

CURRICULUM VITAE

FORMATO EUROPEO

PERSONAL DATA

Surname , Name	Michele Giocondo
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E-mail	michele.giocondo@cnr.it
WEB	http://www.licryl.it
Citizenship	Italian
Place and date of birth	Cosenza 1st january 1960

PROFESSIONAL EXPRIENCES

To fill if CNR employee	N. MATRICOLA: 27922 QUALIFICA: RICERCATORE LIVELLO: III
Lnguages	Italian – mother tongue English – fluent French - fluent
Most relevant dulies and appointments	Management Since 05/2015 Delegate director of SS-CS Licryl - Istituto di Nanotecnologia - Nanotec CNR 2015 eligible for the appointment of director of Institute CNR (call CNR 364.189) 2012-2015: Responsible for the project PONA3_00362/1 <i>Materials and processes BEYOND the NANO-scale (Beyond-Nano)</i> - Polo di Cosenza. Aimed to the setup of a CNR research infrastructure focused on nanostructured advanced materials for optics, photonics, bio-medicine, and training of two highly specialized professional figures. Funding: Italian University Ministry - MIUR, 3.7 M€ 2012 - 2014 Responsible of the training program Form@Beyond-Nano associated to the PONA3_00362 project 2010-2014: Responsible of the project CNR MD.P01.015.010 - Bio-soft matter physics and health sciences. 2010-2012 – Managing Director and Liquidator of LiCET - Liquid Crystals Enterprise for Technology in Calabria S.r.l. a second level CNR Spin Off.

2009 -2010: Responsible of the project CNR MD.P10.021 - Bio-soft matter physics and health sciences.

2006-2008 Project coordinator *INTAS 05-1000007-432 - Time-Resolved Liquid Crystal Tilt Measuring System* - in partnership with the Ukrainian Academy of Sciences - Kiev (UA).

2004-2009 Responsible of the project CNR MD.P10.007 - Soft matter and nanotechnologies for electro-optics and bio-medicine and related applications.

2001-2002 Project coordinator - *Progettazione e realizzazione di un ritardatore variabile /modulatore di polarizzazione per filtro solare/magnetografo* - Contract ASI I/160/01/0
Funding: Italian Space Agency, € 144.250

2000-2010 Member of the Board of LiCET - Liquid Crystals Enterprise for Technology in Calabria S.r.l., a second level CNR Spin Off Company.

Jul 1998 – Dec 2004: Managing Director and Scientific Responsible of CaLCTec – Calabria Liquid Crystals Technology S.r.l., a Spin-Off Company of the Istituto Nazionale per la Fisica della Materia (INFN), focused on the science and the technology of liquid crystals.

Scientific/Academic

2015-2017 Ph.D Thesis supervisor - Dottorato di Ricerca in Scienze delle tecnologie fisiche, chimiche e dei materiali - XXX ciclo - Thesis: *3D nano- and micro- fabrication for photonic and optical devices* - Candidate: Tiziana Ritacco

2013 Ph. D. Thesis Referee: *Engineering three-dimensional extended arrays of densely packed nanoparticles for optical metamaterials using microfluidic evaporation.*
Candidate: A. Iazzolino - Université Bordeaux 1 (F)

2009 Invited Professor - Université de Bordeaux 1 (F).

Since 2007 member of the Council of the Teachers – International Doctoral School “B. Telesio” – Università della Calabria.

2007-2009 Ph.D Thesis supervisor (joint supervision with Université Pierre et Marie Curie - Paris - Dottorato di Ricerca in Scienze e Tecnologie delle Mesofasi e dei Materiali Molecolari - XXII ciclo - Thesis: *Atomic Force microscopy study of physico-chemical and nanotribological properties of hydrophobin protein* Candidate: Said Houmadi

Since Dec 2004: Researcher fellow at the Italian Consiglio Nazionale delle Ricerche – CNR.

1999 Research fellow at Laboratoire de Physique des Solides - Univ. Paris Sud - Orsay (F).

1997 Research fellow at Laboratoire de Physique des Solides - Univ. Paris Sud - Orsay (F)

1996 Research fellow at Laboratoire de Physique des Solides - Univ. Paris Sud - Orsay (F)

1995 Research fellow at Max Planck Research Group, Liquid Crystal System - Halle/Saale (D).
Study of the anchoring properties of SmC* liquid crystals

1995 - today: more than 30 lecturing appointments in physics, statistics, fluid mechanics, solid state physics at Università della Calabria - Cosenza and Università Magna Graecia - Catanzaro

Referee for ACS – Langmuir, Elsevier - Colloids and Surfaces B, IOP – Physica Scripta, OSA - Optics Express.

EDUCATION AND TRAINING

- 1996: Ph.D. in physics - VIII Ciclo - Thesis: "Surface properties of nematic liquid crystals"
Università della Calabria – Cosenza IT
- 1990-1992 Granted student at Laboratoire de Physique des Solides - Univ. Paris Sud - Orsay
(F) – interfacial properties of liquid crystals and bistability in nematics. The study
was focused on the effects of the ionic transport and the hydrodynamics on the
surface orientation of liquid crystals in confined geometries
- 1992 Graduate in Physics – mark 110/110 - Thesis: "Influenza delle perturbazioni
parametriche sul caos deterministico". Università della Calabria - Cosenza.

RESEARCH ACTIVITY

Research Fields	<p>Nanofabrication of 3D structures by 2-Photons Direct Laser Writing (2P-DLW) for plasmonics and advanced optics. This technique allows for the realization of polymeric 3D structures of arbitrary complexity with details down to typically 100 nm. The research activity is focused on the methods to exploit the 2P-DLW technique to add metallic details to the polymeric structures, in order to fabricate polymeric/metallic nano-composites. The adopted method has a combined bottom-up / top-down approach and is based on the 2-Photons Photo-Reduction (2P-PR) of a metallic (at the moment Au and Ag) precursor dissolved in a polymeric matrix. Upon laser exposure, in the focus region a cluster of NPs with size dispersed in the range 2-100 nm is created. This method allows for the fabrication of metallic structures with a resolution comparable to that achievable by 2P-DLW in polymers. The activity is actually focused on the study of the physical processes involved in the nucleation/growth of the NPs, with the aim to get a control on their size and density. Indeed, beyond the bare photochemistry, the process is ruled by thermal, and competitive diffusive and convective effects, whose balancing is proving to be fundamental for the accurate control of the fabrication process.</p> <p>Creation and engineering of micro/nano structured materials with Bottom-Up and Top-Down approaches (Thermal and Plasma-Assisted PVD, Mask - UV lithography, 2P-Direct Laser Writing)</p> <p>Mechanical properties at the nano-scale of soft materials (both organic and biologic) by spectroscopy AFM combined with Confocal multi-photon Microscopy. This combination allows the correlation between the local mechanical properties (elastic modulus, adhesion forces) with specific parts of the sample, stained with functional fluorescent dyes, specific for the site of interest.</p> <p>Protein self aggregation studied by Langmuir / AFM techniques, with a particular concern in the amyloid aggregation. The study is aimed to a deeper understanding of the aggregation mechanisms at the liquid/vapour interface. The involved unfolding/misfolding can be revealed by the analysis of the force Vs. distance curve. This technique allows for the hydrostatic character assessment at the nano-scale.</p> <p>Re-orientational dynamics in complex fluids studied by microsecond time resolved Dynamic Half Leaky Guided Modes.</p> <p>Chemical-physical properties of the interfaces between proteins and organic/inorganic substrates</p>
Previous scientific activities	<p>2005 Study on the optical properties of liquid crystals in the near infra-red region, with Half leaky Guided Modes reflectometry and Ellipsometry</p> <p>Up to 2004, re-orientational dynamics in nematic liquid crystals thin films and anchoring properties of LCs on silicon substrates. This research has been carried out in the frame of the Spin-Off Company Calctec s.r.l. and, having a strong applicative character in the domain of LCOS (liquid crystals on silicon) devices, has been the subject of a technological transfer action toward a ICT Company belonging to an important Italian Holding.</p> <p>1990-1998 surface properties of liquid crystals with a particular reference to multistable anchorings. These special substrates made possible to demonstrate several schemes to obtain mechanical bistability in media intrinsically monostables, as the nematic liquid crystals. In these years the possibility to stabilize bulk molecular director arrangements otherwise unstable with suitable surface constrains and the controlled switch between different configurations featuring different optical properties has been demonstrated for many devices, as proved by the produced academic and IP literature. The work has been faced both from the experimental and the theoretical point of view, with a strong commitment in the applicative field.</p>
Publications	<p>20 Patents and over than 40 peer reviewed papers (ISI - 627 citations (502 without self citations), Average citations per paper: 14.93, h-index 15 (last update: 13/10/2016))</p> <p>Peer reviewed papers</p> <p>47) M. Giocondo, E. Bruno, S. Longobardi, P. Giardina, N. Scaramuzza and R. Bartolino <i>Self-Assembling kinetic of Class I Hydrophobin floating film</i> under submission (2016)</p> <p>46) V.G. Ivanov et al. - <i>Strong surface enhanced Raman scattering from gold nanoarrays obtained by direct laser writing</i> - To appear in Journal of Physics – Conference Series (2016)</p>

- 45) L. Pezzi, G. Palermo, A. De Luca, A. Veltri, U. Cataldi, T. Bürgi, T. Ritacco, M. Giocondo, and C Umeton
Photo-induced temperature variations in a uniform layer of gold nanoparticles: from collective effects down to heating nanolocalization
Submitted - Sci Rep. (2016)
- 44) Iryna Gryn, Emmanuelle Lacaze, Luigi Carbone, Michele Giocondo, and Bruno Zappone
Electric-Field-Controlled Alignment of Rod-Shaped Fluorescent Nanocrystals in Smectic Liquid Crystal Defect Arrays
Adv. Funct. Mater - DOI: 10.1002/adfm.201602729 (2016)
- 43) Bukreeva, I.; Mittone, A.; Bravin, A.; et al.
Virtual unrolling and deciphering of Herculanum papyri by X-ray phase-contrast tomography (vol 6, 27227, 2016) SCIENTIFIC REPORTS 6, Article Number: 30364
Published: SEP 9 2016
- 42) Bukreeva, I.; Mittone, A.; Bravin, A.; et al.
Virtual unrolling and deciphering of Herculanum papyri by X-ray phase-contrast tomography SCIENTIFIC REPORTS 6, Article Number: 27227 Published: JUN 6 2016
- 41) Kasyanyuk D, Pagliusi P, Mazzulla A, Reshetnyak V, Reznikov Y, Provenzano C, Giocondo M, Vasnetsov M, Yaroshchuk O, Cipparrone G.
Light manipulation of nanoparticles arrays designed by topological defects.
SCIENTIFIC REPORTS - In Press (2015)
- 40) Ritacco T, Ricciardi L, La Deda M and Giocondo M.
Controlling the optical creation of gold nanoparticles in a PVA matrix by direct laser writing.
JOURNAL OF THE EUROPEAN OPTICAL SOCIETY. RAPID PUBLICATIONS, vol. 10, - In Press (2015)
- 39) L. De Sio, M. Romito, M. Giocondo et al.
Electro-switchable polydimethylsiloxane-based optofluidics
LAB ON A CHIP **12** (19), 3760-3765 (2012)
- 38) S. Houmadi, R.D. Rodriguez, S. Longobardi, P. Giardina, M. C. Fauré, M. Giocondo, E. Lacaze
Self-Assembly of Hydrophobin Protein Rodlets Studied with Atomic Force Spectroscopy in Dynamic Mode
Langmuir **28** (5), 2551-2557 (2012)
- 37) A. Armenante, S. Longobardi, I. Rea, L. De Stefano, M. Giocondo, A. Silipo, A. Molinaro, P. Giardina..
The Pleurotus ostreatus hydrophobin vmh2 and its association with glucans.
Glycobiology, **20**, 594-602 (2010)
- 36) L. De Stefano, I. Rea, E. De Tommasi, I. Rendina, L. Rotiroti, M. Giocondo, S. Longobardi, A. Armenante, and P. Giardina.
Bioactive Modification of Silicon Surface using Self-assembled Hydrophobins from Pleurotus ostreatus.
EPJ E-Soft Matter & Biological Physics, **30** (2), 181-185 (2009)
- 35) L. De Stefano, I. Rea, E. De Tommasi, P. Giardina, A. Armenante, S. Longobardi, M. Giocondo, I. Rendina
Biological passivation of porous silicon by a self-assembled nanometric biofilm of proteins
Journal of Nanophotonics **3**, (2009).
- 34) S. Houmadi, F. Ciuchi, M.P. De Santo, L. De Stefano, I. Rea, P. Giardina, A. Armenante, E. Lacaze and M. Giocondo.
Langmuir-Blodgett film of hydrophobin protein from Pleurotus ostreatus at the air-water interface
Langmuir, **24** (22), 12953–12957, (2008). 10.1021/la802306r
- 33) F. Ciuchi, M. Giocondo, R. Barberi.
Electrically controlled defects at liquid crystal-polyimide interface
Liq. Cryst. **35** (1) 99 (2008)
- 32) L. De Stefano, I. Rea, A. Armenante, I. Rendina, P. Giardina and M. Giocondo.
Self-Assembled Biofilm of Hydrophobins Protect the Silicon Surface in the KOH Wet Etch Process.
Langmuir **23** (15) 7920 (2007)
- 31) V. Tkachenko, G. Abbate, A. Marino, F. Vita, M. Giocondo, A. Mazzulla, L. De Stefano.
Optical characterization of liquid crystals by combined ellipsometry and half-leaky-guided-mode spectroscopy in the visible-near infrared range.

- J. Appl. Phys. **101**, 073105 (2007)
- 30) A. Marino, G. Abbate, V. Tkachenko, I. Rea, L. De Stefano and M. Giocondo.
Ellipsometric study of liquid crystal infiltrated porous silicon
Mol. Cryst. and Liq. Cryst. **465**, 359 (2007)
 - 29) V. Tkachenko, G. Abbate, A. Marino, F. Vita, M. Giocondo, A. Mazzulla, L. De Stefano.
High accuracy optical characterization of anisotropic liquids by merging standard techniques
Appl. Phys. Lett. **89** (2006) 221110
 - 28) V. Tkachenko, G. Abbate, A. Marino, F. Vita, M. Giocondo, A. Mazzulla, F. Ciuchi, L. De Stefano.
Nematic Liquid Crystals Optical Dispersion in the Visible-Near Infrared Range
Mol. Cryst. and Liq. Cryst. **454**, 271[673] (2006). Taylor and Francis
 - 27) M. Iovane, A.L. Alexe-Ionescu, R. Barberi, J.J. Bonvent and M. Giocondo.
A Tool to Control the Nematic Surface Alignment: Anchoring Competition.
Mol. Cryst. and Liq. Cryst. **360**, 61 (2001). Gordon and Breach - Malaysia
 - 26) M. Giocondo, A. Jakli, A. Saupe.
Tilted smectic layers on homeotropically treated plates of a SmC liquid crystal.*
Eur. Phys. J. E **1**, 61 (2000). – EDP Sciences – Les Ulis - France
 - 25) M. Giocondo, I. Lelidis, I. Dozov, G. Durand.
Write and erase mechanism of surface controlled bistable nematic pixel.
Eur. Phys. J. AP **5**, 227 (1999). – EDP Sciences – Les Ulis - France
 - 24) R. Barberi, I. Dozov, M. Giocondo, M. Iovane, Ph. Martinot-Lagarde, S. Tonchev, L.V. Tsonev, D. Stoenescu.
Azimuthal anchoring of nematic on undulated substrate: elasticity versus memory..
Eur. Phys. J. B **6**, 83-91, (1998). – EDP Sciences – Les Ulis - France
 - 23) R. Barberi, J.J. Bonvent, M. Giocondo, M. Iovane, A.L. Alexe-Ionescu.
Bistable nematic azimuthal alignment induced by anchoring competition.
J. Appl. Phys. **3**, 1321 (1998). - AIP – Melville - NY - USA
 - 22) R. Barberi, M. Giocondo, M. Iovane, I. Dozov, E. Polossat.
Nematic anchoring transitions on bistable SiO films driven by temperature and impurities.
Liq. Cryst. **25**, 23 (1998). – Taylor and Francis – London - UK
 - 21) A.L. Alexe-Ionescu, R. Barberi, M. Giocondo, M. Iovane, A. Th. Ionescu.
Order distribution function of a linear polymerized photopolymer orienting a nematic liquid crystal.
Phys. Rev. E **2**, 1967 (1998). - APS - Ridge - NY - USA
 - 20) L. Fronzoni, M. Giocondo.
Controlling chaos with parametric perturbations.
Int. J. Of Bifurcation and Chaos. **8**, 8 - 1693 (1998). – World Scientific Publishing Company - Singapore
 - 19) R. Barberi, M. Giocondo, J. Li, R. Bartolino, I. Dozov, G. Durand.
Fast bistable nematic display with grey scale.
Appl. Phys. Lett. **71** (24), 3495 (1997). - AIP – Melville - NY - USA
 - 18) R. Barberi, M. Giocondo, J. Li, R. Bartolino, I. Dozov, G. Durand:
“Fast bistable nematic display using surface defects”
Proceedings of 9th SPIE Annual Symposium - The International Society for Optical Engineering, vol. **3013**, p.229 (1997). SPIE – Bellingham – WA –USA.
 - 17) I. Dozov, Ph. Martinot-Lagarde, E. Polossat, I. Lelidis, M. Giocondo, G. Durand
Fast bistable nematic display from coupled surface anchoring breaking.
Proceedings of 9th SPIE Annual Symposium - The International Society for Optical Engineering - vol. **3015**, p. 61 (1997). SPIE – Bellingham – WA –USA.
 - 16) Ph. Martinot-Lagarde, I. Dozov, E. Polossat, M. Giocondo, I. Lelidis, G. Durand
Fast bistable nematic display using monostable surface anchoring switching.
Proceedings SID '97, p. 41 (1997). SID – San Jose – CA - USA
 - 15) A. L. Alexe Ionescu, R. Barberi, J. J. Bonvent, M. Giocondo.
Nematic surface transitions induced by anchoring competition.
Phys. Rev. E **54**, 529 (1996). - APS - Ridge - NY - USA
 - 14) R. Barberi, M. Giocondo, G. V. Sayko, A. K. Zvezdin.
Planar nematic anchoring on rough anisotropic substrates: an elastic model.
Phys. Lett. A **231**, 293 (1996). – Elsevier – Amsterdam – Holland.

- 13) A. L. Alexe Ionescu, R. Barberi, M. Giocondo, G. Cnossen, T. H. van der Donk.
Dependence of the nematic pretilt angle on the thickness of the orientation layer.
Applied Physics Letters **66**, 1701 (1995). - AIP – Melville - NY - USA
- 12) A. L. Alexe Ionescu, R. Barberi, G. Barbero, J. J. Bonvent, M. Giocondo.
Langmuir-Blodgett Film and Nematic Interface. Influence of the film density on the nematic orientation
Appl. Phys. A **61**, 425 (1995). Springer-Verlag – Heidelberg - D
- 11) R. Barberi, M. Giocondo, R. Bartolino, P.G. Righetti.
Probing the inner surface of a capillar with the atomic force microscope.
Electrophoresis **16**, 1445 (1995). VCH – Weinheim - D
- 10) R. Barberi, M. Giocondo, G. V. Sayko, A. K. Zvezdin.
AFM experimental observation and fractal characterization of a SiO coated plate for nematic bistable anchoring.
Journal of Physics: Condensed Matter, **6** A275 (1994). – IOP Publishing – Bristol – UK.
- 9) A. L. Alexe Ionescu, R. Barberi, G. Barbero, M. Giocondo.
Anchoring energy for nematic liquid crystals: Contribution from the spatial variation of the elastic constants.
Physical Review E **49**, 6 - 5378 (1994). - APS - Ridge - NY - USA
- 8) R. Barberi, G. Barbero, M. Giocondo, R. Moldovan.
Experimental determination of the effective splay-bend elastic constant.
Physical Review E **50**, 3 - 2093 (1994). - APS - Ridge - NY - USA
- 7) A. L. Alexe Ionescu, R. Barberi, G. Barbero, M. Giocondo.
Surface elastic properties of nematic liquid crystals.
Physics Letters A **190**, 109 (1994). – Elsevier – Amsterdam – Holland.
- 6) G. Barbero, L. R. Evangelista, M. Giocondo, S. Ponti.
Interfacial energy for nematic liquid crystals: beyond the spherical approximation.
Journal of Physics II (France) **4**, 1519 (1994). – EDP Sciences – Les Ulis - France
- 5) A. L. Alexe Ionescu, R. Barberi, G. Barbero, M. Giocondo.
Temperature Surface Transitions in Nematic Liquid Crystals. elastic model.
Physics Letters A **195**, 227 (1994). – Elsevier – Amsterdam – Holland.
- 4) R. Barberi, M. Giocondo, G. V. Sayko.
Planar Nematic Anchoring on SiO Coated Substrates.
Il Nuovo Cimento **16 D** N. 7, 895 (1994). Bologna - IT
- 3) R. Barberi, M. Giocondo, Ph. Martinot-Lagarde and G. Durand.
Intrinsic multiplexability of a surface bistable nematic display.
Applied Physics Letters **62** (25) - 3270, (1993). - AIP – Melville - NY – USA
- 2) R. Barberi, M. Giocondo and G. Durand.
Flexoelectrically controlled surface bistable switching in nematic liquid crystals.
Applied Physics Letters **60** (9) - 1085, (1992). - AIP – Melville - NY - USA
- 1) L. Fronzoni and M. Giocondo, M. Pettini.
Experimental evidence of suppression of chaos by resonant parametric perturbations.
Physical Review A **43**, 12 - 6483 (1991). - APS - Ridge - NY - USA

Book chapters:

- 2) "Atomic Force Spectroscopies: A Toolbox for Probing the Biological Matter"
Michele Giocondo, Said Houmadi, Emanuela Bruno, Maria P. De Santo, Luca De Stefano, Emmanuelle Lacaze, Sara Longobardi and Paola Giardina
In: "Atomic Force Microscopy Investigations into Biology - From Cell to Protein"
ISBN 978-953-51-0114-7, DOI: 10.5772/2092.
- 1) "Organic-inorganic interfaces for a new generation of hybrid biosensors"
Ilaria Rea, Ivo Rendina, Paola Giardina, Sara Longobardi, Michele Giocondo, Luca De Stefano.
In: " Biosensors - Emerging Materials and Applications"

Patents:

- 21) CAPIZZANO FRANCESCO, FABIO VITO, GIOCONDO MICHELE, SPOSATO MASSIMINO (2016).
Rotatable chuck for the controlled deposition in liquid-phase of polymeric, non-polymeric and photosensitive materials, included their solutions, on planar substrates, with pneumatic clamping system and active temperature control of the plate fully contactless.
Submission pending. CALCTEC CALABRIA LIQUID CRYSTALS TECHNOLOGY Srl
- 20) CAMPOPIANO S, CAPPIZZANO F, CONSALES M, CRESCITELLI A, CUSANO A, CUTOLO A, ESPOSITO E, FOGLIA M P, GIOCONDO M, RICCIARDI A, SPOSATO M (2012).
Machine for the controlled deposition of liquid-phase, polymeric, non-polymeric and photosensitive optical fibers in solution.
IT1409442-B , CALCTEC CALABRIA LIQUID CRYSTALS TECHNOLOGY SRL1
- 19) GIOCONDO MICHELE, BARBERI RICCARDO, BARTOLINO ROBERTO, RIGHI ARONNE, RAMBALDI FRANCESCO
FILTRO POLARIZZATORE LINEARE CON PARTICOLARE EFFICIENZA DI POLARIZZAZIONE
BO2009A000502 del 2011
- 18) ILJIN ANDREI, OLEKSANDER BULUY, GIOCONDO M, YURIJ REZNIKOV, KOSTYANTYN SLYUSARENKO, OLEKSANDER TERESHCHENKO, ANATOLIY GLUSHCHENKO (2008).
Method of Measuring of the PreTilt Angle of Liquid Crystal on Boundary Surfaces and the Device to Realize the Method.
Provisional Patent Application No. 61/112,528 U.S.A
- 17) LUCA DE STEFANO, ILARIA REA, IVO RENDINA, MICHELE GIOCONDO, ALFREDO MAZZULLA, FEDERICA CIUCHI, PAOLA GIARDINA, ANNUNZIATA ARMENANTE.
UN METODO PER INDURRE L'ALLINEAMENTO DEI CRISTALLI LIQUIDI NEI DISPOSITIVI OTTICI A CRISTALLI LIQUIDI.
NA2007A000077 del 21.06.2007
- 16) Ricardo Barberi, Ivan Dozov, Georges Durand, Philippe Martinot-Lagarde, Maurizio Nobili, Eric Polossat, Ioannis Lelidis, Michele Giocondo
Bistable liquid crystal display device in which nematic liquid crystal has monostable anchorings
Brevetto Internazionale: US6327017 B2, 2001
- 15) Riccardo Barberi, Roberto Bartolino, Ivan Dozov, Georges Durand, Michele Giocondo, Jun Li,
Bistable display device based on nematic liquid crystals allowing grey tones
Brevetto Internazionale: US 5995173, 1999
- 14) BARBERI RICCARDO CRISTOFORO (IT); BARTOLINO ROBERTO (IT); GIOCONDO MICHELE (IT); IOVANE MARIA (IT); ALEXE-IONESCU ANCA LUISA (RO); BONVENT JEAN-JACQUES (BR); SCHADT MARTIN (CH)
CELL COMPRISING A CONTROLLED ANCHORING PLATE FOR NEMATIC LIQUID CRYSTALS AND PROCESS FOR FABRICATING SAID PLATE
Brevetto Internazionale: EP0910812 A 19990428 - 1999-04-28
- 13) BARBERI RICCARDO CRISTOFORO, BARTOLINO ROBERTO, GIOCONDO MICHELE, IOVANE MARIA, ALEXE LONESCU ANCA LUISA, BONVENT JEAN JACQUES, SCHADT MARTIN
CELLULE COMPRENANT UNE PLAQUE A ANCRAGE CONTROLE POUR CRISTAUX LIQUIDES NEMATiques ET PROCEDE DE REALISATION D'UNE TELLE PLAQUE
Pub. N. FR2762915 – 06.11.1998
- 12) BARBERI RICCARDO (IT); DOZOV IVAN (FR); DURAND GEORGES (FR); MARTINOT-LAGARDE PHILIPPE (FR); NOBILI MAURIZIO (FR); POLOSSAT ERIC (FR); LELIDIS IOANNIS (CH); GIOCONDO MICHELE (IT)
BISTABLE LIQUID CRYSTAL DISPLAY DEVICE

- 11) BARBERI RICARDO; DOZOV IVAN; DURAND GEORGES; MARTINOT LAGARDE PHILIPPE; NOBILI MAURIZIO; POLOSSAT ERIC; LELIDIS IOANNIS; GIOCONDO MICHELE
BISTABLE LIQUID CRYSTAL DISPLAY DEVICE
Brevetto Internazionale: HK1012864 (A1), 1998
- 10) BARBERI RICCARDO CRISTOFORO (IT); BARTOLINO ROBERTO (IT); GIOCONDO MICHELE (IT); IOVANE MARIA (IT); ALEXE-IONESCU ANCA LUISA (RO); BONVENT JEAN-JACQUES (BR); SCHADT MARTIN (CH)
CELL COMPRISING A CONTROLLED ANCHORING PLATE FOR NEMATIC LIQUID CRYSTALS AND PROCESS FOR FABRICATING SAID PLATE
Brevetto Internazionale: WO9850820 A 19981112 - 1998-11-12
- 9) BARBERI RICCARDO (IT); DURAND GEORGES (FR); BARTOLINO ROBERTO (IT); GIOCONDO MICHELE (IT); DOZOV IVAN (FR); LI JUN (IT)
Bistable nematic liquid crystal display with grey scale capability
Brevetto Internazionale: EP0773468 A 19970514 - 1997-05-14
- 8) BARBERI RICCARDO, BARTOLINO ROBERTO, DOZOV IVAN, DURAND GEORGES, GIOCONDO MICHELE, LI JUN
DISPOSITIF D’AFFICHAGE BISTABLE A BASE DE CRISTAUX LIQUIDES NEMATIQUES AUTORISANT DES TEINTES DE GRIS
Pub. N. FR2741165 – 16.05.1997
- 7) BARBERI RICARDO, DOZOV IVAN, DURAND GEORGES, MARTINOT LAGARDE PHILIPPE, NOBILI MAURIZIO, POLOSSAT ERIC, LELIDIS IOANNIS, GIOCONDO MICHELE
DISPOSITIF D’AFFICHAGE PERFECTIONNE A BASE DE CRISTAUX LIQUIDES ET A EFFET BISTABLE
Pub. N. FR2740894 – 09.05.1997
- 6) BARBERI RICARDO, DOZOV IVAN, DURAND GEORGES, MARTINOT LAGARDE PHILIPPE, NOBILI MAURIZIO, POLOSSAT ERIC, LELIDIS IOANNIS, GIOCONDO MICHELE
DISPOSITIF D’AFFICHAGE PERFECTIONNE A BASE DE CRISTAUX LIQUIDES ET A EFFET BISTABLE
Pub. N. FR2740893 – 09.05.1997
- 5) Ricardo BARBERI, Ivan DOZOV, Georges DURAND, Philippe MARTINOT-LAGARDE, Maurizio NOBILI, Eric POLOSSAT, Ioannis LELIDIS, Michele GIOCONDO
BISTABLE LIQUID CRYSTAL DISPLAY DEVICE
Brevetto Internazionale: WO/1997/017632 del 1996
- 4) BARBERI RICCARDO [IT]; BARTOLINO ROBERTO [IT]; DOZOV IVAN [FR]; DURAND GEORGES [FR]; GIOCONDO MICHELE [IT]; LI JUN [IT]
BISTABLE DISPLAY ELEMENT FORMED BY USING NEMATIC LIQUID CRYSTAL WITH WHICH GRAY TONES ARE POSSIBLE
Brevetto Internazionale: JPH09274205 (A), 1996
- 3) MARTINOT LAGARDE PHILIPPE R (FR); DURAND GEORGES (FR); BARBERI RICCARDO (FR); GIOCONDO MICHELE (IT)
Nematic liquid crystal display with surface bistability and control by flexoelectric effect
Brevetto Internazionale: US5357358 - 1994-10-18
- 2) DURAND GEORGES (FR); BARBERI RICCARDO (FR); MARTINOT LAGARDE PHILIPPE RENE (FR); GIOCONDO MICHELE (IT)
NEMATIC LIQUID CRYSTAL DISPLAY, HAVING SURFACE BISTABILITY AND CONTROLLED BY A FLEXOELECTRICAL EFFECT
Brevetto Internazionale: WO9200546 - 1992-01-09
- 1) MICHELE GIOCONDO; GEORGES DURAND; RICCARDO BARBERI
Nematic liquid-crystal display, with surface bistability, controlled by flexoelectric effect
FR2663770 - 1991-12-27

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PERSONALI, INFORMATIVA E
CONSENSO**

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√ Si, acconsento

Rende, lì 13 ottobre 2016