List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Elemental composition of β-Sic(001) surface phases studied by medium energy ion scattering. Surface Science, 1990, 231, L196-L200. | 1.9 | 103 |
| 2 | Additional dimer-row structure of 3C-SiC(001) surfaces observed by scanning tunneling microscopy. Physical Review B, 1994, 50, 4548-4553. | 3.2 | 63 |
| 3 | Control of interface states at metal/6H-SiC(0001) interfaces. Physical Review B, 2004, 70, . | 3.2 | 61 |
| 4 | Essential Change in Crystal Qualities of GaN Films by Controlling Lattice Polarity in Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2000, 39, L16-L18. | 1.5 | 56 |
| 5 | A MOSFET Fabrication Using a Maskless Lithography System in Clean-Localized Environment of Minimal Fab. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 393-398. | 1.7 | 50 |
| 6 | Realization of Ga-polarity GaN films in radio-frequency plasma-assisted molecular beam epitaxy. Journal of Crystal Growth, 2000, 218, 155-160. | 1.5 | 47 |
| 7 | Atomic and Electronic-Band Structures of Anomalous Carbon Dimers on3Câ^'SiC(001)â^'c(2×2). Physical Review Letters, 1999, 83, 1640-1643. | 7.8 | 45 |
| 8 | Ideal Ohmic contact to n-type 6H-SiC by reduction of Schottky barrier height. Applied Physics Letters, 1997, 71, 689-691. | 3.3 | 44 |
| 9 | Analyses on Cleanroom-Free Performance and Transistor Manufacturing Cycle Time of Minimal Fab. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 551-556. | 1.7 | 42 |
| 10 | Photolithography for Minimal Fab System. IEEJ Transactions on Sensors and Micromachines, 2013, 133, 272-277. | 0.1 | 42 |
| 11 | Self-limiting growth on the Î ² -SiC(001) surface. Surface Science, 1992, 273, 437-441. | 1.9 | 37 |
| 12 | Control of Schottky and ohmic interfaces by unpinning Fermi level. Applied Surface Science, 1997, 117-118, 394-399. | 6.1 | 34 |
| 13 | Microscopic mechanisms of accurate layer-by-layer growth of Î ² -SiC. Thin Solid Films, 1993, 225, 240-243. | 1.8 | 31 |
| 14 | Interface structure of face-centered-cubic-Ti thin film grown on 6H–SiC substrate. Journal of Materials Research, 2000, 15, 2121-2124. | 2.6 | 29 |
| 15 | Electronic structure of the Si-rich3Câ^'SiC(001)3×2surface. Physical Review B, 1998, 58, 10540-10550. | 3.2 | 28 |
| 16 | Characterization of Polarity of Wurtzite GaN Film Grown by Molecular Beam Epitaxy Using NH3. Japanese Journal of Applied Physics, 2000, 39, L202-L204. | 1.5 | 28 |
| 17 | Stability of N- and Ga-polarity GaN surfaces during the growth interruption studied by reflection high-energy electron diffraction. Applied Physics Letters, 2000, 77, 4013-4015. | 3.3 | 28 |
| 18 | The Schottky limit and a charge neutrality level found on metal/6H-SiC interfaces. Surface Science, 2001, 494, L805-L810. | 1.9 | 20 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Hydrogen-induced3×1phase of the Si-rich3Câ^'SiC(001)surface. Physical Review B, 2000, 61, R2417-R2420. | 3.2 | 19 |

20 ãfŸãf‹ãfžãf«ãf•ã,¡ãf–ã,•ã,¹ãf†ãfã®æ§‹æf³ã•実ç¾ã«å'ã•ã•l. Journal of the Japan Society for Precision Engineering,12011, 🕫, 249-253

| 21 | Chemical trend in silicide electronic structure and Schottky-barrier heights of silicide-silicon interfaces. Physical Review B, 1988, 38, 7554-7557. | 3.2 | 18 |
|----|---|-----|----|
| 22 | Solid State Reaction of Mo on Cubic and Hexagonal SiC. Japanese Journal of Applied Physics, 1990, 29, L394-L397. | 1.5 | 17 |
| 23 | Space fluctuation of empty states on 3C-SiC(001) surface. Surface Science, 1996, 357-358, 436-440. | 1.9 | 16 |
| 24 | Transport of a helicon plasma by a convergent magnetic field for high speed and compact plasma etching. Journal Physics D: Applied Physics, 2014, 47, 425201. | 2.8 | 14 |
| 25 | Perfect cellular disorder in a two-dimensional system: Si cells on the 3C-SiC(001) surface. Surface Science, 1999, 421, L143-L149. | 1.9 | 13 |
| 26 | Angle-resolved photoemission study of the hydrogenated 3C-SiC(001)-2×1-H surface. Surface Science, 2001, 479, 247-254. | 1.9 | 13 |
| 27 | Surface core-level shift photoelectron diffraction study of β-SiC(001)-c(2×2) surface. Surface Science, 1999, 438, 237-241. | 1.9 | 12 |
| 28 | Pinning-controlled ohmic contacts: application to SiC(0001). Applied Surface Science, 1996, 107, 218-221. | 6.1 | 11 |
| 29 | Surface states of the3Câ^'SiC(001)â^'c(4×2)surface studied using angle-resolved photoemission. Physical Review B, 2000, 61, R2460-R2463. | 3.2 | 11 |
| 30 | High-Quality InGaN Films Grown on Ga-Polarity GaN by Plasma-Assisted Molecular-Beam Epitaxy. Japanese Journal of Applied Physics, 2000, 39, L1270-L1272. | 1.5 | 10 |
| 31 | Optimization of GaN Growth with Ga-Polarity by Referring to Surface Reconstruction Reflection High-Energy Electron Diffraction Patterns. Japanese Journal of Applied Physics, 2001, 40, L23-L25. | 1.5 | 10 |
| 32 | An experimental study of solid source diffusion by spin on dopants and its application for minimal silicon-on-insulator CMOS fabrication. Japanese Journal of Applied Physics, 2017, 56, 06GC01. | 1.5 | 10 |
| 33 | Advantages of a slim vertical gas channel at high SiHCl3 concentrations for atmospheric pressure silicon epitaxial growth. Materials Science in Semiconductor Processing, 2018, 87, 13-18. | 4.0 | 10 |
| 34 | Surface reconstructions of 3C-SiC(001) studied by high-resolution core-level photoemission. Surface Science, 1999, 433-435, 392-396. | 1.9 | 9 |
| 35 | Silicon Chemical Vapor Deposition Process Using a Half-Inch Silicon Wafer for Minimal Manufacturing System. Physics Procedia, 2013, 46, 230-238. | 1.2 | 9 |
| 36 | Electronic structure of the 3C–SiC(001)2×1 surface studied with angle-resolved photoelectron spectroscopy. Surface Science, 1999, 439, 199-210. | 1.9 | 8 |

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|----|--|-----|-----------|
| 37 | Improvement of DC Characteristics in AlGaN/GaN Heterojunction Field-Effect Transistors Employing AlN Spacer Layer. Japanese Journal of Applied Physics, 2002, 41, 5563-5564. | 1.5 | 8 |
| 38 | High-Power Pulsed Magnetron Sputtering Glow Plasma in Argon Gas and Pulsed Ion Extraction. IEEE Transactions on Plasma Science, 2010, 38, 3016-3027. | 1.3 | 7 |
| 39 | Reflector Influence on Rapid Heating of Minimal Manufacturing Chemical Vapor Deposition Reactor. ECS Journal of Solid State Science and Technology, 2016, 5, P280-P284. | 1.8 | 7 |
| 40 | Minimal multi-target plasma sputtering tool. Vacuum, 2020, 171, 109000. | 3.5 | 7 |
| 41 | Transport phenomena in a slim vertical atmospheric pressure chemical vapor deposition reactor utilizing natural convection. Materials Science in Semiconductor Processing, 2017, 71, 348-351. | 4.0 | 6 |
| 42 | Investigation of piezoresistive effect in p-channel metal–oxide–semiconductor field-effect transistors fabricated on circular silicon-on-insulator diaphragms using cost-effective minimal-fab process. Japanese Journal of Applied Physics, 2018, 57, 06HD03. | 1.5 | 6 |
| 43 | Real time evaluation of silicon epitaxial growth process by exhaust gas measurement using quartz crystal microbalance. Materials Science in Semiconductor Processing, 2018, 88, 192-197. | 4.0 | 6 |
| 44 | Fabrication of a high-density emitter array for electrospray thrusters using field emitter array process. Japanese Journal of Applied Physics, 2019, 58, SEEG04. | 1.5 | 6 |
| 45 | Characterization of the 6H-SiC(0001) surface and the interface with Ti layer with the Schottky limit. Applied Surface Science, 2000, 162-163, 19-24. | 6.1 | 5 |
| 46 | Comment on "Carbon Atomic Chain Formation on theβ-SiC(100) Surface by Controlledsp→sp3Transformation― Physical Review Letters, 2000, 85, 2649-2649. | 7.8 | 5 |
| 47 | Si-adsorption induced phase transition on the 3C–SiC(001) surface. Surface Science, 1999, 433-435, 465-469. | 1.9 | 4 |
| 48 | New Compact Electron Cyclotron Resonance Plasma Source for Silicon Nitride Film Formation in Minimal Fab System. IEEE Journal of the Electron Devices Society, 2018, 6, 512-517. | 2.1 | 3 |
| 49 | Si desorption from a ß-SiC(001) surface by an oxygen flux. Surface Science Letters, 1992, 278, L141-L146. | 0.1 | 2 |
| 50 | Pinning-controlled metal/semiconductor interfaces. , 1996, , . | | 2 |
| 51 | ANGLE-RESOLVED PHOTOEMISSION STUDIES OF THE 3C–SiC(001)(2×1) SURFACE. Surface Review and Letters, 1999, 06, 1151-1157. | 1.1 | 2 |
| 52 | Achievement of MBE-Grown GaN Heteroepitaxial Layer with (0001) Ga-Polarity and Improved Quality by In Exposure. Materials Science Forum, 2000, 338-342, 1459-1462. | 0.3 | 2 |
| 53 | Development of Semiconductor Manufacturing System Integrating Wafer Process and Packaging Process Using a Half-Inch Sized Package. , 2018, , . | | 2 |
| 54 | Quartz crystal microbalance for real-time monitoring chlorosilane gas transport in slim vertical cold wall chemical vapor deposition reactor. Materials Science in Semiconductor Processing, 2020, 106, 104759. | 4.0 | 2 |

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|----|--|-----|-----------|
| 55 | Fabrication of nano-capillary emitter arrays for ionic liquid electrospray thrusters. Japanese Journal of Applied Physics, 2021, 60, SCCF07. | 1.5 | 2 |
| 56 | Si desorption from a \hat{l}^2 -SiC(001) surface by an oxygen flux. Surface Science, 1992, 278, L141-L146. | 1.9 | 1 |
| 57 | Ohmic Contacts to n-Type 6H-SiC Without Post-Annealing. Materials Research Society Symposia Proceedings, 1996, 423, 149. | 0.1 | 1 |
| 58 | New Technique for Ohmic Formation. Materials Research Society Symposia Proceedings, 1996, 427, 159. | 0.1 | 1 |
| 59 | Fabrication of PVD-TiN metal-gate SOI-CMOS integrated circuits using minimal-fab and mega-fab hybrid process. , 2016, , . | | 1 |
| 60 | Process development for CMOS fabrication using minimal fab. , 2017, , . | | 1 |
| 61 | Effective performance of a tiny-chamber plasma etcher in scallop reduction. , 2017, , . | | 1 |
| 62 | Development of a half-inch wafer for minimal fab process. , 2017, , . | | 1 |
| 63 | Via Interconnections for Half-Inch Sized Package Fabricated by Minimal Fab. , 2018, , . | | 1 |
| 64 | Fabrication of Electrospray Thrusters with a High-Density Emitter Array Utilizing Minimal-Fab System. , 2018, , . | | 1 |
| 65 | Diamond SAW Resonators Made by Minimal-Fab Process. , 2018, , . | | 1 |
| 66 | Process Cost and Time in Minimal Fab to Fabricate Custom-made Microneedle Array with Extraction Tool. , 2018, , . | | 1 |
| 67 | A method to deposit a known number of polystyrene latex particles on a flat surface. Aerosol Science and Technology, 2019, 53, 1353-1366. | 3.1 | 1 |
| 68 | Enhancement of downstream plasma density by a stepped-diameter radiofrequency plasma source under a static magnetic field for a compact sputtering reactor. Vacuum, 2019, 163, 269-274. | 3.5 | 1 |
| 69 | Small Plasma Space with a Small Plasma Source and Its Advantage in Minimal Fab. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 747-752. | 0.3 | 1 |
| 70 | Practical Thermal Condition of Silicon CVD Reactor for Minimal Manufacturing. , 2015, , . | | 1 |
| 71 | Ultra-Compact Device-Manufacturing-System "Minimal Fab―Integrating Wafer and Packaging Process for High-Mix Low-Volume Productions and Its Packaging Applications. Journal of Japan Institute of Electronics Packaging, 2019, 22, 507-513. | 0.1 | 1 |
| 72 | Development of fundamental manufacturing processes for minimal fab. , 2016, , . | | 0 |

SHIRO HARA

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|----|---|-----|-----------|
| 73 | An in-line MOSFET process with photomask fabrication process in a minimal fab. , 2017, , . | | ο |
| 74 | New compact ECR plasma source for silicon nitride film formation in minimal fab system. , 2017, , . | | 0 |
| 75 | BGA packaging process for a device made by minimal fab. , 2017, , . | | Ο |
| 76 | Development of a Minimal multi-target helicon sputtering tool. , 2018, , . | | 0 |
| 77 | Silicon Epitaxial Reactor for Minimal Fab. , 2018, , . | | Ο |
| 78 | Inhibitation of substrate heating in a Minimal Multi-Target Helicon sputtering tool. , 2018, , . | | 0 |
| 79 | Fabrication of volcano structured Spindt-type field emitter arrays using Minimal Fab system. , 2018, , . | | Ο |
| 80 | Nitride Semiconductor Surfaces. Surface Structure of MBE-grown III-nitride Semiconductors Hyomen Kagaku, 2000, 21, 169-176. | 0.0 | 0 |
| 81 | Encapsulated Production System and its Application to Semiconductor Surface and Interface. Hyomen Kagaku, 2008, 29, 375-381. | 0.0 | Ο |
| 82 | Via Interconnections for Half-Inch Packaging of Electronic Devices Using Minimal Fab Process Tools. | 0.3 | 0 |

Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2020, 32, 763-768.