

Francesco La Via

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371
papers

3,786
citations

26
h-index

44
g-index

391
ext. papers

4,147
ext. citations

1.9
avg, IF

5.07
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 371 | Richardson's constant in inhomogeneous silicon carbide Schottky contacts. <i>Journal of Applied Physics</i> , 2003 , 93, 9137-9144 | 2.5 | 201 |
| 370 | Structural and electrical characterisation of titanium and nickel silicide contacts on silicon carbide. <i>Microelectronic Engineering</i> , 2002 , 60, 269-282 | 2.5 | 114 |
| 369 | The NUMEN project: NUClear Matrix Elements for Neutrinoless double beta decay. <i>European Physical Journal A</i> , 2018 , 54, 1 | 2.5 | 92 |
| 368 | 4H SiC Epitaxial Growth with Chlorine Addition. <i>Chemical Vapor Deposition</i> , 2006 , 12, 509-515 | | 77 |
| 367 | Highly reproducible ideal SiC Schottky rectifiers: effects of surface preparation and thermal annealing on the Ni/6H-SiC barrier height. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 77, 827-833 | 2.6 | 73 |
| 366 | From thin film to bulk 3C-SiC growth: Understanding the mechanism of defects reduction. <i>Materials Science in Semiconductor Processing</i> , 2018 , 78, 57-68 | 4.3 | 72 |
| 365 | Schottky's ohmic transition in nickel silicide/SiC-4H system: is it really a solved problem?. <i>Microelectronic Engineering</i> , 2003 , 70, 519-523 | 2.5 | 67 |
| 364 | OHMIC CONTACTS TO SiC. <i>International Journal of High Speed Electronics and Systems</i> , 2005 , 15, 781-820 | 0.5 | 65 |
| 363 | Structural and electrical properties of Ni ₃ Si Schottky contacts on silicon carbide upon thermal annealing. <i>Journal of Applied Physics</i> , 2004 , 96, 4313-4318 | 2.5 | 60 |
| 362 | Thin crystalline 3C-SiC layer growth through carbonization of differently oriented Si substrates. <i>Journal of Applied Physics</i> , 2007 , 102, 023518 | 2.5 | 59 |
| 361 | 4H-SiC epitaxial layer growth by trichlorosilane (TCS). <i>Journal of Crystal Growth</i> , 2008 , 311, 107-113 | 1.6 | 58 |
| 360 | Improvement of high temperature stability of nickel contacts on n-type 6H-SiC. <i>Applied Surface Science</i> , 2001 , 184, 295-298 | 6.7 | 58 |
| 359 | Mechanisms of growth and defect properties of epitaxial SiC. <i>Applied Physics Reviews</i> , 2014 , 1, 031301 | 17.3 | 56 |
| 358 | High performance SiC detectors for MeV ion beams generated by intense pulsed laser plasmas. <i>Journal of Materials Research</i> , 2013 , 28, 87-93 | 2.5 | 56 |
| 357 | Heteroepitaxy of 3C-SiC on different on-axis oriented silicon substrates. <i>Journal of Applied Physics</i> , 2009 , 105, 084910 | 2.5 | 55 |
| 356 | High-quality 6inch (111) 3C-SiC films grown on off-axis (111) Si substrates. <i>Thin Solid Films</i> , 2010 , 518, S165-S169 | 2.2 | 55 |
| 355 | Effects of annealing temperature on the degree of inhomogeneity of nickel-silicide/SiC Schottky barrier. <i>Journal of Applied Physics</i> , 2005 , 98, 023713 | 2.5 | 52 |

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| 354 | New Achievements on CVD Based Methods for SiC Epitaxial Growth. <i>Materials Science Forum</i> , 2005 , 483-485, 67-72 | 0.4 | 46 |
| 353 | Advanced Residual Stress Analysis and FEM Simulation on Heteroepitaxial 3C-SiC for MEMS Application. <i>Journal of Microelectromechanical Systems</i> , 2011 , 20, 745-752 | 2.5 | 45 |
| 352 | Structural defects in (100) 3C-SiC heteroepitaxy: Influence of the buffer layer morphology on generation and propagation of stacking faults and microtwins. <i>Diamond and Related Materials</i> , 2009 , 18, 1440-1449 | 3.5 | 43 |
| 351 | A kinetic Monte Carlo method on super-lattices for the study of the defect formation in the growth of close packed structures. <i>Journal of Computational Physics</i> , 2007 , 227, 1075-1093 | 4.1 | 41 |
| 350 | Defect Influence on Heteroepitaxial 3C-SiC Young's Modulus. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, H161 | | 33 |
| 349 | Electrical characterization of ultra-shallow junctions formed by diffusion from a CoSi ₂ /sub 2/ layer. <i>IEEE Transactions on Electron Devices</i> , 1997 , 44, 526-534 | 2.9 | 30 |
| 348 | 3C-SiC Film Growth on Si Substrates. <i>ECS Transactions</i> , 2011 , 35, 99-116 | 1 | 28 |
| 347 | Electron backscattering from stacking faults in SiC by means of ab initio quantum transport calculations. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 27 |
| 346 | Defect formation and evolution in the step-flow growth of silicon carbide: A Monte Carlo study. <i>Journal of Crystal Growth</i> , 2008 , 310, 971-975 | 1.6 | 27 |
| 345 | Effect of the miscut direction in (111) 3C-SiC film growth on off-axis (111)Si. <i>Applied Physics Letters</i> , 2009 , 94, 101907 | 3.4 | 26 |
| 344 | Diffusion and outdiffusion of aluminium implanted into silicon. <i>Semiconductor Science and Technology</i> , 1993 , 8, 488-494 | 1.8 | 25 |
| 343 | Silicon carbide detectors study for NUMEN project. <i>EPJ Web of Conferences</i> , 2016 , 117, 10006 | 0.3 | 25 |
| 342 | SiC/LIA-Silicon Carbide Detectors for Intense Luminosity Investigations and Applications. <i>Sensors</i> , 2018 , 18, | 3.8 | 25 |
| 341 | Ion irradiation of inhomogeneous Schottky barriers on silicon carbide. <i>Journal of Applied Physics</i> , 2005 , 97, 123502 | 2.5 | 24 |
| 340 | Structural and electronic transitions in Ge ₂ Sb ₂ Te ₅ induced by ion irradiation damage. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 24 |
| 339 | SiC-4H Epitaxial Layer Growth Using Trichlorosilane (TCS) as Silicon Precursor. <i>Materials Science Forum</i> , 2006 , 527-529, 179-182 | 0.4 | 23 |
| 338 | Structural characterisation of titanium silicon carbide reaction. <i>Microelectronic Engineering</i> , 2001 , 55, 375-381 | 2.5 | 23 |
| 337 | Genesis and evolution of extended defects: The role of evolving interface instabilities in cubic SiC. <i>Applied Physics Reviews</i> , 2020 , 7, 021402 | 17.3 | 22 |

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| 336 | Growth Rate Effect on 3C-SiC Film Residual Stress on (100) Si Substrates. <i>Materials Science Forum</i> , 2010 , 645-648, 143-146 | 0.4 | 21 |
| 335 | Preferential oxidation of stacking faults in epitaxial off-axis (111) 3C-SiC films. <i>Applied Physics Letters</i> , 2009 , 95, 111905 | 3.4 | 21 |
| 334 | Tailoring the Ti ₄ HfSiC Schottky barrier by ion irradiation. <i>Applied Physics Letters</i> , 2004 , 85, 6152-6154 | 3.4 | 21 |
| 333 | Silicon carbide pinch rectifiers using a dual-metal Ti-Ni/sub 2/Si Schottky barrier. <i>IEEE Transactions on Electron Devices</i> , 2003 , 50, 1741-1747 | 2.9 | 21 |
| 332 | Temperature dependence of the c-axis mobility in 6H-SiC Schottky diodes. <i>Applied Physics Letters</i> , 2003 , 83, 4181-4183 | 3.4 | 21 |
| 331 | Low Stress Heteroepitaxial 3C-SiC Films Characterized by Microstructure Fabrication and Finite Elements Analysis. <i>Journal of the Electrochemical Society</i> , 2010 , 157, H438 | 3.9 | 20 |
| 330 | Extended study of the step-bunching mechanism during the homoepitaxial growth of SiC. <i>Thin Solid Films</i> , 2010 , 518, S159-S161 | 2.2 | 20 |
| 329 | Thermal stability of thin CoSi ₂ layers on polysilicon implanted with As, BF ₂ , and Si. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998 , 16, 1129 | | 20 |
| 328 | Effect of the linewidth reduction on the characteristic time spread in C49/C54 phase transition. <i>Applied Physics Letters</i> , 1998 , 73, 3863-3865 | 3.4 | 20 |
| 327 | Thermal stability of cobalt silicide stripes on Si (001). <i>Journal of Applied Physics</i> , 1999 , 86, 3089-3095 | 2.5 | 20 |
| 326 | Photocatalytical activity of amorphous hydrogenated TiO ₂ obtained by pulsed laser ablation in liquid. <i>Materials Science in Semiconductor Processing</i> , 2016 , 42, 28-31 | 4.3 | 19 |
| 325 | First Principles Investigation on the Modifications of the 4H-SiC Band Structure Due to the (4,4) and (3,5) Stacking Faults. <i>Applied Physics Express</i> , 2011 , 4, 025802 | 2.4 | 19 |
| 324 | Heteroepitaxial growth of (111) 3C-SiC on (110) Si substrate by second order twins. <i>Applied Physics Letters</i> , 2008 , 92, 224102 | 3.4 | 19 |
| 323 | Electrical properties of high energy ion irradiated 4H-SiC Schottky diodes. <i>Journal of Applied Physics</i> , 2008 , 104, 093711 | 2.5 | 19 |
| 322 | Structural properties of fluorinated SiO ₂ thin films. <i>Microelectronic Engineering</i> , 2000 , 50, 67-74 | 2.5 | 18 |
| 321 | Nucleation and growth of C54 grains into C49 TiSi ₂ thin films monitored by micro-Raman imaging. <i>Journal of Applied Physics</i> , 2000 , 88, 7013-7019 | 2.5 | 18 |
| 320 | Carbonization and transition layer effects on 3C-SiC film residual stress. <i>Journal of Crystal Growth</i> , 2017 , 473, 11-19 | 1.6 | 17 |
| 319 | Protrusions reduction in 3C-SiC thin film on Si. <i>Journal of Crystal Growth</i> , 2018 , 498, 248-257 | 1.6 | 17 |

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| 318 | Fabrication of a Monolithic Implantable Neural Interface from Cubic Silicon Carbide. <i>Micromachines</i> , 2019 , 10, | 3.3 | 17 |
| 317 | Raman Characterization of Doped 3C-SiC/Si for Different Silicon Substrates and C/Si Ratios. <i>Materials Science Forum</i> , 2010 , 645-648, 255-258 | 0.4 | 17 |
| 316 | Stacking faults evolution during epitaxial growths: Role of surface the kinetics. <i>Surface Science</i> , 2010 , 604, 939-942 | 1.8 | 17 |
| 315 | Drift mobility in 4H-SiC Schottky diodes. <i>Applied Physics Letters</i> , 2005 , 87, 142105 | 3.4 | 17 |
| 314 | Impact of Stacking Faults and Domain Boundaries on the Electronic Transport in Cubic Silicon Carbide Probed by Conductive Atomic Force Microscopy. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901171 | 6.4 | 16 |
| 313 | Biocompatibility between Silicon or Silicon Carbide surface and Neural Stem Cells. <i>Scientific Reports</i> , 2019 , 9, 11540 | 4.9 | 16 |
| 312 | Structural and electronic characterization of (2,33) bar-shaped stacking fault in 4H-SiC epitaxial layers. <i>Applied Physics Letters</i> , 2011 , 98, 051915 | 3.4 | 16 |
| 311 | Theoretical Monte Carlo Study of the Formation and Evolution of Defects in the Homoepitaxial Growth of SiC. <i>Materials Science Forum</i> , 2008 , 600-603, 135-138 | 0.4 | 16 |
| 310 | Optical and electrical properties of 4H-SiC epitaxial layer grown with HCl addition. <i>Journal of Applied Physics</i> , 2007 , 102, 043523 | 2.5 | 16 |
| 309 | Schottky-Ohmic Transition in Nickel Silicide/SiC System: Is it Really a Solved Problem?. <i>Materials Science Forum</i> , 2003 , 433-436, 721-724 | 0.4 | 16 |
| 308 | Sublimation growth of bulk 3C-SiC using 3C-SiC-on-Si (1 0 0) seeding layers. <i>Journal of Crystal Growth</i> , 2017 , 478, 159-162 | 1.6 | 15 |
| 307 | Thick Epitaxial Layers Growth by Chlorine Addition. <i>Materials Science Forum</i> , 2009 , 615-617, 55-60 | 0.4 | 15 |
| 306 | Monte Carlo study of the step flow to island nucleation transition for close packed structures. <i>Surface Science</i> , 2009 , 603, 2226-2229 | 1.8 | 15 |
| 305 | Two-dimensional junction profiling by selective chemical etching: Applications to electron device characterization. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1996 , 14, 414 | | 15 |
| 304 | Very High Growth Rate Epitaxy Processes with Chlorine Addition. <i>Materials Science Forum</i> , 2007 , 556-557, 157-160 | 0.4 | 15 |
| 303 | High growth rate process in a SiC horizontal CVD reactor using HCl. <i>Microelectronic Engineering</i> , 2006 , 83, 48-50 | 2.5 | 15 |
| 302 | Structural properties of SiO ₂ films prepared by plasma-enhanced chemical vapor deposition. <i>Materials Science in Semiconductor Processing</i> , 2001 , 4, 43-46 | 4.3 | 15 |
| 301 | Interface state density evaluation of high quality hetero-epitaxial 3C-BiC(001) for high-power MOSFET applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015 , 198, 14-19 | 3.1 | 14 |

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| 300 | Theoretical and experimental study of the role of cell-cell dipole interaction in dielectrophoretic devices: application to polynomial electrodes. <i>BioMedical Engineering OnLine</i> , 2014 , 13, 71 | 4.1 | 14 |
| 299 | Microtwin reduction in 3C-SiC heteroepitaxy. <i>Applied Physics Letters</i> , 2010 , 97, 181916 | 3.4 | 14 |
| 298 | Formation of the TiSi ₂ C40 as an intermediate phase during the reaction of the Si/Ta/Ti system. <i>Applied Physics Letters</i> , 2001 , 78, 1864-1866 | 3.4 | 14 |
| 297 | Precipitation of arsenic diffused into silicon from a TiSi ₂ source. <i>Journal of Applied Physics</i> , 1991 , 69, 7262-731 | 3.1 | 14 |
| 296 | Stress fields analysis in 3C-SiC free-standing microstructures by micro-Raman spectroscopy. <i>Thin Solid Films</i> , 2012 , 522, 20-22 | 2.2 | 13 |
| 295 | High Quality Single Crystal 3C-SiC(111) Films Grown on Si(111). <i>Materials Science Forum</i> , 2009 , 615-617, 145-148 | 0.4 | 13 |
| 294 | Epitaxial Layers Grown with HCl Addition: A Comparison with the Standard Process. <i>Materials Science Forum</i> , 2006 , 527-529, 163-166 | 0.4 | 13 |
| 293 | High-resolution investigation of atomic interdiffusion during Co/Ni/Si phase transition. <i>Journal of Applied Physics</i> , 2003 , 94, 231-237 | 2.5 | 13 |
| 292 | Direct measurement of the growth rate during the C49 to C54 transformation in TiSi ₂ : Activation energy. <i>Journal of Applied Physics</i> , 2002 , 92, 627-628 | 2.5 | 13 |
| 291 | Roughness of thermal oxide layers grown on ion implanted silicon wafers. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998 , 16, 619 | | 13 |
| 290 | (Invited) Three-Dimensional Epitaxial Si _{1-x} Ge _x , Ge and SiC Crystals on Deeply Patterned Si Substrates. <i>ECS Transactions</i> , 2014 , 64, 631-648 | 1 | 12 |
| 289 | Micro-Raman analysis and finite-element modeling of 3 C-SiC microstructures. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 299-306 | 2.3 | 12 |
| 288 | Patterned substrate with inverted silicon pyramids for 3C-SiC epitaxial growth: A comparison with conventional (001) Si substrate. <i>Journal of Materials Research</i> , 2013 , 28, 94-103 | 2.5 | 12 |
| 287 | Investigations of transient phase formation in Ti/Si thin film reaction. <i>Journal of Applied Physics</i> , 2004 , 96, 361-368 | 2.5 | 12 |
| 286 | Defect Reduction in Epitaxial 3C-SiC on Si(001) and Si(111) by Deep Substrate Patterning. <i>Materials Science Forum</i> , 2015 , 821-823, 193-196 | 0.4 | 11 |
| 285 | Ion Implantation Defects in 4H-SiC DIMOSFET. <i>Materials Science Forum</i> , 2016 , 858, 418-421 | 0.4 | 11 |
| 284 | Temperature Investigation on 3C-SiC Homo-Epitaxy on Four-Inch Wafers. <i>Materials</i> , 2019 , 12, | 3.5 | 11 |
| 283 | Optical investigation of bulk electron mobility in 3C-SiC films on Si substrates. <i>Applied Physics Letters</i> , 2010 , 97, 142103 | 3.4 | 11 |

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| 282 | Reduction of the C49-C54 TiSi ₂ phase transformation temperature by reactive Ti deposition. <i>Europhysics Letters</i> , 1997 , 40, 581-586 | 1.6 | 11 |
| 281 | Defect-induced tetragonalization of the orthorhombic TiSi ₂ C49 phase: X-ray diffraction and first principles calculations. <i>Applied Physics Letters</i> , 2001 , 78, 739-741 | 3.4 | 11 |
| 280 | Electrical resistivity and Hall coefficient of C49, C40, and C54 TiSi ₂ thin-film phases. <i>Journal of Applied Physics</i> , 2002 , 92, 3147-3151 | 2.5 | 11 |
| 279 | Role of the substrate in the C49-C54 transformation of TiSi ₂ . <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 721 | | 11 |
| 278 | Arsenic redistribution at the SiO ₂ /Si interface during oxidation of implanted silicon. <i>Physical Review B</i> , 1998 , 58, 10990-10999 | 3.3 | 11 |
| 277 | Extended defects in 3C-SiC: Stacking faults, threading partial dislocations, and inverted domain boundaries. <i>Acta Materialia</i> , 2021 , 213, 116915 | 8.4 | 11 |
| 276 | 3C-SiC Hetero-Epitaxially Grown on Silicon Compliance Substrates and New 3C-SiC Substrates for Sustainable Wide-Band-Gap Power Devices (CHALLENGE). <i>Materials Science Forum</i> , 2018 , 924, 913-918 | 0.4 | 10 |
| 275 | On the Step Bunching Phenomena Observed on Etched and Homoepitaxially Grown 4H Silicon Carbide. <i>Materials Science Forum</i> , 2011 , 679-680, 358-361 | 0.4 | 10 |
| 274 | Complete Determination of the Local Stress Field in Epitaxial Thin Films Using Single Microstructure. <i>Materials Science Forum</i> , 2011 , 679-680, 213-216 | 0.4 | 10 |
| 273 | 3C-SiC Hetero-Epitaxial Films for Sensors Fabrication. <i>Advances in Science and Technology</i> , 2008 , 54, 411-415 | 0.15 | 10 |
| 272 | TEM analysis of an additional metal-rich component at the C49-C54 transformation in Ti/Si thin films capped with TiN. <i>Thin Solid Films</i> , 2002 , 408, 123-127 | 2.2 | 10 |
| 271 | In situ investigations of the metal/silicon reaction in Ti/Si thin films capped with TiN: Volumetric analysis of the C49-C54 transformation. <i>Applied Physics Letters</i> , 2001 , 79, 2184-2186 | 3.4 | 10 |
| 270 | Thermal oxidation of Si (001) single crystal implanted with Ge ions. <i>Journal of Applied Physics</i> , 2002 , 91, 6754 | 2.5 | 10 |
| 269 | Epitaxial CoSi ₂ formation on Si(001) from an amorphous Co ₇₅ W ₂₅ sputtered layer. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1992 , 10, 2284 | | 10 |
| 268 | Ni/4H-SiC interaction and silicide formation under excimer laser annealing for ohmic contact. <i>Materialia</i> , 2020 , 9, 100528 | 3.2 | 10 |
| 267 | Stacking Fault Analysis of Epitaxial 3C-SiC on Si(001) Ridges. <i>Materials Science Forum</i> , 2016 , 858, 147-150 | 0.4 | 10 |
| 266 | Formation, Morphology, and Optical Properties of Electroless Deposited Gold Nanoparticles on 3C-SiC. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 4304-4311 | 3.8 | 9 |
| 265 | Generation and Termination of Stacking Faults by Inverted Domain Boundaries in 3C-SiC. <i>Crystal Growth and Design</i> , 2020 , 20, 3104-3111 | 3.5 | 9 |

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| 264 | Photo-electrochemical water splitting in silicon based photocathodes enhanced by plasmonic/catalytic nanostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017 , 225, 128-133 | 3.1 | 9 |
| 263 | Reduction of the Surface Density of Single Shockley Faults by TCS Growth Process. <i>Materials Science Forum</i> , 2011 , 679-680, 67-70 | 0.4 | 9 |
| 262 | Dual metal SiC Schottky rectifiers with low power dissipation. <i>Microelectronic Engineering</i> , 2003 , 70, 524-538 | 5.3 | 9 |
| 261 | Activation Study of Implanted N+ in 6H-SiC by Scanning Capacitance Microscopy. <i>Materials Science Forum</i> , 2003 , 433-436, 375-378 | 0.4 | 9 |
| 260 | Dopant profile measurements in ion implanted 6H-SiC by scanning capacitance microscopy. <i>Applied Surface Science</i> , 2001 , 184, 183-189 | 6.7 | 9 |
| 259 | Oxidation of ion implanted silicon carbide. <i>Materials Science in Semiconductor Processing</i> , 2001 , 4, 345-349 | 4.3 | 9 |
| 258 | Effects of N-induced heterogeneous nucleation and growth of cavities at the CoSi ₂ /polycrystalline Silicon interface. <i>Applied Physics Letters</i> , 2002 , 81, 55-57 | 3.4 | 9 |
| 257 | High temperature annealing effects on the electrical characteristics of C implanted Si. <i>Journal of Applied Physics</i> , 1996 , 79, 3464-3469 | 2.5 | 9 |
| 256 | The NUMEN Heavy Ion Multidetector for a Complementary Approach to the Neutrinoless Double Beta Decay. <i>Universe</i> , 2020 , 6, 129 | 2.5 | 9 |
| 255 | 3C-SiC Epitaxy on Deeply Patterned Si(111) Substrates. <i>Materials Science Forum</i> , 2016 , 858, 151-154 | 0.4 | 9 |
| 254 | New thick silicon carbide detectors: Response to 14 MeV neutrons and comparison with single-crystal diamonds. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 946, 162637 | 1.2 | 8 |
| 253 | 3C-SiC grown on Si by using a Si _{1-x} Gex buffer layer. <i>Journal of Crystal Growth</i> , 2019 , 519, 1-6 | 1.6 | 8 |
| 252 | Evaluation of 3C-SiC/Si residual stress and curvatures along different wafer direction. <i>Materials Letters</i> , 2014 , 118, 130-133 | 3.3 | 8 |
| 251 | A novel micro-Raman technique to detect and characterize 4H-SiC stacking faults. <i>Journal of Applied Physics</i> , 2014 , 116, 163506 | 2.5 | 8 |
| 250 | Study of the Effects of Growth Rate, Miscut Direction and Postgrowth Argon Annealing on the Surface Morphology of Homoepitaxially Grown 4H Silicon Carbide Films. <i>Materials Science Forum</i> , 2013 , 740-742, 229-234 | 0.4 | 8 |
| 249 | Study of the connection between stacking faults evolution and step kinetics in misoriented 4H-SiC epitaxial growths. <i>Surface Science</i> , 2011 , 605, L67-L69 | 1.8 | 8 |
| 248 | Study of the Evolution of Basal Plane Dislocations during Epitaxial Growth: Role of the Surface Kinetics. <i>Materials Science Forum</i> , 2010 , 645-648, 539-542 | 0.4 | 8 |
| 247 | 3C-SiC Heteroepitaxial Growth on Inverted Silicon Pyramids (ISP). <i>Materials Science Forum</i> , 2010 , 645-648, 135-138 | 0.4 | 8 |

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| 246 | Systematic First Principles Calculations of the Effects of Stacking Fault Defects on the 4H-SiC Band Structure. <i>Materials Science Forum</i> , 2010 , 645-648, 283-286 | 0.4 | 8 |
| 245 | SiC Films and Coatings 2012 , 17-61 | | 8 |
| 244 | SiC-4H Epitaxial Layer Growth by Trichlorosilane (TCS) as Silicon Precursor at Very High Growth Rate. <i>Materials Science Forum</i> , 2008 , 600-603, 123-126 | 0.4 | 8 |
| 243 | Correlation between microstructure control, density and diffusion barrier properties of TiN(O) films. <i>Microelectronic Engineering</i> , 2002 , 60, 81-87 | 2.5 | 8 |
| 242 | Thermal expansion and stress development in the first stages of silicidation in Ti/Si thin films. <i>Journal of Applied Physics</i> , 2003 , 94, 7083-7090 | 2.5 | 8 |
| 241 | Improvement of CoSi ₂ thermal stability by cavity formation. <i>Applied Physics Letters</i> , 2001 , 79, 3419-3421 | 3.4 | 8 |
| 240 | Reaction of the Si/Ta/Ti system: C40 TiSi ₂ phase formation and in situ kinetics. <i>Journal of Applied Physics</i> , 2002 , 91, 633-638 | 2.5 | 8 |
| 239 | Precipitation of As in thermally oxidized ion-implanted Si crystals. <i>Applied Physics Letters</i> , 1998 , 73, 2633-2635 | 3.5 | 8 |
| 238 | Arsenic and boron diffusion in silicon from implanted cobalt silicide layers. <i>Semiconductor Science and Technology</i> , 1995 , 10, 1362-1367 | 1.8 | 8 |
| 237 | Titanium silicide as a diffusion source for phosphorous: precipitation and activation. <i>Applied Surface Science</i> , 1991 , 53, 190-195 | 6.7 | 8 |
| 236 | An energy dispersion spectroscopy technique to measure titanium silicide lateral diffusion. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1989 , 7, 2609-2613 | 2.9 | 8 |
| 235 | 3C-SiC Growth on Inverted Silicon Pyramids Patterned Substrate. <i>Materials</i> , 2019 , 12, | 3.5 | 8 |
| 234 | Ohmic contacts on n-type and p-type cubic silicon carbide (3C-SiC) grown on silicon. <i>Materials Science in Semiconductor Processing</i> , 2019 , 93, 295-298 | 4.3 | 7 |
| 233 | Nuclear fragment identification with E-E telescopes exploiting silicon carbide detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 925, 60-69 | 1.2 | 7 |
| 232 | Growth of Large-Area, Stress-Free, and Bulk-Like 3C-SiC (100) Using 3C-SiC-on-Si in Vapor Phase Growth. <i>Materials</i> , 2019 , 12, | 3.5 | 7 |
| 231 | Laser Annealing of P and Al Implanted 4H-SiC Epitaxial Layers. <i>Materials</i> , 2019 , 12, | 3.5 | 7 |
| 230 | 4H-SiC Epitaxial Layer Grown on 150 mm Automatic Horizontal Hot Wall Reactor PE106. <i>Materials Science Forum</i> , 2014 , 778-780, 121-124 | 0.4 | 7 |
| 229 | Study of microstructure deflections and film/substrate curvature under generalized stress fields and mechanical properties. <i>Thin Solid Films</i> , 2012 , 522, 26-29 | 2.2 | 7 |

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| 228 | Single Shockley Faults Enlargement during Micro-Photoluminescence Defects Mapping. <i>Materials Science Forum</i> , 2010 , 645-648, 555-558 | 0.4 | 7 |
| 227 | Raman Stress Characterization of Hetero-Epitaxial 3C-SiC Free Standing Structures. <i>Materials Science Forum</i> , 2011 , 679-680, 141-144 | 0.4 | 7 |
| 226 | Kinetics of the C49 \rightarrow C54 phase transition in TiSi ₂ : New indications from sheet resistance, infrared spectroscopy and molecular dynamics simulations. <i>Microelectronic Engineering</i> , 1997 , 37-38, 441-448 | 2.5 | 7 |
| 225 | Environment influence on Ti diffusion and layer degradation of a SiC/Ni ₂ Si/TiW/Au contact structure. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 966 | | 7 |
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| 125 | C49-C54 phase transition in nanometric titanium disilicide nanograins. <i>Microelectronic Engineering</i> , 2002 , 64, 189-196 | 2.5 | 3 |
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| 107 | Bow in 6 Inch High-Quality Off-Axis (111) 3C-SiC Films. <i>Materials Science Forum</i> , 2010 , 645-648, 167-170 | 0.4 | 2 |
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| 91 | Electrical Characterization of Nickel Silicide Contacts on Silicon Carbide. <i>Materials Science Forum</i> , 2002 , 389-393, 893-896 | 0.4 | 2 |
| 90 | Thermal Oxidation of High Dose Aluminum Implanted Silicon. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 2762 | 3.9 | 2 |
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| 75 | Large Area Growth of Cubic Silicon Carbide Using Close Space PVT by Application of Homoepitaxial Seeding. <i>Materials Science Forum</i> , 2019 , 1062, 74-78 | 0.4 | 2 |
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