

Esperienze lavorative internazionali

1985-1986	Visiting professor presso il laboratorio del prof. F.K. Fong , Chemistry Department Purdue University, West Lafayette, Indiana (USA)
1987 e 1988	Short term guest presso la Purdue University
1990	Invited guest presso i laboratori del prof. R. Carpentier del "Centre de Recherche in Photobiophysique" Université du Quebec a Trois Revieres-Canada

Interessi di ricerca

autrice di oltre 250 pubblicazioni su riviste internazionali nei seguenti settori:

- Metodologie chimico fisiche per la caratterizzazione di sistemi complessi
- Struttura e dinamica dei sistemi fotosintetici;
- materiali per la conversione fotochimica dell'energia e la sensoristica
- progettazione e preparazione di materiali a diverso livello di organizzazione (2/3 D) e di sviluppo di strutture supramolecolari biomimetiche per il riconoscimento molecolare, la (bio)sensoristica, la conversione di energia.
- Processi fotochimica e fotofisici di trasformazione dell'energia nei sistemi di interesse fotosintetico
- materiali ibridi (bio)organici – inorganici nanocristallini

La sua attività di ricerca è documentata da più di 290 articoli su riviste scientifiche internazionali ad alto impatto, con più di 7500 citazioni ed un h-factor di 44 (Google Scholar) e dalle numerose comunicazioni a congresso (37 a invito). Ha scritto inoltre articoli divulgativi e rilasciato interviste per giornali e programmi a diffusione nazionale ed internazionale

Unveiling the compositional variety of cardiolipins in *Rhodobacter sphaeroides* by liquid chromatography with electrospray ionization and multistage collision-induced dissociation mass spectrometry

By: Granafèi, Sara; Losito, Ilario; Trotta, Massimo; et al.

ANALYTICAL AND BIOANALYTICAL CHEMISTRY Volume: 409 Issue: 21 Pages: 5007-5018 Published: AUG 2017

Enhanced photoactivity and conductivity in transparent TiO₂ nanocrystals/graphene hybrid anodes

By: Ingrosso, C.; Bianco, G. V.; Pifferi, V.; et al.

JOURNAL OF MATERIALS CHEMISTRY A Volume: 5 Issue: 19 Pages: 9307-9315
Published: MAY 21 2017

Visible-Light-Active TiO₂-Based Hybrid Nanocatalysts for Environmental Applications

By: Truppi, Alessandra; Petronella, Francesca; Placido, Tiziana; et al.

CATALYSTS Volume: 7 Issue: 4 Article Number: 100 Published: APR 2017

Nanocomposite materials for photocatalytic degradation of pollutants

By: Petronella, F.; Truppi, A.; Ingrosso, C.; et al.

CATALYSIS TODAY Volume: 281 Pages: 85-100 Part: 1 Published: MAR 1 2017

Effect of ultrasound on the function and structure of a membrane protein: The case study of photosynthetic Reaction Center from *Rhodobacter sphaeroides*

By: De Leo, Vincenzo; Catucci, Lucia; Di Mauro, A. Evelyn; et al.

ULTRASONICS SONOCHEMISTRY Volume: 35 Pages: 103-111 Part: A Published: MAR 2017

Lipid-based systems loaded with PbS nanocrystals: near infrared emitting trackable nanovectors

By: Depalo, N.; De Leo, V.; Corricelli, M.; et al.

JOURNAL OF MATERIALS CHEMISTRY B Volume: 5 Issue: 7 Pages: 1471-1481
Published: 2017

Promoting oxygen vacancy formation and p-type conductivity in SrTiO₃ via alkali metal doping: a first principles study

By: Triggiani, Leonardo; Munoz-Garcia, Ana B.; Agostiano, Angela; et al.

PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 18 Issue: 41 Pages: 28951-28959 Published: NOV 7 2016

Synthetic Antenna Functioning As Light Harvester in the Whole Visible Region for Enhanced Hybrid Photosynthetic Reaction Centers

By: Omar, Hassan Omar; la Gatta, Simona; Tangorra, Rocco Roberto; et al.

BIOCONJUGATE CHEMISTRY Volume: 27 Issue: 7 Pages: 1614-1623 Published: JUL 2016

Molecular interactions, characterization and photoactivity of Chlorophyll a/chitosan/2-HP-beta-cyclodextrin composite films as functional and active surfaces for ROS production

By: Rizzi, Vito; Fini, Paola; Fanelli, Fiorenza; et al.

FOOD HYDROCOLLOIDS Volume: 58 Pages: 98-112 Published: JUL 2016

Cytotoxicity Study on Luminescent Nanocrystals Containing Phospholipid Micelles in Primary Cultures of Rat Astrocytes

By: Latronico, Tiziana; Depalo, Nicoletta; Valente, Gianpiero; et al.

PLOS ONE Volume: 11 Issue: 4 Article Number: e0153451 Published: APR 20 2016

Integrin-targeting with peptide-bioconjugated semiconductor-magnetic nanocrystalline heterostructures

By: Valente, Gianpiero; Depalo, Nicoletta; de Paola, Ivan; et al.

NANO RESEARCH Volume: 9 Issue: 3 Pages: 644-662 Published: MAR 2016

Highly selective luminescent nanostructures for mitochondrial imaging and targeting

By: Fanizza, E.; Iacobazzi, R. M.; Laquintana, V.; et al.

NANOSCALE Volume: 8 Issue: 6 Pages: 3350-3361 Published: FEB 14 2016

Profiling of ornithine lipids in bacterial extracts of *Rhodobacter sphaeroides* by reversed-phase liquid chromatography with electrospray ionization and multistage mass spectrometry (RPLC-ESI-MSn)

By: Granafei, Sara; Losito, Ilario; Trotta, Massimo; et al.

ANALYTICA CHIMICA ACTA Volume: 903 Pages: 110-120 Published: JAN 15 2016

A far-red emitting aryleneethynylene fluorophore used as light harvesting antenna in hybrid assembly with the photosynthetic reaction center

By: la Gana, Simona; Omar, Omar Hassan; Agostiano, Angela; et al.

MRS ADVANCES Volume: 1 Issue: 7 Pages: 495-500 Published: 2016

Photoconverters with organic semiconductors and photosynthetic bacteria: positioning the bacterial Reaction Center in nanostructures

By: Farinola, Gianluca. M.; Ragni, Roberta; Milano, Francesco; et al.

Edited by: Kymissis, I; Shinar, R; Torsi, L

ORGANIC SENSORS AND BIOELECTRONICS IX Book Series: Proceedings of SPIE

Volume: 9944 Article Number: UNSP 994406 Published: 2016

TiO₂ Nanocrystals Decorated CVD Graphene based Hybrid for UV-light Active Photoanodes

By: Ingrosso, C.; Bianco, G. V.; Pifferi, V.; et al.

Edited by: Barsony, I; Zolnai, Z; Battistig, G

Conference: 30th Eurosensors Conference Location: Budapest, HUNGARY Date: SEP 04-07, 2016

PROCEEDINGS OF THE 30TH ANNIVERSARY EUROSensors CONFERENCE -

EUROSensors 2016 Book Series: Procedia Engineering Volume: 168 Pages: 396-402

Published: 2016

Fabrication of photoactive heterostructures based on quantum dots decorated with Au nanoparticles

By: Fanizza, Elisabetta; Urso, Carmine; Iacobazzi, R. Maria; et al.

SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS Volume: 17 Issue: 1

Pages: 98-108 Published: 2016

Surface Functionalized Luminescent Nanocrystals Electrostatically Assembled onto a Patterned Substrate

By: Corricelli, Michela; Comparelli, Roberto; Depalo, Nicoletta; et al.

CURRENT NANOSCIENCE Volume: 12 Issue: 3 Pages: 386-395 Published: 2016

Discrimination of geographical origin of lentils (*Lens culinaris* Medik.) using isotope ratio mass spectrometry combined with chemometrics

By: Longobardi, F.; Casiello, G.; Cortese, M.; et al.

FOOD CHEMISTRY Volume: 188 Pages: 343-349 Published: DEC 1 2015

Photoelectrochemical properties of ZnO nanocrystals/MEH-PPV composite: The effects of nanocrystals synthetic route, film deposition and electrolyte composition

By: Petrella, A.; Curri, M. L.; Striccoli, M.; et al.

THIN SOLID FILMS Volume: 595 Pages: 157-163 Part: A Published: NOV 30 2015

Tuning light emission of PbS nanocrystals from infrared to visible range by cation exchange
By: Binetti, Enrico; Striccoli, Marinella; Sibillano, Teresa; et al.
SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS Volume: 16 Issue: 5
Article Number: 055007 Published: OCT 2015

First-principles study of trimethylamine adsorption on anatase TiO₂ nanorod surfaces
By: Triggiani, Leonardo; Munoz-Garcia, Ana Belen; Agostiano, Angela; et al.
THEORETICAL CHEMISTRY ACCOUNTS Volume: 134 Issue: 10 Article Number: 119
Published: SEP 19 2015

The effect of in-amphorae aging on oenological parameters, phenolic profile and volatile composition of Minutolo white wine
By: Baiano, Antonietta; Mentana, Annalisa; Quinto, Maurizio; et al.
FOOD RESEARCH INTERNATIONAL Volume: 74 Pages: 294-305 Published: AUG 2015

Applications of nanomaterials in modern medicine
By: De Sio, Luciano; Caracciolo, Giulio; Placido, Tiziana; et al.
RENDICONTI LINCEI-SCIENZE FISICHE E NATURALI Volume: 26 Supplement: 2
Pages: 231-237 Published: AUG 2015

UV-Curable Nanocomposite Based on Methacrylic-Siloxane Resin and Surface-Modified TiO₂ Nanocrystals
By: Ingrosso, Chiara; Corcione, Carola Esposito; Striani, Raffaella; et al.
ACS APPLIED MATERIALS & INTERFACES Volume: 7 Issue: 28 Pages: 15494-15505
Published: JUL 22 2015

Plasmonics Meets Biology through Optics
By: De Sio, Luciano; Caracciolo, Giulio; Annesi, Ferdinanda; et al.
NANOMATERIALS Volume: 5 Issue: 2 Pages: 1022-1033 Published: JUN 2015

Semiquinone oscillations as a tool for investigating the ubiquinone binding to photosynthetic reaction centers
By: Ciriaco, Fulvio; Tangorra, Rocco Roberto; Antonucci, Alessandra; et al.
EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS Volume: 44 Issue: 3
Pages: 183-192 Published: APR 2015

Electronic nose and isotope ratio mass spectrometry in combination with chemometrics for the characterization of the geographical origin of Italian sweet cherries
By: Longobardi, F.; Casiello, G.; Ventrella, A.; et al.
FOOD CHEMISTRY Volume: 170 Pages: 90-96 Published: MAR 1 2015

Photoactive Hybrid Material Based on Pyrene Functionalized PbS Nanocrystals Decorating CVD Mono layer Graphene
By: Ingrosso, Chiara; Bianco, Giuseppe V.; Corricelli, Michela; et al.
ACS APPLIED MATERIALS & INTERFACES Volume: 7 Issue: 7 Pages: 4151-4159
Published: FEB 25 2015

The lipidome of the photosynthetic bacterium *Rhodobacter sphaeroides* R26 is affected by cobalt and chromate ions stress (vol 27, pg 65, 2014)
By: Calvano, Cosima Damiana; Italiano, Francesca; Catucci, Lucia; et al.
BIOMETALS Volume: 28 Issue: 1 Pages: 229-229 Published: FEB 2015

UV and solar-based photocatalytic degradation of organic pollutants by nano-sized TiO₂ grown on carbon nanotubes
 By: Murgolo, S.; Petronella, F.; Ciannarella, R.; et al.
 Conference: 3rd European Conference on Environmental Applications of Advanced Oxidation Processes Location: Almeria, SPAIN Date: OCT 28-30, 2013
 Sponsor(s): Plataforma Solar Almeria
 CATALYSIS TODAY Volume: 240 Pages: 114-124 Part: A Published: FEB 1 2015

Assembly of a photosynthetic reaction center with ABA tri-block polymersomes: highlights on protein localization
 By: Tangorra, R. R.; Operamolla, A.; Milano, F.; et al.
 PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES Volume: 14 Issue: 10 Pages: 1844-1852 Published: 2015 Lavori

Rose Bengal-photosensitized oxidation of 4-thiothymidine in aqueous medium: evidence for the reaction of the nucleoside with singlet state oxygen
 By: Rizzi, Vito; Losito, Ilario; Ventrella, Andrea; et al.
 PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 17 Issue: 39 Pages: 26307-26319 Published: 2015

Photo-thermal effects in gold nanoparticles dispersed in thermotropic nematic liquid crystals
 By: Pezzi, Luigia; De Sio, Luciano; Veltri, Alessandro; et al.
 PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 17 Issue: 31 Pages: 20281-20287 Published: 2015

"Garnishing" the photosynthetic bacterial reaction center for bioelectronics
 By: Operamolla, Alessandra; Ragni, Roberta; Milano, Francesco; et al.
 JOURNAL OF MATERIALS CHEMISTRY C Volume: 3 Issue: 25 Pages: 6471-6478
 Published: 2015

Recombination Dynamics of Colloidal Nanocrystals in Functionalized-Poly-Methylmethacrylate Nanocomposites
 By: Panniello, Annamaria; Corricelli, Michela; Comparelli, Roberto; et al.
 NANOSCIENCE AND NANOTECHNOLOGY LETTERS Volume: 7 Issue: 1 Pages: 67-73
 Published: JAN 2015

Segmented poly(styrene-co-vinylpyridine) as multivalent host for CdSe nanocrystal based nanocomposites
 By: Di Mauro, A. Evelyn; Toscanini, Marco; Piovani, Daniele; et al.
 EUROPEAN POLYMER JOURNAL Volume: 60 Pages: 222-234 Published: NOV 2014

Excitation-Dependent Ultrafast Carrier Dynamics of Colloidal TiO₂ Nanorods in Organic Solvent
 By: Triggiani, Leonardo; Brunetti, Adalberto; Aloï, Antonio; et al.
 JOURNAL OF PHYSICAL CHEMISTRY C Volume: 118 Issue: 43 Pages: 25215-25222
 Published: OCT 30 2014

H-bonding driven assembly of colloidal Au nanoparticles on nanostructured poly(styrene-b-ethylene oxide) block copolymer templates
 By: Di Mauro, A. Evelyn; Villone, Vincenzo; Ingrosso, Chiara; et al.
 JOURNAL OF MATERIALS SCIENCE Volume: 49 Issue: 15 Pages: 5246-5255 Published: AUG 2014

Single white light emitting hybrid nanoarchitectures based on functionalized quantum dots
 By: Fanizza, Elisabetta; Urso, Carmine; Pinto, Vita; et al.
 JOURNAL OF MATERIALS CHEMISTRY C Volume: 2 Issue: 27 Pages: 5286-5291
 Published: JUL 21 2014

The binding of quinone to the photosynthetic reaction centers: kinetics and thermodynamics of reactions occurring at the Q(B)-site in zwitterionic and anionic liposomes
 By: Mavelli, Fabio; Trotta, Massimo; Ciriaco, Fulvio; et al.
 EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS Volume: 43 Issue: 6-7 Pages: 301-315 Published: JUL 2014

Photosystem II based multilayers obtained by electrostatic layer-by-layer assembly on quartz substrates

By: Ventrella, Andrea; Catucci, Lucia; Placido, Tiziana; et al.

JOURNAL OF BIOENERGETICS AND BIOMEMBRANES Volume: 46 Issue: 3 Pages: 221-228 Published: JUN 2014

SERS Properties of Gold Nanorods at Resonance with Molecular, Transverse, and Longitudinal Plasmon Excitations

By: Ros, Ida; Placido, Tiziana; Amendola, Vincenzo; et al.

PLASMONICS Volume: 9 Issue: 3 Pages: 581-593 Published: JUN 2014

Two-Dimensional Plasmonic Super lattice Based on Au Nanoparticles Self-Assembling onto a Functionalized Substrate

By: Corricelli, Michela; Depalo, Nicoletta; Fanizza, Elisabetta; et al.

JOURNAL OF PHYSICAL CHEMISTRY C Volume: 118 Issue: 14 Pages: 7579-7590
Published: APR 10 2014

Three-Dimensional Self-Assembly of Networked Branched TiO₂ Nanocrystal Scaffolds for Efficient Room-Temperature Processed Depleted Bulk Heterojunction Solar Cells

By: Loiudice, Anna; Grancini, Giulia; Taurino, Antonietta; et al.

ACS APPLIED MATERIALS & INTERFACES Volume: 6 Issue: 7 Pages: 5026-5033
Published: APR 9 2014

Electroactive Layer-by-Layer Plasmonic Architectures Based on Au Nanorods

By: Placido, Tiziana; Fanizza, Elisabetta; Cosma, Pinalysa; et al.

LANGMUIR Volume: 30 Issue: 10 Pages: 2608-2618 Published: MAR 18 2014

Micropatterning of Plastic Nanocomposite Films: Effect of Au Nanoparticle Content

By: Depalo, Nicoletta; Tamborra, Michela; Fanizza, Elisabetta; et al.

SCIENCE OF ADVANCED MATERIALS Volume: 6 Issue: 3 Pages: 505-512 Published: MAR 2014