

# James H Edgar

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/7621075/james-h-edgar-publications-by-citations.pdf>  
**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

262 papers	5,774 citations	37 h-index	68 g-index
281 ext. papers	6,922 ext. citations	6.5 avg, IF	5.9 L-index

#	Paper	IF	Citations
262	Substrates for gallium nitride epitaxy. <i>Materials Science and Engineering Reports</i> , <b>2002</b> , 37, 61-127	30.9	612
261	Wet etching of GaN, AlN, and SiC: a review. <i>Materials Science and Engineering Reports</i> , <b>2005</b> , 48, 1-46	30.9	547
260	Photonics with hexagonal boron nitride. <i>Nature Reviews Materials</i> , <b>2019</b> , 4, 552-567	73.3	253
259	Infrared hyperbolic metasurface based on nanostructured van der Waals materials. <i>Science</i> , <b>2018</b> , 359, 892-896	33.3	215
258	Prospects for device implementation of wide band gap semiconductors. <i>Journal of Materials Research</i> , <b>1992</b> , 7, 235-252	2.5	201
257	Ultralow-loss polaritons in isotopically pure boron nitride. <i>Nature Materials</i> , <b>2018</b> , 17, 134-139	27	191
256	Controlled growth of 3C-SiC and 6H-SiC films on low-tilt-angle vicinal (0001) 6H-SiC wafers. <i>Applied Physics Letters</i> , <b>1991</b> , 59, 333-335	3.4	119
255	Raman scattering studies on single-crystalline bulk AlN under high pressures. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 724-726	3.4	112
254	Reconfigurable infrared hyperbolic metasurfaces using phase change materials. <i>Nature Communications</i> , <b>2018</b> , 9, 4371	17.4	92
253	Phonon lifetimes in bulk AlN and their temperature dependence. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1958-1960	3.4	78
252	Bulk AlN crystal growth: self-seeding and seeding on 6H-SiC substrates. <i>Journal of Crystal Growth</i> , <b>2002</b> , 246, 187-193	1.6	69
251	Modulating the thermal conductivity in hexagonal boron nitride via controlled boron isotope concentration. <i>Communications Physics</i> , <b>2019</b> , 2,	5.4	67
250	Isotope engineering of van der Waals interactions in hexagonal boron nitride. <i>Nature Materials</i> , <b>2018</b> , 17, 152-158	27	66
249	Single photon emission from plasma treated 2D hexagonal boron nitride. <i>Nanoscale</i> , <b>2018</b> , 10, 7957-7965	5.7	64
248	Two-dimensional excitons in three-dimensional hexagonal boron nitride. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 191106	3.4	63
247	Single Crystal Growth of Millimeter-Sized Monoisotopic Hexagonal Boron Nitride. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6222-6225	9.6	63
246	Self-assembled monolayers of alkylphosphonic acid on GaN substrates. <i>Langmuir</i> , <b>2008</b> , 24, 6630-5	4	62

245	Distinctive in-Plane Cleavage Behaviors of Two-Dimensional Layered Materials. <i>ACS Nano</i> , <b>2016</b> , 10, 8980-8987	1.6	60
244	Defect-selective etching of bulk AlN single crystals in molten KOH/NaOH eutectic alloy. <i>Journal of Crystal Growth</i> , <b>2004</b> , 262, 89-94	1.6	60
243	Temperature Dependence of the Phonons of Bulk AlN. <i>Japanese Journal of Applied Physics</i> , <b>2000</b> , 39, L710-L712	1.4	56
242	Polariton nanophotonics using phase-change materials. <i>Nature Communications</i> , <b>2019</b> , 10, 4487	17.4	53
241	Application of oxidation to the structural characterization of SiC epitaxial films. <i>Applied Physics Letters</i> , <b>1991</b> , 59, 183-185	3.4	52
240	Transport effects in the sublimation growth of aluminum nitride. <i>Journal of Crystal Growth</i> , <b>2000</b> , 220, 243-253	1.6	46
239	Micromagnetometry of two-dimensional ferromagnets. <i>Nature Electronics</i> , <b>2019</b> , 2, 457-463	28.4	46
238	Epitaxy of Boron Phosphide on Aluminum Nitride(0001)/Sapphire Substrate. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 981-987	3.5	45
237	Fourier transform infrared spectroscopic study of predeposition reactions in metalloorganic chemical vapor deposition of gallium nitride. <i>Chemistry of Materials</i> , <b>1991</b> , 3, 737-742	9.6	45
236	Optimization of Ni <sub>4</sub> Ir flux growth for hexagonal boron nitride single crystals. <i>Journal of Crystal Growth</i> , <b>2014</b> , 393, 114-118	1.6	42
235	Raman characterization and stress analysis of AlN grown on SiC by sublimation. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 5183-5188	2.5	41
234	X-ray double crystal characterization of single crystal epitaxial aluminum nitride thin films on sapphire, silicon carbide and silicon substrates. <i>Journal of Applied Physics</i> , <b>1995</b> , 77, 6263-6266	2.5	40
233	Effect of beam voltage on the properties of aluminium nitride prepared by ion beam assisted deposition. <i>Journal of Materials Science: Materials in Electronics</i> , <b>1996</b> , 7, 247-253	2.1	40
232	Refractive Index-Based Control of Hyperbolic Phonon-Polariton Propagation. <i>Nano Letters</i> , <b>2019</b> , 19, 7725-7734	11.5	39
231	Effects of High-Energy Electron Irradiation on Quantum Emitters in Hexagonal Boron Nitride. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 24886-24891	9.5	38
230	The origin of 2.78 eV emission and yellow coloration in bulk AlN substrates. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 262104	3.4	38
229	Gaseous etching of 6H-SiC at relatively low temperatures. <i>Journal of Crystal Growth</i> , <b>2000</b> , 217, 115-124	1.6	38
228	Atomistic Insights into Nucleation and Formation of Hexagonal Boron Nitride on Nickel from First-Principles-Based Reactive Molecular Dynamics Simulations. <i>ACS Nano</i> , <b>2017</b> , 11, 3585-3596	16.7	37

227	Seeded growth of AlN on SiC substrates and defect characterization. <i>Journal of Crystal Growth</i> , <b>2008</b> , 310, 2464-2470	1.6	37
226	Crystal growth and properties of scandium nitride. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2004</b> , 15, 555-559	2.1	37
225	Raman scattering studies on single-crystalline bulk AlN: temperature and pressure dependence of the AlN phonon modes. <i>Journal of Crystal Growth</i> , <b>2001</b> , 231, 391-396	1.6	37
224	Wet Chemical Etching of AlN Single Crystals. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>2002</b> , 7, 1		37
223	Giant oscillations in a triangular network of one-dimensional states in marginally twisted graphene. <i>Nature Communications</i> , <b>2019</b> , 10, 4008	17.4	36
222	Collective near-field coupling and nonlocal phenomena in infrared-phononic metasurfaces for nano-light canalization. <i>Nature Communications</i> , <b>2020</b> , 11, 3663	17.4	35
221	Isotopic effects on phonon anharmonicity in layered van der Waals crystals: Isotopically pure hexagonal boron nitride. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	34
220	Influence of Atomic Layer Deposition Temperatures on TiO <sub>2</sub> /n-Si MOS Capacitor. <i>ECS Journal of Solid State Science and Technology</i> , <b>2013</b> , 2, N110-N114	2	34
219	Perfect interferenceless absorption at infrared frequencies by a van der Waals crystal. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	32
218	Photonic crystal for graphene plasmons. <i>Nature Communications</i> , <b>2019</b> , 10, 4780	17.4	30
217	Thermal oxidation of single crystalline aluminum nitride. <i>Materials Characterization</i> , <b>2007</b> , 58, 672-679	3.9	30
216	Influence of buffer layer and 6H-SiC substrate polarity on the nucleation of AlN grown by the sublimation sandwich technique. <i>Journal of Crystal Growth</i> , <b>2001</b> , 233, 177-186	1.6	30
215	Large-Scale Growth of High-Quality Hexagonal Boron Nitride Crystals at Atmospheric Pressure from an FeCl <sub>3</sub> Flux. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 4932-4935	3.5	29
214	Van der Waals engineering of ferroelectric heterostructures for long-retention memory. <i>Nature Communications</i> , <b>2021</b> , 12, 1109	17.4	29
213	Photoluminescence properties of AlN homoepilayers with different orientations. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 041905	3.4	28
212	High-speed homoepitaxy of SiC from methyltrichlorosilane by chemical vapor deposition. <i>Journal of Crystal Growth</i> , <b>2005</b> , 285, 506-513	1.6	28
211	DPBs-free and polytype controlled growth of SiC via surface etching on on-axis 6H-SiC(0001). <i>Journal of Crystal Growth</i> , <b>2001</b> , 224, 235-243	1.6	28
210	Metalorganic Surface Chemical Adsorption Deposition of AlN Films by Ammonia and Trimethylaluminum. <i>Journal of the Electrochemical Society</i> , <b>1991</b> , 138, 196-199	3.9	27

209	Real-space observation of vibrational strong coupling between propagating phonon polaritons and organic molecules. <i>Nature Photonics</i> , <b>2021</b> , 15, 197-202	33.9	26
208	Characterization of bulk hexagonal boron nitride single crystals grown by the metal flux technique. <i>Journal of Crystal Growth</i> , <b>2014</b> , 403, 110-113	1.6	24
207	HVPE of scandium nitride on 6H-SiC(0 0 0 1). <i>Journal of Crystal Growth</i> , <b>2008</b> , 310, 1075-1080	1.6	24
206	MOCVD growth of cubic GaN on 3C-SiC deposited on Si (100) substrates. <i>Journal of Electronic Materials</i> , <b>2000</b> , 29, 317-321	1.9	24
205	Exciton-phonon interaction in the strong-coupling regime in hexagonal boron nitride. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	23
204	MOCVD growth of GaBN on 6H-SiC (0001) substrates. <i>Journal of Electronic Materials</i> , <b>2000</b> , 29, 452-456	1.9	23
203	Effect of GaN surface treatment on Al <sub>2</sub> O <sub>3</sub> /n-GaN MOS capacitors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2015</b> , 33, 061201	1.3	22
202	Shallow and deep levels in carbon-doped hexagonal boron nitride crystals. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	22
201	Image polaritons in boron nitride for extreme polariton confinement with low losses. <i>Nature Communications</i> , <b>2020</b> , 11, 3649	17.4	21
200	Outstanding Thermal Conductivity of Single Atomic Layer Isotope-Modified Boron Nitride. <i>Physical Review Letters</i> , <b>2020</b> , 125, 085902	7.4	21
199	c-Boron/aluminum nitride alloys prepared by ion-beam assisted deposition. <i>Thin Solid Films</i> , <b>1997</b> , 298, 33-38	2.2	20
198	Crystal growth of B <sub>12</sub> As <sub>2</sub> on SiC substrate by CVD method. <i>Journal of Crystal Growth</i> , <b>2005</b> , 273, 431-438	3.6	20
197	Fizeau drag in graphene plasmonics. <i>Nature</i> , <b>2021</b> , 594, 513-516	50.4	20
196	Energy band structure and optical response function of icosahedral B <sub>12</sub> As <sub>2</sub> : A spectroscopic ellipsometry and first-principles calculational study. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	19
195	Native oxide and hydroxides and their implications for bulk AlN crystal growth. <i>Journal of Crystal Growth</i> , <b>2008</b> , 310, 4002-4006	1.6	19
194	Unstable composition region in the wurtzite B <sub>1-x</sub> Ga <sub>x</sub> Al <sub>y</sub> N system. <i>Journal of Crystal Growth</i> , <b>2000</b> , 208, 179-182	1.6	19
193	Selective epitaxial growth of silicon carbide on SiO <sub>2</sub> masked Si(100): The effects of temperature. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 201-204	2.5	19
192	Sublimation growth of aluminum nitride crystals. <i>Journal of Crystal Growth</i> , <b>2006</b> , 297, 105-110	1.6	18

191	A Global Growth Rate Model for Aluminum Nitride Sublimation. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, G12	3.9	18
190	A comparison of NF <sub>3</sub> and NH <sub>3</sub> as the nitrogen sources for AlN crystal growth by metalorganic chemical vapor deposition. <i>Thin Solid Films</i> , <b>1991</b> , 204, 115-121	2.2	18
189	Nanoscale Guiding of Infrared Light with Hyperbolic Volume and Surface Polaritons in van der Waals Material Ribbons. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906530	24	17
188	Preparation, properties, and characterization of boron phosphide films on 4H- and 6H-silicon carbide. <i>Solid State Sciences</i> , <b>2015</b> , 47, 55-60	3.4	17
187	Photopolymerization of self-assembled monolayers of diacetylenic alkylphosphonic acids on group-III nitride substrates. <i>Langmuir</i> , <b>2010</b> , 26, 10725-30	4	17
186	Low-temperature chemical-vapor deposition of 3C-SiC films on Si(1 0 0) using SiH <sub>4</sub> -C <sub>2</sub> H <sub>4</sub> -Cl <sub>2</sub> . <i>Journal of Crystal Growth</i> , <b>1998</b> , 191, 439-445	1.6	17
185	Thermal oxidation of polycrystalline and single crystalline aluminum nitride wafers. <i>Journal of Electronic Materials</i> , <b>2005</b> , 34, 1271-1279	1.9	17
184	Growth Mode and Defects in Aluminum Nitride Sublimed on (0001) 6H-SiC Substrates. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>2001</b> , 6, 1		17
183	Raman spectroscopy of B <sub>12</sub> As <sub>2</sub> under high pressure. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 910-912	2.5	16
182	New Technique for Sublimation Growth of AlN Single Crystals. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>2001</b> , 6, 1		16
181	The growth and characterization of GaN on sapphire and silicon. <i>Journal of Electronic Materials</i> , <b>1992</b> , 21, 383-387	1.9	15
180	Strong magnetophonon oscillations in extra-large graphene. <i>Nature Communications</i> , <b>2019</b> , 10, 3334	17.4	14
179	Temperature dependence of the energy bandgap of two-dimensional hexagonal boron nitride probed by excitonic photoluminescence. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 053503	2.5	14
178	High pressure X-ray diffraction study on icosahedral boron arsenide (B <sub>12</sub> As <sub>2</sub> ). <i>Journal of Physics and Chemistry of Solids</i> , <b>2011</b> , 72, 144-146	3.9	14
177	Hardness, elastic modulus and structure of indium nitride thin films on AlN-nucleated sapphire substrates. <i>Journal of Materials Science: Materials in Electronics</i> , <b>1997</b> , 8, 307-312	2.1	14
176	Double-positioning twinning in icosahedral B <sub>12</sub> As <sub>2</sub> thin films grown by chemical vapor deposition. <i>Materials Letters</i> , <b>2004</b> , 58, 1331-1335	3.3	14
175	Effects of the Addition of Silane during Carbonization on the Epitaxy of 3C-SiC on Si. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, G550	3.9	14
174	X-ray double crystal and X-ray topographic characterization of silicon carbide thin films on silicon, titanium carbide, 6H-silicon carbide, and aluminum nitride/sapphire substrates. <i>Thin Solid Films</i> , <b>1996</b> , 274, 23-30	2.2	14

173	The Electrical and Compositional Properties of AlN - Si Interfaces. <i>Journal of the Electrochemical Society</i> , <b>1992</b> , 139, 1146-1151	3.9	14
172	Nature of exciton transitions in hexagonal boron nitride. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 122101	3.4	14
171	Demonstration of boron arsenide heterojunctions: A radiation hard wide band gap semiconductor device. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 223506	3.4	13
170	ScAlN nanowires: A cathodoluminescence study. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 3147-3151	1.6	13
169	Sublimation crystal growth of yttrium nitride. <i>Journal of Crystal Growth</i> , <b>2010</b> , 312, 2896-2903	1.6	13
168	The Durability of Various Crucible Materials for Aluminum Nitride Crystal Growth by Sublimation. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>2004</b> , 9, 1		13
167	Low-temperature epitaxial growth and photoluminescence characterization of GaN. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 2317-2319	3.4	13
166	Low temperature metal-organic chemical vapor deposition of aluminum nitride with nitrogen trifluoride as the nitrogen source. <i>Thin Solid Films</i> , <b>1990</b> , 189, L11-L14	2.2	13
165	Predicting the preferred morphology of hexagonal boron nitride domain structure on nickel from ReaxFF-based molecular dynamics simulations. <i>Nanoscale</i> , <b>2019</b> , 11, 5607-5616	7.7	12
164	Photoluminescence investigation of the indirect band gap and shallow impurities in icosahedral B12As2. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 013508	2.5	12
163	A Comparison of Aluminum Nitride Freely Nucleated and Seeded on 6H-Silicon Carbide. <i>Materials Science Forum</i> , <b>2000</b> , 338-342, 1599-1602	0.4	12
162	Epitaxial Growth of SiC on Sapphire Substrates with an AlN Buffer Layer. <i>Journal of the Electrochemical Society</i> , <b>1994</b> , 141, 510-513	3.9	12
161	Planar refraction and lensing of highly confined polaritons in anisotropic media. <i>Nature Communications</i> , <b>2021</b> , 12, 4325	17.4	12
160	Probing hyperbolic polaritons using infrared attenuated total reflectance micro-spectroscopy. <i>MRS Communications</i> , <b>2018</b> , 8, 1418-1425	2.7	12
159	Insulating gallium oxide layer produced by thermal oxidation of gallium-polar GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2014</b> , 11, 565-568		11
158	A Comparison of N-Polar () GaN Surface Preparations for the Atomic Layer Deposition of Al2O3. <i>ECS Journal of Solid State Science and Technology</i> , <b>2014</b> , 3, N127-N131	2	11
157	Semiconducting icosahedral boron arsenide crystal growth for neutron detection. <i>Journal of Crystal Growth</i> , <b>2011</b> , 318, 553-557	1.6	11
156	Initial Nucleation Study and New Technique for Sublimation Growth of AlN on SiC Substrate. <i>Physica Status Solidi A</i> , <b>2001</b> , 188, 757-762		11



155	Thermodynamic analysis of Ga <sub>x</sub> B <sub>1-x</sub> N grown by MOVPE. <i>Journal of Crystal Growth</i> , <b>2000</b> , 217, 109-114	1.6	11
154	Hexagonal Boron Nitride Crystal Growth from Iron, a Single Component Flux. <i>ACS Nano</i> , <b>2021</b> , 15, 7032-7039	10.3	11
153	Long-Lived Phonon Polaritons in Hyperbolic Materials. <i>Nano Letters</i> , <b>2021</b> , 21, 5767-5773	11.5	11
152	Excellent electronic transport in heterostructures of graphene and monoisotopic boron-nitride grown at atmospheric pressure. <i>2D Materials</i> , <b>2020</b> , 7, 031009	5.9	11
151	Enhanced Light-Matter Interaction in 10B Monoisotopic Boron Nitride Infrared Nanoresonators. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001958	8.1	11
150	Probing Mid-Infrared Phonon Polaritons in the Aqueous Phase. <i>Nano Letters</i> , <b>2020</b> , 20, 3986-3991	11.5	10
149	Thermal conductivity and Seebeck coefficients of icosahedral boron arsenide films on silicon carbide. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 084906	2.5	10
148	Single-crystalline B <sub>12</sub> As <sub>2</sub> on m-plane (11 $\bar{2}$ 00) 15R-SiC. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 231917	3.4	10
147	Defect structures in B <sub>12</sub> As <sub>2</sub> epitaxial layers grown on (0001) 6H-SiC. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 123508	2.5	10
146	Heteroepitaxial B <sub>12</sub> As <sub>2</sub> on silicon substrates. <i>Journal of Crystal Growth</i> , <b>2006</b> , 293, 162-168	1.6	10
145	Bulk AlN crystal growth by direct heating of the source using microwaves. <i>Journal of Crystal Growth</i> , <b>2004</b> , 262, 168-174	1.6	10
144	Fourier transform infrared spectroscopic study of predeposition reactions in metalloorganic chemical vapor deposition of gallium nitride. 2. <i>Chemistry of Materials</i> , <b>1991</b> , 3, 1093-1097	9.6	10
143	Deep ultraviolet hyperspectral cryomicroscopy in boron nitride: Photoluminescence in crystals with an ultra-low defect density. <i>AIP Advances</i> , <b>2020</b> , 10, 075025	1.5	10
142	MoS <sub>2</sub> /h-BN heterostructures: controlling MoS <sub>2</sub> crystal morphology by chemical vapor deposition. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 7028-7038	4.3	9
141	Influence of isotopic substitution on the anharmonicity of the interlayer shear mode of h-BN. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	9
140	Isotopic Disorder: The Prevailing Mechanism in Limiting the Phonon Lifetime in Hexagonal BN. <i>Physical Review Letters</i> , <b>2020</b> , 124, 167402	7.4	9
139	Sublimation Growth and Characterization of Erbium Nitride Crystals. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 3762-3766	3.5	9
138	The high-pressure compressibility of B <sub>12</sub> P <sub>2</sub> . <i>Journal of Physics and Chemistry of Solids</i> , <b>2017</b> , 102, 21-26	3.9	9



137	Sublimation growth of titanium nitride crystals. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2010</b> , 21, 78	2.1	9
136	Selective Epitaxial Growth of SiC: Thermodynamic Analysis of the Si-C-Cl-H and Si-C-Cl-H-O Systems. <i>Journal of the Electrochemical Society</i> , <b>1997</b> , 144, 1875-1880	3.9	9
135	Nucleation of AlN on SiC substrates by seeded sublimation growth. <i>Journal of Crystal Growth</i> , <b>2007</b> , 300, 336-342	1.6	9
134	Revealing Phonon Polaritons in Hexagonal Boron Nitride by Multipulse Peak Force Infrared Microscopy. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901084	8.1	9
133	Hexagonal Boron Nitride Single Crystal Growth from Solution with a Temperature Gradient. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 5066-5072	9.6	8
132	CVD growth and properties of boron phosphide on 3C-SiC. <i>Journal of Crystal Growth</i> , <b>2016</b> , 449, 15-21	1.6	8
131	Equation of state of single-crystal cubic boron phosphide. <i>Journal of Superhard Materials</i> , <b>2014</b> , 36, 61-64	4.9	8
130	Defect sensitive etching of hexagonal boron nitride single crystals. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 225110	2.5	8
129	Seebeck Coefficient and Electrical Resistivity of Single Crystal B12As2 at High Temperatures. <i>Journal of the Physical Society of Japan</i> , <b>2013</b> , 82, 095001	1.5	8
128	Low temperature chemical vapor deposition of 3C-SiC on 6H-SiC [high resolution X-ray diffractometry and synchrotron X-ray topography study. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 76, 217-224	3.1	8
127	Spatiotemporal imaging of 2D polariton wave packet dynamics using free electrons. <i>Science</i> , <b>2021</b> , 372, 1181-1186	33.3	8
126	Exploiting the P L <sub>2,3</sub> absorption edge for optics: spectroscopic and structural characterization of cubic boron phosphide thin films. <i>Optical Materials Express</i> , <b>2016</b> , 6, 3946	2.6	8
125	Ultrahigh-Resolution, Label-Free Hyperlens Imaging in the Mid-IR. <i>Nano Letters</i> , <b>2021</b> , 21, 7921-7928	11.5	8
124	Determining crystal phase purity in c-BP through X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 8174-8187	3.6	7
123	Self-healing in B12P2 through Mediated Defect Recombination. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 8415-8428	4.28	7
122	X-ray diffraction and high resolution transmission electron microscopy of 3C-SiC/AlN/6H-SiC(0001). <i>Journal of Electronic Materials</i> , <b>1997</b> , 26, 1389-1393	1.9	7
121	Interface properties of an AlN/(AlN) <sub>x</sub> (SiC) <sub>1-x</sub> /4H-SiC heterostructure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 3720-3725	1.6	7
120	Defect-selective etching of scandium nitride crystals. <i>Journal of Crystal Growth</i> , <b>2006</b> , 293, 242-246	1.6	7

119	Free nucleation of aluminum nitride single crystals in HPBN crucible by sublimation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2005</b> , 117, 99-104	3.1	7
118	Guided Mid-IR and Near-IR Light within a Hybrid Hyperbolic-Material/Silicon Waveguide Heterostructure. <i>Advanced Materials</i> , <b>2021</b> , 33, e2004305	24	7
117	Cubic boron phosphide epitaxy on zirconium diboride. <i>Journal of Crystal Growth</i> , <b>2018</b> , 483, 115-120	1.6	7
116	Bulk (100) scandium nitride crystal growth by sublimation on tungsten single crystal seeds. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 122106	3.4	7
115	Detection of defect populations in superhard semiconductor boron subphosphide B12P2 through X-ray absorption spectroscopy. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 5737-5749	13	6
114	Single crystal growth of monoisotopic hexagonal boron nitride from a FeIr flux. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 9931-9935	7.1	6
113	Properties of bulk scandium nitride crystals grown by physical vapor transport. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 132103	3.4	6
112	The coefficients of thermal expansion of boron arsenide (B12As2) between 25°C and 850°C. <i>Journal of Physics and Chemistry of Solids</i> , <b>2013</b> , 74, 673-676	3.9	6
111	The effects of the simultaneous addition of diborane and ammonia on the hot-filament assisted chemical vapor deposition of diamond. <i>Diamond and Related Materials</i> , <b>1998</b> , 7, 35-42	3.5	6
110	The effect of Si doping on the electrical properties of B12As2 thin films on (0001) 6H-SiC substrates. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 053710	2.5	6
109	Aluminum Nitride-Silicon Carbide Alloy Crystals Grown on SiC Substrates by Sublimation. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>2005</b> , 10, 1		6
108	CrBt Ohmic contacts to B12As2. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 042103	3.4	6
107	The role of trimethylgallium flow during nucleation layer deposition in the optimization of epitaxial GaN films. <i>Thin Solid Films</i> , <b>2000</b> , 360, 34-38	2.2	6
106	Surface etching of 6H-SiC (0001) and surface morphology of the subsequently grown GaN via MOCVD. <i>Journal of Electronic Materials</i> , <b>2000</b> , 29, 411-417	1.9	6
105	Cathodoluminescence and x-ray photoelectron spectroscopy of ScN: Dopant, defects, and band structure. <i>APL Materials</i> , <b>2020</b> , 8, 081103	5.7	6
104	Direct Laser Patterning of a 2D WSe2 Logic Circuit. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009549	15.6	6
103	Determination of the optical bandgap of the Bernal and rhombohedral boron nitride polymorphs. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	6
102	Revealing Nanoscale Confinement Effects on Hyperbolic Phonon Polaritons with an Electron Beam. <i>Small</i> , <b>2021</b> , 17, e2103404	11	6

101	Growth mechanisms and defect structures of B12As2 epilayers grown on 4 H-SiC substrates. <i>Journal of Crystal Growth</i> , <b>2012</b> , 352, 3-8	1.6	5
100	Effect of Impurities on Raman and Photoluminescence Spectra of AlN Bulk Crystals. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 798, 454		5
99	Characterization of Aluminum Nitride Crystals Grown by Sublimation. <i>Physica Status Solidi A</i> , <b>2001</b> , 188, 769-774		5
98	Investigation of the Growth of 3C-SiC and 6H-SiC Films on Low-Tilt-Angle Vicinal (0001) 6H-SiC Wafers. <i>Springer Proceedings in Physics</i> , <b>1992</b> , 23-30	0.2	5
97	Three-dimensional near-field analysis through peak force scattering-type near-field optical microscopy. <i>Nanoscale</i> , <b>2020</b> , 12, 1817-1825	7.7	5
96	Pressure dependence of the interlayer and intralayer E2g Raman-active modes of hexagonal BN up to the wurtzite phase transition. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	5
95	Ellipsometry Study of Hexagonal Boron Nitride Using Synchrotron Radiation: Transparency Window in the Far-UV. <i>Advanced Photonics Research</i> , <b>2021</b> , 2, 2000101	1.9	5
94	Flat Bands and Giant Light-Matter Interaction in Hexagonal Boron Nitride. <i>Physical Review Letters</i> , <b>2021</b> , 127, 137401	7.4	5
93	Hydride CVD Hetero-epitaxy of B12P2 on 4H-SiC. <i>Journal of Crystal Growth</i> , <b>2017</b> , 459, 112-117	1.6	4
92	Phonon states of B 12 P 2 crystals: Ab initio calculation and experiment. <i>Journal of Physics and Chemistry of Solids</i> , <b>2017</b> , 110, 248-253	3.9	4
91	Band structure and infrared optical transitions in ErN. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 171104	3.4	4
90	Comparison of the physical, chemical and electrical properties of ALD Al2O3 on c- and m- plane GaN. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2014</b> , 11, 898-901		4
89	Mechanism for Improved Quality B12As2 Epitaxial Films on (0001) 4H-SiC Substrates Offcut towards [1100]. <i>Materials Research Society Symposia Proceedings</i> , <b>2010</b> , 1246, 1		4
88	Growth of scandium aluminum nitride nanowires on ScN(111) films on 6H-SiC substrates by HVPE. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2009</b> , 206, 2809-2815	1.6	4
87	Transmission electron microscopy study of defects in AlN crystals with rough and smooth surface grains. <i>Journal of Crystal Growth</i> , <b>2010</b> , 312, 3479-3484	1.6	4
86	The effects of the simultaneous addition of diborane and ammonia on the hot-filament-assisted chemical vapor deposition of diamond II. Characterization of diamond and BCN film. <i>Diamond and Related Materials</i> , <b>1998</b> , 7, 1357-1363	3.5	4
85	Investigation of Thin Film Growth of B12As2 by Chemical Vapor Deposition. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 764, 1		4
84	Isotopically Enhanced Thermal Conductivity in Few-Layer Hexagonal Boron Nitride: Implications for Thermal Management. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 12148-12156	5.6	4

83	Total Internal Reflection Peak Force Infrared Microscopy. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 731-736	7.8	4
82	Manipulating phonon polaritons in low loss B enriched hexagonal boron nitride with polarization control. <i>Nanoscale</i> , <b>2020</b> , 12, 8188-8193	7.7	3
81	Atomic layer deposition TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> stack: An improved gate dielectric on Ga-polar GaN metal oxide semiconductor capacitors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2014</b> , 32, 060602	1.3	3
80	Electronic excitations in B <sub>12</sub> As <sub>2</sub> and their temperature dependence by vacuum ultraviolet ellipsometry. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 395801	1.8	3
79	Elimination of Degenerate Epitaxy in the Growth of High Quality B <sub>12</sub> As <sub>2</sub> Single Crystalline Epitaxial Films. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1307, 1		3
78	Nucleation Mechanism of 6H-SiC Polytype Inclusions Inside 15R-SiC Crystals. <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 799-804	1.9	3
77	Defect Selective Etching of Thick AlN Layers Grown on 6H-SiC Seeds via Transmission Electron Microscopy Study. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1040, 1		3
76	Phonon-Enhanced Mid-Infrared CO <sub>2</sub> Gas Sensing Using Boron Nitride Nanoresonators. <i>ACS Photonics</i> , <b>2022</b> , 9, 34-42	6.3	3
75	Polaritonic Vortices with a Half-Integer Charge. <i>Nano Letters</i> , <b>2021</b> , 21, 9256-9261	11.5	3
74	Amplitude- and Phase-Resolved Infrared Nanoimaging and Nanospectroscopy of Polaritons in a Liquid Environment. <i>Nano Letters</i> , <b>2021</b> , 21, 1360-1367	11.5	3
73	Sintered Cr/Pt and Ni/Au ohmic contacts to B <sub>12</sub> P <sub>2</sub> . <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2015</b> , 33, 031101	2.9	2
72	Growth of hBN Using Metallic Boron: Isotopically Enriched h <sup>10</sup> BN and h <sup>11</sup> BN. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1635, 35-40		2
71	Thermodynamic Analysis and Purification for Source Materials in Sublimation Crystal Growth of Aluminum Nitride. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1202, 77		2
70	Electrical Characteristics of GaN and Si Based Metal-Oxide-Semiconductor (MOS) Capacitors. <i>ECS Transactions</i> , <b>2011</b> , 41, 429-437	1	2
69	Transmission electron microscopy study of defect-selective etched (010) ScN crystals. <i>Materials Letters</i> , <b>2008</b> , 62, 27-29	3.3	2
68	Thermal oxidation of single crystal aluminum nitride via high resolution transmission electron microscopy study. <i>Materials Letters</i> , <b>2008</b> , 62, 2465-2468	3.3	2
67	An investigation of phonon decay in B <sub>12</sub> As <sub>2</sub> by Raman scattering spectroscopy. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 093537	2.5	2
66	Sublimation Growth of Aluminum Nitride-Silicon Carbide Alloy Crystals on SiC (0001) Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 831, 347		2

65	Phonon lifetimes and decay channels in single-crystalline bulk AlN <b>2001</b> , 4280, 78		2
64	Surface Morphology and Composition Characterization at the Initial Stages of AlN Crystal Growth. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 639, 3131		2
63	Raman Analysis of Single Crystalline Bulk Aluminum Nitride: Temperature Dependence of the Phonon Frequencies. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 639, 6381		2
62	Effects of Surface Preparation on Epitaxial GaN on 6H-SiC Deposited Via MOCVD. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 537, 1		2
61	Growth and Characterization of BxGa1-xN on 6H-SiC (0001) by MOVPE. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 537, 1		2
60	Growth and Characterization of BxGa1-xN on 6H-SiC (0001) by Movpe. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>1999</b> , 4, 429-434		2
59	Structural and electronic transitions in few layers of isotopically pure hexagonal boron nitride. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
58	Band structure and ultraviolet optical transitions in ErN. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 131108	3.4	2
57	Hexagonal Boron Nitride Single Crystal Thermal Oxidation and Etching in Air: An Atomic Force Microscopy Study. <i>MRS Advances</i> , <b>2019</b> , 4, 601-608	0.7	2
56	Suppression of Rotational Twins in Epitaxial B12P2 on 4H-SiC. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 669-676	3.5	2
55	Rhombohedral and turbostratic boron nitride: X-ray diffraction and photoluminescence signatures. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 262102	3.4	2
54	Rapid Bimolecular and Defect-Assisted Carrier Recombination in Hexagonal Boron Nitride. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 14689-14695	3.8	1
53	Polarity determination of rough and smooth surface grains in AlN crystals. <i>Crystal Research and Technology</i> , <b>2012</b> , 47, 1134-1139	1.3	1
52	Synthesis of Icosahedral Boron Arsenide Nanowires for Betavoltaic Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1439, 69-75		1
51	The influence of the H2/Ar ratio on surface morphology and structural defects in homoepitaxial 4H-SiC films grown with methyltrichlorosilane. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 054513	2.5	1
50	Sublimation growth of aluminum nitride on silicon carbide substrate with aluminum nitride-silicon carbide alloy transition layer. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 675-680	2.5	1
49	Thermal Oxidation of Aluminum Nitride Powder. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 06051-06053	3.5084909006-??	
48	Growth of Rhombohedral B12P2 Thin Films on 6H-SiC(0001) By Chemical Vapor Deposition. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 799, 63		1

47	Oxidation of Aluminum Nitride for Defect Characterization. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 892, 454		1
46	Determination of the Mode Grüneisen Parameter of AlN using different Fits on Experimental High Pressure Data. <i>High Pressure Research</i> , <b>2002</b> , 22, 37-41	1.6	1
45	Low Temperature Chemical Vapor Deposition of 3C-SiC on 6H-SiC by X-Ray Triple Crystal Diffractometry and X-Ray Topography Study. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 512, 169		1
44	Effects of Surface Preparation on Epitaxial GaN on 6H-SiC Deposited Via MOCVD. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>1999</b> , 4, 281-286		1
43	Thermodynamic Analysis of Blanket and Selective Epitaxy of SiC on Si and SiO <sub>2</sub> Masked Si. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 441, 735		1
42	Epitaxial Growth of AlN on 3C-SiC and Al <sub>2</sub> O <sub>3</sub> Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 242, 463		1
41	Active and Passive Tuning of ultra-narrow Resonances in Polaritonic Nanoantennas.. <i>Advanced Materials</i> , <b>2021</b> , e2104954	24	1
40	Bernal Boron Nitride Crystals Identified by Deep-Ultraviolet Cryomicroscopy.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	1
39	High Q-factor resonators and nanoantennas based on phonon polaritons in van der Waals materials <b>2020</b> ,		1
38	Radiative lifetime of free excitons in hexagonal boron nitride. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
37	Programmable Bloch polaritons in graphene. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	1
36	Isotope effect on the thermal expansion coefficient of atomically thin boron nitride. <i>2D Materials</i> , <b>2021</b> , 8, 034006	5.9	1
35	Photocurrent response of B <sub>12</sub> As <sub>2</sub> crystals to blue light, and its temperature- dependent electrical characterizations. <i>AIP Advances</i> , <b>2016</b> , 6, 025206	1.5	1
34	A cooling fin to enhance the efficiency of crystal growth by physical vapor transport. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2019</b> , 251, 114443	3.1	1
33	Phonons of hexagonal BN under pressure: Effects of isotopic composition. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
32	Experimental confirmation of long hyperbolic polariton lifetimes in monoisotopic (10B) hexagonal boron nitride at room temperature. <i>APL Materials</i> , <b>2021</b> , 9, 091109	5.7	1
31	Altering the Reflection Phase for Nano-Polaritons: A Case Study of Hyperbolic Surface Polaritons in Hexagonal Boron Nitride. <i>Advanced Optical Materials</i> , 2102723	8.1	1
30	Polytypes of sp <sup>2</sup> -Bonded Boron Nitride. <i>Crystals</i> , <b>2022</b> , 12, 782	2.3	1



29	The thermal oxidation of hexagonal boron nitride single crystals: Dry and ambient air compared. <i>MRS Communications</i> , 1	2.7	○
28	Graphene's non-equilibrium fermions reveal Doppler-shifted magnetophonon resonances accompanied by Mach supersonic and Landau velocity effects. <i>Nature Communications</i> , <b>2021</b> , 12, 6392	17.4	○
27	Peakforce Infrared Microscopy: Revealing Phonon Polaritons in Hexagonal Boron Nitride by Multipulse Peak Force Infrared Microscopy (Advanced Optical Materials 5/2020). <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2070021	8.1	
26	Assessing Hexagonal Boron Nitride Crystal Quality by Defect Sensitive Etching. <i>Microscopy and Microanalysis</i> , <b>2017</b> , 23, 1518-1519	0.5	
25	Attempt to Grow Rhombohedral Boron Crystals in Copper Solvent. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1164, 1		
24	Origins of Twinned Microstructures in B12As2 Epilayers Grown on (0001) 6H-SiC and Their Influence on Physical Properties. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1164, 1		
23	Growth of Boron Carbide Crystals from a Copper Flux. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1164, 1		
22	Solution Growth and Characterization of Icosahedral Boron Arsenide (B12As2). <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1307, 1		
21	Defect-Selective Etching of Icosahedral Boron Arsenide (B12As2) Crystals in Molten Potassium Hydroxide. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1307, 1		
20	Characterization and Growth Mechanism of B12As2 Epitaxial Layers Grown on (1-100) 15R-SiC. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1069, 1		
19	Bulk AlN Crystal Growth on SiC Seeds and Defects Study. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 955, 1		
18	Titanium Nitride Epitaxy on Tungsten (100) by Sublimation Crystal Growth. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 955, 1		
17	The Effect of Aluminum Nitride-Silicon Carbide Alloy Buffer Layers on the Sublimation Growth of Aluminum Nitride on SiC (0001) Substrates. <i>Materials Science Forum</i> , <b>2006</b> , 527-529, 1497-1500	0.4	
16	High Resolution Transmission Electron Microscopy Study of Thermal Oxidation of Single Crystalline Aluminum Nitride. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 955, 1		
15	Transmission Electron Microscopy Study of Interface Region of AlN / 6H-SiC. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1040, 1		
14	Defect Structures of B12As2 Epilayers Grown on c-plane and a-plane 6H-SiC Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 994, 1		
13	Capacitance-Voltage Characterization of AlN MIS Structures Grown on 6H-SiC(0001) Substrates by MOCVD. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2003</b> , 129-132		
12	Growth Mode and Defects in Aluminum Nitride Sublimated on (0001) 6H-SiC Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 639, 3401		



- 11 Phonon Lifetimes and Phonon Decay Channels in Single Crystalline Bulk Aluminum Nitride. *Materials Research Society Symposia Proceedings*, **2000**, 639, 771
- 10 Nucleation of AlN on 6H-SiC (0001) by Sublimation Technique. *Microscopy and Microanalysis*, **2001**, 7, 370-371
- 9 Characterization Of Single Crystal Epitaxial Aluminum Nitride Thin Films On Sapphire, Silicon Carbide And Silicon Substrates By X-Ray Double Crystal Diffractometry And Transmission Electron Microscopy. *Advances in X-ray Analysis*, **1995**, 39, 645-651
- 8 Influence of HCl and H<sub>2</sub> on the Heteroepitaxial Growth of 3C-SiC Films on Si(100) Via Low-Temperature Chemical Vapor Deposition. *Materials Research Society Symposia Proceedings*, **1996**, 441, 699
- 7 Characterization of Al<sub>x</sub>Ga<sub>1-x</sub>N Grown by MOCVD at Low Temperatures. *Materials Research Society Symposia Proceedings*, **1992**, 242, 421
- 6 Growth and Characterization of Layered Structures of Silicon Carbide and Aluminum Nitride. *Materials Research Society Symposia Proceedings*, **1992**, 281, 787
- 5 Hybrid Waveguides: Guided Mid-IR and Near-IR Light within a Hybrid Hyperbolic-Material/Silicon Waveguide Heterostructure (Adv. Mater. 11/2021). *Advanced Materials*, **2021**, 33, 2170079 24
- 4 Irradiation Response on the Electronic Transport Properties of p-B12P2. *Journal of Electronic Materials*, **2021**, 50, 75-79 1.9
- 3 Hall Effect Characterization of Irradiated p-Type 4H-SiC. *Physica Status Solidi (B): Basic Research*, **2021**, 258, 1900781 1.3
- 2 Elements of Structures and Defects of Crystalline Materials by Tsang-Tse Fang. *MRS Bulletin*, **2018**, 43, 981-982 3.2
- 1 Phonon Lifetimes in Boron-Isotope-Enriched Graphene- Hexagonal Boron Nitride Devices. *Physica Status Solidi - Rapid Research Letters*, 2200030 2.5