

ELENCO DELLE PUBBLICAZIONI DEL PROF. GIORGIO GUIZZETTI

1. G.Guizzetti, E.Reguzzoni e G.Samoggia:
Sviluppo di un rivelatore a luce infrarossa
Rendiconti del contratto di ricerca SNAM Progetti - Università di Pavia n.5152 - Parte Ia: "Preparazione di films PbS " (marzo 1969).
2. G.Guizzetti, E.Reguzzoni e G.Samoggia:
Sviluppo di un rivelatore a luce infrarossa
Rendiconti del contratto di ricercaSNAM Progetti - Università di Pavia n.5152 - Parte 2a: "Preparazione di eterogiunzioni PbS-Ge " (dicembre 1969).
3. G.Guizzetti, E.Reguzzoni e G.Samoggia:
Proprietà opto-elettroniche delle eterogiunzioni PbS-Ge
Alta Frequenza **39**, 554 (1970).
4. G.Guizzetti, E.Reguzzoni e G.Samoggia:
Sviluppo di un rivelatore a luce infrarossa
Rendiconti del contratto di ricerca SNAM Progetti - Università di Pavia n.5152 - Parte 3a: "Caratterizzazione dei fotodiodi PbS-Ge " (giugno 1970).
5. G.Guizzetti, E.Reguzzoni and G.Samoggia:
Experiments on PbS-Ge heterojunctions
Proc. Int. Conf. Phys. Chem. Semicond. Heterojunctions and Layer Structures, Editor G. Szigetì (Académiai Kiadó, Budapest, 1971) Vol.2, p. 293.
6. G.Guizzetti, E.Reguzzoni e G.Samoggia:
Sviluppo di un rivelatore a luce infrarossa
Rendiconti del contratto di ricerca SNAM Progetti - Università di Pavia n.5152 - Parte 4a: "Fotodiodi PbS-Ge e PbSe-Ge " (marzo 1971).
7. G.Guizzetti, F.Filippini, E.Reguzzoni and G.Samoggia:
Electrical properties and spectral response of PbS-Ge heterojunctions
Phys. Status Solidi A **6**, 605 (1971).
- 8.G.Guizzetti, E.Reguzzoni and G.Samoggia:
A new method for the determination of ΔE_c in heterojunctions
Phys. Status Solidi A **9**, 223 (1972).
9. G.Guizzetti, L.Nosenzo, E.Reguzzoni and G.Samoggia:
Some aspects of vacuum ultraviolet thermorefectance spectra of semiconductors
Surface Science **37**, 508 (1973).
10. G.Guizzetti, L.Nosenzo, E.Reguzzoni and G.Samoggia:
Thermorefectance spectra of diamond and zinblende semiconductors in the vacuum ultraviolet region
Phys. Rev. B **9**, 640 (1974).
11. G.Guizzetti, L.Nosenzo, E.Reguzzoni and G.Samoggia:
Optical investigations of π -bands in graphite
Phys. Rev. Letters **31**, 154 (1973).
12. G.Bellodi, A.Borghesi, G.Guizzetti, L.Nosenzo, E.Reguzzoni, G. Samoggia:
Optical properties and electronic structure of graphite
Proc. Int. Conf. Semimetals and Narrow-Gap Semiconductors (Cardiff, 1973).
13. G.Bellodi, A.Borghesi, G.Guizzetti, L.Nosenzo, E.Reguzzoni, G.Samoggia:
Analysis of infrared optical transitions in graphite
Phys. Rev. B **12**, 5951 (1975).
14. G.Guizzetti,L.Nosenzo, E.Reguzzoni and G.Samoggia:

Reflectance and thermorefectance studies of CrCl₃, CrBr₃, NiCl₂ and NiBr₂ crystals
Phys. Rev. B **14**, 4622 (1976).

15. G.Guizzetti, L.Nosenzo and E.Reguzzoni:
Optical properties and electronic structure of alkali halides by thermorefectivity
Phys. Rev. B **15**, 5921 (1977).

16. G.Guizzetti, L.Nosenzo and I.Pollini:
Optical studies of transition metal halides in the 2 to 10 eV region
Proc. V Int. Conf. Vacuum UV Radiation Physics (Montpellier - FR, 5-9 Sept. 1977, ed. by M.C. Castex et al., Vol.2 p.79.

17. G.Guizzetti e A.Piazzoli:
"Natura, uomo e leggi fisiche"
Corso di Fisica in 3 volumi per Licei Scientifici, Ed. Minerva Italica (1977).

18. G.Guizzetti, L.Nosenzo, E.Reguzzoni and G.Samoggia:
Influence of the magnetic transition on the optical properties of CrBr₃
Solid State Commun. **29**, 793 (1979).

19. G.Guizzetti, E.Reguzzoni and I.Pollini:
Fundamental optical properties of α -RuCl₃
Physics Letters **70A**, 34 (1979).

20. G.Guizzetti, L.Nosenzo, I.Pollini and E.Reguzzoni:
Optical properties and electronic structures of InSe, GaSe and GaS semiconductors in the 2-9 eV range
Proc. VI Int. Conf. Vacuum UV Radiation Physics (Charlottesville, USA, 2-6 June 1980), Vol. I, p. 44.

21. G.Guizzetti, F.Meloni and A.Baldereschi:
Energy bands and optical properties of the random defect semiconductors Ga₂S₃, Ga₂Se₃, Ga₂Te₃ and In₂Te₃
J. Phys. Soc. Japan **49**, Suppl.A, 92 (1980).

22. A.Borghesi, G.Guizzetti, E.Reguzzoni, G.Samoggia:
Magneto-optical effects in the para and ferromagnetic phase of CrBr₃
Phys. Rev. Lett. **47**, 538 (1981).

23. G.Guizzetti and F.Meloni:
Electronic properties of the random defect M₂^{III}X₃^{VI} semiconductors
Il Nuovo Cimento D **1**, 503 (1982).

24. A.Borghesi, G.Guizzetti, A.Stella:
Thermo-optical response of V_xTi_{1-x}Se₂ in the plasmon region
Sol. St. Commun. **41**, 199 (1982).

25. G.Guizzetti:
Teoria di campo cristallino e di campo legante
Seminari tenuti al Convegno Nazionale del Settore "Spettroscopia Ottica" del GNSM-CNR (Tarquinia, 1982).

26. A.Borghesi, G.Guizzetti, A.Stella, E.Reguzzoni, F.Lévy:
Analysis of infrared thermorefectance spectra of Nb_xTi_{1-x}S₂
Sol. St. Commun. **43**, 209 (1982).

27. A.M.Mancini, A.Rizzo, R.Girlanda, G.Guizzetti, L.Nosenzo, E.Doni and E.Reguzzoni:
Thermorefectance of the GaS_xSe_{1-x} mixed crystals between 3 and 9 eV
Il Nuovo Cimento D **1**, 751 (1982).

28. P.Bissolotti, A.Borghesi, G.Guizzetti, P.Pedrotti:
Microprocessor-controlled magneto-optics apparatus
Rev. Sci. Instrum. **53**, 87 (1982).

29. W.Andreoni, A.Baldereschi and G.Guizzetti:

Atomic nodal orbital radii: fundamental parameters for molecules and solids

Proc. 2th Gen. Conf. Condensed Matter Div.- EPS (Manchester, 22-25March 1982) , Physica Scripta T0281-1847.1.

30. G.Guizzetti and A.Borghesi:

Optical constants of Lead Sulphide

In Handbook of Optical Constants of Materials, ed. E.D.Palik (Academic Press, Orlando, 1984), p.525.

31. A.Borghesi, G.Guizzetti, L.Nosenzo, E.Reguzzoni, A.Stella:

Fundamental optical properties of In halides

Sol. St. Commun. **48**, 345 (1983).

32. A.Borghesi and G.Guizzetti:

Optical constants of Gallium Phosphide

In Handbook of Optical Constant of Materials, ed. E.D.Palik (Academic Press, Orlando, 1984), p.445.

33. A.Borghesi, M.Geddo, G.Guizzetti, E.Reguzzoni, A.Stella, F.Lévy:

Plasmons and interband transitions in $Ti_{1-x}Hf_xSe_2$ systems

Phys. Rev. B **29**, 3167 (1984).

34. A.Borghesi, G.Guizzetti, L.Nosenzo, E.Reguzzoni, A.Stella, F.Lévy:

Optical properties of $Ti_{1-x}Hf_xSe_2$ layered compounds from 1 to 9 eV

Il Nuovo Cimento D **4**, 141 (1984).

35. A.Borghesi, G.Guizzetti, F.Marabelli, L.Nosenzo, and E.Reguzzoni:

Far-infrared optical properties of $CrCl_3$ and $CrBr_3$

Solid State Commun. **52**, 465 (1984).

36. A.Borghesi, G.Guizzetti, L.Nosenzo, E.Reguzzoni, and A.Stella:

Optical investigations of phase transitions and 'anomalies' in $Ti_{1-x}Hf_xSe_2$ crystals

Proc. 17th Int. Conf. Phys. Semiconductors, (S. Francisco, 6-10 August 1984) , Ed. D.A. Chadi and W.A.Harrison (Springer-Verlag, New York, 1985), p.985.

37. G.Guizzetti:

Proprietà ottiche dei semiconduttori iperdrogati

Rendiconti 7° Corso Scuola Nazionale GNSM-CNR "Semiconduttori e dispositivi elettronici" (Castro M.- Lecce, 1984).

38. A.Borghesi, Chen Chen-Jia, G.Guizzetti, F. Marabelli, L.Nosenzo, E.Reguzzoni, A.Stella:

Infrared properties of bulk heavily doped silicon.

Il Nuovo Cimento D **5**, 292 (1985).

39. A.Borghesi, G.Guizzetti, L.Nosenzo:

Optical properties of some AB_2X_4 layered compounds

Progr. Cryst. Growth and Charact. **13**, 97 (1986).

40. A.Borghesi, G.Guizzetti, L.Nosenzo, A.Stella, S.U.Campisano, E.Rimini:

Optical study of self-annealing in high-current As-implanted silicon

J. Appl. Phys. **58**, 2773 (1985).

41. A.Borghesi, G.Guizzetti, L.Nosenzo, A.Stella, Chen Chen-Jia:

Effects of heavy doping on the optical spectra of silicon

Chinese Phys. Letters **2**, 317 (1985).

42. S.U.Campisano, E.Rimini, A.Borghesi, G.Guizzetti,

L.Nosenzo, and A.Stella:

Channelling and optical measurements of high current density As-implanted silicon

Proc. Mat. Research. Soc. - Europe 85 , Eds. V.T.Nguyen and A.G.Cullis (Ed. de Physique, Les Ulis,1985) Vol IV p.205.

43. A.Borghesi, Chen Chen-jia, G.Guizzetti, F.Lévy, L.Nosenzo, E.Reguzzoni, A.Stella:

Thermoreflectance studies of transition-metal dichalcogenides between 1 and 9 eV

Phys. Rev. B **33**, 2422 (1986).

44. A.Borghesi, G.Guizzetti, L.Nosenzo, A.Stella, G.Majni:
Optical properties of PtSi and Pt₂Si
Thin Solid Films **140**, 95 (1986).
45. A.Borghesi, P.Bottazzi, G.Guizzetti, L.Nosenzo, A.Stella:
Thermoreflectance investigation of heavily doped silicon
Solid State Commun. **60**, 807 (1986).
46. A.Borghesi, G.Guizzetti, L.Nosenzo, A.Piaggi, A.Stella, G.Majni:
Reflectivity and electronic structure of Pd-silicides
Semicond. Sci. Technol. **1**, 184 (1986).
47. A.Borghesi, G.Guizzetti, L.Nosenzo, A.Stella, A.Balzarotti, N.Motta, and F.Lévy:
Optical properties of semimetallic-semiconducting Ti_{1-x}Hf_xSe₂ systems
Proc. 18th Int. Conf. Phys. Semiconductors (Stockholm, 11-15 August 1986), ed. by O.Engstrom (World Scientific, Singapore, 1987) p.1815.
48. A.Borghesi, G.Guizzetti, L.Nosenzo, M.Marinelli, F.Meloni, and G.Mula:
Optical and electronic properties of ZnIn₂(S_xSe_{1-x})₄
Mat. Res. Soc. Conf. Proc. (Snowmass, Colorado, 10-12 Sept. 1986) ed, by S.Debb and A. Zunger, Vol. **7**, 295 (1987).
49. A.Borghesi, G.Guizzetti, L.Nosenzo, A.Stella, S.U.Campisano, and E.Rimini:
Optical study of high dose implanted, laser annealed silicon
Nucl. Instr. and Meth. **20**, 582 (1987).
50. O.Bisi, M.G.Betti, F.Nava, A.Borghesi, G.Guizzetti, L.Nosenzo, and A.Piaggi:
Electrical and optical properties of near-noble silicides
LeVide, Les Couches Minces **42**, 215 (1987).
51. A.Borghesi, P.Bottazzi, G.Guizzetti, L.Nosenzo, A.Stella, S.U.Campisano, and E.Rimini:
Fundamental optical properties of heavily-boron-doped silicon
Phys. Rev. B **36**, 9563 (1987).
52. A.Borghesi, G.Guizzetti, L.Nosenzo, T.Prosperi, and S.Viticoli:
Optical absorption of Co(II) ion in Co_xZn_{1-x}In₂S₄ solid solution
Solid State Commun. **64**, 1187 (1987).
53. S.U.Campisano, E.Rimini, A.Borghesi, G.Guizzetti, L.Nosenzo, and A.Stella:
Optical properties of heavily doped semiconductor layers
Physica Scripta **19**, 544 (1987).
54. A.Borghesi, G.Guizzetti, A.Piaggi, A.Stella and G.Collin:
Optical investigation of high temperature superconductors
Proc. Europ. Workshop on High T_c Superconductors (Genova, 1987).
55. A.Borghesi, G.Guizzetti, L.Nosenzo, S.U.Campisano:
Characterization of ion-implanted heavily-doped silicon by optical reflection
in Ion Implantation in Semiconductors, eds. D.Stievenard and J.C.Bourgoin (Trans. Tech. Publications, Switzerland, 1988), Solid State Phenomena, Vol. **1-2**, p.1.
56. A.Borghesi, G.Guizzetti, A.Stella, S.U.Campisano, E.Rimini, A.M.Malvezzi, and J.K.Wang:
Response of heavily doped silicon to ultrashort light pulses
Proc. 8th Gen. Conf. Condensed Matter Div. EPS, ed. J.Heijn (Budapest, 6-9 April 1988), Vol. 12A, p.129.
57. A.Borghesi, G.Guizzetti, A.Stella, S.U.Campisano, E.Rimini, A.M. Malvezzi, J.K.Wang:
Picosecond photoexcitation of heavily-doped silicon
Proc. 19th Int. Conf. on the Physics of Semiconductors (Warsaw, 15-19 August 1988), ed. by W.Zawadzki (WNT-Publishers, Warsaw, 1988), p.1365.
58. A.Borghesi, L.Nosenzo, A.Piaggi, G.Guizzetti, C.Nobili, G.P. Ottaviani:

Optical properties of tantalum disilicide thin films

Phys. Rev. B **38**, 10937 (1988).

59. A.Borghesi, M.Geddo, G.Guizzetti, D.Maghini, A.Stella, S.U.Campisano, and E.Rimini:

Reflectance versus electroreflectance measurements on arsenic doped silicon crystals

Il Nuovo Cimento D **10**, 979 (1988).

60. A.Borghesi, M.Geddo, G.Guizzetti, S.Pizzini, D.Narducci, A.Sandrinelli, G.Zachmann:

Infrared microcharacterization of grain boundaries in polycrystalline silicon

Solid State Commun. **69**, 457 (1989).

61. T.M.De Pascale, F.Meloni, G.Mula, M.Marinelli, A.Borghesi, G.Guizzetti, L.Nosenzo:

Solid solutions of AB₂C₄ defect semiconductors

Mat. Res. Soc. Symp. Proc. Vol. 141, Ed. by D.Vanderbilt (Pittsburgh, 1989), p.195-200.

62. Editors: A.Balzarotti, G.Guizzetti and A.Stella:

Highlights on Spectroscopies of Semiconductors and Insulators

World Scientific, Singapore, 1989.

63. A.Borghesi, A.Piaggi, G.Guizzetti, F.Lévy, M.Tanaka and H.Fukutani:

Optical properties of single-crystal titanium disilicide

Phys. Rev. B **40**, 1611 (1989).

64. A.Borghesi, A.Piaggi, G.Guizzetti, F.Nava, and M.Bacchetta:

Optical properties of vanadium silicide polycrystalline films

Phys. Rev. B **40**, 3249 (1989).

65. A.Borghesi, M.Geddo, G.Guizzetti, A.Stella and P.Geranzani:

Characterization of impurities in silicon by IR spectroscopy

Helvetica Phys. Acta **62**, 846 (1989).

66. A.Borghesi, M. Geddo, G.Guizzetti and P.Geranzani:

Quantitative IR spectroscopy of interstitial Oxygen in heavily doped Silicon

Proc. 7th Int. Conf. Fourier Transform Spectroscopy, SPIE Vol. 1145, p.330 (1989).

67. A.Borghesi, G.Guizzetti, L.Nosenzo, A.Stella and F.Lévy:

Optical spectroscopy in transition-metal dichalcogenides

in Progress on Electron Properties of Solids, ed. by (Kluwer Academic Publ.,1989), Series "Phys. And Chem. of Materials with Low-dimensional Structure), Vol. **10**, p.139-152.

68. A.Borghesi, P.Bottazzi, G.Guizzetti, L.Reggiani, and A.Stella:

Silicon conduction-band nonparabolicity

Proc. 9th General Conf. Cond. Matter Div. EPS (Nice,1989) Vol. 13A, p.131.

69. G.Guizzetti e A.Piaggi:

Proprietà ottiche fondamentali dei semiconduttori

Rendiconti Scuola Nazionale del GNSM-CISM "Fondamenti di fisica e tecnologia dei semiconduttori", Ed. L.Reggiani e

L.Vasanelli (Castro M. - Lecce, 1989) p.137.

70. A.Borghesi, M.Geddo, G.Guizzetti and A.Stella:

Optical characterization of semiconductors, interfaces and heterostructures

in Research Activities on Diagnostic Techniques, Progetto Finalizzato MADESS (CNR, Roma, 1989).

71. A.Borghesi, M.Geddo, G.Guizzetti, L.Nosenzo e A.Stella:

Diagnostica ottica dei materiali: alcuni esempi

in La struttura della materia in Italia nell'ultimo decennio, Ed. I.Ortalli, E.Rimini e S.Santucci (Editrice Compositori - SIF, Bologna, 1989), p.211.

72. A.Borghesi, A.Piaggi, A.Franchini, G.Guizzetti, F.Nava and G.Santoro:

Far-Infrared Vibrational Spectroscopy in CrSi₂

Europhysics Letters **11**, 61 (1990).

73. A.Borghesi, G.Guizzetti, A.Stella, P.Baeri, S.U.Campisano and E.Rimini:
Optical evidence of precipitates in Arsenic implanted Silicon
Materials Sci. Eng. B **5**, 229 (1990).
74. G.Guizzetti, E.Mazzega, M.Michelini, F.Nava, A.Borghesi and A.Piaggi:
Electrical and optical characterization of GdSi₂ and ErSi₂ alloy thin films
J. Appl. Phys. **67**, 3393 (1990).
75. A.Borghesi, A.Piaggi, A.Stella, G.Guizzetti, D.Bisero and G.Queirolo:
Damage analysis and optical properties of Ge-implanted silicon
J. Appl. Phys. **67**, 7045 (1990).
76. A.Borghesi, G.Guizzetti, F.Marabelli, L.Nosenzo, A.Piaggi and A.Stella:
Some specific examples of thermoreflectance investigation
Proc. Int. Conf. Modulation Spectroscopy, SPIE Proc. Vol. 1286 (1990), p.154.
77. A.Borghesi, A.Stella, P.Bottazzi, G.Guizzetti, L.Reggiani:
Optical determination of Si conduction-band nonparabolicity
J. Appl. Phys. **67**, 3102 (1990).
78. A.Borghesi, M.Geddo, G.Guizzetti and P.Geranzani:
Interstitial oxygen determination in heavily doped silicon
J. Appl. Phys. **68**, 1655 (1990).
79. M.Amiotti, A.Borghesi, G.Guizzetti and F.Nava:
Optical properties of polycrystalline nickel silicides
Phys. Rev. B **42**, 8939 (1990).
80. A.Borghesi, A.Piaggi, A.Stella, G.Guizzetti, F.Nava and G.Santoro:
Optical and vibrational properties of Cr and Fe disilicides
Proc. 20th Int. Conf. Phys. Semiconductors (Thessaloniki, Greece, August 1990), ed. by E.M.Anastassakis and J.D.Joannopoulos (World Scientific, Singapore, 1991), p.2001.
81. G.Guizzetti and A.Piaggi:
Optical constants of Vanadium
in Handbook of Optical Constants of Solids, Vol.2, Ed. by E.D.Palik (Academic Press, San Diego, 1991), p.477.
82. A.Borghesi and G.Guizzetti:
Optical constants of Graphite
in Handbook of Optical Constants of Solids, Vol.2, Ed. by E.D.Palik (Academic Press, San Diego, 1991), p.449.
83. A.Roseler, F.Marabelli, G.Guizzetti, A.Borghesi and A.Piaggi:
Ellipsometry with Fourier transform spectrometer: an application to TaSi₂ films
Il Nuovo Cimento D **13**, 169 (1991).
84. A.Borghesi, F.Marabelli, G.Guizzetti, M.Michelini and F.Nava:
Optical constants and electrical transport parameters of HfSi₂
J. Appl. Phys. **69**, 7645 (1991).
85. M.Amiotti, A.Borghesi, G.Guizzetti, F.Nava and G.Santoro:
Far-infrared spectroscopy of thermally annealed tungsten silicide films
Europhysics Letters **14**, 587 (1991).
86. M.Amiotti, A.Borghesi, F.Marabelli, G.Guizzetti and F.Nava:
Optical study of niobium disilicide polycrystalline films
Phys. Rev. B **44**, 3757 (1991).
87. M.Amiotti, A.Borghesi, F.Marabelli, A.Piaggi, G.Guizzetti and F.Nava:
Optical and electronic properties of 5th-column transition metal disilicides
Appl. Surf. Science **53**, 230 (1991).

88. V.N. Antonov, O.Jepsen, O.K.Andersen, A.Borghesi, C.Bosio, F.Marabelli, A.Piaggi, G.Guizzetti and F.Nava:
Optical properties of WSi₂
Phys. Rev. B **44**, 8437 (1991).
89. A.Borghesi, G.Guizzetti, A.Sassella, M.G.Simeone and S.Viticoli:
Optical absorption edge of Cd_{1-x}Mn_xGa₂Se₄ crystals
Il Nuovo Cimento D **14**, 33 (1992).
90. M.Amiotti, E.Bellandi, A.Borghesi, A.Piaggi, G.Guizzetti, F.Nava, G.Queirolo:
Influence of annealing temperature on structural, electrical and optical properties of WSi₂
Appl. Phys. A **54**, 181 (1992).
91. M.Amiotti, G.Guizzetti, F.Marabelli, A.Piaggi, V.N.Antonov, V.I.N.Antonov, O.Jepsen, O.K.Andersen, A.Borghesi, F.Nava, V.V.Nemoshkalenko, R.Madar, A.Rouault:
Optical properties of Pd₂Si
Phys. Rev. B **45**, 13285 (1992).
92. G.Guizzetti e A.Piaggi:
Proprietà ottiche dei film
Rendiconti Scuola Nazionale del GNSM-CISM "Film: proprietà di base e tecnologie", Ed. D.Fiorani e E.Rimini (Acireale - CT, 1992).
93. F. Marabelli, M. Amiotti, V. Bellani, G. Guizzetti, A. Borghesi, S. Lagomarsino, F. Scarnici:
Optical study of the narrow-gap semiconductors CrSi₂ and FeSi₂
in Proc. 21st Int. Conf. on the Physics of Semiconductors, Eds. P.Jiang and H.Zheng (World Scientific, Singapore, 1992), p.209.
94. V. Bellani, G.Guizzetti, F.Marabelli, A.Piaggi, A.Borghesi, F.Nava, V.N.Antonov, V.I.N.Antonov, O.Jepsen, O.K.Andersen, V.V.Nemoshkalenko:
Theory and experiment on the optical properties of CrSi₂
Phys. Rev. B **46**, 9380 (1992).
95. G.Guizzetti and A.Piaggi:
Optical properties of silicides
Proc. CXVII Course Int. School of Physics "E. Fermi" - Semiconductor Superlattices and Interfaces, Ed. by A.Stella and L.Miglio (North-Holland, Amsterdam, 1993), p.123-155.
96. V. Bellani, A. Borghesi, M. Geddo, G. Guizzetti, A. Stella:
Photoreflectance versus ellipsometry investigation of GaAs/Al_{0.3}Ga_{0.7}As MQW's
Appl. Surf. Sci. **63**, 167 (1993).
97. A. Borghesi, E. Bellandi, G. Guizzetti, A. Sassella, S. Rojas, L. Zanotti:
Optical characterization of oxynitride films in the visible-ultraviolet range
Appl. Phys. A **56**, 147 (1993).
98. V.Bellani, G.Guizzetti, L.Nosenzo, E.Reguzzoni, A.Bosacchi and S.Franchi:
Low temperature thermoreflectance of AlGaAs/GaAs quantum wells
Superlattices and Microstructures **13**, 147 (1993).
99. F.Nava, K.N.Tu, O.Thomas, J.P.Senateur, R.Madar, A.Borghesi, G.Guizzetti, U.Gottlieb, O.Laborde and O.Bisi:
Electrical and optical properties of silicide single crystals and thin films
Materials Science Reports **9**, 141-200 (1993).
100. G.Guizzetti, F.Marabelli, N.Onda and H. von Kanel:
Optical characteristic of epitaxial pseudomorphic FeSi₂
Solid State Commun. **86**, 217 (1993).
101. Chen-jia Chen, Yong Ma, Yu Li, A.Borghesi, G.Guizzetti, A.Sassella and S.Viticoli:
Magnetization and magnetic susceptibility of the diluted magnetic semiconductors Cd_{1-x}Mn_xGa₂Se₄
J. Appl. Phys. **73**, 5736 (1993).
102. A. Borghesi, G. Guizzetti, M. Patrini, A. Caligiore, R.C. Chen, S. Pellegrino:

Infrared study and characterization of Zn diffused InP

J. Appl. Phys. **74**, 2445 (1993).

103. G.Guizzetti, F.Marabelli, A.Borghesi, F.Nava, U.Gottlieb, O. Laborde:

Optical and electrical characterization of VSi₂ and NbSi₂ single crystals

Appl. Surf. Science **73**, 237 (1993).

104. M.Amiotti, G.Guizzetti, M.Patrini and G.Landgren:

Characterization of InP/GaInAs superlattices by spectroscopic ellipsometry

SPIE Proc. Series vol. 1985, 406 (1993).

105. G.Guizzetti, F.Marabelli, M.Patrini, Y.Mo, N.Onda, and H. Von Kànel:

Phonon spectra dependence on growth and sample treatment in FeSi₂

Mat. Res. Soc. Symp. Proc. **320**, 127 (1994).

106. V. Bellani, M.Amiotti, M.Geddo, G.Guizzetti, and G.Landgren:

Photoreflectance characterization of InGaAs lattice matched to InP

Mat. Res. Soc. Symp. Proc. **324**, 225 (1994).

107. M.Amiotti, G.Guizzetti, M.Patrini, A.Piaggi, A.Borghesi, L.Colombo, G.Landgren:

Study of vibrational properties of InGaAsP by far-infrared reflectivity

J. Appl. Phys. **75**, 3085 (1994).

108. A.Borghesi, G.Guizzetti, A.Sassella, O.Bisi and L.Pavesi:

Induction-model analysis of Si-H stretching mode in porous silicon

Solid State Commun. **89**, 615 (1994).

109. G.Guizzetti, F.Marabelli, M.Patrini, V.Capozzi, G.F.Lorusso, A.Minafra, M.Manfredini, and P.Milani:

Optical properties of fullerite thin films in the 0.4 to 32 eV energy range

Phys. Stat. Sol. (b) **183**, 267 (1994).

110. P.Milani, M.Manfredini, G.Guizzetti, F.Marabelli, M.Patrini:

Ellipsometric investigation of C₆₀ single crystal

Sol. State Commun. **90**, 639 (1994).

111. M.Geddo, V.Bellani and G.Guizzetti:

Optical study of the strain effect in pseudomorphic InGaAs-InP heterostructures

Phys. Rev. B **50**, 5456 (1994).

112. M.Amiotti, G.Guizzetti, M.Patrini and G.Landgren:

Far-IR Characterization of GaInAs/InP quantum wells and superlattices

Mat. Sci. Engin. B **28**, 337 (1994).

113. M.Patrini, F.Marabelli, G.Guizzetti, M.Manfredini, C.Castoldi and P.Milani:

Optical characterization of fullerite single crystals and thin films

in Recent advances in the chemistry and physics of fullerenes and related materials, Eds. K.M.Kadish and R.S.Ruoff (The Electrochem. Soc. Inc., Pennington N.J., 1994), Proc. Vol. **94-24**, p.632.

114. G.Guizzetti, F.Marabelli and A.Borghesi:

Optical diagnostic techniques in thick and thin films

Proc. Int. Meeting ISHM-Italy "The many aspects of microelectronics (Trabella, Milano, 1994), p.69-83.

115. M.Prudenziati, B.Morten, P.Savigni and G.Guizzetti:

Influence of the preparing conditions on the physico-chemical characteristics of glasses for thick film hybrid microelectronics

J. Mat. Res. **9**, 2304 (1994).

116. G.Guizzetti, F.Marabelli, M.Patrini, M.Manfredini, and P.Milani:

Optical properties of monocrystalline and polycrystalline fullerene

in Proc. 22nd Int. Conf. on the Physics of Semiconductors, Ed. D.J. Lockwood (Word Scientific, Singapore, 1995), p.2081.

117. G. Guizzetti, F. Marabelli, M. Patrini, M. Manfredini, P. Milani, G. Benedek and S. Sanguinetti:
Micro-FTIR and theoretical study of C₆₀ single-crystal vibrational modes
Mat. Res. Soc. Symp. Proc. **359**, 489 (1995).
118. M. Amiotti, G. Guizzetti, M. Patrini, L. Francesio, P. Franzosi, G. Mattei, and G. Landgren:
Investigation of GaInAs/InP superlattices by electron microscopy, x-ray diffraction and spectroscopic ellipsometry
Semicond. Sci. Technol. **10**, 492 (1995).
119. L.C. Andreani, D. De Nova, S. Di Lernia, M. Geddo, G. Guizzetti, M. Patrini, C. Bocchi, A. Bosacchi, C. Ferrari, S. Franchi:
Optical study of strained and relaxed epitaxial In(x)Ga(1-x)As on GaAs
J. Appl. Phys. **78**, 6745 (1995).
120. V. Bellani, G. Guizzetti, F. Marabelli, M. Patrini, S. Lagomarsino, H. Von Kanel :
Optical functions of epitaxial FeSi₂ on Si(001) and Si(111)
Solid State Commun. **96**, 751 (1995).
121. S. Bocelli, G. Guizzetti, F. Marabelli, G. Thungstrom and C.S. Petersson:
Experimental identification of the optical phonon of CoSi₂ in the infrared
Appl. Surf. Sci. **91**, 30 (1995).
122. V. Bellani, M. Geddo G. Guizzetti:
Optical study of coherently grown In_{1-x}Ga_xAs-InP heterostructures
Il Vuoto **25**, 151 (1995).
123. G. Guizzetti and F. Marabelli:
Optical properties of metal silicides
in Properties of silicides, Ed. K. Maex (INSPEC, London, 1995), pp.227-273.
124. V.N. Antonov, B. Yu. Yavorsky, A.P. Shpak, V.I.N. Antonov, O. Jepsen, O.K. Andersen, G. Guizzetti and F. Marabelli:
The electronic structure and physical properties of NbSi₂
Phys. Rev. B **53**, 5370 (1996).
125. G. Guizzetti, F. Marabelli, M. Patrini, M. Manfredini, P. Milani:
Optical study of C₆₀ single-crystals and thin films
Il Vuoto **26**, 7 (1996).
126. F. Demichelis, M. Fontaine, G. Guizzetti, J.M. Layet, M. Patrini, A. Rizzi, A. Tagliaferro, C. De Martino:
Bulk and surface in a-C:H films
Il Vuoto **26**, 50 (1996).
127. G. Guizzetti, M. Patrini, P. Sutter, H. von Kanel:
Spectroscopic ellipsometry of strained Si/Ge superlattices grown by magnetron sputter epitaxy
Mat. Res. Soc. Symp. Proc. **406**, 383 (1996).
128. S. Di Lernia, M. Geddo, G. Guizzetti, M. Patrini, A. Bosacchi, S. Franchi, R. Magnanini:
Optical characterization of Al_xGa_{1-x}Sb/GaSb epitaxial layers
Mat. Res. Soc. Symp. Proc. **406**, 389 (1996).
129. S. Bocelli, G. Guizzetti, F. Marabelli, C. Schwarz, S. Goncalves-Conto, H. von Kanel:
Disorder and strain effects in the optical response of thin CoSi epitaxial films on Si(111)
Mat. Res. Soc. Symp. Proc. **402**, 631 (1996).
130. S. Bocelli, G. Guizzetti, F. Marabelli, G.B. Parravicini, M. Patrini, W. Henrion, H. Lange, Y. Tamm:
Anisotropic optical response in FeSi₂ single crystals and thin films
Mat. Res. Soc. Symp. Proc. **402**, 349 (1996).
131. G. Guizzetti, F. Marabelli, P. Pellegrino, A. Sassella and M.O. Aboelfotoh:
Optical response of Cu₃Ge thin films
J. Appl. Phys. **79**, 8115 (1996).

132. R. Ferrini, M. Galli, G. Guizzetti, M. Patrini, A. Bosacchi, S. Franchi:
Optical response from 0.01 to 6 eV of Al_xGa_{1-x}Sb/GaSb epitaxial layers
Proc. XXIII Int. Conf. ICPS, M. Scheffler and R. Zimmermann Eds., pag. 265 (World Scientific, 1996).
133. M. Patrini, G. Guizzetti, M. Galli, R. Ferrini, A. Bosacchi, S. Franchi, R. Magnanini:
Optical functions of bulk and epitaxial GaSb from 0.0025 to 6 eV
Sol. State Commun. **101**, 93 (1997).
134. S. Bocelli, G. Guizzetti, F. Marabelli, S. Hatziconstantinidou, C. S. Petersson:
Roughness characterization by optical spectroscopy of CoSi₂ thin films
Mat. Res. Soc. Symp. Proc. **440**, 218 (1997).
135. G. Guizzetti, F. Marabelli, M. Patrini, P. Pellegrino, B. Pivac, L. Miglio, V. Meregalli, H. Lange, W. Henrion, V. Tomm:
Measurement and simulation of anisotropy in the infrared and Raman spectra of FeSi₂ single crystals
Phys. Rev. B **55**, 14290 (1997).
136. V. Bellani, S. Di Lernia, M. Geddo, G. Guizzetti, A. Bosacchi, S. Franchi, R. Magnanini:
Thermoreflectance study of the direct energy gap of GaSb
Sol. State Commun. **104**, 81 (1997).
137. R. Ferrini, M. Galli, G. Guizzetti, M. Patrini, A. Bosacchi, S. Franchi, R. Magnanini:
Phonon response of Al_xGa_{1-x}Sb/GaSb epitaxial layers by Fourier-transform infrared-reflectance and Raman spectroscopies
Phys. Rev. B **56**, 7549 (1997).
138. R. Ferrini, M. Galli, G. Guizzetti, M. Patrini, F. Nava, C. Canali, P. Vanni:
Optical evaluation of the ionized EL2 fraction in proton (24 GeV) irradiated semi-insulating GaAs
Appl. Phys. Lett. **71**, 3084 (1997).
139. R. Ferrini, G. Guizzetti, M. Patrini, A. Bosacchi, S. Franchi and R. Magnanini:
Infrared reflectance study of n-type GaSb epitaxial layers
Sol. State Commun. **104**, 747 (1997).
140. P. Milani, M. Ferretti, P. Piseri, C.E. Bottani, A. Ferrari, A. Li Bassi, G. Guizzetti, M. Patrini:
Synthesis and characterization of cluster-assembled carbon thin films
J. Appl. Phys. **82**, 5793 (1997).
141. M. Geddo, R. Ferrini, G. Guizzetti, M. Patrini, S. Franchi, A. Baraldi and R. Magnanini:
Photoreflectance of GaSb/AlGaSb single quantum wells
Appl. Phys. Lett. **73**, 1254 (1998).
142. V. Bellani, M. Geddo, G. Guizzetti, S. Franchi and R. Magnanini:
Thermoreflectance study of the direct optical gap in epitaxial AlGaSb
Phys. Rev. B **59**, 12272 (1999).
143. R. Ferrini, M. Geddo, G. Guizzetti, M. Patrini, S. Franchi, C. Bocchi, E.Kh. Mukhamedzhanov, A. Baraldi, R. Magnanini:
Optical study of AlGaSb/GaSb single quantum wells
Phys. Rev. B **59**, 15395 (1999).
144. R. Ferrini, M. Geddo, G. Guizzetti, M. Patrini, S. Franchi, C. Bocchi, F. Germini, A. Baraldi, and R. Magnanini:
Interband optical properties of MBE grown GaAsSb on GaAs substrates
J. Appl. Phys. **86**, 4708 (1999).
145. R. Ferrini, G. Guizzetti, M. Patrini, F. Nava, P. Vanni, and C. Lanzieri:
Influence of acceptor impurities on semi-insulating GaAs particle detectors
Eur. Phys. J. B **16**, 213 (2000).
146. M. Geddo, R. Ferrini, G. Guizzetti, M. Patrini, S. Franchi, P. Frigeri, G. Salviati, and L. Lazzarini:

Photoreflectance characterization on InAs/GaAs self-assembled quantum dots grown by ALMBE

Eur. Phys. J. B **16**, 19 (2000).

147. M. Geddo, R. Ferrini, G. Guizzetti, M. Patrini, S. Franchi, P. Frigeri:

Photoreflectance investigation of InAs/GaAs self-assembled quantum dots grown by ALMBE

Mat. Res. Soc. Symp. Proc. **583**, 99 (2000).

148. R. Ferrini, G. Guizzetti, M. Patrini, and S. Franchi:

Optical study of intersubband transitions in GaSb/AlGaSb systems for quantum well infrared photodetectors

Optical Materials **17**, 351 (2001).

149. M. Geddo, G. Guizzetti, M. Patrini, R. Pezzuto, S. Franchi, P. Frigeri, G. Trevisi:

Optical investigation of ALMBE grown InAs self-assembled quantum dots embedded in InGaAs matrix

Mat. Res. Soc. Symp. Proc. **642**, J3.7.1 (2001).

150. R. Ferrini, G. Guizzetti, M. Patrini, A. Parisini, L. Tarricone, and B. Valenti:

Optical functions of InGaP/GaAs epitaxial layers from 0.01 to 5.5 eV

Eur. Phys. J. B **27**, 449 (2002).

151. A. Malvezzi, F. Cattaneo, G. Vecchi, M. Falasconi, G. Guizzetti, L. Andreani, F. Romanato, L. Businaro, E. Di Fabrizio:

Second-harmonic generation in reflection and diffraction by a GaAs photonic-crystal waveguide

J. Opt. Soc. Am. B **19**, 21 22 (2002).

152. M. Galli, M. Agio, L. Andreani, M. Belotti, G. Guizzetti, F. Marabelli, M. Patrini, P. Bettotti, L. Dal Negro, Z. Gaburro and L. Pavesi:

Spectroscopy of photonic bands in macroporous silicon photonic crystals

Phys. Rev. B **65**, 113111 (2002).

153. M. Galli, M. Agio, L. Andreani, L. Atzeni, D. Baroni, G. Guizzetti, F. Romanato, L. Businaro, E. Di Fabrizio and A. Passaseo:

Optical properties and photonic bands of GaAs photonic crystal waveguides with tilted square lattice

Eur. Phys. J. B **27**, 79 (2002).

154. M. Patrini, M. Galli, M. Belotti, L. Andreani, G. Guizzetti, G. Pucker, A. Lui, P. Bellutti and L. Pavesi:

Optical response of one-dimensional (Si/SiO₂)_m photonic crystals

J. Appl. Phys. **92**, 1816 (2002).

155. F. Marabelli, M. Agio, L. Andreani, D. Bajoni, M. Belotti, M. Galli, G. Guizzetti, M. Patrini, L. Pavesi:

Optical properties of one- and two-dimensional photonic crystals based on silicon

In "Radiation –Matter interaction in confined systems", edited by L. Andreani, G. Benedek and E. Molinari (Soc. Ital. Fisica, Bologna, 2002), p. 321.

156. L. Andreani, F. Cattaneo, G. Guizzetti, A.M. Malvezzi, M. Patrini, G. Vecchi, F. Romanato, L. Businaro, E. Di Fabrizio, A. Passaseo and M. De Vittorio:

Second-harmonic generation measured on GaAs photonic crystals planar waveguide

Physica E **17**, 402 (2003).

157. M. Patrini, M. Galli, M. Agio, L.C. Andreani, D. Bajoni, G. Guizzetti, F. Romanato, L. Businaro, E. Di Fabrizio, A. Passaseo:

Linear optical properties and photonic mode dispersion in GaAs/AlGaAs photonic crystal slabs.

Physica E **17**, 418 (2003).

158. M. Galli, F. Marabelli and G. Guizzetti:

Direct measurement of refractive index dispersion of transparent media by white-light interferometry

Appl. Optics **42**, 3910 (2003).

159. M. Geddo, G. Guizzetti, R. Pezzuto, A. Polimeri, M. Capizzi, M. Bissiri, G. Baldassarri, D. Gollub and A. Forchel:

Photoreflectance study of hydrogenated (InGa)(AsN)/GaAs heterostructures

Mat. Res. Soc. Symp. Proc. **744**, M8.31.1 (2003).

160. G. Vecchi, A. Malvezzi, L. Andreani, M. Patrini, G. Guizzetti, F. Romanato, L. Businaro, E. Di Fabrizio, D. Peyrade and Y. Chen:
Nonlinear optical response in patterned planar waveguides
Proc. 2nd European Workshop on Photonic Crystals (ESPC-ICTON, Warsaw, 2003), p.62.
161. M. Geddo, G. Guizzetti, A. Polimeri, M. Capizzi, D. Gollub and A. Forchel:
Photoreflectance evidence of the N-induced increase of the exciton binding energy in an $\text{In}_x\text{Ga}_{1-x}\text{As}_{1-y}\text{N}_y$ alloy
Appl. Phys. Letters **83**, 470 (2003).
162. M. Geddo, G. Guizzetti, M. Patrini, S. Franchi and P. Frigerio:
Photoreflectance spectroscopy of InAs self-assembled quantum dots
In "Radiation –Matter interaction in Condensed Matter Physics", ed. by G. Mondio and L. Silipigni (Soc. Ital. Fisica, Bologna, 2003), Conf. Proc. Vol. 84, p. 261.
163. L.C. Andreani, G. Guizzetti, M. Patrini, G. Vecchi, A.M. Malvezzi, L. Businaro, F. Romanato, E. Di Fabrizio, A. Passaseo:
Resonant second-harmonic generation and mode dispersion in photonic crystal waveguides
Physica Status Solidi (b) **238**, 428 (2003)
164. L. C. Andreani, M. Agio, D. Bajoni, M. Belotti, M. Galli, G. Guizzetti, A.M. Malvezzi, F. Marabelli, M. Patrini, G. Vecchi:
Optical properties and photonic mode dispersion in two-dimensional and waveguide-embedded photonic crystals
Synthetic Metals **139**, 695 (2003)
165. A. Malvezzi, G. Vecchi, M. Patrini, G. Guizzetti, L.C. Andreani, F. Romanato, L. Businaro, E. Di Fabrizio, A. Passaseo, M. De Vittorio:
Resonant second-harmonic generation in a GaAs photonic crystal waveguide
Phys. Rev. B **68**, 161306(R) (2003).
166. G. Vecchi, A.M. Malvezzi, M. Patrini, G. Guizzetti, L. C. Andreani, M. Liscidini, Y. Chen, D. Peyrade:
Nonlinear optical studies of one-dimensional SOI photonic crystal slabs
"Photonic crystals materials and nanostructures", R. De La Rue, P. Viktorovich, C. Sotomayor Torres Eds., SPIE Proceeding vol. 5450 (SPIE, Bellingham, USA, 2004), p.260.
167. M. Galli, M. Belotti, D. Bajoni, M. Patrini, G. Guizzetti, D. Gerace, M. Agio, L.C. Andreani, Y. Chen:
Excitation of radiative and evanescent defect modes in linear photonic crystal waveguides
Physical Review B **70**, 081307(R) (2004).
Selected by Virtual Journal of Nanoscale Science and Technology 10, n.10 (2004).
168. M. Belotti, M. Galli, D. Bajoni, L.C. Andreani, G. Guizzetti, D. Decanini., Y. Chen:
Investigation of SOI photonic crystals fabricated by both electron-beam lithography and nanoimprint lithography
Microelectronic Engineering **73-74**, 405 (2004).
169. M. Galli, D. Bajoni, M. Belotti, F. Paleari, M. Patrini, G. Guizzetti, D. Gerace, M. Agio, L. C. Andreani, Y. Chen:
Measurement of radiative and guided modes in silicon –on-insulator photonic crystal slabs
Proc. European Workshop on Photonic Crystals (ESPC - 6th ICTON, Wroclaw, 2004), p.359.
170. D. Bajoni, M. Galli, M. Belotti, F. Paleari, M. Patrini, G. Guizzetti, D. Gerace, M. Agio, L.C. Andreani, Y. Chen:
Optical spectroscopy of Silicon-on-insulator waveguide photonic crystals
Materials Research Society Symp. Proc. **817**, L2.8.1 (2004).
171. M. Belotti, M. Galli, D. Bajoni, G. Guizzetti, D. Gerace, M. Agio, L.C. Andreani, P. Lalanne, Y. Chen:
Optical spectroscopy of Silicon-On-Insulator waveguide photonic crystals
"Nanophotonics, Nanostructures, and Nanometrology" X. Zhu, S.Y. Chou, Y. Arakawa Eds., Proc. SPIE Vol. **5635** (SPIE, Bellingham, WA, 2005) p.116.
172. M. Galli, D. Bajoni, M. Belotti, F. Paleari, M. Patrini, G. Guizzetti, D. Gerace, M. Agio, L. C. Andreani, D. Peyrade, Y. Chen:
Measurement of photonic mode dispersion and linewidths in Silicon-on-Insulator photonic crystal slabs
IEEE Journal of Selected Areas in Communications **23**, 1402 (2005).

173. M. Geddo, G. Guizzetti, V. Bellani, M. Patrini, T. Ciabattoni, L. Seravalli, P. Frigeri, M. Minelli, S. Franchi:
Optical study of the strain driven tuning of emission energy in InAs/InGaAs quantum dot heterostructure
Electrochemical Society Proceedings **2004-13**, 373 (2005).
174. F. Marabelli, A. Rastelli, O.G. Schhmidt, G. Beautin, M. Geddo, G. Guizzetti:
Optical characteriation of hierarchically self-assembled GaAs/AlGaAs quantum dots
Materials Research Society Symp. Proc. **829**, B1.7.1 (2005).
175. G. Guizzetti and M. Patrini:
Optical properties of materials
in “Encyclopedia of condensed matter physics”, F. Bassani, J. Liedl, P. Wyder Editors (Academic Press, 2005), p.183.
176. C. Comaschi, G. Vecchi, A.M. Malvezzi, M. Patrini, G. Guizzetti, M. Liscidini, L.C. Andreani, D. Peyrade, Y. Chen:
Enhanced third harmonic reflection and diffraction in Silicon on Insulator photonic waveguides
Applied Physics B **81**, 305 (2005).
177. M. Galli, D. Bajoni, M. Patrini, G. Guizzetti, D. Gerace, L.C. Andreani, M. Belotti, Y. Chen:
Single-mode versus multi-mode behavior in Silicon photonic crystal waveguides measured by attenuated total reflectance
Physical Review B **72**, 125322 (2005).
Selected by Virtual Journal of Nanoscale Science and Technology 12, n.13 (2005).
178. Gerace D, Galli M, D. Bajoni, Guizzetti G, Andreani L.C., Riboli F, Melchiorri M, Daldosso N, Pavesi L, Pucker G, Cabrini S, Businaro L, Di Fabrizio E.:
Wide-band transmittance of one-dimensional photonic crystals carved in Si₃N₄/SiO₂ channel waveguides
Applied Physics Letters **87**, 211116 (2005).
179. M. Geddo, G. Guizzetti, M. Patrini, T. Ciabattoni, L. Seravalli, P. Frigeri, S. Franchi:
Metamorphic buffers and optical measurement of residual strain
Applied Physics Letters **87**, 263120 (2005).
Selected by Virtual Journal of Nanoscale Science and Technology 13, n.2 (2005).
180. L. Seravalli, M. Minelli, P. Frigeri, S. Franchi, G. Guizzetti, M. Patrini, T. Ciabattoni, M. Geddo:
Quantum dot strain engineering of InAs/InGaAs nanostructures
Journal of Applied Physics **101**, 024313 (2007).
Selected by Virtual Journal of Nanoscale Science and Technology 15, n.5 (2007).
181. M. Geddo, T. Ciabattoni, G. Guizzetti, M. Galli, M. Patrini, A. Polimeni, R. Trotta, M. Capizzi, G. Bais, M. Piccin, S. Rubini, F. Martelli, A. Franciosi:
Photorefectance and Reflectance investigation of deuterium-irradiated GaAsN
Applied Physics Letters **90**, 091907 (2007).
- 182 V. Bellani, C. Bocchi, T. Ciabattoni, S. Franchi, P. Frigeri, P. Galinetto, M. Geddo, F. Germini, G. Guizzetti, L. Nasi, M. Patrini, L. Seravalli, G. Trevisi:
Residual strain measurements in InGaAs metamorphic buffer layers on GaAs
European Physical Journal B **56**, 217 (2007).
183. Redattore del volume “Highlights on spectroscopies of semiconductors and nanostructures”,
Conference Proceedings Series Vol.94, G. Guizzetti, M. Patrini, L.C. Andreani, F. Marabelli Eds. (Il Nuovo Cimento, Bologna, 2007).
184. L.C. Andreani, M. Galli, M. Agio, D. Bajoni, M. Belotti, D. Gerace, G. Guizzetti, M. Liscidini, M. Patrini, A. Politi:
Theory and optical properties of photonic crystal slabs
in “Highlights on Spectroscopy of Semiconductors and Nanostructures” – Conference Proceedings Series Vol.94, Eds. G. Guizzetti, L.C. Andreani, F. Marabelli, M. Patrini, (Società Italiana di Fisica, Bologna, 2007), pp. 177 [Italy].
185. L. Seravalli, G. Trevisi, M. Minelli, P. Frigeri, S. Franchi, M. Geddo, G. Guizzetti, M. Patrini, T. Ciabattoni:
Engineering of quantum dot structures for light emission in the spectral windows of photonic interest
“Highlights on Spectroscopy of Semiconductors and Nanostructures” – Conference Proceedings Series Vol.94, Eds. G.

- Guizzetti, L.C. Andreani, F. Marabelli, M. Patrini, (Società Italiana di Fisica, Bologna, 2007), pp. 297 [Italy].
186. M. Belotti, M. Galli, D. Gerace, L.C. Andreani, G. Guizzetti, A. Md Zain, N.P. Johnson, M. Sorel, R. De La Rue:
All-optical switching in Silicon-on-Insulator Photonic Wire Nanocavities
Proc. Integrated Photonics and Nanophotonics Research and Applications (IPNRA), Optical Society of America Technical Digest, paper JMA3 (2009).
187. L. Seravalli, G. Trevisi, P. Frigeri, S. Franchi, M. Geddo, G. Guizzetti:
The role of wetting layer states on the emission efficiency of InAs/InGaAs metamorphic quantum dot nanostructures
Nanotechnology **20**, 275703 (2009).
188. M. Belotti, M. Galli, D. Gerace, L.C. Andreani, G. Guizzetti, A. Md Zain, N.P. Johnson, M. Sorel, R. De La Rue:
All-optical switching in Silicon-on-Insulator photonic wire nanocavities
Optics Express **18**, 1450 (2010).
189. M. Galli, D. Gerace, K. Welna, T.F. Krauss, L. O'Faolain, G. Guizzetti, L.C. Andreani:
Low-power continuous-wave generation of visible harmonics in silicon photonic crystal nanocavities.
Optics Express **18**, 26613 (2010).
190. E. Giulotto, M. Geddo, M.S. Grandi, G. Guizzetti, G. Trevisi, L. Seravalli, P. Frigeri, S. Franchi:
Raman scattering in InAs/AlGaAs quantum dot nanostructures
Applied Physics Letters **98**, 111903 (2011).
191. Andreani, L.C., Galli, M., Gerace, D., Guizzetti, G., Portalupi, S.L., Welna, K., Reardon, C., O'Faolain, L., Krauss, T.F.
Nonlinear optics in silicon photonic crystal nanocavities
2011 ICO International Conference on Information Photonics, IP 2011, art. no. 5953794, (2011).
192. Galli, M., Gerace, D., Portalupi, S.L., Welna, K., Reardon, C., Krauss, T.F., O'Faolain, L., Guizzetti, G., Andreani, L.C.
Low-power continuous-wave generation of second- and third-harmonic light in silicon photonic crystal nanocavities
2011 Conference on Lasers and Electro-Optics: Laser Science to Photonic Applications, CLEO 2011, art. no. 5951363, (2011).
193. M. Geddo, M. Patrini, G. Guizzetti, M. Galli, R. Trotta, A. Polimeni, M. Capizzi, F. Martelli and S. Rubini:
Optical study of hydrogen-irradiated GaAsN/GaAs heterostructures
Journal of Applied Physics **109**, 123511 (2011).
194. Gerace, D., Galli, M., Portalupi, S.L., Welna, K., Reardon, C., Krauss, T.F., O'Faolain, L., Guizzetti, G., Andreani, L.C.
Low-power continuous-wave frequency conversion in far-field optimized silicon photonic crystal nanocavities
2011 Conference on Lasers and Electro-Optics Europe and 12th European Quantum Electronics Conference, CLEO EUROPE/EQEC 2011, art. no. 5943211, (2011).
195. Andreani, L.C., Andrich, P., Galli, M., Gerace, D., Guizzetti, G., Lo Savio, R., Portalupi, S.L., O'Faolain, L., Reardon, C., Welna, K., Krauss, T.F.
Nonlinear optics in Silicon photonic crystal cavities
(2011) International Conference on Transparent Optical Networks (ICTON), art. no. 5970818.
196. A. Shakoor, L. O'Faolain, M. Galli, R. Lo Savio, S.L. Portalupi, Welna, K., Gerace, D., Guizzetti, G., Andreani, L.C., Krauss, T.F., Irrera, A., G. Franzò, F. Priolo:
Subbandgap photoluminescence of Si photonic crystal nanocavity at room temperature
IEEE International Conference on Group IV Photonics GFP, art. no. 6053736, 121-123 (2011).
197. S. Pirotta, X. G. Xu §, A. Delfan, S. Mysore §, S. Maiti, G. Dacarro, M. Patrini, M. Galli, G. Guizzetti, D. Bajoni, J. E. Sipe, G. C. Walker
Surface-Enhanced Raman Scattering in Purely Dielectric Structures via Bloch Surface Waves
J. Phys. Chem. C **2013**, **117**, 6821-6825.