

Elenco pubblicazioni Prof. Danilo Pedron

Articoli su rivista:

- 1) "Molecular cluster models for the analysis of the optical spectra of organic charge transfer crystals: properties and applications"
R. Bozio, M. Meneghetti, D. Pedron, and C. Pecile (1988), *Synth. Metals* **27**, B109 – B114.
- 2) "Optical studies of the interplay between electron--lattice and electron--electron interactions in organic molecular conductors"
R. Bozio, M. Meneghetti, D. Pedron, and C. Pecile (1988), *Synth. Metals* **27**, B129 – B136.
- 3) "Electron--electron interactions and $4k_F$ localization in the Bechgaard salts and their sulfur analogs: a spectroscopic outlook"
R. Bozio, D. Pedron, M. Meneghetti, and C. Pecile (1991), *Synth. Metals* **42**, 1653 – 1656.
- 4) "Coupling of electrons to low--frequency phonons in cation radical salts of TTF studied by resonance Raman scattering"
A. Speghini, D. Pedron, C. Bellitto, L. Feltre, and R. Bozio (1993), *Molec. Cryst. Liq. Cryst.* **234**, 219 – 226.
- 5) "Electron--phonon coupling in low dimensional organic superconductors"
D. Pedron, R. Bozio, M. Meneghetti, and C. Pecile (1993), *Molec. Cryst. Liq. Cryst.* **234**, 161 – 170.
- 6) "Electronic interactions in the organic conductors $(\text{TMTSF})_2\text{X}$ ($\text{X}=\text{ClO}_4$ and PF_6) and $(\text{TMTTF})_2\text{X}$ ($\text{X}=\text{Br}$ and PF_6) from their infrared spectra"
D. Pedron, R. Bozio, M. Meneghetti, and C. Pecile (1994), *Phys. Rev.* **B49**, 10893 – 10907.
- 7) "Coupling of electrons to intermolecular phonons in molecular charge transfer dimers: A resonance Raman study"
D. Pedron, A. Speghini, V. Mulloni, and R. Bozio (1995), *J. Chem. Phys.* **103**, 2795 – 2809.
- 8) "Effects of the mixing of charge transfer and molecular excitations on the resonance Raman properties of symmetric radical dimers"
V. Mulloni, D. Pedron, and R. Bozio (1996), *Chem. Phys. Lett.* **263**, 331 – 337.
- 9) "Raman spectroscopy of low frequency phonons in the organic superconductor $\kappa\text{-(BEDT-TTF)}_2\text{Cu}[\text{N}(\text{CN})_2]\text{Br}$ "
D. Pedron, G. Visentini, E. Cecchetto, R. Bozio, J. M. Williams, and J. A. Schlueter (1997), *Synth. Metals* Vol. **85**, 1509 – 1510.
- 10) "Phonon dynamics and superconductivity in the organic crystal $\kappa\text{-(BEDT-TTF)}_2\text{Cu}[\text{N}(\text{CN})_2]\text{Br}$ "
D. Pedron, G. Visentini, R. Bozio, J. M. Williams, and J. A. Schlueter (1997), *Physica C* **276**, 1 – 8.

- 11) "Electron-phonon coupling in κ -(BEDT-TTF)₂X organic superconductor studied by Raman scattering spectroscopy"
D. Pedron, R. Bozio, A. Schlueter, M.E. Kelly, A.M. Kini, J., J. M. Williams (1998), *Abstracts of Papers of the American Chemical Society* **215**, U673 – U673.
- 12) "Coupling of Charge-Transfer Transitions to Low-Wavenumber Phonons in Quasi-One-Dimensional Radical Ion Salts: Resonance Raman Study of Tetraethylammonium-DDQ"
D. Pedron, S. Lavina, V. Mulloni, R. Bozio (1998), *J. Raman Spectrosc.* **29**, 907 – 913.
- 13) "Electron-phonon coupling in κ -(BEDT-TTF)₂Cu(NCS)₂ organic superconductor studied by Raman scattering spectroscopy"
D. Pedron, R. Bozio, M.E. Kelly, A.M. Kini, J. A. Schlueter, J. M. Williams (1999), *Synth. Metals* **103**, 2220 – 2223.
- 14) "Chemistry of cultural glasses: the early medieval glasses of Monselice's hill (Padova, Italy)"
R. Bertoncello, L. Milanese, U. Russo, D. Pedron, P. Guerriero, S. Barison (2002), *Journal of Non-Crystalline Solids* **306**, 249 – 262.
- 15) "Photomodulation of the chiroptical properties of new chiral methacrylic polymers with side-chain azobenzene moieties"
L. Angiolini, R. Bozio, L. Giorgini, D. Pedron, G. Turco, A. Daurù (2002), *Chemistry – A European Journal* **8**, 4241 – 4247.
- 16) "Novel heterocycle-based two-photon absorbing dyes"
A. Abbotto, L. Beverina, R. Bozio, A. Facchetti, C. Ferrante, G.A. Pagani, D. Pedron, R. Signorini (2002), *Organic Letters* **4**, 1495 – 1498.
- 17) "Optical limiting based on multiphoton processes in carbon nanostructures and heterocyclic quadrupolar"
R. Signorini, D. Pedron, C. Ferrante, R. Bozio, G. Brusatin, P. Innocenzi, F. Della Negra, M. Maggini, S. Abbotto, L. Beverina, G.A. Pagani, (2003), *SPIE Proceedings* **4797**, 1 – 14.
- 18) "Reversible chirality inversion of photochromic methacrylic polymers upon irradiation with one-handed circularly polarized light"
L. Angiolini, L. Giorgini, R. Bozio, D. Pedron (2003), *Synthetic Metals* **138**, 375 – 379.
- 19) "Design and synthesis of heterocyclic multi-branched dyes for two-photon absorption"
A. Abbotto, L. Beverina, S. Bradamante, A. Facchetti, G.A. Pagani, R. Bozio, C. Ferrante, D. Pedron, R. Signorini (2003), *Synthetic Metals* **139**, 795 – 797.
- 20) "Photoinduced chiroptical bistability in new chiral methacrylic azobenzene-containing polymers"
L. Angiolini, T. Benelli, R. Bozio, A. Daurù, L. Giorgini, D. Pedron (2003), *Synthetic Metals* **139**, 743 – 746.
- 21) "Novel heteroaromatic-based multi-branched dyes with enhanced two-photon absorption activity"
A. Abbotto, L. Beverina, R. Bozio, A. Facchetti, C. Ferrante, G.A. Pagani, D. Pedron, R. Signorini (2003), *Chemical Communications* **2003**, 2144 – 2145.

- 22) “Synthesis, chiroptical properties and photoinduced linear birefringence of the homopolymer of (*R*)-3-methacryloyloxy-1-(4'-cyano-4-azobenzene)pyrrolidine and of the copolymers with its enantiomeric monomer”
L. Angiolini, T. Benelli, L. Giorgini, E. Salatelli, R. Bozio, A. Daurù, D. Pedron (2005), *European Polymer Journal*, **41** (9), 2045 – 2054.
- 23) “Improvement of photoinduced birefringence properties of optically active methacrylic polymers through copolymerization of monomers bearing azoaromatic moieties”
L. Angiolini, T. Benelli, L. Giorgini, E. Salatelli, R. Bozio, A. Daurù, D. Pedron (2006), *Macromolecules*, **39**, 489 – 497.
- 24) “One- and two-photon absorption and emission properties of a Zn(II) chemosensor”
Bozio R.; Cecchetto E.; Fabbrini G.; Ferrante C.; Maggini M.; Menna E.; Pedron D.; Ricco R.; Signorini R.; Zerbetto M. (2006), *JOURNAL OF PHYSICAL CHEMISTRY A*, **110**, 6459 – 6464.
- 25) “Two-photon absorption of Zn(II) octupolar molecules”
Mazzucato S., Fortunati I., Scolaro S., Zerbetto M., Ferrante C., Signorini R., Pedron D., Bozio R.; Locatelli D., Righetto S., Roberto D., Ugo R., Abbotto A., Archetti G., Beverina L., Ghezzi S. (2007), *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*, **9**, 2999 – 3005.
- 26) “Photoresponsive polymers containing side-chain chiral azocarbazole chromophores as multifunctional materials”
Angiolini L.; Bozio R.; Dainese T.; Giorgini L.; Golemme A.; Mauriello F.; Pedron D.; Termine R. (2007), *SPIE Proceedings*, **6653**, 65305 – 65305.
- 27) “Immiscibility between carbonic fluids and granitic melts during crustal anatexis: A fluid and melt inclusion study in the enclaves of the Neogene Volcanic Province of SE Spain”
Cesare B.; Maineri C.; Toaldo A. B.; Pedron D.; Vigil A. A. (2007), *CHEMICAL GEOLOGY*, **237**, 433 – 449.
- 28) “Synthesis, chiroptical properties and photoinduced birefringence of optically active methacrylic copolymers bearing side-chain bisazoaromatic moieties”
Angiolini L.; Benelli T.; Giorgini L.; Mauriello F.; Salatelli E.; Bozio R.; Dauru A.; Pedron D. (2007), *EUROPEAN POLYMER JOURNAL*, **43**, 3550 – 3561.
- 29) “Zirconium phosphate phosphonate multilayered films based on push-pull stilbazolium salt: synthesis, characterization and second harmonic generation”
Morotti T.; Calabrese V.; Cavazzini M.; Pedron D.; Cozzuol M.; Licciardello A.; Tuccitto N.; Quici S. (2008), *DALTON TRANSACTIONS*, 2974 – 2982.
- 30) “Second order nonlinear optical properties of multifunctional chiral azobenzene polymers”
Angiolini L.; Benelli T.; Bozio R.; Cozzuol M.; Giorgini L.; Pedron D.; Salatelli E. (2008), *E-POLYMERS*, article number: 013.
- 31) “A three steps procedure (swelling-poling-deswelling) to produce a stable alignment of second order NLO-phores covalently attached to a cross-linked polymeric network”
Proutiere S.; Ferruti P.; Ugo R.; Abbotto A.; Bozio R.; Cozzuol M.; Dragonetti C.; Ernilitri E.; Locatelli D.; Marinotto D.; Pagani G.; Pedron D.; Roberto D. (2008), *MATERIALS SCIENCE*

- 32) “Effective two-photon absorption cross section of heteroaromatic quadrupolar dyes: Dependence on measurement technique and laser pulse characteristics”
Signorini R.; Ferrante C.; Pedron D.; Zerbetto M.; Cecchetto E.; Slaviero M.; Fortunati I.; Collini E.; Bozio R.; Abbotto A.; Beverina L.; Pagani G. A. (2008), *JOURNAL OF PHYSICAL CHEMISTRY A*, **112**, 4224 – 4234.
- 33) “Non-resonant z-scan characterization of the third-order nonlinear optical properties of conjugated poly(thiophene azines)”
Faccinetto A.; Mazzucato S.; Pedron D.; Bozio R.; Destri S.; Porzio W. (2008), *CHEMPHYSICHEM*, **9**, 2028 – 2034.
- 34) “Aluminocerite–Ce: A new species from Baveno, Italy: Description and crystal–structure determination”
Nestola F.; Guastoni A.; Camara F.; Secco L.; Dal Negro A.; Pedron D.; Beran A. (2009), *AMERICAN MINERALOGIST*, **94**, 487 – 493.
- 35) ““Nanogranite” and glassy inclusions: The anatectic melt in migmatites and granulites”
Cesare B.; Ferrero S.; Salviolo-Mariani E.; Pedron D.; Cavallo A. (2009), *GEOLOGY*, **37**, 627 – 630.
- 36) “Stable SHG from in situ grown oriented nanocrystals of [(E)-N,N-dimethylamino-N'-methylstilbazolium][p-toluenesulfonate] in a PMMA film”
Macchi R.; Cariati E.; Marinotto D.; Roberto D.; Tordin E.; Ugo R.; Bozio R.; Cozzuol M.; Pedron D.; Mattei G. (2010), *JOURNAL OF MATERIALS CHEMISTRY*, **20**, 1885 – 1890.
- 37) “Evidence of dmisteinbergite (hexagonal form of $\text{CaAl}_2\text{Si}_2\text{O}_8$) in pseudotachylyte: A tool to constrain the thermal history of a seismic event”
Nestola F.; Mittempergher S.; Di Toro G.; Zorzi F.; Pedron D. (2010), *AMERICAN MINERALOGIST*, **95**, 405 – 409.
- 38) “Evidence for the applicability of a novel procedure (swelling-poling-deswelling) to produce a stable alignment of second order NLO-chromophores covalently attached to a cross-linked PMMA or polystyrene polymeric network”
Marinotto D.; Proutiere S.; Dragonetti C.; Colombo A.; Ferruti P.; Pedron D.; Ubaldi M. C.; Pietralunga S. (2011), *JOURNAL OF NON-CRYSTALLINE SOLIDS*, **357**, 2075 – 2080.
- 39) “Tazzoliite: a new mineral with a pyrochlore-related structure from the Euganei Hills, Padova, Italy”
Camara F.; Nestola F.; Bindi L.; Guastoni A.; Zorzi F.; Peruzzo L.; Pedron D. (2012), *MINERALOGICAL MAGAZINE*, **76**, 827 – 838.
- 40) “Manganoblodite, $\text{Na}_2\text{Mn}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$, and cobaltoblodite $\text{Na}_2\text{Co}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$: two new members of the blodite group from the Blue Lizard mine, San Juan County, Utah, USA”
Kasatkin A.V.; Nestola F.; Plasil J.; Marty J.; Belakovskiy D.I.; Agakhanov A.A.; Mills S.J.; Pedron D.; Lanza A.; Favaro M.; Bianchin S.; Lykova I.S.; Golias V.; Birch W.D. (2013), *MINERALOGICAL MAGAZINE*, **77**, 367 – 383.

Articoli su libro:

- 1) "Structural properties of molecular charge--transfer conductors and semiconductors from infrared and Raman spectroscopy"
R. Bozio, A. Feis, D. Pedron, I. Zanon, and C. Pecile (1991), in *Lower--Dimensional Systems and Molecular Electronics*, vol. **248**, pp. 23 – 41, edited by R.M. Metzger, P. Day and G. Papavassiliou, Plenum Press, New York.
- 2) "Optical studies of the interplay between electron--lattice and electron--electron interactions in organic conductors and superconductors"
R. Bozio, M. Meneghetti, D. Pedron, and C. Pecile (1991), in *Lower--Dimensional Systems and Molecular Electronics*, vol. **248**, pp. 129 – 142, edited by R.M. Metzger, P. Day and G. Papavassiliou, Plenum Press, New York.
- 3) "Novel Heterocycle-based Two-Photon Absorbing Dyes"
A. Abbotto, L. Beverina, R. Bozio, S. Bradamante, A. Facchetti, C. Ferrante, G.A. Pagani, D. Pedron, R. Signorini (2003), in *Organic Nanophotonics*, vol. **100**, pp. 385 – 393, edited by F. Charra, V.M. Agranovich, F. Kajzar, Kluwer Academic Publishers, Dordrecht (Netherlands).
- 4) "Highly Efficient Multiphoton Absorption in a new quadrupolar heterocyclic dye"
R. Signorini, C. Ferrante, D. Pedron, M. Slaviero, R. Bozio, L. Beverina, A. Abbotto, G.A. Pagani (2003), in *Organic Nanophotonics*, vol. **100**, pp. 231 – 240, edited by F. Charra, V.M. Agranovich, F. Kajzar, Kluwer Academic Publishers, Dordrecht (Netherlands).

Atti di convegno:

- 1) "Resonance Raman spectroscopy of charge transfer dimers"
V. Mulloni, D. Pedron, and R. Bozio (1996), *Proceedings of the XV International Conference on Raman Spectroscopy*, pp. 92 – 93, edited by S. A. Asher and P. B. Stein, J. Wiley & Son, Chichester.
- 2) "Fotomodulazione delle proprietà chiroottiche e inversione di chiralità per irraggiamento con luce circolarmente polarizzata di polimeri metacrilici fotocromici otticamente attivi"
L. Angiolini, R. Bozio, L. Giorgini, D. Pedron, G. Turco (2001), *Atti del XV Convegno Italiano di Scienza e Tecnologia delle Macromolecole* (24-27/09/2001), pp. 237 – 240.
- 3) "Ultrafast Relaxation dynamics of the CT state of (TTF⁺)₂ radical dimers embedded in a PMMA polymer film"
C. Ferrante, D. Pedron, R. Pilot, B. Scremin, R. Bozio (2001), in *Recent Advances in Ultrafast Spectroscopy*, pp. 97 – 104, Proceedings of the XII UPS Conference (28/10-1/11/2001) edited by S. Califano, P. Foggi, R. Righini, Leo S. Olschki ed., Firenze.
- 4) "Photomodulation of birefringence and chirooptical properties of novel photochromic chiral polymers"
L. Angiolini, T. Benelli, L. Giorgini, R. Bozio, A. Daurù, D. Pedron, Proceedings World Polymer Congress, MACRO 2004, Parigi, Francia, 4 – 9 luglio 2004.