

Peer-reviewed journal articles

1)-Templating gold nanorods with liquid crystalline DNA

De Sio L and Annesi F and Placido T and COMPARELLI R. and Bruno V and Pane A and Palermo G and Curri M L and Umeton C and Bartolino R

Journal of optics (Print) 17 (2015).

<https://dx.doi.org/10.1088/2040-8978/17/2/025001>

2)-In vitro characterization of 6-Coumarin loaded solid lipid nanoparticles and their uptake by immunocompetent fish cells

Adriana Trapani; Delia Mandracchia; Cinzia Di Franco; Héctor Cordero; Patricia Morcillo; Roberto Comparelli; Alberto Cuesta; Maria Angeles Esteban

Colloids and surfaces. B, Biointerfaces (Print) 127 (2015): 79–88.

<https://dx.doi.org/10.1016/j.colsurfb.2015.01.022>

3)-Atmospheric particulate matter (PM) effect on the growth of *Solanum lycopersicum* cv. Roma plants.

Daresta B.E.; Italiano F.; Gennaro G.D.; Trotta M.; Tutino M.; Veronico P.

Chemosphere 119 (2015): 37–42.

<https://dx.doi.org/10.1016/j.chemosphere.2014.05.054>

4)-Human elastin polypeptides improve the biomechanical properties of three-dimensional matrices through the regulation of elastogenesis

Boccafoschi, Francesca; Ramella, Martina; Sibillano, Teresa; De Caro, Liberato; Giannini, Cinzia; Comparelli, Roberto; Bandiera, Antonella; Cannas, Mario F.

Journal of biomedical materials research. Part A 103 (2015): 1218–1230.

<https://dx.doi.org/10.1002/jbm.a.35257>

5)-Direct growth of shape controlled TiO₂ nanocrystals onto SWCNTs for highly active photocatalytic materials in the visible

Francesca Petronella; M. Lucia Curri; Marinella Striccoli; Elisabetta Fanizza; Cintia Mateo-Mateo; Ramon A. Alvarez-Pueblad; Teresa Sibillano; Cinzia Giannini; Miguel A. Correa-Duarte; Roberto Comparelli

Applied catalysis. B, Environmental (Print) 178 (2015): 91–99.

<https://dx.doi.org/10.1016/j.apcatb.2014.10.030>

6)-Recombination Dynamics of Colloidal Nanocrystals in Functionalized-Poly-Methylmethacrylate Nanocomposites

Panniello, Annamaria; Corricelli, Michela; Comparelli, Roberto; Curri, Maria Lucia; Agostiano, Angela; Tommasi, Raffaele; Striccoli, Marinella
Nanoscience and nanotechnology letters (Print) 7 (2015): 67–73.
<https://dx.doi.org/10.1166/nnl.2015.1897>

7)-The lipidome of the photosynthetic bacterium *Rhodobacter sphaeroides* R26 is affected by cobalt and chromate ions stress (vol 27, pg 65, 2014)

Calvano, Cosima Damiana; Italiano, Francesca; Catucci, Lucia; Agostiano, Angela; Cataldi, Tommaso R. I.; Palmisano, Francesco; Trotta, Massimo
BioMetals (Oxf.) 28 (2015): 229–229.
<https://dx.doi.org/10.1007/s10534-014-9818-4>

8)-Electronic nose and isotope ratio mass spectrometry in combination with chemometrics for the characterization of the geographical origin of Italian sweet cherries

Longobardi, Francesco; Casiello, Grazia; Ventrella, Andrea; Mazzilli, Vincenzo; Nardelli, A.; Sacco, Daniela; Catucci, Lucia; Agostiano, A.subjectChemometricssubjectElectronic nosessubjectGeographic originssubjectIsotope ratio mass spectrometrysubjectSweet cherry
Food chemistry 170 (2015): 90–96.
<https://dx.doi.org/10.1016/j.foodchem.2014.08.057>

9)-Semiquinone oscillations as a tool for investigating the ubiquinone binding to photosynthetic reaction centers

Ciriaco, Fulvio; Tangorra, Rocco Roberto; undefined, undefined; Giotta, Livia; Agostiano, A.; Trotta, Massimo; Milano, FrancescosubjectCenterssubjectLigand equilibrium constantssubjectQuinone bindingsubjectReactionssubjectSemiquinone oscillations
European biophysics journal (2015).
<https://dx.doi.org/10.1007/s00249-015-1013-1>

10)-Lipid/detergent mixed micelles as a tool for transferring antioxidant power from hydrophobic natural extracts into bio-deliverable liposome carriers: The case of lycopene rich oleoresins

Mastrogiacomo, Disma; Lenucci, Marcello Salvatore; Bonfrate, Valentina; Di Carlo, Marialuisa; Piro, Gabriella; Valli, Ludovico; Rescio, Leonardo; Milano, Francesco; Comparelli, Roberto; De Leo, Vincenzo A.; Giotta, Livia
RSC advances 5 (2015): 3081–3093.
<https://dx.doi.org/10.1039/c4ra12254b>

11)-UV and solar-based photocatalytic degradation of organic pollutants by nano-sized TiO₂ grown on carbon nanotubes

Murgolo, S.; Petronella, Francesca; Ciannarella, Ruggiero; Comparelli, Roberto; Agostiano, A.; Curri, Maria Lucia; Mascolo, Giuseppe L.subjectCarbon nanotubessubjectPhotocatalysissubjectPPCPsubjectRecalcitrant pollutantssubject[object Object]

Catalysis Today 240 (2015): 114–124.

<https://dx.doi.org/10.1016/j.cattod.2014.04.021>

12)-Photoactive Hybrid Material Based on Pyrene Functionalized PbS Nanocrystals Decorating CVD Monolayer Graphene

Chiara Ingrosso; Giuseppe V. Bianco; Michela Corricelli; Roberto Comparelli; Davide Altamura; Angela Agostiano; Marinella Striccoli; Maria Losurdo; M. Lucia Curri; Giovanni Bruno

ACS applied materials & interfaces (Print) 7 (2015): 4151–4159.

<https://dx.doi.org/10.1021/am5081925>

13)-Applications of nanomaterials in modern medicine

Luciano De Sio Giulio Caracciolo Tiziana Placido Daniela Pozzi Roberto Comparelli Ferdinanda Annesi Maria Lucia Curri Angela Agostiano Roberto Bartolino

Rendiconti lincei. Scienze fisiche e naturali (2015).

<https://dx.doi.org/10.1007/s12210-015-0400-y>

14)-Next-generation thermo-plasmonic technologies and plasmonic nanoparticles in optoelectronics

Luciano De Sio and Tiziana Placido and Roberto Comparelli and M. Lucia Curri and Marinella Striccoli and Nelson Tabiryan and Timothy J. BunningsubjectOptoelectronics

Progress in Quantum Electronics (Print) 41 (2015): 23–70.

<https://dx.doi.org/10.1016/j.pquantelec.2015.03.001>

15)-Il batterio nella scheda

Massimo Trotta subject Proteine

Sapere (Bari) 81 (2015): 46.

<http://www.cnr.it/prodotto/i/330724>

info:cnr-pdr/source/autori:Massimo Trotta/titolo:Il batterio nella scheda/

16)-Photo-thermal effects in gold nanoparticles dispersed in thermotropic nematic liquid crystals

Pezzi, Luigia; De Sio, Luciano; Veltri, Alessandro; Placido, Tiziana; Palermo, Giovanna; Comparelli, Roberto; Curri, Maria Lucia; Agostiano, Angela; Tabiryan, Nelson; Umeton, Cesaresubjectgold nanoparticlessubjectphotothermal effect

PCCP. Physical chemistry chemical physics (Print) 17 (2015): 20281–20287.

<https://dx.doi.org/10.1039/c5cp01377a>

17)-Tuning light emission of PbS nanocrystals from infrared to visible range by cation exchange

Enrico Binetti; Marinella Striccoli; Teresa Sibillano; Cinzia Giannini; Rosaria Brescia; Andrea Falqui; Roberto Comparelli; Michela Corricelli; Raffaele Tommasi; Angela Agostiano; M

Lucia Curri subject colloidal nanocrystals subject cation exchanges subject PbS subject luminescent materials

Science and technology of advanced materials (2015).

<https://dx.doi.org/10.1088/1468-6996/16/5/055007>

18)-UV-Curable Nanocomposite Based on Methacrylic-Siloxane Resin and Surface-Modified TiO₂ Nanocrystals

Ingresso, Chiara; Corcione, Carola Esposito; Striani, Raffaella; Comparelli, Roberto; Striccoli, Marinella; Agostiano, Angela; Curri, M. Lucia; Frigione, Maria enrica subject colloidal TiO₂ nanorod subject surface modifications subject photoactivity subject UV-curable methacrylic-siloxane resin formulations subject nanocomposites subject photopolymerization kinetic

ACS applied materials & interfaces (Print) 7 (2015): 15494–15505.

<https://dx.doi.org/10.1021/acsami.5b03731>

19)-Plasmonic Thermometer Based on Thermotropic Liquid Crystals

Palermo, Giovanna; De Sio, Luciano; Placido, Tiziana; Comparelli, Roberto; Curri, Maria Lucia; Bartolino, Roberto; Umeton, Cesare subject Cholesteric Liquid Crystals subject Temperatures subject Gold nanorod subject selective reflection bands subject nanoscale thermometer

Molecular crystals and liquid crystals (Phila. Pa. : 2003) 614 (2015): 93–99.

<https://dx.doi.org/10.1080/15421406.2015.1050279>

20)-Plasmonics Meets Biology through Optics

De Sio, Luciano; Caracciolo, Giulio; Annesi, Ferdinanda; Placido, Tiziana; Pozzi, Daniela; Comparelli, Roberto; Pane, Alfredo; Curri, Maria Lucia; Agostiano, Angela; Bartolino, Roberto subject plasmonic

Nanomaterials (Basel) 5 (2015): 1022–1033.

<https://dx.doi.org/10.3390/nano5021022>

21)-Bioconjugation of hydrogen-bonded organic semiconductors with functional proteins

Glowacki E.D.; Tangorra R.R.; Coskun H.; Farka D.; Operamolla A.; Kanbur Y.; Milano F.; Giotta L.; Farinola G.M.; Sariciftci N.S. subject hydrogen-bonded organic semiconductors; reaction centers; bioconjugation

JOURNAL OF MATERIALS CHEMISTRY C 3 (2015): 6554–6564.

<https://dx.doi.org/10.1039/c5tc00556f>

22)-Noi non siamo rane

Massimo Trotta subject proteine

Sapere (Bari) 81 (2015): 48.

<http://www.cnr.it/prodotto/i/336563>

info:cnr-pdr/source/autori:Massimo Trotta/titolo:Noi non siamo rane/

23)-Proteina da Volpedo

Massimo Trotta subjectproteine

Sapere (Bari) 81 (2015): 47.

<http://www.cnr.it/prodotto/i/330725>

info:cnr-pdr/source/autori:Massimo Trotta/titolo:Proteina da Volpedo/

24)-Effect of Iron Oxide Nanocrystal Content on the Morphology and Magnetic Properties of Polystyrene-block-poly(methyl methacrylate) Diblock Copolymer Based Nanocomposites

Cano, Laida; Di Mauro, A. Evelyn; Petronella, Francesca; Fanizza, Elisabetta; Striccoli, Marinella; Curri, M. Lucia; Tercjak, Agnieszka subjectIron Oxides

Journal of physical chemistry. C 119 (2015): 6435–6445.

<https://dx.doi.org/10.1021/acs.jpcc.5b00634>

25)-"Garnishing" the photosynthetic bacterial reaction center for bioelectronics

Operamolla, Alessandra; Ragni, Roberta; Milano, Francesco; Roberto Tangorra, R.; Antonucci, Alessandra; Agostiano, Angela; Agostiano, Angela; Trotta, Massimo; Farinola, Gianluca subjectnot available

JOURNAL OF MATERIALS CHEMISTRY C 3 (2015): 6471–6478.

<https://dx.doi.org/10.1039/c5tc00775e>

26)-Rose Bengal-photosensitized oxidation of 4-thiothymidine in aqueous medium: evidence for the reaction of the nucleoside with singlet state oxygen

Rizzi, Vito; Losito, Ilario; Ventrella, Andrea; Fini, Paola; Fraix, Aurore; Sortino, Salvatore; Agostiano, Angela; Longobardi, Francesco; Cosma, Pinalysa subjectRose -bengale-Photodynamic therapy

PCCP. Physical chemistry chemical physics (Print) 17 (2015): 26307–26319.

<https://dx.doi.org/10.1039/c5cp03615a>

27)-First-principles study of trimethylamine adsorption on anatase TiO₂ nanorod surfaces

Triggiani, Leonardo; Munoz-Garcia, Ana Belen; Agostiano, Angela; Pavone, Michele subjectAnatasesubjectTitanium

dioxidesubjectTrimethylaminesubjectDFTsubjectDispersion correctionsubjectMolecular adsorption

Theoretical Chemistry accounts (Print) 134 (2015).

<https://dx.doi.org/10.1007/s00214-015-1721-8>

28)-The effect of in-amphorae aging on oenological parameters, phenolic profile and volatile composition of Minutolo white wine

Baiano, Antonietta; Mentana, Annalisa; Quinto, Maurizio; Centonze, Diego; Longobardi, Francesco; Ventrella, Andrea; Agostiano, Angela; Varva, Gabriella; De Gianni, Antonio; Terracone, Carmela; Del Nobile, Matteo

Alessandro subjectAntioxidantsubjectContainersubjectNMRsubjectPhenolicsubjectVolatile

Food research international 74 (2015): 294–305.

<https://dx.doi.org/10.1016/j.foodres.2015.04.036>

29)-Transforming anatase TiO₂ nanorods into ultrafine nanoparticles for advanced electrochemical performance

Bresser, Dominic; Bresser, Dominic; Bresser, Dominic; Kim, Guk Tae; Kim, Guk Tae; Kim, Guk Tae; Binetti, Enrico; Binetti, Enrico; Striccoli, Marinella; Comparelli, Roberto; Seidel, Stefan; Seidel, Stefan; Ozkaya, Dogan; Copley, Mark; Bishop, Peter; Paillard, Elie; Paillard, Elie; Paillard, Elie; Passerini, Stefano; Passerini, Stefano; Passerini, StefanosubjectAnatase TiO₂subjectCMCsubjectFragmentationsubjectLithium-ion anodesubjectNanoparticlessubjectNanorods

Journal of power sources (Print) 294 (2015): 406–413.

<https://dx.doi.org/10.1016/j.jpowsour.2015.06.089>

30)-Tuning light emission of PbS nanocrystals from infrared to visible range by cation exchange

Enrico Binetti and Marinella Striccoli and Teresa Sibillano and Cinzia Giannini and Rosaria Brescia and Andrea Falqui and Roberto Comparelli and Michela Corricelli and Raffaele Tommasi and Angela Agostiano and M Lucia Currisubjectcolloidal nanocrystalssubjectcation exchangesubjectPbSsubjectluminescent materials

Science and technology of advanced materials 16 (2015).

<http://stacks.iop.org/1468-6996/16/i=5/a=055007>

info:cnr-pdr/source/autori:Enrico Binetti and Marinella Striccoli and Teresa Sibillano and Cinzia Giannini and Rosaria Brescia and Andrea Falqui and Roberto Comparelli and Michela Corricelli and Raffaele Tommasi and Angela Agostiano and M Lucia Curri/titolo:Tuning light emission of PbS nanocrystals from infrared to visible range by cation exchange/

31)-Assembly of a photosynthetic reaction center with ABA tri-block polymersomes: Highlights on protein localization

Tangorra, R. R.; Operamolla, A.; Milano, F.; Omar, O. Hassan; Henrard, J.; Comparelli, R.; Italiano, F.; Agostiano, A.; Agostiano, A.; De Leo, V.; Marotta, R.; Falqui, A.; Farinola, G. M.; Farinola, G. M.; Trotta, M.subjectna

Photochemical & photobiological sciences (Print) 14 (2015): 1844–1852.

<https://dx.doi.org/10.1039/c5pp00189g>

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Other publications (journals without peer review, book reviews,etc.)

1)-Intervista su Corriere del Mezzogiorno - Bari

Massimo Trotta (CNR)Pasquale Pellegrino (CdM)
2015

<http://www.cnr.it/prodotto/i/314991>

2)-Synthesis and Surface Engineering of Plasmonic Nanoparticles

Roberto Comparelli; Tiziana Placido; Nicoletta Depalo; Elisabetta Fanizza; Marinella Striccoli;
M. Lucia Curri

Active Plasmonic Nanoparticles, edited by Luciano De Sio, pp. 33–99. Singapore: Pan Stanford Publishing, 2015

<http://www.panstanford.com/books/9789814613002.html>

info:cnr-pdr/source/autori:Roberto Comparelli, Tiziana Placido, Nicoletta Depalo, Elisabetta Fanizza, Marinella Striccoli, M. Lucia Curri/titolo:Synthesis and Surface Engineering of Plasmonic Nanoparticles/titolo_volume:Active Plasmonic Nanoparticles/curatori_volume:Luciano De Sio/editore:

/anno:2015

3)-Gold Nanorods: Plasmonic Photoheating

Luciano De Sio; Tiziana Placido; Roberto Comparelli; M. Lucia Curri; Nelson Tabirian;
Timothy Bunning

Dekker Encyclopedia of Nanoscience and Nanotechnology, Third Edition, 2015

<https://dx.doi.org/10.1081/E-ENN3-120053585>

info:cnr-pdr/source/autori:Luciano De Sio, Tiziana Placido, Roberto Comparelli, M. Lucia Curri, Nelson Tabirian, Timothy Bunning/titolo:Gold Nanorods: Plasmonic Photoheating/titolo_volume:Dekker Encyclopedia of Nanoscience and Nanotechnology, Third Edition/curatori_volume:/editore:/anno:2015

4)-Photoactive film by covalent immobilization of a bacterial photosynthetic protein on reduced graphene oxide surface

Rocco Roberto Tangorra; Alessandra Antonucci; Francesco Milano; Alessandra Operamolla; Francesca Italiano; Roberta Ragni; Omar Hassan Omar; Patrizio Salice; Simone Silvestrini; Enzo Menna; Michele Maggini; Angela Agostiano; Massimo Trotta; Gianluca M. Farinola
subjectPhotosynthesissubjectgraphenesubjectBiohybrid organic-biological systems

Symposium A - Organic Bioelectronics - 2014 MRS Fall Meeting, edited by M.R. Abidian , C. Bettinger , R. Owens and D.T. Simon, 2015

<https://dx.doi.org/10.1557/opl.2015.18>

info:cnr-pdr/source/autori:Rocco Roberto Tangorra, Alessandra Antonucci, Francesco Milano, Alessandra Operamolla, Francesca Italiano, Roberta Ragni, Omar Hassan Omar, Patrizio Salice, Simone Silvestrini, Enzo Menna, Michele Maggini, Angela Agostiano, Massimo Trotta and Gianluca M. Farinola/titolo:Photoactive film by covalent immobilization of a bacterial photosynthetic protein on reduced graphene oxide surface/titolo_volume:Symposium A - Organic Bioelectronics - 2014 MRS Fall Meeting/curatori_volume:M.R. Abidian , C. Bettinger , R. Owens and D.T. Simon/editore:/anno:2015

5)-Biosynthesis of Monodisperse Gold Nanoparticles by Rhodobacter sphaeroides

F. Italiano; A. Agostiano; B. D. Belviso; R. Caliandro; B. Carrozzini; R. Comparelli; M.T. Melillo; E. Mesto; G. Tempesta; M. Trotta

subjectNanobioremediation
Congresso annuale della Società Italiana di Fotobiologia, Bari, 11 - 13 Giugno

<http://www.cnr.it/prodotto/i/342237>

info:cnr-pdr/source/autori:F. Italiano, A. Agostiano, B. D. Belviso, R. Caliandro, B. Carrozzini, R. Comparelli, M.T. Melillo, E. Mesto, G. Tempesta, M. Trotta/congresso_nome:Congresso annuale della Società Italiana di Fotobiologia/congresso_luogo:Bari/congresso_data:11 - 13 Giugno/anno:2015/pagina_da:/pagina_a:/intervallo_pagine:

6)-MALDI-ToF/ToF mass spectrometry analysis of intact bacteriochlorophylls by using diamionaphthalene as electron-transfer secondary reaction matrix

Calvano CD; Trotta M; Italiano F; Ventura G; Cataldi TRI; Palmisano F

subjectBacteriochlorophyll
Congresso annuale della Società Italiana di Fotobiologia, Bari, 11 - 13 Giugno

<http://www.cnr.it/prodotto/i/342239>

info:cnr-pdr/source/autori:Calvano CD, Trotta M, Italiano F, Ventura G, Cataldi TRI, Palmisano F/congresso_nome:Congresso annuale della Società Italiana di Fotobiologia/congresso_luogo:Bari/congresso_data:11 - 13 Giugno/anno:2015/pagina_da:/pagina_a:/intervallo_pagine:

7)-Heavy metal ions effect on light-harvesting complexes of Rhodobacter sphaeroides studied by derivative spectroscopy

S. la Gatta; A. Antonucci; F. Milano; F. Italiano; M. Trotta

subjectPhotoBioremediation
Congresso annuale della Società Italiana di Fotobiologia, Bari, 11 - 13 Giugno

<http://www.cnr.it/prodotto/i/342241>

info:cnr-pdr/source/autori:S. la Gatta, A. Antonucci, F. Milano, F. Italiano, M. Trotta/congresso_nome:Congresso annuale della Società Italiana di

8)-Tomato plant response under atmospheric particulate matter stress

Daresta B.E; Italiano F.; de Gennaro G.; Trotta M.; Tutino M.; Veronico P.subjectTomatosubjectatmospheric particulate mattersubjectoxidative stress

Congresso Annuale della Società Italiana di Fotobiologia, Bari, Italy, 11-13/06/2015

<http://www.cnr.it/prodotto/i/338082>

info:cnr-pdr/source/autori:Daresta B.E, Italiano F., de Gennaro G., Trotta M., Tutino M., Veronico P./congresso_nome:Congresso Annuale della Società Italiana di Fotobiologia/congresso_luogo:Bari, Italy/congresso_data:11-13/06/2015/anno:2015/pagina_da:/pagina_a:/intervallo_pagine:

9)-Unravelling Cobalt Binding to Photosynthetic Bacterium by X-ray Absorption Spectroscopy

B. D. Belviso (a); F. Italiano (b); R. Caliendo (a); B. Carrozzini (a); A. Costanza (c); M. Trotta (b)subjectCobalt coordinationsubjectMembranesubjectSulfolipidssubjectRhodobacter sphaeroidessubjectEXAFS

pp.6–7, 2015

<http://www.cnr.it/prodotto/i/346726>

10)-Artificial photoconverters using genuine natural components

Rocco Roberto Tangorra; Francesco Milano; Omar Hassan Omar; Danilo Belviso; Rocco Caliendo; Francesca Italiano; Roberta Ragni; Alessandra Operamolla; Angela Agostiano; Gianluca M. Farinola; Massimo Trotta.subjectARTIFICIAL PHOTOCONVERTERS; NATURAL COMPONENTS

Final conference of the COST Action COST Action TD1102 Photosynthetic proteins for biotechnological applications: biosensors and biochip, Roma, 7-9 Ottobre 2015

<http://www.cnr.it/prodotto/i/339688>

info:cnr-pdr/source/autori:Rocco Roberto Tangorra, Francesco Milano, Omar Hassan Omar, Danilo Belviso, Rocco Caliendo, Francesca Italiano, Roberta Ragni, Alessandra Operamolla, Angela Agostiano, Gianluca M. Farinola, Massimo Trotta/congresso_nome:Final conference of the COST Action COST Action TD1102 Photosynthetic proteins for biotechnological applications: biosensors and biochip/congresso_luogo:Roma/congresso_data:7-9 Ottobre 2015/anno:2015/pagina_da:/pagina_a:/intervallo_pagine: