## Francesco La Via

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5670515/publications.pdf

Version: 2024-02-01

389 papers 4,562 citations

28 h-index 205818 48 g-index

393 all docs 393 docs citations

times ranked

393

2344 citing authors

#	Article	IF	Citations
1	Richardson's constant in inhomogeneous silicon carbide Schottky contacts. Journal of Applied Physics, 2003, 93, 9137-9144.	1.1	217
2	The NUMEN project: NUclear Matrix Elements for Neutrinoless double beta decay. European Physical Journal A, 2018, 54, 1.	1.0	146
3	Structural and electrical characterisation of titanium and nickel silicide contacts on silicon carbide. Microelectronic Engineering, 2002, 60, 269-282.	1.1	122
4	From thin film to bulk 3C-SiC growth: Understanding the mechanism of defects reduction. Materials Science in Semiconductor Processing, 2018, 78, 57-68.	1.9	99
5	Mechanisms of growth and defect properties of epitaxial SiC. Applied Physics Reviews, 2014, 1, 031301.	<b>5.</b> 5	89
6	4H SiC Epitaxial Growth with Chlorine Addition. Chemical Vapor Deposition, 2006, 12, 509-515.	1.4	82
7	Highly reproducible ideal SiC Schottky rectifiers: effects of surface preparation and thermal annealing on the Ni/6H-SiC barrier height. Applied Physics A: Materials Science and Processing, 2003, 77, 827-833.	1.1	77
8	OHMIC CONTACTS TO SIC. International Journal of High Speed Electronics and Systems, 2005, 15, 781-820.	0.3	76
9	Schottky–ohmic transition in nickel silicide/SiC-4H system: is it really a solved problem?. Microelectronic Engineering, 2003, 70, 519-523.	1.1	72
10	Structural and electrical properties of Niâ^•Ti Schottky contacts on silicon carbide upon thermal annealing. Journal of Applied Physics, 2004, 96, 4313-4318.	1.1	66
11	Thin crystalline 3C-SiC layer growth through carbonization of differently oriented Si substrates. Journal of Applied Physics, 2007, 102, 023518.	1.1	66
12	4H-SiC epitaxial layer growth by trichlorosilane (TCS). Journal of Crystal Growth, 2008, 311, 107-113.	0.7	65
13	High performance SiC detectors for MeV ion beams generated by intense pulsed laser plasmas. Journal of Materials Research, 2013, 28, 87-93.	1.2	64
14	Improvement of high temperature stability of nickel contacts on n-type 6H–SiC. Applied Surface Science, 2001, 184, 295-298.	3.1	61
15	High-quality 6inch (111) 3C-SiC films grown on off-axis (111) Si substrates. Thin Solid Films, 2010, 518, S165-S169.	0.8	61
16	Heteroepitaxy of 3C-SiC on different on-axis oriented silicon substrates. Journal of Applied Physics, 2009, 105, .	1.1	58
17	Effects of annealing temperature on the degree of inhomogeneity of nickel-silicide/SiC Schottky barrier. Journal of Applied Physics, 2005, 98, 023713.	1.1	54
18	SiCILIAâ€"Silicon Carbide Detectors for Intense Luminosity Investigations and Applications. Sensors, 2018, 18, 2289.	2.1	51

#	Article	IF	CITATIONS
19	Advanced Residual Stress Analysis and FEM Simulation on Heteroepitaxial 3C–SiC for MEMS Application. Journal of Microelectromechanical Systems, 2011, 20, 745-752.	1.7	49
20	New Achievements on CVD Based Methods for SiC Epitaxial Growth. Materials Science Forum, 2005, 483-485, 67-72.	0.3	48
21	Structural defects in (100) 3C-SiC heteroepitaxy: Influence of the buffer layer morphology on generation and propagation of stacking faults and microtwins. Diamond and Related Materials, 2009, 18, 1440-1449.	1.8	46
22	A kinetic Monte Carlo method on super-lattices for the study of the defect formation in the growth of close packed structures. Journal of Computational Physics, 2007, 227, 1075-1093.	1.9	45
23	Defect Influence on Heteroepitaxial 3C-SiC Young's Modulus. Electrochemical and Solid-State Letters, 2011, 14, H161.	2.2	39
24	Electrical characterization of ultra-shallow junctions formed by diffusion from a CoSi/sub 2/ layer. IEEE Transactions on Electron Devices, 1997, 44, 526-534.	1.6	37
25	Genesis and evolution of extended defects: The role of evolving interface instabilities in cubic SiC. Applied Physics Reviews, 2020, 7, 021402.	<b>5.</b> 5	35
26	New Approaches and Understandings in the Growth of Cubic Silicon Carbide. Materials, 2021, 14, 5348.  Structural and electronic transitions in commitments	1.3	34
27	xmins:mmi="http://www.w3.org/1998/Math/MathML"> <mmi:mrow><mmi:mi mathvariant="normal">G</mmi:mi><mmi:msub><mmi:mi mathvariant="normal">e</mmi:mi><mmi:mn>2</mmi:mn></mmi:msub><mmi:mi mathvariant="normal">S</mmi:mi><mmi:msub><mmi:mi mathvariant="normal">S</mmi:mi><mmi:msub><mmi:mi mathvariant="normal">b</mmi:mi><mmi:msub><mmi:msub><mmi:mi< td=""><td>1.1</td><td>33</td></mmi:mi<></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:mrow>	1.1	33
28	mathvariant="normal"> 3C-SiC Film Growth on Si Substrates. ECS Transactions, 2011, 35, 99-116.	0.3	32
29	Electron backscattering from stacking faults in SiC by means ofab initioquantum transport calculations. Physical Review B, 2012, 85, .	1.1	31
30	Diffusion and outdiffusion of aluminium implanted into silicon. Semiconductor Science and Technology, 1993, 8, 488-494.	1.0	30
31	Defect formation and evolution in the step-flow growth of silicon carbide: A Monte Carlo study. Journal of Crystal Growth, 2008, 310, 971-975.	0.7	29
32	Electrical properties of high energy ion irradiated 4H-SiC Schottky diodes. Journal of Applied Physics, 2008, 104, .	1.1	27
33	Effect of the miscut direction in (111) 3C-SiC film growth on off-axis (111)Si. Applied Physics Letters, 2009, 94, 101907.	1.5	27
34	Silicon carbide detectors study for NUMEN project. EPJ Web of Conferences, 2016, 117, 10006.	0.1	27
35	The NUMEN Heavy Ion Multidetector for a Complementary Approach to the Neutrinoless Double Beta Decay. Universe, 2020, 6, 129.	0.9	26
36	Extended defects in 3C-SiC: Stacking faults, threading partial dislocations, and inverted domain boundaries. Acta Materialia, 2021, 213, 116915.	3.8	26

#	Article	IF	Citations
37	lon irradiation of inhomogeneous Schottky barriers on silicon carbide. Journal of Applied Physics, 2005, 97, 123502.	1.1	25
38	Fabrication of a Monolithic Implantable Neural Interface from Cubic Silicon Carbide. Micromachines, 2019, 10, 430.	1.4	25
39	Impact of Stacking Faults and Domain Boundaries on the Electronic Transport in Cubic Silicon Carbide Probed by Conductive Atomic Force Microscopy. Advanced Electronic Materials, 2020, 6, 1901171.	2.6	25
40	Thermal stability of thin CoSi[sub 2] layers on polysilicon implanted with As, BF[sub 2], and Si. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1998, 16, 1129.	1.6	24
41	Structural characterisation of titanium silicon carbide reaction. Microelectronic Engineering, 2001, 55, 375-381.	1.1	24
42	Silicon carbide pinch rectifiers using a dual-metal Ti-Ni/sub 2/Si Schottky barrier. IEEE Transactions on Electron Devices, 2003, 50, 1741-1747.	1.6	24
43	SiC-4H Epitaxial Layer Growth Using Trichlorosilane (TCS) as Silicon Precursor. Materials Science Forum, 2006, 527-529, 179-182.	0.3	24
44	Preferential oxidation of stacking faults in epitaxial off-axis (111) 3C-SiC films. Applied Physics Letters, 2009, 95, 111905.	1.5	24
45	Protrusions reduction in 3C-SiC thin film on Si. Journal of Crystal Growth, 2018, 498, 248-257.	0.7	24
46	Biocompatibility between Silicon or Silicon Carbide surface and Neural Stem Cells. Scientific Reports, 2019, 9, 11540.	1.6	24
47	Tailoring the Tiâ^•4H–SiC Schottky barrier by ion irradiation. Applied Physics Letters, 2004, 85, 6152-6154.	1.5	23
48	Photocatalytical activity of amorphous hydrogenated TiO2 obtained by pulsed laser ablation in liquid. Materials Science in Semiconductor Processing, 2016, 42, 28-31.	1.9	23
49	Effect of the linewidth reduction on the characteristic time spread in C49–C54 phase transition. Applied Physics Letters, 1998, 73, 3863-3865.	1.5	22
50	Extended study of the step-bunching mechanism during the homoepitaxial growth of SiC. Thin Solid Films, 2010, 518, S159-S161.	0.8	22
51	First Principles Investigation on the Modifications of the 4H-SiC Band Structure Due to the (4,4) and (3,5) Stacking Faults. Applied Physics Express, 2011, 4, 025802.	1.1	22
52	Carbonization and transition layer effects on 3C-SiC film residual stress. Journal of Crystal Growth, 2017, 473, 11-19.	0.7	22
53	Thermal stability of cobalt silicide stripes on Si (001). Journal of Applied Physics, 1999, 86, 3089-3095.	1.1	21
54	Temperature dependence of the c-axis mobility in 6H-SiC Schottky diodes. Applied Physics Letters, 2003, 83, 4181-4183.	1.5	21

#	Article	IF	CITATIONS
55	Growth Rate Effect on 3C-SiC Film Residual Stress on (100) Si Substrates. Materials Science Forum, 0, 645-648, 143-146.	0.3	21
56	Structural and electronic characterization of (2,33) bar-shaped stacking fault in 4H-SiC epitaxial layers. Applied Physics Letters, 2011, 98, .	1.5	21
57	The NUMEN Technical Design Report. International Journal of Modern Physics A, 2021, 36, .	0.5	21
58	Structural properties of fluorinated SiO2 thin films. Microelectronic Engineering, 2000, 50, 67-74.	1,1	20
59	Heteroepitaxial growth of (111) 3C-SiC on (110) Si substrate by second order twins. Applied Physics Letters, 2008, 92, 224102.	1.5	20
60	Low Stress Heteroepitaxial 3C-SiC Films Characterized by Microstructure Fabrication and Finite Elements Analysis. Journal of the Electrochemical Society, 2010, 157, H438.	1.3	20
61	Sublimation growth of bulk 3C-SiC using 3C-SiC-on-Si (1 0 0) seeding layers. Journal of Crystal Growth, 2017, 478, 159-162.	0.7	19
62	Nucleation and growth of C54 grains into C49 TiSi2 thin films monitored by micro-Raman imaging. Journal of Applied Physics, 2000, 88, 7013-7019.	1.1	18
63	Investigations of transient phase formation in Ti/Si thin film reaction. Journal of Applied Physics, 2004, 96, 361-368.	1.1	18
64	Raman Characterization of Doped 3C-SiC/Si for Different Silicon Substrates and C/Si Ratios. Materials Science Forum, 0, 645-648, 255-258.	0.3	18
65	Theoretical and experimental study of the role of cell-cell dipole interaction in dielectrophoretic devices: application to polynomial electrodes. BioMedical Engineering OnLine, 2014, 13, 71.	1.3	18
66	New thick silicon carbide detectors: Response to 14 MeV neutrons and comparison with single-crystal diamonds. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 946, 162637.	0.7	18
67	Status and Prospects of Cubic Silicon Carbide Power Electronics Device Technology. Materials, 2021, 14, 5831.	1.3	18
68	Structural properties of SiO2 films prepared by plasma-enhanced chemical vapor deposition. Materials Science in Semiconductor Processing, 2001, 4, 43-46.	1.9	17
69	Drift mobility in 4H-SiC Schottky diodes. Applied Physics Letters, 2005, 87, 142105.	1.5	17
70	High growth rate process in a SiC horizontal CVD reactor using HCl. Microelectronic Engineering, 2006, 83, 48-50.	1.1	17
71	Optical and electrical properties of 4H-SiC epitaxial layer grown with HCl addition. Journal of Applied Physics, 2007, 102, 043523.	1.1	17
72	Stacking faults evolution during epitaxial growths: Role of surface the kinetics. Surface Science, 2010, 604, 939-942.	0.8	17

#	Article	IF	Citations
73	Two-dimensional junction profiling by selective chemical etching: Applications to electron device characterization. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 414.	1.6	16
74	Formation of the TiSi2 C40 as an intermediate phase during the reaction of the Si/Ta/Ti system. Applied Physics Letters, 2001, 78, 1864-1866.	1.5	16
75	Schottky-Ohmic Transition in Nickel Silicide/SiC System: Is it Really a Solved Problem?. Materials Science Forum, 2003, 433-436, 721-724.	0.3	16
76	Theoretical Monte Carlo Study of the Formation and Evolution of Defects in the Homoepitaxial Growth of SiC. Materials Science Forum, 2008, 600-603, 135-138.	0.3	16
77	Very High Growth Rate Epitaxy Processes with Chlorine Addition. Materials Science Forum, 2007, 556-557, 157-160.	0.3	15
78	Thick Epitaxial Layers Growth by Chlorine Addition. Materials Science Forum, 0, 615-617, 55-60.	0.3	15
79	Monte Carlo study of the step flow to island nucleation transition for close packed structures. Surface Science, 2009, 603, 2226-2229.	0.8	15
80	SiC Films and Coatings. , 2012, , 17-61.		15
81	Interface state density evaluation of high quality hetero-epitaxial 3C–SiC(001) for high-power MOSFET applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 198, 14-19.	1.7	15
82	Temperature Investigation on 3C-SiC Homo-Epitaxy on Four-Inch Wafers. Materials, 2019, 12, 3293.	1.3	15
83	Precipitation of arsenic diffused into silicon from a TiSi2source. Journal of Applied Physics, 1991, 69, 726-731.	1.1	14
84	Roughness of thermal oxide layers grown on ion implanted silicon wafers. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1998, 16, 619.	1.6	14
85	High-resolution investigation of atomic interdiffusion during Co/Ni/Si phase transition. Journal of Applied Physics, 2003, 94, 231-237.	1.1	14
86	Microtwin reduction in 3C–SiC heteroepitaxy. Applied Physics Letters, 2010, 97, .	1.5	14
87	Stress fields analysis in 3C–SiC free-standing microstructures by micro-Raman spectroscopy. Thin Solid Films, 2012, 522, 20-22.	0.8	14
88	Patterned substrate with inverted silicon pyramids for 3C–SiC epitaxial growth: A comparison with conventional (001) Si substrate. Journal of Materials Research, 2013, 28, 94-103.	1.2	14
89	(Invited) Three-Dimensional Epitaxial Si <sub>1-X</sub> Ge <sub>x</sub> , Ge and SiC Crystals on Deeply Patterned Si Substrates. ECS Transactions, 2014, 64, 631-648.	0.3	14
90	Nuclear fragment identification with <mml:math altimg="si68.gif" display="inline" id="d1e1454" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>î"</mml:mi></mml:math> E-E telescopes exploiting silicon carbide detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 925, 60-69.	0.7	14

#	Article	IF	CITATIONS
91	Generation and Termination of Stacking Faults by Inverted Domain Boundaries in 3C-SiC. Crystal Growth and Design, 2020, 20, 3104-3111.	1.4	14
92	Electrical resistivity and Hall coefficient of C49, C40, and C54 TiSi2 thin-film phases. Journal of Applied Physics, 2002, 92, 3147-3151.	1.1	13
93	"Direct―measurement of the growth rate during the C49 to C54 transformation in TiSi2: Activation energy. Journal of Applied Physics, 2002, 92, 627-628.	1.1	13
94	Epitaxial Layers Grown with HCl Addition: A Comparison with the Standard Process. Materials Science Forum, 2006, 527-529, 163-166.	0.3	13
95	High Quality Single Crystal 3C-SiC(111) Films Grown on Si(111). Materials Science Forum, 0, 615-617, 145-148.	0.3	13
96	Ion Implantation Defects in 4H-SiC DIMOSFET. Materials Science Forum, 0, 858, 418-421.	0.3	13
97	Photo-electrochemical water splitting in silicon based photocathodes enhanced by plasmonic/catalytic nanostructures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 225, 128-133.	1.7	13
98	Growth of Large-Area, Stress-Free, and Bulk-Like 3C-SiC (100) Using 3C-SiC-on-Si in Vapor Phase Growth. Materials, 2019, 12, 2179.	1.3	13
99	Laser Annealing of P and Al Implanted 4H-SiC Epitaxial Layers. Materials, 2019, 12, 3362.	1.3	13
100	Ohmic contacts on n-type and p-type cubic silicon carbide (3C-SiC) grown on silicon. Materials Science in Semiconductor Processing, 2019, 93, 295-298.	1.9	13
101	Arsenic redistribution at theSiO2/Siinterface during oxidation of implanted silicon. Physical Review B, 1998, 58, 10990-10999.	1.1	12
102	On the "Step Bunching―Phenomena Observed on Etched and Homoepitaxially Grown 4H Silicon Carbide. Materials Science Forum, 0, 679-680, 358-361.	0.3	12
103	Reduction of the Surface Density of Single Shockley Faults by TCS Growth Process. Materials Science Forum, 0, 679-680, 67-70.	0.3	12
104	Microâ€Raman analysis and finiteâ€element modeling of 3 Câ€SiC microstructures. Journal of Raman Spectroscopy, 2013, 44, 299-306.	1.2	12
105	Defect Reduction in Epitaxial 3C-SiC on Si(001) and Si(111) by Deep Substrate Patterning. Materials Science Forum, 0, 821-823, 193-196.	0.3	12
106	3C-SiĐ <sub>i</sub> Hetero-Epitaxially Grown on Silicon Compliance Substrates and New 3C-SiĐ <sub>i</sub> Substrates for Sustainable Wide-Band-Gap Power Devices (CHALLENGE). Materials Science Forum, 2018, 924, 913-918.	0.3	12
107	3C-SiC Growth on Inverted Silicon Pyramids Patterned Substrate. Materials, 2019, 12, 3407.	1.3	12
108	Ni/4H-SiC interaction and silicide formation under excimer laser annealing for ohmic contact. Materialia, 2020, 9, 100528.	1.3	12

#	Article	IF	Citations
109	Characterization of 4H- and 6H-Like Stacking Faults in Cross Section of 3C-SiC Epitaxial Layer by Room-Temperature μ-Photoluminescence and μ-Raman Analysis. Materials, 2020, 13, 1837.	1.3	12
110	Epitaxial CoSi2 formation on Si(001) from an amorphous Co75W25 sputtered layer. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1992, 10, 2284.	1.6	11
111	Reduction of the C49-C54 TiSi 2 phase transformation temperature by reactive Ti deposition. Europhysics Letters, 1997, 40, 581-586.	0.7	11
112	Role of the substrate in the C49–C54 transformation of TiSi[sub 2]. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 721.	1.6	11
113	Defect-induced tetragonalization of the orthorhombic TiSi2 C49 phase: X-ray diffraction and first principles calculations. Applied Physics Letters, 2001, 78, 739-741.	1.5	11
114	Thermal oxidation of Si (001) single crystal implanted with Ge ions. Journal of Applied Physics, 2002, 91, 6754.	1.1	11
115	Optical investigation of bulk electron mobility in 3C–SiC films on Si substrates. Applied Physics Letters, 2010, 97, 142103.	1.5	11
116	A novel micro-Raman technique to detect and characterize 4H-SiC stacking faults. Journal of Applied Physics, $2014,116,116$	1.1	11
117	Stacking Fault Analysis of Epitaxial 3C-SiC on Si(001) Ridges. Materials Science Forum, 0, 858, 147-150.	0.3	11
118	3C-SiC Epitaxy on Deeply Patterned Si(111) Substrates. Materials Science Forum, 0, 858, 151-154.	0.3	11
119	Epitaxial Growth and Characterization of 4H-SiC for Neutron Detection Applications. Materials, 2021, 14, 976.	1.3	11
120	Measurement of Residual Stress and Young's Modulus on Micromachined Monocrystalline 3C-SiC Layers Grown on <111> and <100> Silicon. Micromachines, 2021, 12, 1072.	1.4	11
121	Dopant profile measurements in ion implanted 6H–SiC by scanning capacitance microscopy. Applied Surface Science, 2001, 184, 183-189.	3.1	10
122	Oxidation of ion implanted silicon carbide. Materials Science in Semiconductor Processing, 2001, 4, 345-349.	1.9	10
123	In situ investigations of the metal/silicon reaction in Ti/Si thin films capped with TiN: Volumetric analysis of the C49–C54 transformation. Applied Physics Letters, 2001, 79, 2184-2186.	1.5	10
124	Improvement of CoSi2 thermal stability by cavity formation. Applied Physics Letters, 2001, 79, 3419-3421.	1.5	10
125	TEM analysis of an additional metal-rich component at the C49–C54 transformation in Ti/Si thin films capped with TiN. Thin Solid Films, 2002, 408, 123-127.	0.8	10
126	Comparison between Different Schottky Diode Edge Termination Structures: Simulations and Experimental Results. Materials Science Forum, 2003, 433-436, 827-830.	0.3	10

#	Article	IF	Citations
127	3C-SiC Hetero-Epitaxial Films for Sensors Fabrication. Advances in Science and Technology, 0, , .	0.2	10
128	3C-SiC Heteroepitaxial Growth on Inverted Silicon Pyramids (ISP). Materials Science Forum, 0, 645-648, 135-138.	0.3	10
129	Complete Determination of the Local Stress Field in Epitaxial Thin Films Using Single Microstructure. Materials Science Forum, 2011, 679-680, 213-216.	0.3	10
130	4H-SiC Epitaxial Layer Grown on 150 mm Automatic Horizontal Hot Wall Reactor PE106. Materials Science Forum, 0, 778-780, 121-124.	0.3	10
131	Formation, Morphology, and Optical Properties of Electroless Deposited Gold Nanoparticles on 3C-SiC. Journal of Physical Chemistry C, 2017, 121, 4304-4311.	1.5	10
132	Silicon Carbide and MRI: Towards Developing a MRI Safe Neural Interface. Micromachines, 2021, 12, 126.	1.4	10
133	Effect of Nitrogen and Aluminum Doping on 3C-SiC Heteroepitaxial Layers Grown on 4° Off-Axis Si (100). Materials, 2021, 14, 4400.	1.3	10
134	On the origin of the premature breakdown of thermal oxide on 3C-SiC probed by electrical scanning probe microscopy. Applied Surface Science, 2020, 526, 146656.	3.1	10
135	High temperature annealing effects on the electrical characteristics of C implanted Si. Journal of Applied Physics, 1996, 79, 3464-3469.	1.1	9
136	Precipitation of As in thermally oxidized ion-implanted Si crystals. Applied Physics Letters, 1998, 73, 2633-2635.	1.5	9
137	Effects of N-induced heterogeneous nucleation and growth of cavities at the CoSi2/polycrystalline–silicon interface. Applied Physics Letters, 2002, 81, 55-57.	1.5	9
138	Dual metal SiC Schottky rectifiers with low power dissipation. Microelectronic Engineering, 2003, 70, 524-528.	1.1	9
139	Activation Study of Implanted N <sup>+</sup> in 6H-SiC by Scanning Capacitance Microscopy. Materials Science Forum, 2003, 433-436, 375-378.	0.3	9
140	Study of the connection between stacking faults evolution and step kinetics in misoriented 4H-SiC epitaxial growths. Surface Science, 2011, 605, L67-L69.	0.8	9
141	Electrical properties of extended defects in 4H-SiC investigated by photoinduced current measurements. Applied Physics Express, 2017, 10, 036601.	1.1	9
142	Growth and Coalescence of 3C-SiC on Si(111) Micro-Pillars by a Phase-Field Approach. Materials, 2019, 12, 3223.	1.3	9
143	3C-SiC grown on Si by using a Si1-xGex buffer layer. Journal of Crystal Growth, 2019, 519, 1-6.	0.7	9
144	Growth of thick [1â€1â€1]-oriented 3C-SiC films on T-shaped Si micropillars. Materials and Design, 2021, 208, 109833.	3.3	9

#	Article	IF	Citations
145	An energy dispersion spectroscopy technique to measure titanium silicide lateral diffusion. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1989, 7, 2609-2613.	0.9	8
146	Titanium silicide as a diffusion source for phosphorous: precipitation and activation. Applied Surface Science, 1991, 53, 190-195.	3.1	8
147	Arsenic and boron diffusion in silicon from implanted cobalt silicide layers. Semiconductor Science and Technology, 1995, 10, 1362-1367.	1.0	8
148	Twoâ€Dimensional Aluminum Diffusion in Silicon: Experimental Results and Simulations. Journal of the Electrochemical Society, 1995, 142, 1585-1590.	1.3	8
149	Determination of C54 nucleation site density in narrow stripes by sheet resistance measurements and $\hat{l}$ 4-Raman spectroscopy. Microelectronic Engineering, 2000, 50, 139-145.	1.1	8
150	Structural investigations of the C49–C54 transformation in TiSi2 thin films. Microelectronic Engineering, 2001, 55, 115-122.	1.1	8
151	Reaction of the Si/Ta/Ti system: C40 TiSi2 phase formation andin situkinetics. Journal of Applied Physics, 2002, 91, 633-638.	1.1	8
152	Reduction of the power dissipation in silicon carbide Schottky rectifiers by a dual-metal planar structure. Applied Physics Letters, 2002, 81, 1125-1127.	1.5	8
153	Correlation between microstructure control, density and diffusion barrier properties of TiN(O) films. Microelectronic Engineering, 2002, 60, 81-87.	1.1	8
154	Thermal expansion and stress development in the first stages of silicidation in Ti/Si thin films. Journal of Applied Physics, 2003, 94, 7083-7090.	1.1	8
155	Environment influence on Ti diffusion and layer degradation of a SiC/Ni[sub 2]Si/TiW/Au contact structure. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 966.	1.6	8
156	SiC-4H Epitaxial Layer Growth by Trichlorosilane (TCS) as Silicon Precursor at Very High Growth Rate. Materials Science Forum, 0, 600-603, 123-126.	0.3	8
157	Study of the Evolution of Basal Plane Dislocations during Epitaxial Growth: Role of the Surface Kinetics. Materials Science Forum, 2010, 645-648, 539-542.	0.3	8
158	Systematic First Principles Calculations of the Effects of Stacking Fault Defects on the 4H-SiC Band Structure. Materials Science Forum, 0, 645-648, 283-286.	0.3	8
159	Study of the Effects of Growth Rate, Miscut Direction and Postgrowth Argon Annealing on the Surface Morphology of Homoepitaxially Grown 4H Silicon Carbide Films. Materials Science Forum, 0, 740-742, 229-234.	0.3	8
160	Evaluation of 3C-SiC/Si residual stress and curvatures along different wafer direction. Materials Letters, 2014, 118, 130-133.	1.3	8
161	Dependence of PtSi Schottky diode electrical behaviour on the platinum film thickness and on the annealing process. Thin Solid Films, 1988, 161, 13-20.	0.8	7
162	Rapid thermal processing reliability of titanium silicide implanted with arsenic, boron and phosphorus. Applied Surface Science, 1991, 53, 377-382.	3.1	7

#	Article	IF	CITATIONS
163	Diffusion and precipitation of As from a CoSi2 diffusion source. Applied Surface Science, 1993, 73, 175-181.	3.1	7
164	Stress-induced precipitation of dopants diffused into Si and TiSi2and CoSi2implanted layers. Semiconductor Science and Technology, 1993, 8, 1196-1203.	1.0	7
165	Structure and defect characterization of epitaxial CoSi2 on Si(001) formed using an amorphous Co75W25 sputtered layer. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1993, 11, 1807.	1.6	7
166	Kinetics of the C49–C54 phase transition in TiSi2: New indications from sheet resistance, infrared spectroscopy and molecular dynamics simulations. Microelectronic Engineering, 1997, 37-38, 441-448.	1.1	7
167	Reaction and thermal stability of cobalt disilicide on polysilicon resulting from a Si/Ti/Co multilayer system. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 1448.	1.6	7
168	Investigation of C49–C54 TiSi2 transformation kinetics. Microelectronic Engineering, 2000, 50, 153-158.	1.1	7
169	Structural relationship of polycrystalline cobalt silicide lines to (001) silicon substrate and their thermal stability. Microelectronic Engineering, 2001, 55, 163-169.	1.1	7
170	Thermal oxidation of As and Ge implanted Si(). Surface Science, 2003, 532-535, 746-753.	0.8	7
171	Study of TiW/Au Thin Films Metallization Stack for High Temperature and Harsh Environment Devices on 6H Silicon Carbide. Materials Science Forum, 2004, 457-460, 873-876.	0.3	7
172	Effect of a Ti Cap Layer on the Diffusion of Co Atoms during CoSi[sub 2] Reaction. Electrochemical and Solid-State Letters, 2005, 8, G47.	2.2	7
173	Film Morphology and Process Conditions in Epitaxial Silicon Carbide Growth via Chlorides Route. Materials Science Forum, 2007, 556-557, 93-96.	0.3	7
174	Single Shockley Faults Enlargement during Micro-Photoluminescence Defects Mapping. Materials Science Forum, 0, 645-648, 555-558.	0.3	7
175	Raman Stress Characterization of Hetero-Epitaxial 3C-SiC Free Standing Structures. Materials Science Forum, 2011, 679-680, 141-144.	0.3	7
176	Advanced Stress Analysis by Micro-Structures Realization on High Quality Hetero-Epitaxial 3C-SiC for MEMS Application. Materials Science Forum, 2011, 679-680, 133-136.	0.3	7
177	Study of microstructure deflections and film/substrate curvature under generalized stress fields and mechanical properties. Thin Solid Films, 2012, 522, 26-29.	0.8	7
178	Analysis on 3C-SiC Layer Grown on Pseudomorphic-Si/Si <sub>1-x</sub> Ge <sub>x</sub> /Si(001) Heterostructures. Materials Science Forum, 0, 806, 21-25.	0.3	7
179	Stress Relaxation Mechanism after Thinning Process on 4H-SiC Substrate. Materials Science Forum, 0, 924, 535-538.	0.3	7
180	Titanium silicide as a diffusion source for arsenic. Journal of Applied Physics, 1990, 67, 7174-7176.	1.1	6

#	Article	IF	CITATIONS
181	Boron diffusion in Co74Ti26amorphous alloy. Applied Physics Letters, 1992, 60, 701-703.	1.5	6
182	Hole mobility in aluminium implanted silicon. Semiconductor Science and Technology, 1997, 12, 1433-1437.	1.0	6
183	Schottky-Ohmic Transition in Nickel Silicide/SiC-4H System: the Effect of Non Uniform Schottky Barrier. Materials Science Forum, 2004, 457-460, 861-864.	0.3	6
184	Temperature Stability of Breakdown Voltage on SiC Power Schottky Diodes with Different Barrier Heights. Materials Science Forum, 2005, 483-485, 933-936.	0.3	6
185	Thin SiC-4H Epitaxial Layer Growth by Trichlorosilane (TCS) as Silicon Precursor with Very Abrupt Junctions. Materials Science Forum, 2008, 600-603, 127-130.	0.3	6
186	Defects in High Energy Ion Irradiated 4H-SiC. Materials Science Forum, 0, 615-617, 397-400.	0.3	6
187	Atomistic and Continuum Simulations of the Homo-Epitaxial Growth of SiC. Materials Science Forum, 0, 615-617, 73-76.	0.3	6
188	Wafer Cut Effect on Hetero-Epitaxial 3C-SiC Film for MEMS Application. Electrochemical and Solid-State Letters, 2012, 15, H182.	2.2	6
189	Stress nature investigation on heteroepitaxial 3C–SiC film on (100) Si substrates. Journal of Materials Research, 2013, 28, 129-135.	1.2	6
190	Micro-Raman Characterization of 4H-SiC Stacking Faults. Materials Science Forum, 0, 778-780, 378-381.	0.3	6
191	Physical Vapor Growth of Double Position Boundary Free, Quasi-Bulk 3C-SiC on High Quality 3C-SiC on Si CVD Templates. Materials Science Forum, 0, 858, 89-92.	0.3	6
192	Detection of Crystallographic Defects in 3C-SiC by Micro-Raman and Micro-PL Analysis. Materials Science Forum, 0, 897, 303-306.	0.3	6
193	Solving the critical thermal bowing in 3C-SiC/Si(111) by a tilting Si pillar architecture. Journal of Applied Physics, 2018, 123, 185703.	1.1	6
194	Growth of 4H-SiC Epitaxial Layer through Optimization of Buffer Layer. Materials Science Forum, 0, 924, 84-87.	0.3	6
195	Limitations during Vapor Phase Growth of Bulk (100) 3C-SiC Using 3C-SiC-on-SiC Seeding Stacks. Materials, 2019, 12, 2353.	1.3	6
196	Simulation of the Growth Kinetics in Group IV Compound Semiconductors. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800597.	0.8	6
197	X-ray diffraction on stacking faults in 3C-SiC epitaxial microcrystals grown on patterned Si(0 0 1) wafers. Journal of Crystal Growth, 2019, 507, 70-76.	0.7	6
198	Overgrowth of Protrusion Defects during Sublimation Growth of Cubic Silicon Carbide Using Free-Standing Cubic Silicon Carbide Substrates. Crystal Growth and Design, 2021, 21, 4046-4054.	1.4	6

#	Article	IF	CITATIONS
199	NURE: An ERC project to study nuclear reactions for neutrinoless double beta decay. , 2017, , .		6
200	Impact of Nitrogen on the Selective Closure of Stacking Faults in 3C-SiC. Crystal Growth and Design, 2022, 22, 4996-5003.	1.4	6
201	Pulsed laser melting and resolidification of metal silicide layers. International Journal of Thermophysics, 1993, 14, 383-396.	1.0	5
202	Secondary defect annihilation in ion beam processed SixGe1â^'x layers using titanium silicide. Applied Physics Letters, 1995, 67, 2931-2933.	1.5	5
203	Ge ion implantation in Si for the fabrication of Si/GexSi1-x heterojunction transistors. Materials Chemistry and Physics, 1996, 46, 156-160.	2.0	5
204	Characterization of C coimplanted GexSi1â^'xepitaxial layers formed by high dose Ge ion implantation in (100) Si. Journal of Applied Physics, 1996, 79, 3456-3463.	1.1	5
205	Cobalt silicide thermal stability: from blanket thin film to submicrometer lines. Solid-State Electronics, 1999, 43, 1039-1044.	0.8	5
206	X-Ray Reflectivity Study of the Structural Properties of SiO[sub 2] and SiOF Thin Films. Journal of the Electrochemical Society, 2001, 148, F221.	1.3	5
207	Silicon Carbide: Defects and Devices. Solid State Phenomena, 2005, 108-109, 663-670.	0.3	5
208	Heteroepitaxial Growth of 3C-SiC on Silicon-Porous Silicon-Silicon (SPS) Substrates. ECS Transactions, 2006, 3, 287-298.	0.3	5
209	Temperature dependence of the c-axis drift mobility in 4H–SiC. Microelectronic Engineering, 2006, 83, 45-47.	1.1	5
210	3C-SiC Heteroepitaxy on (100), (111) and (110) Si Using Trichlorosilane (TCS) as the Silicon Precursor Materials Science Forum, 0, 600-603, 243-246.	0.3	5
211	Mechanical Proprieties and Residual Stress Evaluation on Heteroepitaxial 3C-SiC/Si for MEMS Application. Materials Science Forum, 0, 711, 51-54.	0.3	5
212	Structural Characterization of Heteroepitaxial 3C-SiC. Materials Science Forum, 0, 711, 27-30.	0.3	5
213	Fast Growth Rate Epitaxy by Chloride Precursors. Materials Science Forum, 2013, 740-742, 167-172.	0.3	5
214	Correlation between macroscopic and microscopic stress fields: Application to the 3C–SiC/Si heteroepitaxy. Journal of Materials Research, 2013, 28, 104-112.	1.2	5
215	Stacking Faults Defects on 3C-SiC Homo-Epitaxial Films. Materials Science Forum, 0, 924, 124-127.	0.3	5
216	High Resolution Investigation of Stacking Fault Density by HRXRD and STEM. Materials Science Forum, 0, 963, 346-349.	0.3	5

#	Article	IF	CITATIONS
217	Thermal Annealing of High Dose P Implantation in 4H-SiC. Materials Science Forum, 0, 963, 399-402.	0.3	5
218	3C-SiC Bulk Growth: Effect of Growth Rate and Doping on Defects and Stress. Materials Science Forum, 0, 1004, 120-125.	0.3	5
219	Silicon Carbide characterization at the n_TOF spallation source with quasi-monoenergetic fast neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 983, 164578.	0.7	5
220	Prospects of Bulk Growth of 3C-SiC Using Sublimation Growth. Materials Science Forum, 0, 1004, 113-119.	0.3	5
221	Formation and characterization of epitaxial CoSi2 on Si(001). Applied Surface Science, 1993, 73, 108-116.	3.1	4
222	Formation and characterization of Si/CoSi2/Si epitaxial heterostructures. Applied Surface Science, 1993, 73, 135-140.	3.1	4
223	Improved thermal stability of cobalt silicide formed by ion beam assisted deposition on polysilicon. Applied Surface Science, 1995, 91, 19-23.	3.1	4
224	Atomic force microscopy on SiO2 layers grown on Ge implanted silicon. Nuclear Instruments & Methods in Physics Research B, 1996, 116, 482-485.	0.6	4
225	Thermal stability of thin CoSi2 layers grown on amorphous silicon. Microelectronic Engineering, 1997, 37-38, 475-481.	1.1	4
226	EXAFS investigation of Co sites in CoSi2 film grown by ion beam-assisted deposition. Microelectronic Engineering, 1997, 37-38, 491-497.	1.1	4
227	Structural relationship of polycrystalline cobalt silicide lines to (001) silicon substrate. Applied Physics Letters, 1999, 75, 2924-2926.	1.5	4
228	Texturing, surface energetics and morphology in the C49–C54 transformation of TiSi2. Solid-State Electronics, 1999, 43, 1069-1074.	0.8	4
229	Enhanced oxidation of ion-damaged 6H-SiC. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 661-667.	0.6	4
230	Effect of lateral dimensional scaling on the thermal stability of thin CoSi[sub 2] layers reacted on polycrystalline silicon. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 717.	1.6	4
231	Kinetics of the C49–C54 transformation by micro-Raman imaging. Microelectronic Engineering, 2001, 55, 109-114.	1.1	4
232	Effect of a thin Ta layer on the C49–C54 transition. Microelectronic Engineering, 2001, 55, 123-128.	1.1	4
233	Ion-Irradiation Effect on the Ni/SiC Interface Reaction. Materials Science Forum, 2001, 353-356, 255-258.	0.3	4
234	Simulation of the transformation from the C49 to the C54 phase of TiSi2 in blanket films and narrow conductors. Applied Physics Letters, 2001, 78, 1514-1516.	1.5	4

#	Article	IF	Citations
235	First stages of silicidation in Ti/Si thin films. Microelectronic Engineering, 2003, 70, 166-173.	1.1	4
236	C49-C54 phase transition in nanometric titanium disilicide grains. Journal of Applied Physics, 2004, 95, 1977-1985.	1.1	4
237	Effects of Thermal Treatments on the Structural and Electrical Properties of Ni/Ti Bilayers Schottky Contacts on 6H-SiC. Materials Science Forum, 2004, 457-460, 865-868.	0.3	4
238	Towards Large Area (111)3C-SiC Films Grown on Off-Oriented (111)Si. Materials Science Forum, 0, 615-617, 149-152.	0.3	4
239	Low temperature reaction of point defects in ion irradiated 4H–SiC. Diamond and Related Materials, 2009, 18, 39-42.	1.8	4
240	Residual Stress Measurement and Simulation of 3C-SiC Single and Poly Crystal Cantilevers. Materials Science Forum, 0, 645-648, 865-868.	0.3	4
241	Publisher's Note: Defect Influence on Heteroepitaxial 3C-SiC Young's Modulus [Electrochem. Solid-State Lett., 14, H161 (2011)]. Electrochemical and Solid-State Letters, 2011, 14, S3.	2.2	4
242	Raman Study of Bulk Mobility in 3C-SiC Heteroepitaxy. Materials Science Forum, 0, 679-680, 221-224.	0.3	4
243	Large area optical characterization of 3 and 4 inches 4H–SiC wafers. Thin Solid Films, 2012, 522, 30-32.	0.8	4
244	Morphology and distribution of carbon nanostructures in a deposit produced by arc discharge in liquid nitrogen. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1005-1008.	1.3	4
245	Fracture property and quantitative strain evaluation of hetero-epitaxial single crystal 3C-SiC membrane. Materials Research Express, 2014, 1, 015912.	0.8	4
246	4H-SiC Defects Evolution by Thermal Processes. Materials Science Forum, 0, 897, 181-184.	0.3	4
247	Silicon Carbide devices for radiation detection and measurements. Journal of Physics: Conference Series, 2020, 1561, 012013.	0.3	4
248	Detector Response to D-D Neutrons and Stability Measurements with 4H Silicon Carbide Detectors. Materials, 2021, 14, 568.	1.3	4
249	Mechanism of stacking fault annihilation in 3C-SiC epitaxially grown on Si(001) by molecular dynamics simulations. CrystEngComm, 2021, 23, 1566-1571.	1.3	4
250	Initial investigations into the MOS interface of freestanding 3C-SiC layers for device applications. Semiconductor Science and Technology, 2021, 36, 055006.	1.0	4
251	Characterization of protrusions and stacking faults in 3C-SiC grown by sublimation epitaxy using 3C-SiC-on-Si seeding layers. Advanced Materials Proceedings, 2021, 2, 774-778.	0.2	4
252	Effect of the Oxidation Process on Carrier Lifetime and on SF Defects of 4H SiC Thick Epilayer for Detection Applications. Micromachines, 2022, 13, 1042.	1.4	4

#	Article	IF	Citations
253	Kinetics of the C49-C54 transformation in patterned and blanket TiSi <sub>2</sub> films: a comparison Materials Research Society Symposia Proceedings, 1998, 514, 219.	0.1	3
254	Effects of a Ta interlayer on the titanium silicide reaction: C40 formation and scalability of the TiSi2 process. Microelectronic Engineering, 2002, 60, 197-203.	1.1	3
255	C49–C54 phase transition in nanometric titanium disilicide nanograins. Microelectronic Engineering, 2002, 64, 189-196.	1.1	3
256	Origin of the C49–C54 volume anomaly in TiSi2 thin films: an in-situ XRD and TEM analysis. Microelectronic Engineering, 2002, 64, 181-187.	1.1	3
257	Effects of implantation defects on the carrier concentration of 6H-SiC. Applied Physics A: Materials Science and Processing, 2006, 82, 543-547.	1.1	3
258	Effect of Dopant Concentration on High Voltage 4H-SiC Schottky Diodes. Materials Research Society Symposia Proceedings, 2006, 911, 2.	0.1	3
259	Carbonization Study of Different Silicon Orientations. Materials Science Forum, 2007, 556-557, 171-174.	0.3	3
260	Optimisation of Epitaxial Layer Growth with HCl Addition by Optical and Electrical Characterization. Materials Science Forum, 2007, 556-557, 137-140.	0.3	3
261	Compensation Effects in 7 MeV C Irradiated n-Doped 4H-SiC. Materials Science Forum, 2008, 600-603, 619-622.	0.3	3
262	Multiscale simulation for epitaxial silicon carbide growth by chlorides route. Thin Solid Films, 2010, 518, S6-S11.	0.8	3
263	Single Shockley Faults Evolution Under UV Optical Pumping. Materials Research Society Symposia Proceedings, 2010, 1246, 1.	0.1	3
264	(Invited) High Quality 3C-SiC for MOS Applications. ECS Transactions, 2011, 41, 273-282.	0.3	3
265	Extended Characterization of the Stress Fields in the Heteroepitaxial Growth of 3C-SiC on Silicon for Sensors and Device Applications. Materials Science Forum, 0, 717-720, 517-520.	0.3	3
266	Stress Evaluation on Hetero-Epitaxial 3C-SiC Film on (100) Si Substrates. Materials Science Forum, 2012, 717-720, 521-524.	0.3	3
267	Strain Field Analysis of 3C-SiC Free-Standing Microstructures by Micro-Raman and Theoretical Modelling. Materials Science Forum, 2012, 711, 55-60.	0.3	3
268	Effects of the Growth Rate on the Quality of 4H Silicon Carbide Films for MOSFET Applications. Materials Science Forum, 0, 778-780, 95-98.	0.3	3
269	Evaluation of Mechanical and Optical Properties of Hetero-Epitaxial Single Crystal 3C-SiC Squared-Membrane. Materials Science Forum, 0, 778-780, 457-460.	0.3	3
270	Electrically Trimmable Phase Change Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> Resistors With Tunable Temperature Coefficient of Resistance. IEEE Transactions on Electron Devices, 2014, 61, 2879-2885.	1.6	3

#	Article	IF	CITATIONS
271	MeV ion beams generated by intense pulsed laser monitored by Silicon Carbide detectors. Journal of Physics: Conference Series, 2014, 508, 012009.	0.3	3
272	Laser plasma monitored by silicon carbide detectors. Radiation Effects and Defects in Solids, 2015, 170, 303-324.	0.4	3
273	3C-SiC Polycrystalline Films on Si for Photovoltaic Applications. Materials Science Forum, 0, 821-823, 189-192.	0.3	3
274	Electrical Properties Evaluation on High Quality Hetero-Epitaxial 3C-SiC(001) for MOSFET Applications. Materials Science Forum, 2015, 821-823, 773-776.	0.3	3
275	Silicon Carbide detectors for nuclear physics experiments at high beam luminosity. Journal of Physics: Conference Series, 2018, 1056, 012032.	0.3	3
276	High Quality 4H-SiC Epitaxial Layer by Tuning CVD Process. Materials Science Forum, 0, 963, 91-96.	0.3	3
277	A study on free-standing 3C-SiC bipolar power diodes. Applied Physics Letters, 2021, 118, .	1.5	3
278	Study of the role of particle-particle dipole interaction in dielectrophoretic devices for biomarkers identification. Lecture Notes in Electrical Engineering, 2015, , 9-12.	0.3	3
279	Large Area Growth of Cubic Silicon Carbide Using Close Space PVT by Application of Homoepitaxial Seeding. Materials Science Forum, 0, 1062, 74-78.	0.3	3
280	Review of Sublimation Growth of SiC Bulk Crystals. Materials Science Forum, 0, 1062, 104-112.	0.3	3
281	Arsenic redistribution and out-diffusion in TiSi2-Si bilayered structures. Semiconductor Science and Technology, 1990, 5, 831-835.	1.0	2
282	Effect of lateral dimension scaling on thermal stability of thin CoSi <sub>2</sub> layers on polysilicon implanted with Si. Materials Research Society Symposia Proceedings, 1998, 514, 381.	0.1	2
283	Estimation of The Critical Radius for The Nucleation of the C54 Phase in C49 TiSi2: Role of The Difference in Density. Materials Research Society Symposia Proceedings, 1999, 580, 129.	0.1	2
284	Thermal Oxidation of High Dose Aluminum Implanted Silicon. Journal of the Electrochemical Society, 2000, 147, 2762.	1.3	2
285	Electrical Characterization of Nickel Silicide Contacts on Silicon Carbide. Materials Science Forum, 2002, 389-393, 893-896.	0.3	2
286	Electrical properties of TiSi2 clusters in poly Si. Microelectronic Engineering, 2002, 64, 197-204.	1.1	2
287	Study of CoSi2 thermal stability improved by interfacial cavities. Microelectronic Engineering, 2002, 64, 151-156.	1.1	2
288	Influence of defects on the kinetic of C49–C54 TiSi2 transformation. Applied Physics Letters, 2004, 85, 5577-5579.	1.5	2

#	Article	IF	CITATIONS
289	Defects in He <sup>+</sup> Irradiated 6H-SiC Probed by DLTS and LTPL Measurements. Materials Science Forum, 2004, 457-460, 493-496.	0.3	2
290	Time resolved CoSi2 reaction in presence of Ti and TiN cap layers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 114-115, 232-235.	1.7	2
291	Point defect production efficiency in ion irradiated 4H–SiC. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 279-282.	0.6	2
292	Growth of 3C-SiC on Si: Influence of Process Pressure. Materials Science Forum, 0, 600-603, 211-214.	0.3	2
293	Extended Study of the Step-Bunching Mechanism during the Homoepitaxial Growth of SiC. Materials Science Forum, 2009, 615-617, 117-120.	0.3	2
294	Bow in 6 Inch High-Quality Off-Axis (111) 3C-SiC Films. Materials Science Forum, 2010, 645-648, 167-170.	0.3	2
295	A Study of Structural Defects in 3C-SiC Hetero-Epitaxial Films. Materials Science Forum, 0, 645-648, 371-374.	0.3	2
296	Monte Carlo study of morphological surface instabilities during misoriented epitaxial growth of cubic and hexagonal polytypes. AIP Conference Proceedings, 2010, , .	0.3	2
297	Chloride-Based CVD of 4H-SiC at High Growth Rates on Substrates with Different Off-Angles. Materials Science Forum, 2012, 717-720, 113-116.	0.3	2
298	Study of the Impact of Growth and Post-Growth Processes on the Surface Morphology of 4H Silicon Carbide Films. Materials Science Forum, 2012, 717-720, 149-152.	0.3	2
299	Growth and processing of heteroepitaxial 3C-SiC films for electronic devices applications. Materials Research Society Symposia Proceedings, 2012, 1433, 25.	0.1	2
300	Crystal recovery from Alâ€implantation induced damaging in 3Câ€SiC films. Physica Status Solidi - Rapid Research Letters, 2012, 6, 226-228.	1.2	2
301	3C-SiC Growth on (001) Si Substrates by Using a Multilayer Buffer. Materials Science Forum, 0, 740-742, 263-266.	0.3	2
302	Monte Carlo Study of the Early Growth Stages of 3C-SiC on Misoriented and 6H-Sic Substrates. Materials Science Forum, 2014, 778-780, 238-242.	0.3	2
303	Monte Carlo Study of the early Growth Stages of 3C-SiC on Misoriented <11-20> and <1-100> 6H-SiC Substrates: Role of Step-Island Interaction. Materials Science Forum, 2015, 821-823, 201-204.	0.3	2
304	4H-SiC Defects Analysis by Micro Raman Spectroscopy. Materials Science Forum, 0, 821-823, 335-338.	0.3	2
305	High growth rate 3C-SiC growth: from hetero-epitaxy to homo-epitaxy. MRS Advances, 2016, 1, 3643-3647.	0.5	2
306	Optimization of Ion Implantation processes for 4H-SiC DIMOSFET. MRS Advances, 2016, 1, 3673-3678.	0.5	2

#	Article	IF	CITATIONS
307	Voids-Free 3C-SiC/Si Interface for High Quality Epitaxial Layer. Materials Science Forum, 2016, 858, 159-162.	0.3	2
308	Hydrogen Flux Influence on Homo-Epitaxial 4H-SiC Doping Concentration Profile for High Power Application. Materials Science Forum, 2016, 858, 197-200.	0.3	2
309	Growing bulk-like 3C-SiC from seeding material produced by CVD. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600429.	0.8	2
310	Fabrication and Characterization of Ohmic Contacts to 3C-SiC Layers Grown on Silicon. Materials Science Forum, 0, 963, 485-489.	0.3	2
311	Electrical Properties of Thermal Oxide on 3C-SiC Layers Grown on Silicon. Materials Science Forum, 2019, 963, 479-482.	0.3	2
312	Vapor Growth of 3C-SiC Using the Transition Layer of 3C-SiC on Si CVD Templates. Materials Science Forum, 2019, 963, 149-152.	0.3	2
313	4H-SiC MOSFET Source and Body Laser Annealing Process. Materials Science Forum, 0, 1004, 705-711.	0.3	2
314	Enhanced oxidation of ion-damaged 6H-SiC. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 661-667.	0.6	1
315	High Reproducible Ideal SiC Schottky Rectifiers by Controlling Surface Preparation and Thermal Treatments. , 2002, , .		1
316	C49 defect influence on the C49–C54 transition. Microelectronic Engineering, 2003, 70, 215-219.	1.1	1
317	Time resolved study on Co/Ni/a-Si phase transition during isothermal annealing at 400 ${\rm \hat{A}}^{\circ}{\rm C}$ . Microelectronic Engineering, 2003, 70, 191-195.	1.1	1
318	Low Power Dissipation SiC Schottky Rectifiers with a Dual-Metal Planar Structure. Materials Science Forum, 2003, 433-436, 819-822.	0.3	1
319	Electrical Characterization of Inhomogeneous Ni <sub>2</sub> /Si/SiC Schottky Contacts. Materials Science Forum, 2004, 457-460, 869-872.	0.3	1
320	lon-Beam Induced Modifications of Titanium Schottky Barrier on 4H-SiC. Materials Science Forum, 2005, 483-485, 729-732.	0.3	1
321	Defect Evolution in Ion Irradiated 6H-SiC Epitaxial Layers. Materials Science Forum, 2005, 483-485, 485-488.	0.3	1
322	Effects of Epitaxial Layer Growth Parameters on the Defect Density and on the Electrical Characteristics of Schottky Diodes. Materials Science Forum, 2005, 483-485, 429-432.	0.3	1
323	Optimisation of Epitaxial Layer Growth by Schottky Diodes Electrical Characterization. Materials Science Forum, 2006, 527-529, 199-202.	0.3	1
324	Effect of Mo interlayer on thermal stability of polycrystalline NiSi thin films. Journal of Applied Physics, 2007, 101, 063544.	1.1	1

#	Article	IF	CITATIONS
325	Residual Stress Measurement on Hetero-Epitaxial 3C-SiC Films. Materials Science Forum, 2009, 615-617, 629-632.	0.3	1
326	Systematic first principles calculations of the effects of stacking faults defects on the 4H-SiC band structure. Materials Research Society Symposia Proceedings, 2010, 1246, 1.	0.1	1
327	Evolution of Extended Defects during Epitaxial Growths: A Monte Carlo Study. Materials Science Forum, 2011, 679-680, 48-54.	0.3	1
328	Advanced Residual Stress Analysis on the Heteroepitaxial Growth of 3C-SiC/Si for MEMS Application. ECS Transactions, 2011, 35, 123-131.	0.3	1
329	Micro-Raman Analysis of a Micromachined 3C-SiC Cantilever. Materials Science Forum, 2012, 717-720, 525-528.	0.3	1
330	Consideration on the Thermal Expansion of 3C-SiC Epitaxial Layer on Si Substrates. Materials Science Forum, 2012, 711, 31-34.	0.3	1
331	Monte Carlo Study of the Hetero-Polytypical Growth of Cubic on Hexagonal Silicon Carbide Polytypes. Materials Science Forum, 0, 740-742, 295-300.	0.3	1
332	Post-Growth Process Effect on Hetero-Epitaxial 3C-SiC Wafer Bow and Residual Stress. Materials Science Forum, 2013, 740-742, 301-305.	0.3	1
333	Introduction to Silicon Carbide â€" Materials, Processing and Devices â€" <b>ADDENDUM</b> . Journal of Materials Research, 2013, 28, 786-786.	1.2	1
334	Curvature Evaluation of Si/3C-SiC/Si Hetero-Structure Grown by Chemical Vapor Deposition. Materials Science Forum, 0, 778-780, 255-258.	0.3	1
335	Epitaxial Growth on 150 mm 2° off Wafers. Materials Science Forum, 2015, 821-823, 157-160.	0.3	1
336	Hetero-Epitaxial Single Crystal 3C-SiC Opto-Mechanical Pressure Sensor. Materials Science Forum, 2015, 821-823, 902-905.	0.3	1
337	Electrical Properties of Defects in 4H-SiC Investigated by Photo-Induced-Currents Measurements. Materials Science Forum, 2016, 858, 380-383.	0.3	1
338	The nuclear matrix elements of $0v\hat{l}^2\hat{l}^2$ decay and the NUMEN project at INFN-LNS. Journal of Physics: Conference Series, 2016, 730, 012006.	0.3	1
339	3C-SiC Bulk Sublimation Growth on CVD Hetero-Epitaxial Seeding Layers. Materials Science Forum, 0, 897, 15-18.	0.3	1
340	The NUMEN project @ LNS: Status and perspectives. AIP Conference Proceedings, 2017, , .	0.3	1
341	Measuring nuclear reaction cross sections to extract information on neutrinoless double beta decay. Journal of Physics: Conference Series, 2018, 966, 012021.	0.3	1
342	The NUMEN project @ LNS: Status and perspectives. AIP Conference Proceedings, 2019, , .	0.3	1

#	Article	IF	CITATIONS
343	Recent results on heavy-ion induced reactions of interest for neutrinoless double beta decay at INFN-LNS. Journal of Physics: Conference Series, 2020, 1643, 012074.	0.3	1
344	Graphite Assisted P and Al Implanted 4H-SiC Laser Annealing. Materials Science Forum, 0, 1062, 204-208.	0.3	1
345	The Development of Monolithic Silicon Carbide Intracortical Neural Interfaces for Long-Term Human Implantation. Materials Science Forum, 0, 1062, 195-203.	0.3	1
346	Titanium Silicidation and Secondary Defect Annihilation in ION Beam Processed Sige Layers. Materials Research Society Symposia Proceedings, 1995, 402, 149.	0.1	0
347	Electrical Characterization of Ultra-Shallow Junctions Formed by Diffusion From a CoSi2 Diffusion Source. Materials Research Society Symposia Proceedings, 1996, 427, 493.	0.1	0
348	Surface and interface roughness after thermal oxidation of As, B and Si implanted silicon wafers. , 0, ,		0
349	EXAFS investigation of Co sites in CoSi <sub>2</sub> film crown by ion beam assisted deposition. , 1997,		0
350	Structure, Morphology and Kinetics of the C49 to C54 Phase Transformation In Tisi2 Thin Films. Materials Research Society Symposia Proceedings, 1997, 481, 593.	0.1	0
351	Al redistribution into SiO/sub 2//Si system during oxidation of high dose Al-implanted silicon. , 0, , .		0
352	Effect of a thin Ta layer on the C49-C54 transition Materials Research Society Symposia Proceedings, 2000, 611, 1.	0.1	0
353	Investigation on C54 nucleation and growth by micro-Raman imaging. Materials Research Society Symposia Proceedings, 2000, 611, 1.	0.1	0
354	Effect of lateral dimensional scaling on the thermal stability of poly-CoSi2 reacted on Si (001). Microelectronic Engineering, 2000, 50, 179-186.	1.1	0
355	Effects of a Ta Interlayer on the Titanium Silicide Reaction: C40 Formation and Higher Scalability of the TiSi2 Process Materials Research Society Symposia Proceedings, 2001, 670, 1.	0.1	0
356	Structural and Electrical Characterisation of Nickel Silicides Contacts on Silicon Carbide. Materials Research Society Symposia Proceedings, 2001, 680, 1.	0.1	0
357	Thermal stability of SiO[sub 2]/CoSi[sub 2]/polysilicon multilayer structures improved by cavity formation. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 880.	1.6	0
358	Quantitative High-Resolution Two-Dimensional Profiling of SiC by Scanning Capacitance Microscopy. Materials Science Forum, 2002, 389-393, 655-658.	0.3	0
359	Structural characterization and oxygen concentration profiling of a Co/Si multilayer structure. Nuclear Instruments & Methods in Physics Research B, 2004, 219-220, 732-736.	0.6	0
360	High Growth Rate Process in a SiC Horizontal Reactor with HCl Addition: Structural and Electrical Characterization. Materials Research Society Symposia Proceedings, 2006, 911, 1.	0.1	0

#	Article	IF	CITATIONS
361	Void Formation in Differently Oriented Si in the Early Stage of SiC Growth. Materials Science Forum, 0, 600-603, 215-218.	0.3	O
362	Evolution of Stacking Faults Defects During Epitaxial Growths: Role of Surface Kinetics. Materials Research Society Symposia Proceedings, 2010, 1246, 1.	0.1	0
363	Optical characterization of bulk mobility in 3C-SiC films grown on different orientation of Si substrates. , 2010, , .		0
364	High Power Density UV Optical Stress for Quality Evaluation of 4H-SiC Epitaxial Layers. Electrochemical and Solid-State Letters, 2011, 14, H457.	2.2	0
365	High Power Density UV Optical Stress for Quality Evaluation of 4H-SiC Epitaxial Layers. ECS Transactions, 2011, 35, 117-122.	0.3	0
366	Effects of Al Ion Implantation on 3C-SiC Crystal Structure. Materials Science Forum, 2013, 740-742, 613-616.	0.3	0
367	Stress Relaxation Study in 3C-SiC Microstructures by Micro-Raman Analysis and Finite Element Modeling. Materials Science Forum, 0, 740-742, 673-676.	0.3	0
368	Strain Evaluation and Fracture Properties of Hetero-Epitaxial Single Crystal 3C-SiC Squared Membrane. Materials Science Forum, 2014, 806, 11-14.	0.3	0
369	Monte Carlo study of the early growth stages of 3C-SiC on misoriented <11-20> and <1-100> 6H-SiC substrates: role of step-island interaction. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1606-1610.	0.8	0
370	Correlations between Crystal Quality and Electrical Properties by Means of Simultaneous Photoluminescence and Photocurrent Analysis. Materials Science Forum, 2015, 821-823, 257-260.	0.3	0
371	Double Step Annealing for the Recovering of Ion Implantation Defectiveness in 4H-SiC DIMOSFET. Materials Science Forum, 0, 924, 357-360.	0.3	0
372	Recent results on Heavy-Ion induced reactions of interest for $0\hat{l}/2\hat{l}^2\hat{l}^2$ decay. Journal of Physics: Conference Series, 2019, 1308, 012002.	0.3	0
373	New experimental campaign of NUMEN project. AIP Conference Proceedings, 2019, , .	0.3	0
374	The NUMEN project @ LNS: Status and perspectives. AIP Conference Proceedings, 2019, , .	0.3	0
375	Recent results on heavy-ion induced reactions of interest for neutrinoless double beta decay at INFN-LNS. EPJ Web of Conferences, 2019, 223, 01009.	0.1	0
376	Electrical Characterisation of Thick 3C-SiC Layers Grown on Off-Axis 4H-SiC Substrates. Materials Science Forum, 0, 963, 353-356.	0.3	0
377	Recent results on heavy-ion direct reactions of interest for $0\hat{1}/2\hat{1}^2\hat{1}^2$ decay at INFN - LNS. Journal of Physics: Conference Series, 2020, 1610, 012004.	0.3	0
378	Editorial for the Special Issue on SiC Based Miniaturized Devices. Micromachines, 2020, 11, 405.	1.4	0

#	Article	IF	CITATIONS
379	NUMEN project @ LNS: Status and perspectives. , 2017, , .		O
380	New results from the NUMEN project. , 2019, , .		0
381	10.1063/1.5132300.1., 2020,,.		O
382	(Invited) Stacking Faults in 3C-SiC: From the Crystal Structure, to the Electrical Behavior. ECS Meeting Abstracts, 2020, MA2020-02, 1762-1762.	0.0	0
383	Impact of N Doping on 3C-SiC Defects. Materials Science Forum, 0, 1062, 69-73.	0.3	O
384	Electrical Scanning Probe Microscopy Investigation of Schottky and Metal-Oxide Junctions on Hetero-Epitaxial 3C-SiÐ; on Silicon. Materials Science Forum, 0, 1062, 400-405.	0.3	0
385	Residual Stress Measurement by Raman on Surface-Micromachined Monocrystalline 3C-SiC on Silicon on insulator. Materials Science Forum, 0, 1062, 320-324.	0.3	O
386	Automatic Image Analysis of Stackingfault. Materials Science Forum, 0, 1062, 283-287.	0.3	0
387	Neutron Detection Study through Simulations with Fluka. Materials Science Forum, 0, 1062, 509-513.	0.3	O
388	Effect of N and Al Doping on 3C-SiC Stacking Faults. Materials Science Forum, 0, 1062, 64-68.	0.3	0
389	The development of a fully MRI-compatible silicon carbide neural interface. , 2022, , 161-195.		o