

Publicazioni scientifiche di Leonida Miglio

#.L	= letter journal	Totale = 51
#.R	= rassegna scritta su invito dell'editor	Totale = 20
#.A	= articolo regolare su rivista con referee	Totale = 98
#.a	= articolo da <i>proceeding</i> su rivista con referee	Totale = 42
#.p	= <i>proceeding</i> su volume con referee interno.	Totale = 37

- 248.A** M. Albani, S. Assali, M. A. Verheijen, S. Koelling, R. Bergamaschini, F. Pezzoli, E. P. A. M. Bakkers, **L. Miglio**, “*Critical strain for Sn incorporation into spontaneously graded Ge/GeSn core/shell nanowires*”, [Nanoscale](#) **10**, 7250 (2018).
- 247.A** M. Albani, L. Ghisalberti, R. Bergamaschini, M. Friedl, M. Salvalaglio, A. Voigt, F. Montalenti, G. Tütüncüoğlu, A. Fontcuberta i Morral, **L. Miglio**, “*Growth kinetics and morphological analysis of homoepitaxial GaAs fins by theory and experiment*”, [Physical Review Materials](#) **2**, 093404 (2018).
- 246.A** L. Gagliano, M. Albani, M. A. Verheijen, E. P. A. M. Bakkers, **L. Miglio**, “*Twofold origin of strain-induced bending in core-shell nanowires: the GaP/InGaP case*”, [Nanotechnology](#) **29**, 315703 (2018).
- 245.R** F. Montalenti, F. Rovaris, R. Bergamaschini, **L. Miglio**, M. Salvalaglio, G. Isella, F. Isa, H. von Känel, “*Dislocation-Free SiGe/Si Heterostructures*”, [Crystals](#) **8**, 257 (2018).
- 244.A** M. Albani, A. Marzegalli, R. Bergamaschini, M. Mauceri, D. Crippa, F. La Via, H. von Känel, **L. Miglio**, “*Solving the critical thermal bowing in 3C-SiC/Si(111) by a tilting Si pillar architecture*”, [Journal of Applied Physics](#) **123**, 185703 (2018).
- 243.A** M. Meduña, F. Isa, A. Jung, A. Marzegalli, M. Albani, G. Isella, K. Zweiacker, **L. Miglio**, H. von Känel, “*Lattice tilt and strain mapped by X-ray scanning nanodiffraction in compositionally graded SiGe/Si microcrystals*”, [Journal of Applied Crystallography](#) **51**, 368 (2018).
- 242.L** F. Biccari, L. Esposito, C. Mannucci, A. G. Taboada, S. Bietti, A. Ballabio, A. Fedorov, G. Isella, H. von Känel, **L. Miglio**, S. Sanguinetti, A. Vinattieri, M. Gurioli, “*Site-Controlled Natural GaAs(111) Quantum Dots Fabricated on Vertical GaAs/Ge Microcrystals on Deeply Patterned Si(001) Substrates*”, [Nanoscience and Nanotechnology Letters](#) **9**, 1108 (2017).
- 241.A** A. Marzegalli, A. Cortinovis, F. Basso Basset, E. Bonera, F. Pezzoli, A. Scaccabarozzi, F. Isa, G. Isella, P. Zaumseil, G. Capellini, T. Schroeder, **L. Miglio**, “*Exceptional thermal strain reduction by a tilting pillar architecture: Suspended Ge layers on Si (001)*”, [Materials & Design](#) **116**, 144 (2017).
- 240.a** M. Salvalaglio, R. Bergamaschini, R. Backofen, A. Voigt, F. Montalenti, **L. Miglio**, “*Phase-field simulations of faceted Ge/Si-crystal arrays, merging into a suspended film*”, [Applied Surface Science](#) **391**, 33 (2017).

- 239.L** L. Gagliano, A. Belabbes, M. Albani, S. Assali, M. A. Verheijen, **L. Miglio**, F. Bechstedt, J. E. M. Haverkort, E. P. A. M. Bakkers, “*Pseudodirect to Direct Compositional Crossover in Wurtzite GaP/In_xGa_{1-x}P Core-Shell Nanowires*”, [Nano Letters](#) **16**, 7930 (2016).
- 238.A** R. Bergamaschini, S. Bietti, A. Castellano, C. Frigeri, C. V. Falub, A. Scaccabarozzi, M. Bollani, H. von Känel, **L. Miglio**, S. Sanguinetti, “*Kinetic growth mode of epitaxial GaAs on Si(001) micro-pillars*”, [Journal of Applied Physics](#) **120**, 245702 (2016).
- 237.A** M. Bollani, D. Chrastina, R. Ruggeri, G. Nicotra, L. Gagliano, E. Bonera, V. Mondiali, A. Marzegalli, F. Montalenti, C. Spinella, **L. Miglio**, “*Anisotropic extended misfit dislocations in overcritical SiGe films by local substrate patterning*”, [Nanotechnology](#) **27**, 425301 (2016).
- 236.a** A. Scaccabarozzi, S. Binetti, M. Acciarri, G. Isella, R. Campesato, G. Gori, M. C. Casale, F. Mancarella, M. Noack, H. von Känel, **L. Miglio**, “*Integration of InGaP/GaAs/Ge triple-junction solar cells on deeply patterned silicon substrates*”, [Progress in Photovoltaics: Research and Applications](#) **24**, 1368 (2016).
- 235.A** O. Skibitzki, G. Capellini, Y. Yamamoto, P. Zaumseil, M. A. Schubert, T. Schroeder, A. Ballabio, R. Bergamaschini, M. Salvalaglio, **L. Miglio**, F. Montalenti, “*Reduced-Pressure Chemical Vapor Deposition Growth of Isolated Ge Crystals and Suspended Layers on Micrometric Si Pillars*”, [ACS Applied Materials & Interfaces](#) **8**, 26374 (2016).
- 234.A** M. Meduña, C. V. Falub, F. Isa, A. Marzegalli, D. Chrastina, G. Isella, **L. Miglio**, A. Dommann, H. von Känel, “*Lattice bending in three-dimensional Ge microcrystals studied by X-ray nanodiffraction and modelling*”, [Journal of Applied Crystallography](#) **49**, 976 (2016).
- 233.L** F. Pezzoli, A. Giorgioni, K. Gallacher, F. Isa, P. Biagioni, R. W. Millar, E. Gatti, E. Grilli, E. Bonera, G. Isella, D. J. Paul, **L. Miglio**, “*Disentangling nonradiative recombination processes in Ge micro-crystals on Si substrates*”, [Applied Physics Letters](#) **108**, 262103 (2016).
- 232.A** R. Bergamaschini, M. Salvalaglio, A. Scaccabarozzi, F. Isa, C. V. Falub, G. Isella, H. von Känel, F. Montalenti, **L. Miglio**, “*Temperature-controlled coalescence during the growth of Ge crystals on deeply patterned Si substrates*”, [Journal of Crystal Growth](#) **440**, 86 (2016).
- 231.A** A. G. Taboada, M. Meduña, M. Salvalaglio, F. Isa, T. Kreiliger, C. V. Falub, E. Barthazy Meier, E. Müller, **L. Miglio**, G. Isella, H. von Känel, “*GaAs/Ge crystals grown on Si substrates patterned down to the micron scale*”, [Journal of Applied Physics](#) **119**, 055301 (2016).
- 230.A** F. Isa, F. Pezzoli, G. Isella, M. Meduña, C. V. Falub, E. Müller, T. Kreiliger, A. G. Taboada, H. von Känel, **L. Miglio**, “*Three-dimensional Ge/SiGe multiple quantum wells deposited on Si(001) and Si(111) patterned substrates*”, [Semiconductor Science and Technology](#) **30**, 105001 (2015).
- 229.A** F. Isa, C. Chèze, M. Siekacz, C. Hauswald, J. Lähnemann, S. Fernández-Garrido, T. Kreiliger, M. Ramsteiner, Y. A. R. Dasilva, O. Brandt, G. Isella, R. Erni, R. Calarco, H. Riechert, **L. Miglio**, “*Integration of GaN Crystals on Micropatterned Si(001) Substrates by Plasma-Assisted Molecular Beam Epitaxy*”, [Crystal Growth & Design](#) **15**, 4886 (2015).
- 228.A** M. Salvalaglio, R. Bergamaschini, F. Isa, A. Scaccabarozzi, G. Isella, R. Backofen, A. Voigt, F. Montalenti, G. Capellini, T. Schroeder, H. von Känel, **L. Miglio**, “*Engineered Coale-*

- science by Annealing 3D Ge Microstructures into High-Quality Suspended Layers on Si”, *ACS Applied Materials & Interfaces* **7**, 19219 (2015).
- 227.a** H. Groiss, M. Glaser, A. Marzegalli, F. Isa, G. Isella, **L. Miglio**, F. Schäffler, “*Burgers Vector Analysis of Vertical Dislocations in Ge Crystals by Large-Angle Convergent Beam Electron Diffraction*”, *Microscopy and Microanalysis* **21**, 637 (2015).
- 226.p** H. Känel, **L. Miglio**, D. Crippa, T. Kreiliger, M. Mauceri, M. Puglisi, F. Mancarella, R. Anzalone, N. Piluso, F. La Via, “*Defect Reduction in Epitaxial 3C-SiC on Si(001) and Si(111) by Deep Substrate Patterning*”, *Materials Science Forum* **821-823**, 193 (2015).
- 225.p** S. Sanguinetti, S. Bietti, D. Scarpellini, A. Ballabio, **L. Miglio**, G. Isella, L. Esposito, J. Frigerio, A. Fedorov, M. Gurioli, F. Biccari, M. Abbarchi, A. Vinattieri, “*GaAs nanostructures on Si platform*”, in *2015 Opto-Electronics and Communications Conference (OECC)* (2015), p. 1.
- 224.L** A. G. Taboada, T. Kreiliger, C. V. Falub, F. Isa, M. Salvalaglio, L. Wewior, D. Fuster, M. Richter, E. Uccelli, P. Niedermann, A. Neels, F. Mancarella, B. Alén, **L. Miglio**, A. Dommann, G. Isella, H. von Känel, “*Strain relaxation of GaAs/Ge crystals on patterned Si substrates*”, *Applied Physics Letters* **104**, 022112 (2014).
- 223.L** V. Mondiali, M. Bollani, D. Chrastina, R. Rubert, G. Chahine, M. I. Richard, S. Cecchi, L. Gagliano, E. Bonera, T. Schüllli, **L. Miglio**, “*Strain release management in SiGe/Si films by substrate patterning*”, *Applied Physics Letters* **105**, 242103 (2014).
- 222.A** A. Scaccabarozzi, S. Bietti, A. Fedorov, H. von Känel, **L. Miglio**, S. Sanguinetti, “*Photoluminescence study of the strain relaxation of GaAs crystals grown on deeply patterned Si substrates*”, *Journal of Crystal Growth* **401**, 559 (2014).
- 221.a** H. von Känel, F. Isa, C. V. Falub, E. J. Barthazy, E. Muller Gubler, D. Chrastina, G. Isella, T. Kreiliger, A. G. Taboada, M. Meduna, R. Kaufmann, A. Neels, A. Dommann, P. Niedermann, F. Mancarella, M. Mauceri, M. Puglisi, D. Crippa, F. La Via, R. Anzalone, N. Piluso, R. Bergamaschini, A. Marzegalli, **L. Miglio**, “*Three-Dimensional Epitaxial Si_{1-x}Ge_x, Ge and SiC Crystals on Deeply Patterned Si Substrates*”, *ECS Transactions* **64**, 631 (2014).
- 220.A** F. Pezzoli, F. Isa, G. Isella, C. V. Falub, T. Kreiliger, M. Salvalaglio, R. Bergamaschini, E. Grilli, M. Guzzi, H. von Känel, **L. Miglio**, “*Ge Crystals on Si Show Their Light*”, *Physical Review Applied* **1**, 044005 (2014).
- 219.L** S. Conesa-Boj, F. Boioli, E. Russo-Averchi, S. Dunand, M. Heiss, D. Ruffer, N. Wyrsh, C. Ballif, **L. Miglio**, A. F. i. Morral, “*Plastic and Elastic Strain Fields in GaAs/Si Core-Shell Nanowires*”, *Nano Letters* **14**, 1859 (2014).
- 218.a** C. V. Falub, T. Kreiliger, F. Isa, A. G. Taboada, M. Meduña, F. Pezzoli, R. Bergamaschini, A. Marzegalli, E. Müller, D. Chrastina, G. Isella, A. Neels, P. Niedermann, A. Dommann, **L. Miglio**, H. von Känel, “*3D heteroepitaxy of mismatched semiconductors on silicon*”, *Thin Solid Films* **557**, 42 (2014).
- 217.a** C. Frigeri, S. Bietti, A. Scaccabarozzi, R. Bergamaschini, C. Falub, V. Grillo, M. Bollani, E. Bonera, P. Niedermann, H. von Känel, S. Sanguinetti, **L. Miglio**, “*A Structural Characterization of GaAs MBE Grown on Si Pillars*”, *Acta Physica Polonica A* **125**, 986 (2014).

- 216.R** T. Kreiliger, C. V. Falub, F. Isa, G. Isella, D. Chrastina, R. Bergamaschini, A. Marzegalli, R. Kaufmann, P. Niedermann, A. Neels, E. Müller, M. Meduña, A. Dommann, **L. Miglio**, H. von Känel, “*Epitaxial Ge-crystal arrays for X-ray detection*”, [Journal of Instrumentation](#) **9**, C03019 (2014).
- 215.R** **L. Miglio**, R. Bergamaschini, A. Marzegalli, F. Isa, D. Chrastina, G. Isella, P. Niedermann, A. Dommann, C. V. Falub, E. Müller, H. von Känel, “*”Divide et Impera” in detector technology*”, *Il Nuovo Saggiatore* **29**, 7 (2013).
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- 213.A** C. V. Falub, M. Meduña, D. Chrastina, F. Isa, A. Marzegalli, T. Kreiliger, A. G. Taboada, G. Isella, **L. Miglio**, A. Dommann, H. von Känel, “*Perfect crystals grown from imperfect interfaces*”, [Scientific Reports](#) **3**, 2276 (2013).
- 212.R** R. Bergamaschini, F. Isa, C. Falub, P. Niedermann, E. Müller, G. Isella, H. von Känel, **L. Miglio**, “*Self-aligned Ge and SiGe three-dimensional epitaxy on dense Si pillar arrays*”, [Surface Science Reports](#) **68**, 390 (2013).
- 211.A** F. Isa, A. Marzegalli, A. G. Taboada, C. V. Falub, G. Isella, F. Montalenti, H. von Känel, **L. Miglio**, “*Onset of vertical threading dislocations in $Si_{1-x}Ge_x/Si(001)$ at a critical Ge concentration*”, [APL Materials](#) **1**, 052109 (2013).
- 210.A** A. Marzegalli, F. Isa, H. Groiss, E. Müller, C. V. Falub, A. G. Taboada, P. Niedermann, G. Isella, F. Schäffler, F. Montalenti, H. von Känel, **L. Miglio**, “*Unexpected Dominance of Vertical Dislocations in High-Misfit Ge/Si(001) Films and Their Elimination by Deep Substrate Patterning*”, [Advanced Materials](#) **25**, 4408 (2013).
- 209.R** F. Montalenti, D. Scopece, **L. Miglio**, “*One-dimensional Ge nanostructures on Si(001) and Si(1 1 10): Dominant role of surface energy*”, [Comptes Rendus Physique](#) **14**, 542 (2013).
- 208.L** J. J. Zhang, A. Rastelli, O. G. Schmidt, D. Scopece, **L. Miglio**, F. Montalenti, “*Self-organized evolution of Ge/Si(001) into intersecting bundles of horizontal nanowires during annealing*”, [Applied Physics Letters](#) **103**, 083109 (2013).
- 207.L** E. Bonera, R. Gatti, G. Isella, G. Norga, A. Picco, E. Grilli, M. Guzzi, M. Texier, B. Pichaud, H. von Känel, **L. Miglio**, “*Dislocation distribution across ultrathin silicon-on-insulator with epitaxial SiGe stressor*”, [Applied Physics Letters](#) **103**, 053104 (2013).
- 206.L** S. A. Dayeh, W. Tang, F. Boini, K. L. Kavanagh, H. Zheng, J. Wang, N. H. Mack, G. Swadener, J. Y. Huang, **L. Miglio**, K.-N. Tu, S. T. Picraux, “*Direct Measurement of Coherency Limits for Strain Relaxation in Heteroepitaxial Core/Shell Nanowires*”, [Nano Letters](#) **13**, 1869 (2013).
- 205.p** C. V. Falub, T. Kreiliger, A. G. Taboada, F. Isa, D. Chrastina, G. Isella, E. Müller, M. Meduña, R. Bergamaschini, A. Marzegalli, E. Bonera, F. Pezzoli, **L. Miglio**, P. Niedermann, A. Neels, A. Pezous, R. Kaufmann, A. Dommann, H. Kanel, “*Three dimensional heteroepitaxy: A new path for monolithically integrating mismatched materials with silicon*”, in [CAS 2012 \(International Semiconductor Conference\)](#) (2012), p. 45.

- 204.L** J. J. Zhang, G. Katsaros, F. Montalenti, D. Scopece, R. O. Rezaev, C. Mickel, B. Rellinghaus, **L. Miglio**, S. De Franceschi, A. Rastelli, O. G. Schmidt, “*Monolithic Growth of Ultrathin Ge Nanowires on Si(001)*”, *Physical Review Letters* **109**, 085502 (2012).
- 203.L** M. Grydlik, F. Boioli, H. Groiss, R. Gatti, M. Brehm, F. Montalenti, B. Devincre, F. Schäffler, **L. Miglio**, “*Misfit dislocation gettering by substrate pit-patterning in SiGe films on Si(001)*”, *Applied Physics Letters* **101**, 013119 (2012).
- 202.L** B. Sanduijav, D. Scopece, D. Matei, G. Chen, F. Schäffler, **L. Miglio**, G. Springholz, “*One-Dimensional to Three-Dimensional Ripple-to-Dome Transition for SiGe on Vicinal Si (1 1 10)*”, *Physical Review Letters* **109**, 025505 (2012).
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- 200.p** C. V. Falub, F. Isa, T. Kreiliger, R. Bergamaschini, A. Marzegalli, A. G. Taboada, D. Chrastina, G. Isella, E. Muller, P. Niedermann, A. Dommann, A. Neels, A. Pezous, M. Meduna, **L. Miglio**, H. von Känel, “*Space-Filling Arrays of Three-Dimensional Epitaxial Ge and Si_{1-x}Ge_x Crystals*”, in *2012 International Silicon-Germanium Technology and Device Meeting (ISTDM)* (2012), p. 1.
- 199.A** C. V. Falub, H. von Känel, F. Isa, R. Bergamaschini, A. Marzegalli, D. Chrastina, G. Isella, E. Muller, P. Niedermann, **L. Miglio**, “*Scaling Hetero-Epitaxy from Layers to Three-Dimensional Crystals*”, *Science* **335**, 1330 (2012).
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- 197.L** G. Chen, B. Sanduijav, D. Matei, G. Springholz, D. Scopece, M. J. Beck, F. Montalenti, **L. Miglio**, “*Formation of Ge Nanoripples on Vicinal Si (1 1 10): From Stranski-Krastanow Seeds to a Perfectly Faceted Wetting Layer*”, *Physical Review Letters* **108**, 055503 (2012).
- 196.p** M. Acciarri, A. Le Donne, M. Morgano, L. Caccamo, **L. Miglio**, S. Marchionna, R. Moneta, M. Meschia, S. Binetti, “*Hybrid sputtering/evaporation deposition of Cu(In,Ga)Se₂ thin film solar cells*”, *Energy Procedia* **10**, 138 (2011).
- 195.R** **L. Miglio**, F. Montalenti, “*Modelling the evolution of germanium islands on silicon(001) thin films*”, in “*Silicon-germanium (SiGe) nanostructures: Production, properties and applications in electronics*”, a cura di Y. Shiraki e N. Usami (Woodhead, 2011), p. 211.
- 194.a** J. Cervenka, H. Kosina, S. Selberherr, J. Zhang, N. Hrauda, J. Stangl, G. Bauer, G. Vastola, A. Marzegalli, F. Montalenti, **L. Miglio**, “*Strained MOSFETs on ordered SiGe dots*”, *Solid State Electronics* **65-66**, 81 (2011).
- 193.A** G. Vastola, M. Grydlik, M. Brehm, T. Fromherz, G. Bauer, F. Boioli, **L. Miglio**, F. Montalenti, “*How pit facet inclination drives heteroepitaxial island positioning on patterned substrates*”, *Physical Review B* **84**, 155415 (2011).
- 192.a** M. Acciarri, S. Binetti, A. Le Donne, B. Lorenzi, L. Caccamo, **L. Miglio**, R. Moneta, S. Marchionna, M. Meschia, “*Development of a hybrid sputtering/evaporation process for Cu(In,Ga)Se₂ thin film solar cells*”, *Crystal Research and Technology* **46**, 871 (2011).

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- 190.L** F. Boioli, R. Gatti, M. Grydlik, M. Brehm, F. Montalenti, **L. Miglio**, “*Assessing the delay of plastic relaxation onset in SiGe islands grown on pit-patterned Si(001) substrates*”, [Applied Physics Letters](#) **99**, 033106 (2011).
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- 186.a** V. Jovanovi, C. Biasotto, L. K. Nanver, J. Moers, D. Grtzmacher, J. Gerharz, G. Mussler, J. Cingel, J. J. Zhang, G. Bauer, O. G. Schmidt, **L. Miglio**, “*n-Channel MOSFETs Fabricated on SiGe Dots for Strain-Enhanced Mobility*”, [IEEE Electron Device Letters](#) **31**, 1083 (2010).
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- 183.L** A. Trita, F. Bragheri, I. Cristiani, V. Degiorgio, D. Chrastina, D. Colombo, G. Isella, H. von Känel, F. Gramm, E. Müller, M. Döbeli, E. Bonera, R. Gatti, F. Pezzoli, E. Grilli, M. Guzzi, **L. Miglio**, “*Impact of misfit dislocations on wavefront distortion in Si/SiGe/Si optical waveguides*”, [Optics Communications](#) **282**, 4716 (2009).
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