

Vanya Darakchieva

List of Publications by Year in descending order

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163
papers

4,473
citations

126708

33
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123241

61
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167
all docs

167
docs citations

167
times ranked

5021
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Infrared dielectric functions and phonon modes of high-quality ZnO films. Journal of Applied Physics, 2003, 93, 126-133. | 1.1 | 590 |
| 2 | On the organization and thermal behavior of functional groups on Ti ₃ C ₂ MXene surfaces in vacuum. 2D Materials, 2018, 5, 015002. | 2.0 | 219 |
| 3 | 2D Transition Metal Carbides (MXenes) for Carbon Capture. Advanced Materials, 2019, 31, e1805472. | 11.1 | 184 |
| 4 | Tailoring Structure, Composition, and Energy Storage Properties of MXenes from Selective Etching of In-plane, Chemically Ordered MAX Phases. Small, 2018, 14, e1703676. | 5.2 | 174 |
| 5 | Two-dimensional electron gas density in Al _{1-x} In _x N/AlN/GaN heterostructures (0.03% \times 0.23). Journal of Applied Physics, 2008, 103, . | 1.1 | 154 |
| 6 | Anisotropy, phonon modes, and free charge carrier parameters in monoclinic gallium oxide single crystals. Physical Review B, 2016, 93, . | 1.1 | 147 |
| 7 | Band-to-band transitions, selection rules, effective mass, and excitonic contributions in monoclinic gallium oxide. Physical Review B, 2017, 96, . | | |
| 8 | How Much Oxygen Can a MXene Surface Take Before It Breaks?. Advanced Functional Materials, 2020, 30, 1909005. | 7.8 | 111 |
| 9 | On the lattice parameters of GaN. Applied Physics Letters, 2007, 91, . | 1.5 | 101 |
| 10 | Anisotropic strain and phonon deformation potentials in GaN. Physical Review B, 2007, 75, . | 1.1 | 99 |
| 11 | Very high growth rate of 4H-SiC epilayers using the chlorinated precursor methyltrichlorosilane (MTS). Journal of Crystal Growth, 2007, 307, 334-340. | 0.7 | 83 |
| 12 | High-quality bulk a-plane GaN sliced from boules in comparison to heteroepitaxially grown thick films on r-plane sapphire. Applied Physics Letters, 2006, 89, 051914. | 1.5 | 78 |
| 13 | Electronic and optical characterization of 2D Ti ₂ C and Nb ₂ C (MXene) thin films. Journal of Physics Condensed Matter, 2019, 31, 165301. | 0.7 | 74 |
| 14 | Conductive polymer nanoantennas for dynamic organic plasmonics. Nature Nanotechnology, 2020, 15, 35-40. | 15.6 | 70 |
| 15 | Properties of nonpolar a-plane GaN films grown by HVPE with AlN buffers. Journal of Crystal Growth, 2005, 281, 55-61. | 0.7 | 66 |
| 16 | Strain-related structural and vibrational properties of thin epitaxial AlN layers. Physical Review B, 2004, 70, . | 1.1 | 59 |
| 17 | Effects of strain and composition on the lattice parameters and applicability of Vegard's rule in Al-rich Al _{1-x} In _x N films grown on sapphire. Journal of Applied Physics, 2008, 103, . | 1.1 | 54 |
| 18 | Deformation potentials of the E ₁ (TO) and E ₂ modes of InN. Applied Physics Letters, 2004, 84, 3636-3638. | 1.5 | 47 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Lattice parameters, deviations from Vegard's rule, and E2 phonons in InAlN. Applied Physics Letters, 2008, 93, . | 1.5 | 44 |
| 20 | Epitaxial CVD growth of sp ² -hybridized boron nitride using aluminum nitride as buffer layer. Physica Status Solidi - Rapid Research Letters, 2011, 5, 397-399. | 1.2 | 44 |
| 21 | Temperature dependent effective mass in AlGaIn/GaN high electron mobility transistor structures. Applied Physics Letters, 2012, 101, . | 1.5 | 44 |
| 22 | Electron effective mass in Sn-doped monoclinic single crystal β -gallium oxide determined by mid-infrared optical Hall effect. Applied Physics Letters, 2018, 112, . | 1.5 | 43 |
| 23 | Y _x Al _{1-x} N thin films. Journal Physics D: Applied Physics, 2012, 45, 422001. | 1.3 | 42 |
| 24 | Advanced Terahertz Frequency-Domain Ellipsometry Instrumentation for <i>In Situ</i> and <i>Ex Situ</i> Applications. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 257-270. | 2.0 | 42 |
| 25 | Free electron behavior in InN: On the role of dislocations and surface electron accumulation. Applied Physics Letters, 2009, 94, 022109. | 1.5 | 41 |
| 26 | Optical Hall effect's model description: tutorial. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 1553. | 0.8 | 40 |
| 27 | Lattice parameters of GaN layers grown on a-plane sapphire: Effect of in-plane strain anisotropy. Applied Physics Letters, 2003, 82, 703-705. | 1.5 | 39 |
| 28 | Optical Hall Effect in Hexagonal InN. Journal of Electronic Materials, 2008, 37, 611-615. | 1.0 | 39 |
| 29 | Phonon mode behavior in strained wurtzite AlN/GaN superlattices. Physical Review B, 2005, 71, . | 1.1 | 38 |
| 30 | Strong Plasmon-Exciton Coupling with Directional Absorption Features in Optically Thin Hybrid Nanohole Metasurfaces. ACS Photonics, 2018, 5, 4046-4055. | 3.2 | 37 |
| 31 | Anisotropy of the Γ -point effective mass and mobility in hexagonal InN. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 1854-1857. | 0.8 | 36 |
| 32 | Hydrogen in InN: A ubiquitous phenomenon in molecular beam epitaxy grown material. Applied Physics Letters, 2010, 96, . | 1.5 | 36 |
| 33 | On the anomalous optical conductivity dispersion of electrically conducting polymers: ultra-wide spectral range ellipsometry combined with a Drude-Lorentz model. Journal of Materials Chemistry C, 2019, 7, 4350-4362. | 2.7 | 36 |
| 34 | Tunable Structural Color Images by UV-Patterned Conducting Polymer Nanofilms on Metal Surfaces. Advanced Materials, 2021, 33, e2102451. | 11.1 | 34 |
| 35 | Visible to vacuum ultraviolet dielectric functions of epitaxial graphene on 3C and 4H SiC polytypes determined by spectroscopic ellipsometry. Applied Physics Letters, 2012, 101, . | 1.5 | 33 |
| 36 | Deformation potentials of the E1(TO) mode in AlN. Applied Physics Letters, 2002, 80, 2302-2304. | 1.5 | 32 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Structural characteristics and lattice parameters of hydride vapor phase epitaxial GaN free-standing quasisubstrates. Journal of Applied Physics, 2005, 97, 013517. | 1.1 | 32 |
| 38 | Electrical Tuning of Plasmonic Conducting Polymer Nanoantennas. Advanced Materials, 2022, 34, e2107172. | 11.1 | 32 |
| 39 | Structural constants, composition, and piezoelectric polarization in $\text{In}_x\text{Al}_{1-x}\text{N}$ films: From <i>ab initio</i> calculations to experimental implications for the applicability of Vegard's rule. | 1.1 | 31 |
| 40 | Effect of high-temperature annealing on the residual strain and bending of freestanding GaN films grown by hydride vapor phase epitaxy. Applied Physics Letters, 2006, 88, 141909. | 1.5 | 30 |
| 41 | Electron effective mass in $\text{Al}_{0.72}\text{Ga}_{0.28}\text{N}$ alloys determined by mid-infrared optical Hall effect. Applied Physics Letters, 2013, 103, . | 1.5 | 30 |
| 42 | Morphological and electronic properties of epitaxial graphene on SiC. Physica B: Condensed Matter, 2014, 439, 54-59. | 1.3 | 29 |
| 43 | Large-area microfocal spectroscopic ellipsometry mapping of thickness and electronic properties of epitaxial graphene on Si- and C-face of 3C-SiC(111). Applied Physics Letters, 2013, 102, . | 1.5 | 28 |
| 44 | Growth and separation related properties of HVPE-GaN free-standing films. Journal of Crystal Growth, 2002, 246, 207-214. | 0.7 | 27 |
| 45 | The anisotropic quasi-static permittivity of single-crystal $\text{Al}_x\text{Ga}_{1-x}\text{N}$ -Ga ₂ O ₃ measured by terahertz spectroscopy. Applied Physics Letters, 2020, 117, . | 1.5 | 27 |
| 46 | Dielectric function tensor (1.5 eV to 9.0 eV), anisotropy, and band to band transitions of monoclinic $\text{Al}_x\text{Ga}_{1-x}\text{N}$ (x = 0.21) films. Applied Physics Letters, 2019, 114, . | 1.5 | 25 |
| 47 | Very high crystalline quality of thick 4H- β -SiC epilayers grown from methyltrichlorosilane (MTS). Physica Status Solidi - Rapid Research Letters, 2008, 2, 188-190. | 1.2 | 24 |
| 48 | Electron accumulation at nonpolar and semipolar surfaces of wurtzite InN from generalized infrared ellipsometry. Applied Physics Letters, 2009, 95, 202103. | 1.5 | 24 |
| 49 | Multi-scale investigation of interface properties, stacking order and decoupling of few layer graphene on C-face 4H-SiC. Carbon, 2017, 116, 722-732. | 5.4 | 23 |
| 50 | In-situ terahertz optical Hall effect measurements of ambient effects on free charge carrier properties of epitaxial graphene. Scientific Reports, 2017, 7, 5151. | 1.6 | 23 |
| 51 | Structural and optical analysis of FeSi_2 thin layers prepared by ion-beam synthesis and solid-state reaction. Physical Review B, 2000, 62, 13057-13063. | 1.1 | 22 |
| 52 | Infrared to vacuum-ultraviolet ellipsometry and optical Hall-effect study of free-charge carrier parameters in Mg-doped InN. Journal of Applied Physics, 2013, 113, . | 1.1 | 22 |
| 53 | Structural anisotropy of nonpolar and semipolar InN epitaxial layers. Journal of Applied Physics, 2010, 108, . | 1.1 | 21 |
| 54 | Longitudinal phonon plasmon mode coupling in $\text{Al}_x\text{Ga}_{1-x}\text{N}$ -Ga ₂ O ₃ . Applied Physics Letters, 2019, 114, . | 1.5 | 21 |

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|----|--|-----|-----------|
| 55 | Hydride vapor-phase epitaxial GaN thick films for quasi-substrate applications: Strain distribution and wafer bending. <i>Journal of Electronic Materials</i> , 2004, 33, 389-394. | 1.0 | 20 |
| 56 | Lattice parameters of bulk GaN fabricated by halide vapor phase epitaxy. <i>Journal of Crystal Growth</i> , 2008, 310, 959-965. | 0.7 | 19 |
| 57 | Cavity-enhanced optical Hall effect in two-dimensional free charge carrier gases detected at terahertz frequencies. <i>Optics Letters</i> , 2015, 40, 2688. | 1.7 | 19 |
| 58 | Residual strain in HVPE GaN free-standing and re-grown homoepitaxial layers. <i>Physica Status Solidi A</i> , 2003, 195, 516-522. | 1.7 | 18 |
| 59 | Two-domain formation during the epitaxial growth of GaN (0001) on <i>c</i> -plane Al ₂ O ₃ (0001) by high power impulse magnetron sputtering. <i>Journal of Applied Physics</i> , 2011, 110, . | 1.1 | 18 |
| 60 | Direct graphene growth on Co ₃ O ₄ (111) by molecular beam epitaxy. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 072201. | 0.7 | 18 |
| 61 | Polarization Selection Rules for Inter-Landau-Level Transitions in Epitaxial Graphene Revealed by the Infrared Optical Hall Effect. <i>Physical Review Letters</i> , 2013, 111, 077402. | 2.9 | 18 |
| 62 | Thermal conductivity of ultra-wide bandgap thin layers of High Al-content AlGa _N and <i>Al</i> _{0.9} <i>N</i> _{0.1} Ga ₂ O ₃ . <i>Physica B: Condensed Matter</i> , 2020, 579, 411810. | 1.3 | 18 |
| 63 | Ion beam synthesis of <i>FeSi</i> ₂ . <i>Vacuum</i> , 2000, 58, 415-419. | 1.6 | 17 |
| 64 | Effect of nitrogen on the GaAs _{0.9} <i>N</i> _{0.1} Sb _{0.1} dielectric function from the near-infrared to the ultraviolet. <i>Applied Physics Letters</i> , 2010, 97, 201903. | 1.5 | 17 |
| 65 | Structure and properties of phosphorus-carbide thin solid films. <i>Thin Solid Films</i> , 2013, 548, 247-254. | 0.8 | 17 |
| 66 | Epitaxial growth of <i>Fe</i> ₂ Ga ₂ O ₃ by hot-wall MOCVD. <i>AIP Advances</i> , 2022, 12, . | 0.6 | 17 |
| 67 | Influence of grain size on the optical conductivity of <i>Fe</i> ₂ Ga ₂ O ₃ layers. <i>Vacuum</i> , 2002, 69, 425-429. | 1.6 | 16 |
| 68 | Growth of GaN on <i>c</i> -plane sapphire: in-plane epitaxial relationships and lattice parameters. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 240, 318-321. | 0.7 | 16 |
| 69 | Phonons and free-carrier properties of binary, ternary, and quaternary group-III nitride layers measured by Infrared Spectroscopic Ellipsometry. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 1750-1769. | 0.8 | 16 |
| 70 | Infrared ellipsometry and Raman studies of hexagonal InN films: correlation between strain and vibrational properties. <i>Superlattices and Microstructures</i> , 2004, 36, 573-580. | 1.4 | 16 |
| 71 | Polar and nonpolar GaN grown by HVPE: Preferable substrates for nitride-based emitting devices. <i>Physica Status Solidi A</i> , 2004, 201, 2265-2270. | 1.7 | 16 |
| 72 | Effect of Mg doping on the structural and free-charge carrier properties of InN films. <i>Journal of Applied Physics</i> , 2014, 115, 163504. | 1.1 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Structural properties and dielectric function of graphene grown by high-temperature sublimation on 4H-SiC(000-1). <i>Journal of Applied Physics</i> , 2015, 117, . | 1.1 | 16 |
| 74 | Role of impurities and dislocations for the unintentional n-type conductivity in InN. <i>Physica B: Condensed Matter</i> , 2009, 404, 4476-4481. | 1.3 | 15 |
| 75 | Standard free composition measurements of Al _x In _{1-x} N by low-loss electron energy loss spectroscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 50-52. | 1.2 | 15 |
| 76 | Enhanced dynamic annealing and optical activation of Eu implanted a-plane GaN. <i>Europhysics Letters</i> , 2012, 97, 68004. | 0.7 | 15 |
| 77 | Assessing structural, free-charge carrier, and phonon properties of mixed-phase epitaxial films: The case of InN. <i>Physical Review B</i> , 2014, 90, . | 1.1 | 15 |
| 78 | Properties of two-dimensional electron gas in AlGaIn/GaN HEMT structures determined by cavity-enhanced THz optical Hall effect. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2016, 13, 369-373. | 0.8 | 15 |
| 79 | Infrared dielectric functions, phonon modes, and free-charge carrier properties of high-Al-content Al _x Ga _{1-x} N alloys determined by mid infrared spectroscopic ellipsometry and optical Hall effect. <i>Journal of Applied Physics</i> , 2017, 121, . | 1.1 | 14 |
| 80 | Mg-doping and free-hole properties of hot-wall MOCVD GaN. <i>Journal of Applied Physics</i> , 2022, 131, . | 1.1 | 14 |
| 81 | Phonon order and reststrahlen bands of polar vibrations in crystals with monoclinic symmetry. <i>Physical Review B</i> , 2019, 99, . | 1.1 | 13 |
| 82 | Strain and stress relationships for optical phonon modes in monoclinic crystals with \hat{O}^2 as an example. <i>Physical Review B</i> , 2020, 102, . | 1.1 | 13 |
| 83 | Nonpolar a-plane HVPE GaN: growth and in-plane anisotropic properties. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 2027-2031. | 0.8 | 12 |
| 84 | Infrared dielectric functions and optical phonons of wurtzite Y _x Al _{1-x} N (0 ≤ x ≤ 1). <i>Journal Physics D</i> , 2022, 48, 415102. | 0.8 | 11 |
| 85 | Infrared generalized ellipsometry on non-polar and superlattice group-III nitride films: strain and phonon anisotropy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 905-913. | 0.8 | 11 |
| 86 | Bandgap Engineering and Optical Constants of YxAl1-xN Alloys. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 08JM02. | 0.8 | 11 |
| 87 | Stress evolution during growth of GaN (0001)/Al ₂ O ₃ (0001) by reactive dc magnetron sputter epitaxy. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 145301. | 1.3 | 11 |
| 88 | Tunable cavity-enhanced terahertz frequency-domain optical Hall effect. <i>Review of Scientific Instruments</i> , 2020, 91, 083903. | 0.6 | 11 |
| 89 | Optical phonon modes, static and high-frequency dielectric constants, and effective electron mass parameter in cubic In ₂ O ₃ . <i>Journal of Applied Physics</i> , 2021, 129, . | 1.1 | 11 |
| 90 | Phonon-boundary scattering and thermal transport in Al _x Ga _{1-x} N: Effect of layer thickness. <i>Applied Physics Letters</i> , 2020, 117, . | 1.5 | 11 |

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|-----|--|------|-----------|
| 109 | Strain Evolution in High Temperature AlN Buffer Layers for HVPE-GaN Growth. <i>Physica Status Solidi A</i> , 2002, 190, 59-64. | 1.7 | 7 |
| 110 | In-plane epitaxial relationships between a-plane sapphire substrates and GaN layers grown by different techniques. <i>Journal of Crystal Growth</i> , 2003, 257, 1-6. | 0.7 | 7 |
| 111 | Correlation between switching to n-type conductivity and structural defects in highly Mg-doped InN. <i>Applied Physics Letters</i> , 2015, 106, 232102. | 1.5 | 7 |
| 112 | Very High Growth Rate of 4H-SiC Using MTS as Chloride-Based Precursor. <i>Materials Science Forum</i> , 0, 600-603, 115-118. | 0.3 | 6 |
| 113 | Electron effective mass in In _{0.33} Ga _{0.67} N determined by mid-infrared optical Hall effect. <i>Applied Physics Letters</i> , 2018, 112, . | 1.5 | 6 |
| 114 | Infrared active phonons in monoclinic lutetium oxyorthosilicate. <i>Journal of Applied Physics</i> , 2020, 127, . | 1.1 | 6 |
| 115 | Anisotropy of the In-Plane Strain in GaN Grown on A-Plane Sapphire. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 234, 892-896. | 0.7 | 5 |
| 116 | Characterization of mass-transport grown GaN by hydride vapour-phase epitaxy. <i>Journal of Crystal Growth</i> , 2004, 273, 118-128. | 0.7 | 5 |
| 117 | Phonons in strained AlGa _N /GaN superlattices. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 170-174. | 0.8 | 5 |
| 118 | Optimization of GaN Nanowires Reformation Process by Metalorganic Chemical Vapor Deposition for Device-Quality GaN Templates. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900581. | 0.7 | 5 |
| 119 | Brillouin zone center phonon modes in ZnGa ₂ O ₄ . <i>Applied Physics Letters</i> , 2020, 117, . | 1.5 | 5 |
| 120 | Tunable Structural Color Images by UV-Patterned Conducting Polymer Nanofilms on Metal Surfaces (<i>Adv. Mater.</i> 33/2021). <i>Advanced Materials</i> , 2021, 33, 2170261. | 11.1 | 5 |
| 121 | On the polarity determination and polarity inversion in nitrogen-polar group III-nitride layers grown on SiC. <i>Journal of Applied Physics</i> , 2022, 131, . | 1.1 | 5 |
| 122 | Optical properties of undoped AlN/GaN superlattices grown by metalorganic vapor phase epitaxy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 2614-2617. | 0.8 | 4 |
| 123 | Assessment of phonon mode characteristics via infrared spectroscopic ellipsometry on a-plane GaN. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 1594-1598. | 0.7 | 4 |
| 124 | Optical properties of GaAs _{0.9-x} N _x Sb _{0.1} alloy films studied by spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2011, 519, 2838-2842. | 0.8 | 4 |
| 125 | Unintentional incorporation of H and related structural and free-electron properties of c-plane and a-plane InN. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 91-94. | 0.8 | 4 |
| 126 | (Invited) Challenges of Graphene Growth on Silicon Carbide. <i>ECS Transactions</i> , 2013, 53, 9-16. | 0.3 | 4 |

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|-----|---|-----|-----------|
| 127 | Free-charge carrier parameters of n-type, p-type and compensated InN:Mg determined by infrared spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2014, 571, 384-388. | 0.8 | 4 |
| 128 | Origin of layer decoupling in ordered multilayer graphene grown by high-temperature sublimation on C-face 4H-SiC. <i>APL Materials</i> , 2020, 8, . | 2.2 | 4 |
| 129 | Morphology of Thin Films of Aromatic Ellagic Acid and Its Hydrogen Bonding Interactions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16381-16390. | 1.5 | 4 |
| 130 | Resolving mobility anisotropy in quasi-free-standing epitaxial graphene by terahertz optical Hall effect. <i>Carbon</i> , 2021, 172, 248-259. | 5.4 | 4 |
| 131 | Infrared-active phonon modes and static dielectric constants in $(\text{Al}_{1-x}\text{Ga}_x)_2\text{O}_3$ (0.18 $\leq x \leq$ 0.54) alloys. <i>Applied Physics Letters</i> , 2022, 120, . | 1.5 | 4 |
| 132 | Microhardness characterization of structures obtained by iron-silicon solid-state reaction. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 78, 131-134. | 1.7 | 3 |
| 133 | Title is missing!. <i>Journal of Materials Science</i> , 2001, 36, 1951-1956. | 1.7 | 3 |
| 134 | Generalized infrared ellipsometry study of thin epitaxial AlN layers with complex strain behavior. <i>Physica B: Condensed Matter</i> , 2003, 340-342, 416-420. | 1.3 | 3 |
| 135 | Grazing incident asymmetric X-ray diffraction of FeSi_2 layers, produced by ion beam synthesis. <i>Vacuum</i> , 2004, 76, 277-280. | 1.6 | 3 |
| 136 | Bending in HVPE GaN free-standing films: effects of laser lift-off, polishing and high-pressure annealing. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 1475-1478. | 0.8 | 3 |
| 137 | Strain and compositional analyses of $\text{Al}_{1-x}\text{In}_x\text{N}$ films grown by MOVPE: impact on the applicability of Vegard's rule. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 1859-1862. | 0.8 | 3 |
| 138 | Unintentional incorporation of hydrogen in wurtzite InN with different surface orientations. <i>Journal of Applied Physics</i> , 2011, 110, . | 1.1 | 3 |
| 139 | Terahertz optical properties of polymethacrylates after thermal annealing. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, 062924. | 0.6 | 3 |
| 140 | Critical View on Buffer Layer Formation and Monolayer Graphene Properties in High-Temperature Sublimation. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1891. | 1.3 | 3 |
| 141 | Linear strain and stress potential parameters for the three fundamental band to band transitions in Ga_2O_3 . <i>Applied Physics Letters</i> , 2022, 120, . | 1.5 | 3 |
| 142 | Enhancement of 2DEG effective mass in AlN/Al _{0.78} Ga _{0.22} N high electron mobility transistor structure determined by THz optical Hall effect. <i>Applied Physics Letters</i> , 2022, 120, . | 1.5 | 3 |
| 143 | DAP emission band in a carbon doped (1101)GaN grown on (001)Si substrate. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, S772. | 0.8 | 2 |
| 144 | Atomic layer deposition of Al ₂ O ₃ on NF ₃ -pre-treated graphene. , 2015, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Mass Transport Growth and Properties of Hydride Vapour Phase Epitaxy GaN. <i>Physica Status Solidi A</i> , 2001, 188, 447-451. | 1.7 | 1 |
| 146 | Effect of rapid thermal annealing on the structure of ion beam synthesized $\hat{\Gamma}^2$ -FeSi ₂ . <i>Vacuum</i> , 2002, 69, 449-454. | 1.6 | 1 |
| 147 | High pressure annealing of HVPE GaN free-standing films: redistribution of defects and stress. <i>Materials Research Society Symposia Proceedings</i> , 2004, 831, 49. | 0.1 | 1 |
| 148 | Optical investigation of AlGaIn/GaN quantum wells and superlattices. <i>Physica Status Solidi A</i> , 2004, 201, 2251-2258. | 1.7 | 1 |
| 149 | Optical properties of InN/In _{0.73} Ga _{0.27} N multiple quantum wells studied by spectroscopic ellipsometry. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1629-1632. | 0.8 | 1 |
| 150 | A Double Scattering Analytical Model For Elastic Recoil Detection Analysis. , 2011, , . | | 1 |
| 151 | Hydrogen In Group-III Nitrides: An Ion Beam Analysis Study. , 2011, , . | | 1 |
| 152 | Spectroscopic Mapping Ellipsometry of Graphene Grown on 3C SiC. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1407, 99. | 0.1 | 1 |
| 153 | Recombination processes in Mg doped wurtzite InN films with p- and n-type conductivity. <i>AIP Advances</i> , 2019, 9, 015114. | 0.6 | 1 |
| 154 | Anisotropy of the In-Plane Strain in GaN Grown on A-Plane Sapphire. , 2002, 234, 892. | | 1 |
| 155 | Strain Evolution in High Temperature AlN Buffer Layers for HVPE-GaN Growth. , 2002, 190, 59. | | 1 |
| 156 | Phonon Properties. <i>Springer Series in Materials Science</i> , 2020, , 501-534. | 0.4 | 1 |
| 157 | Incorporation of Magnesium into GaN Regulated by Intentionally Large Amounts of Hydrogen during Growth by MOCVD. <i>Physica Status Solidi (B): Basic Research</i> , 0, , . | 0.7 | 1 |
| 158 | Properties of silicon films grown by laser-assisted deposition. <i>Vacuum</i> , 2000, 58, 369-373. | 1.6 | 0 |
| 159 | Strain evolution and phonons in AlN/GaN superlattices. <i>Materials Research Society Symposia Proceedings</i> , 2003, 798, 610. | 0.1 | 0 |
| 160 | Strain-free Low-defect-density Bulk GaN with Nonpolar Orientations. <i>Materials Research Society Symposia Proceedings</i> , 2006, 955, 1. | 0.1 | 0 |
| 161 | Unravelling the free electron behavior in InN. <i>Optoelectronic and Microelectronic Materials and Devices (COMMAD), Conference on</i> , 2008, , . | 0.0 | 0 |
| 162 | Infrared ellipsometry and near-infrared-to-vacuum-ultraviolet ellipsometry study of free-charge carrier properties in In-polar p-type InN. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1396, . | 0.1 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Comment on "Characteristics of Multi-photon Absorption in a In^{2+} -Ga ₂ O ₃ Single Crystal" [J. Phys. Soc. Jpn. 88, 113701 (2019)]. Journal of the Physical Society of Japan, 2020, 89, 036001. | 0.7 | 0 |