

# Tsunenobu Kimoto

## List of Publications by Year in Descending Order

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

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|--------------------|--------------------------|----------------|-----------------|
| 456<br>papers      | 12,059<br>citations      | 56<br>h-index  | 92<br>g-index   |
| 487<br>ext. papers | 13,517<br>ext. citations | 2.4<br>avg, IF | 6.94<br>L-index |

| #   | Paper   | IF  | Citations |
|-----|---|-----|-----------|
| 456 | Carrier Trapping Effects on Forward Characteristics of SiC p-i-n Diodes Fabricated on High-Purity Semi-Insulating Substrates. <i>IEEE Transactions on Electron Devices</i> , <b>2022</b> , 69, 1989-1994                    | 2.9 | 1         |
| 455 | High-voltage SiC power devices for improved energy efficiency.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , <b>2022</b> , 98, 161-189  | 4   | 1         |
| 454 | Critical electric field for transition of thermionic field emission/field emission transport in heavily doped SiC Schottky barrier diodes. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 172103                       | 3.4 | 0         |
| 453 | SiC complementary junction field-effect transistor logic gate operation at 623 K. <i>IEEE Electron Device Letters</i> , <b>2022</b> , 1-1   | 4.4 | 1         |
| 452 | Breakdown Electric Field of GaN p+-n and p-n+ Junction Diodes with Various Doping Concentrations. <i>IEEE Electron Device Letters</i> , <b>2021</b> , 1-1   | 4.4 | 1         |
| 451 | Short-Channel Effects in SiC MOSFETs Based on Analyses of Saturation Drain Current. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 1382-1384  | 2.9 | 5         |
| 450 | Lateral spreads of ion-implanted Al and P atoms in silicon carbide. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, 051001   | 1.4 | 2         |
| 449 | Impact ionization coefficients and critical electric field in GaN. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 185702  | 7.3 | 23        |
| 448 | Expansion patterns of single Shockley stacking faults from scratches on 4H-SiC. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, 068001   | 1.4 | 0         |
| 447 | Orientation and size effects on electronic structure of rectangular cross-sectional Sn nanowires. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 224302   | 2.5 |           |
| 446 | Mobility improvement of 4H-SiC (0001) MOSFETs by a three-step process of H <sub>2</sub> etching, SiO <sub>2</sub> deposition, and interface nitridation. <i>Applied Physics Express</i> , <b>2021</b> , 14, 031001          | 2.4 | 16        |
| 445 | Improvement of Both n- and p-Channel Mobilities in 4H-SiC MOSFETs by High-Temperature N <sub>2</sub> Annealing. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 638-644                                    | 2.9 | 5         |
| 444 | Nearly Fermi-level-pinning-free interface in metal/heavily-doped SiC Schottky structures. <i>Japanese Journal of Applied Physics</i> , <b>2021</b> , 60, SBBD14   | 1.4 | 6         |
| 443 | Depth profiles of electron traps generated during reactive ion etching in n-type 4H-SiC characterized by using isothermal capacitance transient spectroscopy. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 105703 | 2.5 | 1         |
| 442 | Forward thermionic field emission transport and significant image force lowering caused by high electric field at metal/heavily-doped SiC Schottky interfaces. <i>Applied Physics Express</i> , <b>2020</b> , 13, 041001    | 2.4 | 9         |
| 441 | Temperature Dependence of Conductivity Modulation in SiC Bipolar Junction Transistors. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 1699-1704   | 2.9 | 3         |
| 440 | Grain-boundary structures and their impact on the electrical properties of NiO films deposited by reactive sputtering. <i>Thin Solid Films</i> , <b>2020</b> , 709, 138203  | 2.2 | 1         |

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| 439 | Tunneling Current in 4H-SiC p-n Junction Diodes. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 3329-3334  | 3.4 | 7  |
| 438 | Dual-color-sub-bandgap-light-excited isothermal capacitance transient spectroscopy for quick measurement of carbon-related hole trap density in n-type GaN. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, SGGD05                                      | 1.4 | 1  |
| 437 | Unique resistive switching phenomena exhibiting both filament-type and interface-type switching in Ti/Pr <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> /Pt ReRAM cells. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 013501                                 | 3.4 | 6  |
| 436 | Electron-spin-resonance and electrically detected-magnetic-resonance characterization on PbC center in various 4H-SiC(0001)/SiO <sub>2</sub> interfaces. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 145301   | 2.5 | 9  |
| 435 | Estimation of the critical condition for expansion/contraction of single Shockley stacking faults in 4H-SiC PiN diodes. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 092105   | 3.4 | 10 |
| 434 | Transformation of hollow-core screw dislocations: transitional configuration of superscrew dislocations. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, 095502   | 1.4 | 2  |
| 433 | Design and formation of SiC (0001)/SiO <sub>2</sub> interfaces via Si deposition followed by low-temperature oxidation and high-temperature nitridation. <i>Applied Physics Express</i> , <b>2020</b> , 13, 091003   | 2.4 | 17 |
| 432 | Formation of high-quality SiC(0001)/SiO <sub>2</sub> structures by excluding oxidation process with H <sub>2</sub> etching before SiO <sub>2</sub> deposition and high-temperature N <sub>2</sub> annealing. <i>Applied Physics Express</i> , <b>2020</b> , 13, 121002 | 2.4 | 10 |
| 431 | Defect engineering in SiC technology for high-voltage power devices. <i>Applied Physics Express</i> , <b>2020</b> , 13, 120101   | 2.4 | 44 |
| 430 | Rapid Revolution Speed Control of the Brushless DC Motor for Automotive LIDAR Applications. <i>IEICE Transactions on Electronics</i> , <b>2020</b> , E103.C, 324-331   | 0.4 |    |
| 429 | Comprehensive and systematic design of metal/high-k gate stack for high-performance and highly reliable SiC power MOSFET. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, 021001  | 1.4 | 3  |
| 428 | Analysis of carrier lifetimes in n-type 4H-SiC by rate equations. <i>Applied Physics Express</i> , <b>2020</b> , 13, 011006  | 2.4 | 3  |
| 427 | Experimental Study on Short-Channel Effects in Double-Gate Silicon Carbide JFETs. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 4538-4540   | 2.9 | 3  |
| 426 | Effect of quantum confinement on the defect-induced localized levels in 4H-SiC(0001)/SiO <sub>2</sub> systems. <i>Journal of Applied Physics</i> , <b>2020</b> , 128, 095702   | 2.5 | 5  |
| 425 | Experimental Determination of Impact Ionization Coefficients Along <1120> in 4H-SiC. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 3740-3744  | 2.9 | 9  |
| 424 | Spin transport in n-type 3C-BiC observed in a lateral spin-pumping device. <i>Solid State Communications</i> , <b>2020</b> , 305, 113754   | 1.6 | 2  |
| 423 | Theoretical analysis of band structure effects on impact ionization coefficients in wide-bandgap semiconductors. <i>Applied Physics Express</i> , <b>2020</b> , 13, 041006   | 2.4 | 3  |
| 422 | Franz-Keldysh effect in 4H-SiC p-n junction diodes under high electric field along the <11 $\bar{2}$ > direction. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 091007  | 1.4 | 2  |

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| 4 <sup>21</sup> | Demonstration of Conductivity Modulation in SiC Bipolar Junction Transistors With Reduced Base Spreading Resistance. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 4870-4874                             | 2.9 | 5  |
| 4 <sup>20</sup> | Measurement of avalanche multiplication utilizing Franz-Keldysh effect in GaN p-n junction diodes with double-side-depleted shallow bevel termination. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 142101           | 3.4 | 14 |
| 4 <sup>19</sup> | Electronic energy model for single Shockley stacking fault formation in 4H-SiC crystals. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 105703  | 2.5 | 18 |
| 4 <sup>18</sup> | Design and Fabrication of GaN p-n Junction Diodes With Negative Beveled-Mesa Termination. <i>IEEE Electron Device Letters</i> , <b>2019</b> , 40, 941-944   | 4.4 | 45 |
| 4 <sup>17</sup> | Normally-off 400 °C Operation of n- and p-JFETs With a Side-Gate Structure Fabricated by Ion Implantation Into a High-Purity Semi-Insulating SiC Substrate. <i>IEEE Electron Device Letters</i> , <b>2019</b> , 40, 866-869 | 4.4 | 15 |
| 4 <sup>16</sup> | Reduction of interface state density in SiC (0001) MOS structures by low-oxygen-partial-pressure annealing. <i>Applied Physics Express</i> , <b>2019</b> , 12, 031001   | 2.4 | 12 |
| 4 <sup>15</sup> | Two modes of bipolar resistive switching characteristics in asymmetric TaOx-based ReRAM cells. <i>MRS Advances</i> , <b>2019</b> , 4, 2601-2607   | 0.7 | 1  |
| 4 <sup>14</sup> | SiC Vertical-Channel n- and p-JFETs Fully Fabricated by Ion Implantation. <i>Materials Science Forum</i> , <b>2019</b> , 963, 841-844   | 0.4 | 3  |
| 4 <sup>13</sup> | Estimation of Impact Ionization Coefficient in GaN by Photomultiplication Measurement Utilizing Franz-Keldysh Effect <b>2019</b> ,  |     | 2  |
| 4 <sup>12</sup> | Dominant conduction mechanism in TaO x -based resistive switching devices. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 090914  | 1.4 | 3  |
| 4 <sup>11</sup> | Shockley-Read-Hall lifetime in homoepitaxial p-GaN extracted from recombination current in GaN p <sup>+</sup> n <sup>+</sup> junction diodes. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, SCCB14         | 1.4 | 12 |
| 4 <sup>10</sup> | Deep-level transient spectroscopy studies of electron and hole traps in n-type GaN homoepitaxial layers grown by quartz-free hydride-vapor-phase epitaxy. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 012103        | 3.4 | 28 |
| 4 <sup>09</sup> | Influence of vacuum annealing on interface properties of SiC (0001) MOS structures. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 078001   | 1.4 | 1  |
| 4 <sup>08</sup> | Impact Ionization Coefficients in GaN Measured by Above- and Sub-Eg Illuminations for p <sup>+</sup> n <sup>+</sup> Junction <b>2019</b> ,  |     | 15 |
| 4 <sup>07</sup> | Impact ionization coefficients of 4H-SiC in a wide temperature range. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 018001   | 1.4 | 14 |
| 4 <sup>06</sup> | Updated trade-off relationship between specific on-resistance and breakdown voltage in 4H-SiC{0001} unipolar devices. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 018002                                 | 1.4 | 18 |
| 4 <sup>05</sup> | Structural determination of phosphosilicate glass based on first-principles molecular dynamics calculation. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 011001   | 1.4 |    |
| 4 <sup>04</sup> | Impacts of energy relaxation process on quasi-ballistic hole transport capability in germanium and silicon nanowires. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 024305   | 2.5 | 0  |

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| 403 | Deep-ultraviolet light emission from 4H-AlN/4H-GaN short-period superlattice grown on 4H-SiC(1120). <i>Applied Physics Letters</i> , <b>2018</b> , 112, 012106   | 3.4 | 6  |
| 402 | Sources of carrier compensation in metalorganic vapor phase epitaxy-grown homoepitaxial n-type GaN layers with various doping concentrations. <i>Applied Physics Express</i> , <b>2018</b> , 11, 041001                      | 2.4 | 41 |
| 401 | High-Temperature Operation of n- and p-Channel JFETs Fabricated by Ion Implantation Into a High-Purity Semi-Insulating SiC Substrate. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 723-726                        | 4.4 | 20 |
| 400 | Suppression of Punch-Through Current in 3 kV 4H-SiC Reverse-Blocking MOSFET by Using Highly Doped Drift Layer. <i>IEEE Journal of the Electron Devices Society</i> , <b>2018</b> , 6, 449-453                                | 2.3 | 8  |
| 399 | Current status and perspectives of ultrahigh-voltage SiC power devices. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 78, 43-56   | 4.3 | 53 |
| 398 | Theoretical analysis of Hall factor and hole mobility in p-type 4H-SiC considering anisotropic valence band structure. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 245704   | 2.5 | 9  |
| 397 | Passivation of Surface Recombination at the Si-Face of 4H-SiC by Acidic Solutions. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, Q127-Q130   | 2   | 6  |
| 396 | Accurate method for estimating hole trap concentration in n-type GaN via minority carrier transient spectroscopy. <i>Applied Physics Express</i> , <b>2018</b> , 11, 071002  | 2.4 | 16 |
| 395 | Glide velocities of Si-core partial dislocations for double-Shockley stacking fault expansion in heavily nitrogen-doped SiC during high-temperature annealing. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 025705 | 2.5 | 6  |
| 394 | Carrier lifetime and breakdown phenomena in SiC power device material. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 363001  | 3   | 24 |
| 393 | Estimation of Threshold Voltage in SiC Short-Channel MOSFETs. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 3077-3080   | 2.9 | 15 |
| 392 | Interface carbon defects at 4H-SiC(0001)/SiO <sub>2</sub> interfaces studied by electron-spin-resonance spectroscopy. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 061605   | 3.4 | 23 |
| 391 | Phonon-assisted optical absorption due to Franz-Keldysh effect in 4H-SiC p <sup>+</sup> n junction diode under high reverse bias voltage. <i>Applied Physics Express</i> , <b>2018</b> , 11, 091302                          | 2.4 | 7  |
| 390 | Progress in High and Ultrahigh Voltage Silicon Carbide Device Technology <b>2018</b> ,   |     | 2  |
| 389 | Parallel-Plane Breakdown Fields of 2.8-3.5 MV/cm in GaN-on-GaN p-n Junction Diodes with Double-Side-Depleted Shallow Bevel Termination <b>2018</b> ,   |     | 23 |
| 388 | Effects of Parasitic Region in SiC Bipolar Junction Transistors on Forced Current Gain. <i>Materials Science Forum</i> , <b>2018</b> , 924, 629-632  | 0.4 | 4  |
| 387 | Effects of TiO <sub>2</sub> crystallinity and oxygen composition on forming characteristics in Pt/TiO <sub>2</sub> /Pt resistive switching cells. <i>AIP Advances</i> , <b>2018</b> , 8, 125010                              | 1.5 | 5  |
| 386 | Microscopic mechanism of carbon annihilation upon SiC oxidation due to phosphorus treatment: Density functional calculations combined with ion mass spectrometry. <i>Applied Physics Express</i> , <b>2018</b> , 11, 121301  | 2.4 | 1  |

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| 385 | Determination of Surface Recombination Velocity From Current-Voltage Characteristics in SiC p-n Diodes. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 4786-4791                                     | 2.9 | 3  |
| 384 | Conductance Fluctuation in NiO-based resistive switching memory. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 152134   | 2.5 | 9  |
| 383 | Observation of carrier recombination in single Shockley stacking faults and at partial dislocations in 4H-SiC. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 095702   | 2.5 | 11 |
| 382 | Injected carrier concentration dependence of the expansion of single Shockley-type stacking faults in 4H-SiC PiN diodes. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 025707                                 | 2.5 | 30 |
| 381 | Impacts of Finger Numbers on ON-State Characteristics in Multifinger SiC BJTs With Low Base Spreading Resistance. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 2771-2777                           | 2.9 | 4  |
| 380 | Franz-Keldysh effect in GaN p-n junction diode under high reverse bias voltage. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 252104   | 3.4 | 13 |
| 379 | Phonon frequencies of a highly strained AlN layer coherently grown on 6H-SiC (0001). <i>AIP Advances</i> , <b>2017</b> , 7, 015105   | 1.5 | 3  |
| 378 | Interface properties of NO-annealed 4H-SiC (0001), (1120), and (1100) MOS structures with heavily doped p-bodies. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 145703  | 2.5 | 9  |
| 377 | Reduction of interface state density in SiC (0001) MOS structures by post-oxidation Ar annealing at high temperature. <i>AIP Advances</i> , <b>2017</b> , 7, 045008  | 1.5 | 15 |
| 376 | Effect of Postoxidation Nitridation on Forward Current-Voltage Characteristics in 4H-SiC Mesa p-n Diodes Passivated With SiO <sub>2</sub> . <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 3016-3018 | 2.9 | 4  |
| 375 | Electrical properties of n- and p-type 4H-SiC formed by ion implantation into high-purity semi-insulating substrates. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 070306                            | 1.4 | 18 |
| 374 | Observation of double Shockley stacking fault expansion in heavily-nitrogen-doped 4H-SiC using PL technique. <i>Journal of Crystal Growth</i> , <b>2017</b> , 468, 889-893   | 1.6 | 12 |
| 373 | Design Criterion for SiC BJTs to Avoid ON-Characteristics Degradation Due to Base Spreading Resistance. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 2086-2091                                     | 2.9 | 6  |
| 372 | Ultrahigh-Voltage SiC MPS Diodes With Hybrid Unipolar/Bipolar Operation. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 874-881  | 2.9 | 24 |
| 371 | Reliability-aware design of metal/high-k gate stack for high-performance SiC power MOSFET <b>2017</b> ,  |     | 7  |
| 370 | Calibration on wide-ranging aluminum doping concentrations by photoluminescence in high-quality uncompensated p-type 4H-SiC. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 072101                                | 3.4 | 7  |
| 369 | Suppression of the Forward Degradation in 4H-SiC PiN Diodes by Employing a Recombination-Enhanced Buffer Layer. <i>Materials Science Forum</i> , <b>2017</b> , 897, 419-422  | 0.4 | 5  |
| 368 | TaC-coated graphite prepared via a wet ceramic process: Application to CVD susceptors for epitaxial growth of wide-bandgap semiconductors. <i>Journal of Crystal Growth</i> , <b>2017</b> , 478, 163-173               | 1.6 | 12 |



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| 367 | Structural analysis of double-layer Shockley stacking faults formed in heavily-nitrogen-doped 4H-SiC during annealing. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 045707                              | 2.5 | 16 |
| 366 | Carrier Lifetimes in Lightly-Doped p-Type 4H-SiC Epitaxial Layers Enhanced by Post-growth Processes and Surface Passivation. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 6411-6417                 | 1.9 | 4  |
| 365 | High-Temperature Characteristics of 3-kV 4H-SiC Reverse Blocking MOSFET for High-Performance Bidirectional Switch. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 4167-4174                     | 2.9 | 9  |
| 364 | Correlation between shapes of Shockley stacking faults and structures of basal plane dislocations in 4H-SiC epilayers. <i>Philosophical Magazine</i> , <b>2017</b> , 97, 2736-2752                                | 1.6 | 22 |
| 363 | Carbon ejection from a SiO <sub>2</sub> /SiC(0001) interface by annealing in high-purity Ar. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 062101   | 3.4 | 25 |
| 362 | Appearance of quantum point contact in Pt/NiO/Pt resistive switching cells. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 2631-2637  | 2.5 | 12 |
| 361 | Understanding and reduction of degradation phenomena in SiC power devices <b>2017</b> ,   |     | 25 |
| 360 | Characterization of Thermal Oxides on 4H-SiC Epitaxial Substrates Using Fourier-Transform Infrared Spectroscopy. <i>Applied Spectroscopy</i> , <b>2017</b> , 71, 911-918  | 3.1 | 5  |
| 359 | Progress and future challenges of SiC power devices and process technology <b>2017</b> ,  |     | 7  |
| 358 | ESR Study on Hydrogen Passivation of Intrinsic Defects in p-Type and Semi-Insulating 4H-SiC. <i>Materials Science Forum</i> , <b>2016</b> , 858, 318-321  | 0.4 | 2  |
| 357 | Growth of Shockley type stacking faults upon forward degradation in 4H-SiC p-i-n diodes. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 095711  | 2.5 | 53 |
| 356 | Bulk and epitaxial growth of silicon carbide. <i>Progress in Crystal Growth and Characterization of Materials</i> , <b>2016</b> , 62, 329-351   | 3.5 | 66 |
| 355 | Stress Characterization of 4H-SiC Metal-Oxide-Semiconductor Field-Effect Transistor (MOSFET) using Raman Spectroscopy and the Finite Element Method. <i>Applied Spectroscopy</i> , <b>2016</b> , 70, 1209-13      | 3.1 | 11 |
| 354 | Impact of NO Annealing on Flatband Voltage Instability due to Charge Trapping in Si-MOS Devices. <i>Materials Science Forum</i> , <b>2016</b> , 858, 599-602  | 0.4 | 24 |
| 353 | Promise and Challenges of High-Voltage SiC Bipolar Power Devices. <i>Energies</i> , <b>2016</b> , 9, 908  | 3.1 | 26 |
| 352 | Strain control in AlN top layer by inserting an ultrathin GaN interlayer on an AlN template coherently grown on SiC(0001) by PAMBE. <i>Physica Status Solidi (B): Basic Research</i> , <b>2016</b> , 253, 814-818 | 1.3 | 2  |
| 351 | Ion implantation technology in SiC for high-voltage/high-temperature devices <b>2016</b> ,  |     | 7  |
| 350 | Effect of NiO crystallinity on forming characteristics in Pt/NiO/Pt cells as resistive switching memories. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 115308  | 2.5 | 9  |

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| 349 | Control of carrier lifetime of thick n-type 4H-SiC epilayers by high-temperature Ar annealing. <i>Applied Physics Express</i> , <b>2016</b> , 9, 061303  | 2.4 | 27  |
| 348 | Short minority carrier lifetimes in highly nitrogen-doped 4H-SiC epilayers for suppression of the stacking fault formation in PiN diodes. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 115101                                      | 2.5 | 47  |
| 347 | Interface state density of SiO <sub>2</sub> /p-type 4H-SiC ( 0001), ( 112̄0), ( 11̄00) metal-oxide-semiconductor structures characterized by low-temperature subthreshold slopes. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 152108 | 3.4 | 24  |
| 346 | Analysis of High-Field Hole Transport in Germanium and Silicon Nanowires Based on Boltzmann's Transport Equation. <i>IEEE Nanotechnology Magazine</i> , <b>2016</b> , 1-1  | 2.6 | 2   |
| 345 | Control of carbon vacancy in SiC toward ultrahigh-voltage power devices. <i>Superlattices and Microstructures</i> , <b>2016</b> , 99, 151-157  | 2.8 | 9   |
| 344 | Analysis of ballistic and quasi-ballistic hole transport properties in germanium nanowires based on an extended Top of the Barrier model. <i>Solid-State Electronics</i> , <b>2016</b> , 123, 143-149  | 1.7 | 2   |
| 343 | Demonstration of 3 kV 4H-SiC reverse blocking MOSFET <b>2016</b> ,   |     | 11  |
| 342 | Dominant conduction mechanism in NiO-based resistive memories. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 225701   | 2.5 | 9   |
| 341 | Interface Properties of 4H-SiC ( $11\bar{2}0$ ) and ( $1\bar{1}00$ ) MOS Structures Annealed in NO. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 309-315   | 2.9 | 52  |
| 340 | Impact Ionization Coefficients in 4H-SiC Toward Ultrahigh-Voltage Power Devices. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 3326-3333  | 2.9 | 53  |
| 339 | Development of Ultrahigh-Voltage SiC Devices. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 396-404   | 2.9 | 52  |
| 338 | Ultrahigh-Voltage SiC p-i-n Diodes With Improved Forward Characteristics. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 374-381   | 2.9 | 88  |
| 337 | Oxidation-induced majority and minority carrier traps in n- and p-type 4H-SiC. <i>Applied Physics Express</i> , <b>2015</b> , 8, 111301  | 2.4 | 7   |
| 336 | Temperature dependence of conductance in NiO-based resistive switching memory showing two modes in the forming process. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 233510   | 3.4 | 13  |
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| 324 | Impact of conduction type and doping density on thermal oxidation rate of SiC(0001). <i>Applied Physics Express</i> , <b>2014</b> , 7, 121301  | 2.4 | 4   |
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| 305 | Improvement of Carrier Lifetimes in Highly Al-Doped p-Type 4H-SiC Epitaxial Layers by Hydrogen Passivation. <i>Applied Physics Express</i> , <b>2013</b> , 6, 121301   | 2.4 | 15 |
| 304 | Growth, Electrical Characterization, and Electroluminescence of GaN/SiC Heterojunction Diodes and Bipolar Transistors Fabricated on SiC Off-Axis Substrates. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 124102 | 1.4 | 2  |
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| 238 | Enhancement of Carrier Lifetimes in n-Type 4H-SiC Epitaxial Layers by Improved Surface Passivation. <i>Applied Physics Express</i> , <b>2010</b> , 3, 121201  | 2.4 | 21  |
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| 77 | Radiation-induced defect centers in 4H silicon carbide. <i>Diamond and Related Materials</i> , <b>1997</b> , 6, 1333-1337  | 3.5  | 50  |
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| 75 | Step bunching mechanism in chemical vapor deposition of 6H- and 4H-SiC{0001}. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 3494-3500  | 2.5  | 144 |
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| 71 | Deep Defect Centers in Silicon Carbide Monitored with Deep Level Transient Spectroscopy. <i>Physica Status Solidi A</i> , <b>1997</b> , 162, 199-225   |      | 330 |
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| 61 | Nitrogen donors and deep levels in high-quality 4H-SiC epilayers grown by chemical vapor deposition. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 2833-2835          | 3.4 | 101 |
| 60 | Nitrogen Ion Implantation into 6H-SiC and Application to High-Temperature, Radiation-Hard Diodes. <i>Japanese Journal of Applied Physics</i> , <b>1995</b> , 34, 3036-3042 | 1.4 | 17  |
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| 58 | Step bunching in chemical vapor deposition of 6H- and 4H-SiC on vicinal SiC(0001) faces. <i>Applied Physics Letters</i> , <b>1995</b> , 66, 3645-3647                      | 3.4 | 117 |
| 57 | High performance of high-voltage 4H-SiC Schottky barrier diodes. <i>IEEE Electron Device Letters</i> , <b>1995</b> , 16, 280-282   | 4.4 | 176 |
| 56 | Surface diffusion lengths of adatoms on 6H-SiC{0001} faces in chemical vapor deposition of SiC. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 3132-3137            | 2.5 | 60  |
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| 38 | Characterization of SiC diodes in extremely high temperature ambient   |     | 9  |
| 37 | Dose Designing and Fabrication of 4H-SiC Double RESURF MOSFETs   |     | 2  |
| 36 | MOS interface properties and MOSFET performance on 4H-SiC{0001} and (11-20) processed by N/sub 2/O oxidation   |     | 1  |
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| 12 | Electron mobility along and directions in 4H-SiC over a wide range of donor concentration and temperature. <i>Applied Physics Express</i> ,  |         | 2.4 | 2 |
| 11 | Photoionization cross section ratio of nitrogen-site carbon in GaN under sub-bandgap-light irradiation determined by isothermal capacitance transient spectroscopy. <i>Applied Physics Express</i> , |         | 2.4 | 1 |
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