

Takashi Suemasu

List of Publications by Year in descending order

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452
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times ranked

2081
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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Optical and electrical properties of semiconducting BaSi ₂ thin films on Si substrates grown by molecular beam epitaxy. Thin Solid Films, 2006, 508, 363-366. | 0.8 | 191 |
| 2 | Room Temperature 1.6 μm Electroluminescence from a Si-Based Light Emitting Diode with $\text{I}^2\text{-FeSi}_2$ Active Region. Japanese Journal of Applied Physics, 2000, 39, L1013-L1015. | 0.8 | 190 |
| 3 | Epitaxial Growth of Semiconducting BaSi ₂ Films on Si(111) Substrates by Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2004, 43, L478-L481. | 0.8 | 145 |
| 4 | Investigation of grain boundaries in BaSi ₂ epitaxial films on Si(1 1 1) substrates using transmission electron microscopy and electron-beam-induced current technique. Journal of Crystal Growth, 2012, 348, 75-79. | 0.7 | 133 |
| 5 | Investigation of the energy band structure of orthorhombic BaSi ₂ by optical and electrical measurements and theoretical calculations. Applied Physics Letters, 2002, 81, 1032-1034. | 1.5 | 124 |
| 6 | Effect of amorphous Si capping layer on the hole transport properties of BaSi ₂ and improved conversion efficiency approaching 10% in p-BaSi ₂ /n-Si solar cells. Applied Physics Letters, 2016, 109, . | 1.5 | 109 |
| 7 | Epitaxial Growth of Semiconducting BaSi ₂ Thin Films on Si(111) Substrates by Reactive Deposition Epitaxy. Japanese Journal of Applied Physics, 2004, 43, 4155-4156. | 0.8 | 107 |
| 8 | Exploring the possibility of semiconducting BaSi ₂ for thin-film solar cell applications. Japanese Journal of Applied Physics, 2015, 54, 07JA01. | 0.8 | 105 |
| 9 | Optical Absorption Properties of BaSi ₂ Epitaxial Films Grown on a Transparent Silicon-on-Insulator Substrate Using Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2011, 50, 068001. | 0.8 | 102 |
| 10 | Exploring the potential of semiconducting BaSi ₂ for thin-film solar cell applications. Journal Physics D: Applied Physics, 2017, 50, 023001. | 1.3 | 99 |
| 11 | Low-temperature (180 $^{\circ}\text{C}$) formation of large-grained Ge (111) thin film on insulator using accelerated metal-induced crystallization. Applied Physics Letters, 2014, 104, . | 1.5 | 96 |
| 12 | Formation of $\text{I}^2\text{-FeSi}_2$ Layers on Si(001) Substrates. Japanese Journal of Applied Physics, 1997, 36, 3620-3624. | 0.8 | 92 |
| 13 | High-Electrical-Conductivity Multilayer Graphene Formed by Layer Exchange with Controlled Thickness and Interlayer. Scientific Reports, 2019, 9, 4068. | 1.6 | 89 |
| 14 | Highly (111)-oriented Ge thin films on insulators formed by Al-induced crystallization. Applied Physics Letters, 2012, 101, 072106. | 1.5 | 88 |
| 15 | Investigation of the recombination mechanism of excess carriers in undoped BaSi ₂ films on silicon. Journal of Applied Physics, 2012, 112, . | 1.1 | 84 |
| 16 | Influence of grain size and surface condition on minority-carrier lifetime in undoped $\text{I}^2\text{-BaSi}_2$ on Si(111). Journal of Applied Physics, 2014, 115, . | 1.1 | 80 |
| 17 | Influence of Si growth temperature for embedding $\text{I}^2\text{-FeSi}_2$ and resultant strain in $\text{I}^2\text{-FeSi}_2$ on light emission from p-Si/ $\text{I}^2\text{-FeSi}_2$ particles/n-Si light-emitting diodes. Applied Physics Letters, 2001, 79, 1804-1806. | 1.5 | 79 |
| 18 | Perpendicular magnetic anisotropy of Mn ₄ N films on MgO(001) and SrTiO ₃ (001) substrates. Journal of Applied Physics, 2014, 115, . | 1.1 | 77 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Optical Absorption Properties of BaSi ₂ Epitaxial Films Grown on a Transparent Silicon-on-Insulator Substrate Using Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2011, 50, 068001. | 0.8 | 77 |
| 20 | Determination of Bulk Minority-Carrier Lifetime in BaSi ₂ Earth-Abundant Absorber Films by Utilizing a Drastic Enhancement of Carrier Lifetime by Post-Growth Annealing. Applied Physics Express, 2013, 6, 112302. | 1.1 | 75 |
| 21 | Control of Electron and Hole Concentrations in Semiconducting Silicide BaSi ₂ with Impurities Grown by Molecular Beam Epitaxy. Applied Physics Express, 0, 1, 051403. | 1.1 | 72 |
| 22 | <i>In-situ</i> heavily <i>p</i> -type doping of over 10 ²⁰ cm ⁻³ in semiconducting BaSi ₂ thin films for solar cells applications. Applied Physics Letters, 2013, 102, . | 1.5 | 72 |
| 23 | Band Diagrams of BaSi ₂ /Si Structure by Kelvin Probe and Current-Voltage Characteristics. Japanese Journal of Applied Physics, 2006, 45, L519-L521. | 0.8 | 71 |
| 24 | High-hole mobility polycrystalline Ge on an insulator formed by controlling precursor atomic density for solid-phase crystallization. Scientific Reports, 2017, 7, 16981. | 1.6 | 71 |
| 25 | p-BaSi ₂ /n-Si heterojunction solar cells with conversion efficiency reaching 9.0%. Applied Physics Letters, 2016, 108, . | 1.5 | 69 |
| 26 | 700°C synthesis of high-Sn content (25%) GeSn on insulator by Sn-induced crystallization of amorphous Ge. Applied Physics Letters, 2015, 106, . | 1.5 | 64 |
| 27 | Spin polarization of Fe ₄ N thin films determined by point-contact Andreev reflection. Applied Physics Letters, 2009, 94, . | 1.5 | 63 |
| 28 | Negative differential resistance of metal (CoSi ₂)/insulator (CaF ₂) triple-barrier resonant tunneling diode. Applied Physics Letters, 1993, 62, 300-302. | 1.5 | 62 |
| 29 | Optical Absorption Edge of Ternary Semiconducting Silicide Ba _{1-x} Sr _x Si ₂ . Japanese Journal of Applied Physics, 2006, 45, L390-L392. | 0.8 | 62 |
| 30 | Molecular beam epitaxy of BaSi ₂ thin films on Si(001) substrates. Journal of Crystal Growth, 2012, 345, 16-21. | 0.7 | 61 |
| 31 | Photoresponse Properties of Semiconducting BaSi ₂ Epitaxial Films Grown on Si(111) Substrates by Molecular Beam Epitaxy. Applied Physics Express, 0, 2, 021101. | 1.1 | 58 |
| 32 | Cubic Dominant GaN Growth on (001) GaAs Substrates by Hydride Vapor Phase Epitaxy. Japanese Journal of Applied Physics, 1997, 36, L1-L3. | 0.8 | 56 |
| 33 | Photoresponse Properties of Polycrystalline BaSi ₂ Films Grown on SiO ₂ Substrates Using (111)-Oriented Si Layers by an Aluminum-Induced Crystallization Method. Applied Physics Express, 0, 2, 051601. | 1.1 | 55 |
| 34 | Impact of Ba to Si deposition rate ratios during molecular beam epitaxy on carrier concentration and spectral response of BaSi ₂ epitaxial films. Journal of Applied Physics, 2018, 123, 045703. | 1.1 | 55 |
| 35 | Improving carrier mobility of polycrystalline Ge by Sn doping. Scientific Reports, 2018, 8, 14832. | 1.6 | 51 |
| 36 | Improved photoresponsivity of semiconducting BaSi ₂ epitaxial films grown on a tunnel junction for thin-film solar cells. Applied Physics Letters, 2012, 100, 152114. | 1.5 | 50 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Metal-induced layer exchange of group IV materials. Journal Physics D: Applied Physics, 2020, 53, 373002. | 1.3 | 50 |
| 38 | Aggregation of Monocrystalline \hat{I}^2 -FeSi ₂ by Annealing and by Si Overlayer Growth. Japanese Journal of Applied Physics, 1997, 36, L1225-L1228. | 0.8 | 49 |
| 39 | Analysis of the electrical properties of Cr/n-BaSi ₂ Schottky junction and n-BaSi ₂ /p-Si heterojunction diodes for solar cell applications. Journal of Applied Physics, 2014, 115, . | 1.1 | 49 |
| 40 | Large Current Driven Domain Wall Mobility and Gate Tuning of Coercivity in Ferrimagnetic Mn ₄ N Thin Films. Nano Letters, 2019, 19, 8716-8723. | 4.5 | 48 |
| 41 | Current-Driven Domain Wall Dynamics in Ferrimagnetic Nickel-Doped Mn ₄ N Films: Very Large Domain Wall Velocities and Reversal of Motion Direction across the Magnetic Compensation Point. Nano Letters, 2021, 21, 2580-2587. | 4.5 | 48 |
| 42 | Epitaxial growth of semiconducting \hat{I}^2 -FeSi ₂ and its application to light-emitting diodes. Thin Solid Films, 2004, 461, 209-218. | 0.8 | 47 |
| 43 | Operation of BaSi ₂ homojunction solar cells on p ⁺ -Si(111) substrates and the effect of structure parameters on their performance. Applied Physics Express, 2019, 12, 041005. | 1.1 | 47 |
| 44 | Direct Growth of [100]-Oriented High-Quality \hat{I}^2 -FeSi ₂ Films on Si(001) Substrates by Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2001, 40, L1008-L1011. | 0.8 | 45 |
| 45 | Electrical characterization and conduction mechanism of impurity-doped BaSi ₂ films grown on Si(111) by molecular beam epitaxy. Thin Solid Films, 2012, 522, 95-99. | 0.8 | 45 |
| 46 | Fabrication and characterization of polycrystalline BaSi ₂ by RF sputtering. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 1759-1761. | 0.8 | 45 |
| 47 | Orientation Control of Large-Grained Si Films on Insulators by Thickness-Modulated Al-Induced Crystallization. Crystal Growth and Design, 2013, 13, 1767-1770. | 1.4 | 44 |
| 48 | Control of the Conduction Type of Nondoped High Mobility \hat{I}^2 -FeSi ₂ Films Grown from Si/Fe Multilayers by Change of Si/Fe Ratios. Japanese Journal of Applied Physics, 2000, 39, L789-L791. | 0.8 | 42 |
| 49 | p-BaSi ₂ /n-Si heterojunction solar cells on Si(001) with conversion efficiency approaching 10%: comparison with Si(111). Applied Physics Express, 2018, 11, 062301. | 1.1 | 42 |
| 50 | Realization of single-phase BaSi ₂ films by vacuum evaporation with suitable optical properties and carrier lifetime for solar cell applications. Japanese Journal of Applied Physics, 2015, 54, 07JE02. | 0.8 | 41 |
| 51 | Molecular beam epitaxy of ferromagnetic \hat{I}^3 -Fe ₄ N thin films on LaAlO ₃ (1 0 0), SrTiO ₃ (1 0 0) and MgO(1 0 0) substrates. Journal of Crystal Growth, 2011, 322, 63-68. | 0.7 | 40 |
| 52 | Selective formation of large-grained, (100)- or (111)-oriented Si on glass by Al-induced layer exchange. Journal of Applied Physics, 2014, 115, . | 1.1 | 40 |
| 53 | Influence of air exposure duration and a-Si capping layer thickness on the performance of p-BaSi ₂ /n-Si heterojunction solar cells. AIP Advances, 2016, 6, . | 0.6 | 40 |
| 54 | Sign of the spin-polarization in cobalt-iron nitride films determined by the anisotropic magnetoresistance effect. Journal of Applied Physics, 2014, 116, . | 1.1 | 39 |

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|----|---|-----|-----------|
| 55 | Metal(CoSi ₂)/Insulator(CaF ₂) Resonant Tunneling Diode. Japanese Journal of Applied Physics, 1994, 33, 57-65. | 0.8 | 38 |
| 56 | Epitaxial Growth of Si-Based Ternary Alloy Semiconductor Ba _{1-x} Sr _x Si ₂ Films on Si(111) Substrates by Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2004, 43, L771-L773. | 0.8 | 38 |
| 57 | Growth of Si ^δ -FeSi ₂ -Si double-heterostructures on Si(111) substrates by molecular-beam epitaxy and photoluminescence using time-resolved measurements. Journal of Applied Physics, 2004, 96, 2561-2565. | 1.1 | 38 |
| 58 | Reactive deposition epitaxial growth of FeSi ₂ layers on Si(001). Applied Surface Science, 1997, 117-118, 303-307. | 3.1 | 37 |
| 59 | Spin and orbital magnetic moments of molecular beam epitaxy Fe ₄ N films on LaAlO ₃ (001) and MgO(001) substrates by x-ray magnetic circular dichroism. Applied Physics Letters, 2011, 98, . | 1.5 | 36 |
| 60 | Epitaxial growth and magnetic characterization of ferromagnetic Co ₄ N thin films on SrTiO ₃ (001) substrates by molecular beam epitaxy. Journal of Crystal Growth, 2011, 336, 40-43. | 0.7 | 35 |
| 61 | Perpendicular magnetic anisotropy in Co _x Mn ₄ N ($x = 0$ and 0.2) epitaxial films and possibility of tetragonal Mn ₄ N phase. AIP Advances, 2016, 6, . | 0.6 | 34 |
| 62 | Fabrication of n ⁺ -BaSi ₂ /p ⁺ -Si Tunnel Junction on Si(111) Surface by Molecular Beam Epitaxy for Photovoltaic Applications. Applied Physics Express, 2010, 3, 021301. | 1.1 | 33 |
| 63 | Epitaxial growth of ferromagnetic Fe ₃ N films on Si(111) substrates by molecular beam epitaxy. Journal of Crystal Growth, 2007, 301-302, 597-601. | 0.7 | 32 |
| 64 | Structural control of organic solar cells based on nonplanar metallophthalocyanine/C60 heterojunctions using organic buffer layers. Organic Electronics, 2011, 12, 966-973. | 1.4 | 32 |
| 65 | Formation of polycrystalline BaSi ₂ films by radio-frequency magnetron sputtering for thin-film solar cell applications. Thin Solid Films, 2013, 534, 116-119. | 0.8 | 32 |
| 66 | Precipitation control and activation enhancement in boron-doped p ⁺ -BaSi ₂ films grown by molecular beam epitaxy. Applied Physics Letters, 2014, 104, . | 1.5 | 32 |
| 67 | Evaluation of band offset at amorphous-Si/BaSi ₂ interfaces by hard x-ray photoelectron spectroscopy. Journal of Applied Physics, 2016, 119, . | 1.1 | 32 |
| 68 | Optimum annealing condition for photoluminescence from FeSi ₂ balls grown by reactive deposition epitaxy and embedded in Si crystal. Journal of Luminescence, 2000, 87-89, 528-531. | 1.5 | 31 |
| 69 | Growth of Al-doped p-type BaSi ₂ thin films by molecular beam epitaxy and the effect of high-temperature annealing on their electrical properties. Physics Procedia, 2011, 11, 27-30. | 1.2 | 31 |
| 70 | Fabrication and characterization of BaSi ₂ epitaxial films over 1 μm in thickness on Si(111). Japanese Journal of Applied Physics, 2014, 53, 04ER04. | 0.8 | 31 |
| 71 | Fabrication of single-phase polycrystalline BaSi ₂ thin films on silicon substrates by vacuum evaporation for solar cell applications. Japanese Journal of Applied Physics, 2015, 54, 08KC03. | 0.8 | 31 |
| 72 | Structural and electrical characterizations of crack-free BaSi ₂ thin films fabricated by thermal evaporation. Thin Solid Films, 2015, 595, 68-72. | 0.8 | 31 |

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|----|--|-----|-----------|
| 73 | Investigation of direct and indirect band gaps of [100]-oriented nearly strain-free $\hat{\Gamma}^2$ -FeSi ₂ films grown by molecular-beam epitaxy. Applied Physics Letters, 2002, 80, 556-558. | 1.5 | 30 |
| 74 | Growth and characterization of group-III impurity-doped semiconducting BaSi ₂ films grown by molecular beam epitaxy. Thin Solid Films, 2007, 515, 8242-8245. | 0.8 | 30 |
| 75 | On the Controlling Mechanism of Preferential Orientation of Polycrystalline-Silicon Thin Films Grown by Aluminum-Induced Crystallization. Applied Physics Express, 2010, 3, 095803. | 1.1 | 30 |
| 76 | Improved Surface Quality of the Metal-Induced Crystallized Ge Seed Layer and Its Influence on Subsequent Epitaxy. Crystal Growth and Design, 2015, 15, 1535-1539. | 1.4 | 30 |
| 77 | Simple way of finding Ba to Si deposition rate ratios for high photoresponsivity in BaSi ₂ films by Raman spectroscopy. Applied Physics Express, 2019, 12, 055506. | 1.1 | 30 |
| 78 | Growth of Continuous and Highly (100)-Oriented $\hat{\Gamma}^2$ -FeSi ₂ Films on Si(001) from Si/Fe Multilayers with SiO ₂ Capping and Templates. Japanese Journal of Applied Physics, 1999, 38, L878-L881. | 0.8 | 29 |
| 79 | Improvement of the Electrical Properties of $\hat{\Gamma}^2$ -FeSi ₂ Films on Si (001) by High-Temperature Annealing. Japanese Journal of Applied Physics, 2000, 39, L233-L236. | 0.8 | 29 |
| 80 | Room-temperature electroluminescence of a Si-based p-i-n diode with $\hat{\Gamma}^2$ -FeSi ₂ particles embedded in the intrinsic silicon. Journal of Applied Physics, 2005, 97, 043529. | 1.1 | 29 |
| 81 | Fabrication of (111)-oriented Si layers on SiO ₂ substrates by an aluminum-induced crystallization method and subsequent growth of semiconducting BaSi ₂ layers for photovoltaic application. Journal of Crystal Growth, 2009, 311, 3581-3586. | 0.7 | 29 |
| 82 | Evaluation of potential variations around grain boundaries in BaSi ₂ epitaxial films by Kelvin probe force microscopy. Applied Physics Letters, 2013, 103, . | 1.5 | 29 |
| 83 | Transistor action of metal (CoSi ₂)/insulator (CaF ₂) hot electron transistor structure. Electronics Letters, 1992, 28, 1002-1004. | 0.5 | 28 |
| 84 | Epitaxial growth and characterization of Si-based light-emitting Si/ $\hat{\Gamma}^2$ -FeSi ₂ film/Si double heterostructures on Si(001) substrates by molecular beam epitaxy. Thin Solid Films, 2006, 508, 371-375. | 0.8 | 28 |
| 85 | Effects of deposition rate on the structure and electron density of evaporated BaSi ₂ films. Journal of Applied Physics, 2016, 120, 045103. | 1.1 | 28 |
| 86 | Polycrystalline thin-film transistors fabricated on high-mobility solid-phase-crystallized Ge on glass. Applied Physics Letters, 2019, 114, . | 1.5 | 28 |
| 87 | Dependence of photoluminescence from $\hat{\Gamma}^2$ -FeSi ₂ and induced deep levels in Si on the size of $\hat{\Gamma}^2$ -FeSi ₂ balls embedded in Si crystals. Thin Solid Films, 2001, 381, 209-213. | 0.8 | 27 |
| 88 | Optical properties of $\hat{\Gamma}^2$ -FeSi ₂ under pressure. Physical Review B, 2002, 65, . | 1.1 | 27 |
| 89 | Growth of Epitaxial $\hat{\Gamma}^2$ -FeSi ₂ Thin Film on Si(001) by Metal-Organic Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2004, 43, L551-L553. | 0.8 | 27 |
| 90 | Fabrication of p-Si/ $\hat{\Gamma}^2$ -FeSi ₂ /n-Si Double-Heterostructure Light-Emitting Diode by Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2005, 44, 2483-2486. | 0.8 | 27 |

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|-----|---|-----|-----------|
| 91 | Photoresponse properties of Al ⁿ -FeSi ₂ Schottky diodes using FeSi ₂ single crystals. Applied Physics Letters, 2007, 91, 142114. | 1.5 | 27 |
| 92 | Photoluminescence decay time and electroluminescence of p-Si ⁿ -FeSi ₂ /n-Si and p-Si ⁿ -FeSi ₂ /n-Si double-heterostructures light-emitting diodes grown by molecular-beam epitaxy. Journal of Applied Physics, 2007, 101, 124506. | 1.1 | 27 |
| 93 | Molecular beam epitaxy of band gap tunable ternary semiconducting silicides Ba _{1-x} Sr _x Si ₂ for photovoltaic application. Journal of Crystal Growth, 2007, 301-302, 680-683. | 0.7 | 27 |
| 94 | p-Si ⁿ -FeSi ₂ /n-Si double-heterostructure light-emitting diodes achieving 1.6 μm electroluminescence of 0.4 mW at room temperature. Applied Physics Letters, 2009, 94, 213509. | 1.5 | 27 |
| 95 | Negative spin polarization at the Fermi level in Fe ₄ N epitaxial films by spin-resolved photoelectron spectroscopy. Journal of Applied Physics, 2012, 112, . | 1.1 | 27 |
| 96 | Millimeter-sized magnetic domains in perpendicularly magnetized ferrimagnetic Mn ₄ N thin films grown on SrTiO ₃ . Japanese Journal of Applied Physics, 2018, 57, 120310. | 0.8 | 27 |
| 97 | Magnetic and magneto-transport properties of Mn ₄ N thin films by Ni substitution and their possibility of magnetic compensation. Journal of Applied Physics, 2019, 125, . | 1.1 | 27 |
| 98 | Strong correlation between uniaxial magnetic anisotropic constant and in-plane tensile strain in Mn ₄ N epitaxial films. AIP Advances, 2020, 10, . | 0.6 | 27 |
| 99 | Al- and Cu-doped BaSi ₂ epitaxial films on Si(111) substrate by molecular beam epitaxy and evaluation of depth profiles of Al and Cu atoms. Physics Procedia, 2011, 11, 11-14. | 1.1 | 26 |
| 100 | N-type doping of BaSi ₂ epitaxial films by phosphorus ion implantation and thermal annealing. Thin Solid Films, 2014, 557, 90-93. | 0.8 | 26 |
| 101 | Direct synthesis of multilayer graphene on an insulator by Ni-induced layer exchange growth of amorphous carbon. Applied Physics Letters, 2017, 110, . | 1.5 | 26 |
| 102 | High-quality multilayer graphene on an insulator formed by diffusion controlled Ni-induced layer exchange. Applied Physics Letters, 2017, 111, . | 1.5 | 26 |
| 103 | Spectroscopic evidence of photogenerated carrier separation by built-in electric field in Sb-doped n-BaSi ₂ /B-doped p-BaSi ₂ homojunction diodes. Japanese Journal of Applied Physics, 2018, 57, 050310. | 0.8 | 26 |
| 104 | Thermoelectric Inorganic SiGe Film Synthesized on Flexible Plastic Substrate. ACS Applied Energy Materials, 0, , . | 2.5 | 26 |
| 105 | Thick and Smooth Hexagonal GaN Growth on GaAs (111) Substrates at 1000 °C with Halide Vapor Phase Epitaxy. Japanese Journal of Applied Physics, 1999, 38, L700-L702. | 0.8 | 25 |
| 106 | Growth and Characterization of Si-Based Light-Emitting Diode with FeSi ₂ -Particles/Si Multilayered Active Region by Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2005, 44, 3951-3953. | 0.8 | 25 |
| 107 | Postannealing effects on undoped BaSi ₂ evaporated films grown on Si substrates. Japanese Journal of Applied Physics, 2017, 56, 05DB05. | 0.8 | 25 |
| 108 | Identification of Vibrational Modes in BaSi ₂ Epitaxial Films by Infrared and Raman Spectroscopy. Defect and Diffusion Forum, 0, 386, 43-47. | 0.4 | 25 |

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|-----|---|-----|-----------|
| 109 | High hole mobility ($\approx 500 \text{ cm}^2/\text{Vs}$) polycrystalline Ge films on GeO_2 -coated glass and plastic substrates. Applied Physics Express, 2019, 12, 015508. | 1.1 | 25 |
| 110 | Improvement of 1.5 μm Photoluminescence from Reactive Deposition Epitaxy (RDE) Grown FeSi_2 Balls in Si by High Temperature Annealing. Japanese Journal of Applied Physics, 1999, 38, L620-L622. | 0.8 | 24 |
| 111 | Hole mobility of p-type FeSi_2 thin films grown from Si^*Fe multilayers. Journal of Applied Physics, 2005, 97, 093716. | 1.1 | 24 |
| 112 | Effect of using a high-purity Fe source on the transport properties of p-type FeSi_2 grown by molecular-beam epitaxy. Journal of Applied Physics, 2007, 102, 103706. | 1.1 | 24 |
| 113 | Fabrication of p-Si/ FeSi_2 balls/n-si structures by MBE and their electrical and optical properties. Journal of Luminescence, 1998, 80, 473-477. | 1.5 | 23 |
| 114 | X-ray magnetic circular dichroism of ferromagnetic Co_4N epitaxial films on $\text{SrTiO}_3(001)$ substrates grown by molecular beam epitaxy. Applied Physics Letters, 2011, 99, 252501. | 1.5 | 23 |
| 115 | Potential variations around grain boundaries in impurity-doped BaSi_2 epitaxial films evaluated by Kelvin probe force microscopy. Journal of Applied Physics, 2014, 116, . | 1.1 | 23 |
| 116 | Control of grain size and crystallinity of poly-Si films on quartz by Al-induced crystallization. CrystEngComm, 2017, 19, 2305-2311. | 1.3 | 23 |
| 117 | Advanced solid-phase crystallization for high-hole mobility ($450 \text{ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td}$) cm^2/Vs 2018, 11, 031302. | 1.1 | 23 |
| 118 | Metal Catalysts for Layer-Exchange Growth of Multilayer Graphene. ACS Applied Materials & Interfaces, 2018, 10, 41664-41669. | 4.0 | 23 |
| 119 | Magnetic reversal in rare-earth free $\text{Mn}_4\text{Ni}_x\text{N}$ epitaxial films below and above Ni composition needed for magnetic compensation around room temperature. Journal of Applied Physics, 2020, 127, . | 1.1 | 23 |
| 120 | Strain effects on polycrystalline germanium thin films. Scientific Reports, 2021, 11, 8333. | 1.6 | 23 |
| 121 | Room temperature negative differential resistance of metal (CoSi_2)/insulator (CaF_2) resonant tunnelling diode. Electronics Letters, 1992, 28, 1432. | 0.5 | 22 |
| 122 | Energetic stability and magnetic moment of tri-, tetra-, and octa- ferromagnetic element nitrides predicted by first-principle calculations. Journal of Alloys and Compounds, 2014, 611, 440-445. | 2.8 | 22 |
| 123 | N-type doping of BaSi_2 epitaxial films by arsenic ion implantation through a dose-dependent carrier generation mechanism. Thin Solid Films, 2014, 567, 105-108. | 0.8 | 22 |
| 124 | First-principles study of twin grain boundaries in epitaxial BaSi_2 on $\text{Si}(111)$. Journal of Applied Physics, 2016, 120, . | 1.1 | 22 |
| 125 | High-electron-mobility ($370 \text{ cm}^2/\text{Vs}$) polycrystalline Ge on an insulator formed by As-doped solid-phase crystallization. Scientific Reports, 2019, 9, 16558. | 1.6 | 22 |
| 126 | Growth condition dependence of GaN crystal structure on $(001)\text{GaAs}$ by hydride vapor-phase epitaxy. Journal of Crystal Growth, 1998, 189-190, 395-400. | 0.7 | 21 |

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|-----|--|-----|-----------|
| 127 | Dependence of crystal orientation in Al-induced crystallized poly-Si layers on SiO ₂ insertion layer thickness. <i>Journal of Crystal Growth</i> , 2012, 356, 65-69. | 0.7 | 21 |
| 128 | Lattice and grain-boundary diffusions of boron atoms in BaSi ₂ epitaxial films on Si(111). <i>Journal of Applied Physics</i> , 2013, 113, . | 1.1 | 21 |
| 129 | Vertically Aligned Ge Nanowires on Flexible Plastic Films Synthesized by (111)-Oriented Ge Seeded Vapor-Liquid-Solid Growth. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18120-18124. | 4.0 | 21 |
| 130 | Photoresponse properties of BaSi ₂ film grown on Si (100) by vacuum evaporation. <i>Materials Research Express</i> , 2016, 3, 076204. | 0.8 | 21 |
| 131 | On the Mechanism of BaSi ₂ Thin Film Formation on Si Substrate by Vacuum Evaporation. <i>Procedia Engineering</i> , 2016, 141, 23-26. | 1.2 | 21 |
| 132 | Epitaxial growth and magnetic properties of Fe _{4-x} Mn _x N thin films grown on MgO(001) substrates by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2018, 489, 20-23. | 0.7 | 21 |
| 133 | Recent Progress Toward Realization of High-Efficiency BaSi ₂ Solar Cells: Thin-Film Deposition Techniques and Passivation of Defects. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, 2100593. | 0.8 | 21 |
| 134 | Record-High Hole Mobility Germanium on Flexible Plastic with Controlled Interfacial Reaction. <i>ACS Applied Electronic Materials</i> , 2022, 4, 269-275. | 2.0 | 21 |
| 135 | Donor and Acceptor Levels in Undoped β -FeSi ₂ Films Grown on Si (001) Substrates. <i>Japanese Journal of Applied Physics</i> , 2001, 40, L249-L251. | 0.8 | 20 |
| 136 | Epitaxial growth of Fe ₃ Si/CaF ₂ /Si(111) hybrid structures by molecular beam epitaxy. <i>Thin Solid Films</i> , 2006, 508, 78-81. | 0.8 | 20 |
| 137 | Direct synthesis of highly textured Ge on flexible polyimide films by metal-induced crystallization. <i>Applied Physics Letters</i> , 2014, 104, . | 1.5 | 20 |
| 138 | Evaluation of minority carrier diffusion length of undoped n-BaSi ₂ epitaxial thin films on Si(001) substrates by electron-beam-induced-current technique. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 078004. | 0.8 | 20 |
| 139 | Measurement of valence-band offset at native oxide/BaSi ₂ interfaces by hard x-ray photoelectron spectroscopy. <i>Journal of Applied Physics</i> , 2016, 119, . | 1.1 | 20 |
| 140 | Simple Vacuum Evaporation Route to BaSi ₂ Thin Films for Solar Cell Applications. <i>Procedia Engineering</i> , 2016, 141, 27-31. | 1.2 | 20 |
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