vapor deposition of GaN on (111) Si. <i>Applied Physics Letters</i> , 2006 , 88, 041904	3.4	46
213	Effect of AlN interlayers on growth stress in GaN layers deposited on (111) Si. <i>Applied Physics Letters</i> , 2005 , 87, 142101	3.4	44
212	Internal photoemission measurement of Schottky barrier height for Ni on AlGaIn/GaN heterostructure. <i>Applied Physics Letters</i> , 1998 , 73, 3917-3919	3.4	44
211	Enhancement of flux pinning and high-field critical current density in carbon-alloyed MgB2 thin films. <i>Physical Review B</i> , 2006 , 74,	3.3	42
210	Considerations for Utilizing Sodium Chloride in Epitaxial Molybdenum Disulfide. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40831-40837	9.5	42
209	The nature of catalyst particles and growth mechanisms of GaN nanowires grown by Ni-assisted metal-organic chemical vapor deposition. <i>Nanotechnology</i> , 2009 , 20, 085610	3.4	41
208	High upper critical field and irreversibility field in MgB2 coated-conductor fibers. <i>Applied Physics Letters</i> , 2005 , 87, 252509	3.4	39

207	Tensile stress generation and dislocation reduction in Si-doped Al _x Ga _{1-x} N films. <i>Journal of Applied Physics</i> , 2009 , 106, 023506	2.5	37
206	Steady-state tensile stresses during the growth of polycrystalline films. <i>Acta Materialia</i> , 2007 , 55, 4973-4982	4.2	37
205	Effect of disorder in MgB ₂ thin films. <i>Physical Review B</i> , 2005 , 71,	3.3	37
204	Structural and electrical properties of epitaxial Bi ₂ Se ₃ thin films grown by hybrid physical-chemical vapor deposition. <i>Applied Physics Letters</i> , 2012 , 100, 162110	3.4	36
203	Nickel and nickel silicide Schottky barrier contacts to n-type silicon nanowires. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 1592		36
202	In situ stress measurements during the MOCVD growth of AlN buffer layers on (1 1 1) Si substrates. <i>Journal of Crystal Growth</i> , 2004 , 261, 294-300	1.6	36
201	Influence of Carbon in Metalorganic Chemical Vapor Deposition of Few-Layer WSe ₂ Thin Films. <i>Journal of Electronic Materials</i> , 2016 , 45, 6273-6279	1.9	35
200	Effect of damage by 2 MeV He ions and annealing on Hc ₂ in MgB ₂ thin films. <i>Applied Physics Letters</i> , 2005 , 87, 072507	3.4	35
199	Room-Temperature Active Modulation of Valley Dynamics in a Monolayer Semiconductor through Chiral Purcell Effects. <i>Advanced Materials</i> , 2019 , 31, e1904132	24	34
198	In situ axially doped n-channel silicon nanowire field-effect transistors. <i>Nano Letters</i> , 2008 , 8, 4359-64	11.5	34
197	Modification of critical current density of MgB ₂ films irradiated with 200 MeV Ag ions. <i>Applied Physics Letters</i> , 2004 , 84, 2352-2354	3.4	34
196	Fabrication and characterisation of enhanced barrier AlGa _N /Ga _N HFET. <i>Electronics Letters</i> , 1999 , 35, 6021.1	1.1	34
195	Temperature-Dependent Properties of Nearly Ideal ZnO Schottky Diodes. <i>IEEE Transactions on Electron Devices</i> , 2009 , 56, 2160-2164	2.9	33
194	Effect of growth conditions on the composition and structure of Si _{1-x} Gex nanowires grown by vapor-liquid-solid growth. <i>Journal of Materials Research</i> , 2006 , 21, 2876-2881	2.5	33
193	Dependence of penetration depth, microwave surface resistance and energy gap of MgB ₂ thin films on their normal-state resistivity. <i>Superconductor Science and Technology</i> , 2005 , 18, L1-L4	3.1	33
192	Schottky Diodes on MOCVD Grown AlGa _N Films. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 1998 , 3, 1		33
191	Growth and Characterization of Unintentionally Doped GaSb Nanowires. <i>Journal of Electronic Materials</i> , 2010 , 39, 355-364	1.9	31
190	SQUID magnetometer operating at 37 K based on nanobridges in epitaxial MgB ₂ thin films. <i>Applied Physics Letters</i> , 2005 , 87, 192505	3.4	31

189	Effect of indium surfactant on stress relaxation by V-defect formation in GaN epilayers grown by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , 2010 , 108, 093511	2.5	30
188	Facet roughness analysis for InGaN/GaN lasers with cleaved facets. <i>Applied Physics Letters</i> , 1998 , 73, 1925-1927	3.4	30
187	Progress in the deposition of MgB ₂ thin films. <i>Superconductor Science and Technology</i> , 2004 , 17, S196-S201	1.1	30
186	Stochastic resonance in MoS photodetector. <i>Nature Communications</i> , 2020 , 11, 4406	17.4	30
185	Planar MgB ₂ superconductor-normal metal-superconductor Josephson junctions fabricated using epitaxial MgB ₂ /TiB ₂ bilayers. <i>Applied Physics Letters</i> , 2006 , 88, 222511	3.4	29
184	Chalcogen Precursor Effect on Cold-Wall Gas-Source Chemical Vapor Deposition Growth of WS ₂ . <i>Crystal Growth and Design</i> , 2018 , 18, 4357-4364	3.5	28
183	Microwave noise performance of AlGaIn/GaN HEMTs. <i>Electronics Letters</i> , 2000 , 36, 175	1.1	28
182	Epitaxial Growth of Two-Dimensional Layered Transition Metal Dichalcogenides. <i>Annual Review of Materials Research</i> , 2020 , 50, 155-177	12.8	27
181	Metalorganic chemical vapor deposition of N-polar GaN films on vicinal SiC substrates using indium surfactants. <i>Applied Physics Letters</i> , 2012 , 100, 021913	3.4	27
180	Dislocation bending and tensile stress generation in GaN and AlGaIn films. <i>Journal of Crystal Growth</i> , 2012 , 359, 35-42	1.6	27
179	Formation of nickel germanide contacts to Ge nanowires. <i>Applied Physics Letters</i> , 2010 , 97, 263116	3.4	27
178	Oxidation of silicon nanowires for top-gated field effect transistors. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008 , 26, 370-374	2.9	27
177	In situ stress measurements during MOCVD growth of AlGaIn on SiC. <i>Journal of Crystal Growth</i> , 2004 , 272, 65-71	1.6	27
176	A near-field scanning optical microscopy study of the photoluminescence from GaN films. <i>Applied Physics Letters</i> , 1996 , 69, 3519-3521	3.4	27
175	Suppression of the vapor-liquid-solid growth of silicon nanowires by antimony addition. <i>Nanotechnology</i> , 2009 , 20, 025607	3.4	26
174	Resistivity measurements of intentionally and unintentionally template-grown doped silicon nanowire arrays. <i>Nanotechnology</i> , 2007 , 18, 315201	3.4	26
173	Multi-scale modeling of gas-phase reactions in metal-organic chemical vapor deposition growth of WSe ₂ . <i>Journal of Crystal Growth</i> , 2019 , 527, 125247	1.6	25
172	Local electrode atom probe analysis of silicon nanowires grown with an aluminum catalyst. <i>Nanotechnology</i> , 2012 , 23, 215205	3.4	25

171	Evolution of threading dislocations in MOCVD-grown GaN films on (111) Si substrates. <i>Journal of Crystal Growth</i> , 2007 , 300, 217-222	1.6	25
170	Vibrational and optical properties of GaN nanowires synthesized by Ni-assisted catalytic growth. <i>Nanotechnology</i> , 2007 , 18, 445704	3.4	25
169	Scalable BEOL compatible 2D tungsten diselenide. <i>2D Materials</i> , 2020 , 7, 015029	5.9	25
168	Fundamental limitations in transferred CVD graphene caused by Cu catalyst surface morphology. <i>Carbon</i> , 2020 , 163, 95-104	10.4	24
167	Growth of thick p-type SiC epitaxial layers by halide chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2008 , 310, 4088-4093	1.6	24
166	Substrate effects on GaN photoconductive detector performance. <i>Applied Physics Letters</i> , 1999 , 75, 25-27	3.4	24
165	Scanning electron microscope studies of AlGaIn films grown by organometallic vapor phase epitaxy. <i>Solid-State Electronics</i> , 1998 , 42, 637-646	1.7	23
164	. <i>IEEE Transactions on Applied Superconductivity</i> , 2005 , 15, 3234-3237	1.8	23
163	In situ growth of MgB ₂ /sub 2/ thin films by hybrid physical-chemical vapor deposition. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 3233-3237	1.8	23
162	Electron scattering dependence of dendritic magnetic instability in superconducting MgB ₂ films. <i>Applied Physics Letters</i> , 2004 , 85, 5284-5286	3.4	23
161	Effect of AlN buffer layers on the surface morphology and structural properties of N-polar GaN films grown on vicinal C-face SiC substrates. <i>Journal of Crystal Growth</i> , 2013 , 377, 51-58	1.6	22
160	High-Jc MgB ₂ Josephson junctions with operating temperature up to 40 K. <i>Applied Physics Letters</i> , 2010 , 96, 042506	3.4	22
159	Raman Scattering from Si _{1-x} Gex Alloy Nanowires. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3209-3215	3.8	22
158	In situ observation of coalescence-related tensile stresses during metalorganic chemical vapor deposition of GaN on sapphire. <i>Applied Physics Letters</i> , 2005 , 86, 261907	3.4	22
157	Multidimensional thermal analysis of an ultrawide bandgap AlGaIn channel high electron mobility transistor. <i>Applied Physics Letters</i> , 2019 , 115, 153503	3.4	21
156	FDTD modeling of solar energy absorption in silicon branched nanowires. <i>Optics Express</i> , 2013 , 21 Supl 3, A392-400	3.3	21
155	Scanning capacitance microscopy of AlGaIn/GaN heterostructure field-effect transistor epitaxial layer structures. <i>Applied Physics Letters</i> , 1999 , 75, 2250-2252	3.4	21
154	Surface morphology and thickness dependence of the properties of MgB ₂ thin films by hybrid physical-chemical vapor deposition. <i>Superconductor Science and Technology</i> , 2010 , 23, 055004	3.1	20

153	In situ measurement of stress generation arising from dislocation inclination in Al _x Ga _{1-x} N:Si thin films. <i>Applied Physics Letters</i> , 2008 , 93, 111910	3.4	19
152	Characterisation of rhenium Schottky contacts on n-type Al _x Ga _{1-x} N. <i>Electronics Letters</i> , 1999 , 35, 745	1.1	19
151	In-plane x-ray diffraction for characterization of monolayer and few-layer transition metal dichalcogenide films. <i>Nanotechnology</i> , 2018 , 29, 055706	3.4	19
150	Thin Film Transistors Using Wafer-Scale Low-Temperature MOCVD WSe ₂ . <i>Journal of Electronic Materials</i> , 2016 , 45, 6280-6284	1.9	18
149	Understanding Interlayer Coupling in TMD-hBN Heterostructure by Raman Spectroscopy. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 4059-4067	2.9	18
148	Ultrafast Electrical Measurements of Isolated Silicon Nanowires and Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2050-7	6.4	18
147	Modeling studies of the chemical vapor deposition of boron films from B ₂ H ₆ . <i>Journal of Crystal Growth</i> , 2007 , 299, 358-364	1.6	18
146	Nanoscale disorder in high critical field, carbon-doped MgB ₂ hybrid physical-chemical vapor deposition thin films. <i>Applied Physics Letters</i> , 2007 , 91, 082513	3.4	18
145	Degradation of MgB ₂ /sub 2/ thin films in water. <i>IEEE Transactions on Applied Superconductivity</i> , 2005 , 15, 224-227	1.8	18
144	Current limitation after pinch-off in AlGa _N /Ga _N FETs. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , 2000 , 5, 1		18
143	Photoelastic waveguides and the controlled introduction of strain in III-V semiconductors by means of thin film technology. <i>Journal of Applied Physics</i> , 1995 , 78, 236-244	2.5	18
142	Effect of substrate on the growth and properties of thin 3R NbS ₂ films grown by chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2018 , 486, 137-141	1.6	17
141	High-field properties of carbon-doped MgB ₂ thin films by hybrid physical-chemical vapor deposition using different carbon sources. <i>Superconductor Science and Technology</i> , 2011 , 24, 125014	3.1	17
140	Effect of reactor pressure on catalyst composition and growth of GaSb nanowires. <i>Journal of Crystal Growth</i> , 2010 , 312, 514-519	1.6	17
139	Fabrication of Cobalt Silicide Nanowire Contacts to Silicon Nanowires. <i>Journal of the Electrochemical Society</i> , 2003 , 150, G577	3.9	17
138	Terahertz surface impedance of epitaxial MgB ₂ thin film. <i>Applied Physics Letters</i> , 2005 , 87, 092503	3.4	17
137	Atomic layer deposition of ZnO on MoS ₂ and WSe ₂ . <i>Applied Surface Science</i> , 2019 , 480, 43-51	6.7	16
136	Single wire radial junction photovoltaic devices fabricated using aluminum catalyzed silicon nanowires. <i>Nanotechnology</i> , 2011 , 22, 445401	3.4	16

135	Photoluminescence studies of erbium-doped GaAs under hydrostatic pressure. <i>Journal of Applied Physics</i> , 1997 , 82, 368-374	2.5	16
134	Effect of polarity on the growth of InN films by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , 2008 , 104, 053112	2.5	16
133	Growth of Thick MgB ₂ Films by Impinging-Jet Hybrid Physical-Chemical Vapor Deposition. <i>Advanced Materials</i> , 2008 , 20, 319-323	24	16
132	The effect of polarity on MOCVD growth of thick InGa _N . <i>Applied Physics Letters</i> , 2017 , 110, 022101	3.4	15
131	Thermodynamic equilibrium limitations on the growth of SiC by halide chemical vapor deposition. <i>Journal of Applied Physics</i> , 2007 , 101, 014903	2.5	15
130	Evolution of surface morphology and film stress during MOCVD growth of InN on sapphire substrates. <i>Journal of Crystal Growth</i> , 2004 , 269, 128-133	1.6	15
129	Raman scattering in pure and carbon-doped MgB ₂ films. <i>Physical Review B</i> , 2005 , 71,	3.3	15
128	Growth studies of erbium-doped GaAs deposited by metalorganic vapor phase epitaxy using novel cyclopentadienyl-based erbium sources. <i>Journal of Applied Physics</i> , 1994 , 76, 1585-1591	2.5	15
127	Study of the gas phase chemistry in the silicon doping of GaAs grown by metalorganic vapor phase epitaxy using tertiarybutylarsine as the group V source. <i>Journal of Crystal Growth</i> , 1994 , 135, 423-433	1.6	14
126	Sulfidation of 2D transition metals (Mo, W, Re, Nb, Ta): thermodynamics, processing, and characterization. <i>Journal of Materials Science</i> , 2017 , 52, 10127-10139	4.3	13
125	The effect of pattern density and wire diameter on the growth rate of micron diameter silicon wires. <i>Journal of Crystal Growth</i> , 2011 , 337, 1-6	1.6	13
124	Clean epitaxial MgB ₂ films fabricated by the ex situ annealing of chemical vapour deposition-grown B films in Mg vapour. <i>Superconductor Science and Technology</i> , 2008 , 21, 045005	3.1	13
123	Crystallographic Wet Chemical Etching of p-Type GaN. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 763	3.9	13
122	Defect creation in WSe with a microsecond photoluminescence lifetime by focused ion beam irradiation. <i>Nanoscale</i> , 2020 , 12, 2047-2056	7.7	13
121	Influence of growth stress on the surface morphology of N-polar GaN films grown on vicinal C-face SiC substrates. <i>Applied Physics Letters</i> , 2013 , 103, 241908	3.4	12
120	Nanoscale disorder in pure and doped MgB ₂ thin films. <i>Superconductor Science and Technology</i> , 2010 , 23, 095008	3.1	12
119	Growth and process modeling studies of nickel-catalyzed metalorganic chemical vapor deposition of GaN nanowires. <i>Journal of Crystal Growth</i> , 2009 , 311, 3409-3416	1.6	12
118	Gas phase equilibrium limitations on the vapor-liquid-solid growth of epitaxial silicon nanowires using SiCl ₄ . <i>Journal of Materials Research</i> , 2011 , 26, 2207-2214	2.5	12

117	Evolution of Threading Dislocation Density and Stress in GaN Films Grown on (111) Si Substrates by Metalorganic Chemical Vapor Deposition. <i>Journal of Electronic Materials</i> , 2007 , 36, 346-352	1.9	12
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