PERSONAL INFORMATION

Maria Lucia Curri
Università degli Studi di Bari Aldo Moro
Department of Chemistry
Via Orabona 4 70126 Bari
and Italian National Research Council Istituto per i Processi Chimico-Fisici
(associate researcher)
https://www.uniba.it/docenti/curri-maria
https://www.scopus.com/authid/detail.uri?authorId=6701453774
http://www.researcherid.com/rid/C-5360-2009
https://scholar.google.it/citations?user=IuKtR_sAAAAJ&hl=en
ORCID ID: orcid.org/0000-0002-0261-8379

Sex F- *Date of birth* | *Nationality* Italian

WORK EXPERIENCE

2018 - present **Full professor of Physical-Chemistry**
(CHIM/02) Chemistry Department University of Bari Aldo Moro Bari (Italy)

July 2022 **Visiting scientist**
Department of NanoEngineering, University of California San Diego (USA)

2010 – 2018 **Senior research scientist**
CNR, IPCF Bari Division

2000-2010 **Staff research scientist**
CNR, IPCF Bari Division

July-Sept 2006 **Invited Researcher**
LMIS1 EPFL Lausanne (Switzerland)

June-July 2005 **Visiting Scientist**
CNR-SNF funded exchange visit programme EPFL Lausanne (Switzerland)

1999-2000 **Research scientist**
(fixed-term position) CNR, IPCF Bari Division

1996-1998 **Grant holder**
CNR, CS-CFILM Bari

Sept 1995- June 1996 **Research assistant**
Christopher Ingold Laboratory University College London (United Kingdom)

EDUCATION AND TRAINING

1997 **PhD in Chemical Sciences** University of Bari Aldo Moro, Chemistry Dept.

1993 **Degree in Chemistry (110/110)** University of Bari Chemistry Dept.

t

WORK ACTIVITIES

Main Research Activities M. L. Curri is active in the field of material chemistry for designing, fabricating and processing inorganic solids at the nanoscale for obtaining nanostructured and multifunctional materials both for fundamental and application studies. She is involved in the development of colloidal chemistry synthetic strategies for preparing nanoparticles (NPs) and nanocrystals (NCs) controlling size, shape crystallinity and hence size dependent properties.

She has a solid expertise surface engineering of nanoparticles and nanocrystals, in order to achieve, organization into mesoscale structures (films, 2/3 D assemblies) with tailored

functional collective properties and integration in nanocomposites for their fabrication by means of conventional and innovative fabrication techniques (NaPa, NOVOPOLY and METACHEM EU projects, 2015 PRIN national project)

Her research activity is devoted to the study of the nanomaterials for photocatalysis, photovoltaics, plasmonics, optoelectronics and nanomedicine. Particularly intense has been/is her work in the field of the synthesis photocatalytic oxides, semiconductors and hybrid organic/inorganic based nanostructures for energy conversion (photovoltaic, photocatalytic and energy storage applications), performed in the frame of national and international projects, also in collaboration with internationally recognized research groups and institutions. Nanomaterials for photocatalytically assisted pollutant degradation for water purification is/has been an important research activity (LIMPID EU Project, TARANTO PON Project, COVID FISR project). Inorganic NCs and NPs based on semiconductors with emission and absorption in a wide spectral range from visible to IR have been the subject of studies for their use in the various ambitious technologies connected to energy conversion. Prof. Curri has been dealing with NCs, such as CdSe, PbS, CdS, both as sensitizers, and as inorganic counterpart in hybrid solar cells based on conducting polymers. The research carried out within the PON MAAT and RADIUS projects showed that NC di PbS can be integrated in flexible devices processable at room temperature based on inorganic NC for the construction of solar cells. Also relevant studies have been devoted to the design and manufacture of photoactive hybrid materials based on graphene decorated with PbS NC, which demonstrated the high performance of the systems and their potential for use in photodetectors. Significant advance has been also obtained in the field of nanomaterials for electrodes to be used in solar cells, also in combination with ionic liquid, and in the field of surface engineering of perovskite based nanostructures.

M. L. Curri has contributed to develop a class of nanocomposite materials based on graphene derivatives and colloidal nanocrystals and nanoparticles, metals, oxides and semiconductor by designing original both *in situ* and *ex situ* decoration approaches (Bilateral USA-Italy "Projects of major importance")

M.L. Curri is expert in surface engineering of nanoparticles and nanocrystals for studies on synthetic, biomimetic and natural nanoparticles, as functional nanovectors for drug delivery, imaging agent, active characterization and biofunctionalization of inorganic nanoparticles, organic and hybrid – organic inorganic – nanostructures, contributing to the development of original nanostructured systems holding a great promise in biomedical field.

Selected Institutional Responsibilities

- Vice-President of Italian National Interuniversity Consortium of Materials Science and Technology (INSTM) (2023)
- Fellow of the Royal Society of Chemistry.(2023 – member ID 747069
- Panel chair PE5 Consolidator Grant (2020, 2022)
- President of the Management Committee of the CNR Interdepartmental Center "TARANTO (2020-present)
- PE5 Panel member ERC Consolidator grant (2016, 2018)
- Member of the Chemical Science Doctoral Board at University of Bari (2017-present)
- Member of the Doctoral Board of the National Doctoral School in Scientific, Technological And Social Methods Enabling Circular Economy (2022)
- Member of the Working Group on Department Research Projects for the Chemistry and Materials Science Department of CNR (Italian National Research Council) (2017-2018)
- Member of Group of Expert of Evaluation (GEV) for Chemistry for Evaluation of Research Quality (VQR) for the Italian National Agency for the Evaluation of Universities and Research Institutes (ANVUR) (VQR 2011-2014) (2015)
- Member of the International Exchange Committee of the Royal Chemical Society (2019-2024)
- Italian Society of Chemistry (SCI) and of "Relation with Industry" Committee therein (2014- 2016)
- Advisory Board member of the School of Soft Matter Research of Freiburg Institute for Advanced Studies (FRIAS) Albert-Ludwigs-University Freiburg (Germany)(2011-2013)
- Advisory board member of the Physical Chemistry Division of the Italian Society of Chemistry (SCI) (2010-2011)
- Member of CNR selection committees for staff scientist and research fellows since 2001
- Expert evaluator for project proposals for European Commission 7 FP calls NMP-2007-SMALL, NMP-2008-SMALL, for Individual Marie Curie Actions (FP7-PEOPLE) from 2010 to 2013, HORIZON 2020 Marie Skłodowska-Curie Actions from 2014 to 2017, for UMU Incoming Mobility Programme, University of Murcia Spain (2013), for the Portuguese Foundation for Science and Technology 2012, 2013 and 2014 Calls, for the Israel Science Foundation for Individual Research Grants (2012)
- Member of the Scientific Committee of EUCHEMS 2022 International Conference, Lisbon (Portugal)28 August -1 September 2022
- Member of International Advisory Board of International of CIMTEC International Ceramics Congress (Italy) (2006, 2010, 2014, 2018, 2022)
- Chair of the Workshop "Advanced Inorganic Materials: green and unconventional synthesis approaches and functional assessment – AIM 2022" 23-24 June 2022, Bari (Italy)
- Member of international Scientific Committee of 5th International Symposium on Dielectric Materials and Applications, ISyDMA'5 15-17 April 2020, virtual conference, ISyDMA'3 Morocco 2018, ISyDMA'2 2017 11-14 July 2017, Bucharest, (Romania).
- Member of the organizing committee of the Workshop "Advanced nanomaterials and technologies for energy exploitation" TT.VI.E workshop in Nanoinnovation 2017 28 Sept 2017 Rome (Italy).
- Technical Programme Committees (TPC) of the following conferences:
  Transducers 23, IEEE-NEMS Nano/Micro Engineered and Molecular Systems Conference, 2009, 2011, 2012, 2013, 2014, 2011, IEEE Sensors 2012, 2013, 2014, 2016, Eurosensors 2016, 2017
- Scientific Committee of XXXIX Italian National Congress of Physical Chemistry, September 2010, Stresa (Italy)

Editorial activity

- Associate editor of Physical Chemistry Chemical Physics – PCCP journal RSC publisher (2022 present)
- Editorial board member of - Materials, Catalysts, Micro & Nano Letters, Nanofabrication, The Open Process Chemistry journals
- Guest editor of Special Issues:
- Micro and Nano Technologies for Probe-Based Microscopy" (2012) Micro & Nano Letters journal
- "Colloidal Nanocrystals: Synthesis, Characterization and Application" (2017) Crystals journal
- "Unconventional and Green Approaches for the Synthesis of Crystalline Inorganic Materials" Nanomaterials journal (MDPI)
- "Functional Materials by Circular Chemistry Approaches" Materials journal (MDPI)

Referee for many international highly ranked journals, including "ACS Nano", "Advances Materials", "Nanoscale", "Advanced Functional Materials", "Chemistry of Materials", "ACS Applied Materials & Interfaces", "Langmuir", "Journal of Physical Chemistry B", "Journal of Physical Chemistry C", "Nanotechnology", ""Applied Catalysis B: environmental"; "Journal of Hazardous Materials"; "Material "Electrochimica Acta", "Chemical Communication", "Journal of Colloid and Interface Science", "Sensors and Actuators", "Catalysis Today", "RSC Advances"

Invited presentations

Over 60 invitations to give lectures in national and international conferences, schools, universities and research centers, in the following are listed selected contributions:

- NanoBalkan 2023, 16-20 October 2023 Tirana (Albania)
- E-MRS Spring meeting, 29 May-2 June 2023, Strasbourg (France)
- MRS Fall Meeting, Nov-Dec 2022 Boston (USA)
- NANOTECH 2022 1-3 June 2022 Poznan (Poland)
- IMAGINENANO 23-25 Nov 2021 Bilbao (Spain)
- Trends in Nanotechnology TNT 2021 4-8 October Tirana (Albania)
- XLVII Italian Chemical Society Physical Chemistry Division Congress 1-4 July 2019 Roma (Italy)
- Chemistry Meets Biology and Biotechnology Workshop 20 July 2018 Lecce, (Italy)
- 9th International Conference on Advance Materials, ROCAM 2017 11-14 July 2017 Bucharest (Romania)
- First International Symposium on Dielectric Materials and Applications ISyDMA 2016, May 4-6, 2016 Kenitra-Rabat (Morocco)
- 12th International Conference on Nanosciences & Nanotechnologies (NN1 5)7-10 July 2015, Thessaloniki (Greece)
- Indo-Italian Meeting Light on Molecular Functional Materials" Jawaharlal Nehru Center for Advanced and Scientific Research 10-11 March 2015 Bangalore (India).
- Soft chemistry tools for functional nanomaterials: new opportunities for energy, environmental and biomedical applications" Invited seminar at AMI Institute 16 December 2015 Freiburg (Switzerland).
- 40th Micro and Nano Engineering Conference MNE 2014 22-26 September Lausanne (Switzerland).
- New Frontiers in Plasmonics and Nano-optics NANOPLASM 2014 16-20 June 2014 Cetraro (Italy)
- 5th International Workshop on Polymer/Metal Nanocomposites Bari 20-22 September 2011(Italy)
- Colloidal nanocrystals: synthesis, functionalization and applications in energy conversion" Nanostructured Hybrid Materials for Energy Conversion and Storage" ORION EU FP7 Project Summer School, 5-10 June 2011 Ostuni (Italy).
- Hybrid Optoelectronic and Photovoltaic Devices for Renewable Energy 26 – 27 April 2010 San Sebastian (Spain).

Grants

Maria Lucia Curri has been Scientific Coordinator or Research Unit Principal Investigator of the following projects:

- PRIN 2022 PNRR project Hybrid ElectROchemical Energy storage in Sustainable batteries - HEROES (2023-2025) (Prot. P2022AFYZX) RU PI.
- PON Project Energie per l'Ambiente - TARANTO "Tecnologie e processi per l'Abbattimento di inquinanti e la bonifica di siti contaminati con Recupero di mAterie prime e produzioNe di energia TOtally green (TARANTO) codice domanda ARS01_00637 (2018-2022) RO leader)
- PON Project ECOTEC - Design, creatività e Made in Italy –(Fibre e tessuti intelligenti ed ECOsostenibili per l'abbigliamento TECnico) codice domanda ARS01_00951 (2019-2023) (Responsible CNR IPCF Unit)
- FISR COVID 19 National project SANITATION "Abbattimento del SARS-Cov-2 In Acque Reflue Urbane Mediante Sistemi Fotocatalitici Ibridi a Membrana"(2021) (PI)
- Bilateral USA-Italy "Projects of major importance" launched by Italian Ministry for Foreign Affairs and International Cooperation (MAECI) on the topic ""Multi-stacked intercalating hybrid PbS quantum dot film/graphene architectures for enhanced photodetectors" (2019-2021) (coordinator)
- FP7 European Project LIMPID "Nanocomposite Materials for Photocatalytic Degradation of Pollutants (G.A. n. 310177) 2012-2015 (coordinator)
- PRIN National Italian project (Research Project of National Interest granted by the Italian Ministry of University "New aspects of resonance energy transfer in organized media: dynamical effects and optical control" (2014-2017) (PI)
- FP7 EU METACHEM "Nanochemistry and self-assembly routes to metamaterials for visible light" 2 (contr. n. 228762) (2009-2013) (PI)
- Strategic Project "Protection, consolidation and cleaning of stones characteristic of Apulia region: experimental analysis of environmental friendly products and monitoring of the treatments" (PS_083) (2009-2013) (PI)
- Bilateral Project "NANOPLATFORM" "Interfacing single nanoparticles embedded in ultra thin polymers layers" in the Cooperation Agreement between CNR and CSIC (Spain) 2009-2010 (coordinator)
- Regional Project "RELA-VALBIOR" "Innovative technologies for the valorisation of residual biomass of the productive sectors of Apulia Region" (Italy) 2009-2014 (PI)
- FP6 EU STREP Project NOVOPOLY "Novel functional polymer materials for MEMS and NEMS applications" (n. STRP 013619) 2005-2009 (PI)
- FP6 EU Integrated Project NaPa "Emerging Nanopatterning Methods" (n. 500120) 2004-2008 (PI)

She has also participated, among the others, to the following projects:

Italy-Brazil Bilateral CNR-FAPESP project Towards Zero Impact Agriculture: bio-NAno architecTUres for ammonia Recovery – NATURE 2024-2025.

H2020 EU Project COPAC Coherent Optical Parallel Computing (Contr. n. 766563) (2027-2021)

National PON Project TARANTO "Tecnologie e processi per l'Abbattimento di inquinanti e la bonifica di siti contaminati con Recupero di mAterie prime e produzioNe di energia TOtally green" (ARS01_00637) (2018-2021)

Italian Regional Cluster Project NANOAPULIA "NANOfotocatalizzatori per in'Atmosfera più PULitA" (Cod. Progetto MDI6SR)

National PON Project MAAT "Molecular NAnotechnology for HeAlth and Environment" (PON02_00536_33167357) (2012-2015)

CNR National Network Project RADIUS "Research Project on Organic Photovoltaic within the "Advanced Research on Innovative Materials and Organic Devices for Solar Conversion applications"

FP7 EU NMP Project ORION "Ordered Inorganic-Organic Hybrids Using Ionic Liquids for Emerging Applications" (CP-IP 229036-2) (2009-2013)

Italian Regional Project "Sens&MicroLab" (Italy) (2009-2014)

PRIN 2010-2011 Project ""Nanoscale functional organization of (bio)molecules and hybrids for targeted application in sensing, medicine and biotechnology" (Prot. 2010C4R8M8) (2012-2016)

Italian Regional Explorative Project "Photocatalytic degradation of organic pollutants in aqueous solutions by nanostructured semiconductors"(PE_049)(2007)

National Project "Nanostructured materials for optoelectronic and environmental application"

MIUR programme (ref n. 232 n. 1105 9 October 2002) (2004-2006)
National Project SYNERGY "SYNthEsis of novel oRGanic materials and supramolecular architectures for high efficiencY optoelectronic and photonic systems" MIUR FIRB programme (RBNE03S7XZ FIRB 2003 D.D. 2186) (2005-2007)
MICROPOLIS "Polymer based microsystems" MIUR FIRB programme (in collaboration with CNR Institute of Microelectronics and Microsystems Lecce Division.) (2003-2005)
"Design and development of novel sensor via immobilization of enzymes and cells on nanostructured" Progetto Finalizzato CNR programme (1998-2001)

Patents

ELECTRODE MATERIAL FOR LITHIUM AND LITHIUM ION BATTERIES" International application PCT/EP2011/059148 WO2012163426(A1) 2012 Co-ownership with the University of Münster/Germany and developed in the frame of the 7FP European Large scale project ORION "Ordered inorganic-organic hybrids using ionic liquids for emerging applications" (CP-IP 229036-2)
Inventors: Paillard E, Bresser D, Winter M, Passerini S, Striccoli M, Binetti E, Comparelli R, Curri M. L.

Teaching and tutorial activities

Lecturer in master, doctoral and post-doctoral courses at University of Bari and in several national and international schools.
Engaged in tutorial activities for degree and doctoral projects at the Department of Chemistry University of Bari – Bari (Italy), being supervisor or co-supervisor of 20 students for their Master (Laurea) project or II Level Master project, and advisor for 15 PhD candidates since 1998.
Supervisor of several CNR fellowship recipient, CNR research assistants and research fellows
Member of commission for evaluation of international PhD theses.

International collaborations

ADDITIONAL INFORMATION

Scientific output

She has been co-authoring over 240 scientific papers, including more than 210 articles on international peer-reviewed journals (JCR) and a number of other publications (11 book chapters, several conference proceedings, etc.) and has contributing to many conferences, also with invited talks (~ 60).
H index: 46 (WoS), 46 (Scopus), 51 (Google Scholar) (April 2024)

Selected publications

1. (2024)C. Ingrosso, M. Corricelli, A. Testolin, V. Pifferi, F. Bettazzi, G. V. Bianco, N. Depalo, E. Fanizza, M. Striccoli, I. Palchetti, M. L. Curri*, L. Falciola "Au nanoparticle decorated reduced graphene oxide and its electroanalytical characterization for label free dopamine detection" Mater. Adv., 5, 549-560.
2. (2023) A. Madonia, G. Minervini, A. Terracina, A. Pramanik, V. Martorana, A. Sciortino, C. M. Carbonaro, C. Olla, T. Sibillano, C. Giannini, E. Fanizza, M. L. Curri, A. Panniello, F. Messina, M. Striccoli "Dye-Derived Red-Emitting Carbon Dots for Lasing and Solid-State Lighting" ACS Nano, 17, 21, 21274–21286.
3. (2023) M. P. Scavo, R. Negro, V. Arrè, N. Depalo, L. Carrieri, F. Rizzi, R. Mastrogiacomo, G. Serino, M. Notarnicola, V. De Nunzio, T. Lippolis, P. L. Pesole, S. Coletta, R. Armentano, M. L. Curri, G. Giannelli "The oleic/palmitic acid imbalance in exosomes isolated from NAFLD patients induces necroptosis of liver cells via the elongase-6/RIP-1 pathway" Cell Death & Disease volume 14, Article number: 635.
4. (2023) R. Negro, M. Mastrogiacomo, L Carrieri, L., Rizzi, F., Arrè, V., Minervini, G., Fanizza, E., Bianco, G., Panniello, A., Striccoli, M., Comparelli, R., Armentano, R., Curri, M.L., Giannelli, G., Depalo, N., Scavo, M.P. "Encapsulation of MCC950 in Liposomes Decorated with Anti-Frizzled 1 Improves Drug Bioavailability and Effectiveness in Fatty Liver Disease" ACS Appl Mater Interf, 15 (28), 33322-33334.
5. (2023) F. Vischio, L. Carrieri, G. V. Bianco, F. Petronella, N. Depalo, E. Fanizza, M. P. Scavo, L. De Sio, A. Calogero, M. Striccoli b, A. Agostiano, G. Giannelli, M. L. Curri, C. Ingrosso "Au nanoparticles decorated nanographene oxide-based platform: Synthesis,functionalization and assessment of photothermal activity" Biomaterials Advances 145, 213272.
6. (2023) M. Giancaspro, R. Grisorio, G. Alò, N. Margiotta, A. Panniello, G. P. Suranna, N. Depalo, M. Striccoli, M. L. Curri, E. Fanizza "Molecular insights into growth and time evolution of surface states of $CsPbBr_3$ nanoparticles synthesized by scalable room temperature approach" Materials Chemistry Frontiers, 7, 13, 2637-2650.

7. (2022) G. Minervini,, A.Panniello, A.Madonia, C.M.Carbonaro, F. Mocci, T. Sibillano, C. Giannini, R. Comparelli, C. Ingrosso, N. Depalo, E. Fanizza, M.L. Curri, M. Striccoli "Photostable Carbon dots with intense green emission in an open reactor synthesis" Carbon 198, 230-243.
8. (2022) M. Iacobazzi, F. Vischio, I. Arduino, F. Canepa, V. Laquintana, M. Notarnicola, M. P. Scavo, G. Bianco, E. Fanizza, A. A. Lopedota, A. Cutrignelli, A. Lopalco, A. Azzariti, M. L. Curri, M. Franco, G. Giannelli, B. C. Lee, N. Depalo, N. Denora "Magnetic implants in vivo guiding sorafenib liver delivery by superparamagnetic solid lipid nanoparticles" Journal of Colloid and Interface Science, 608, 239.
9. (2022) S. Ahn, C. Ingrosso, A. Panniello, M. Striccoli, G. V. Bianco, A. Agostiano, G. Bruno, M. L. Curri, O. Vazquez-Mena "π–π Interactions Mediated Pyrene Based Ligand Enhanced Photoresponse in Hybrid Graphene/PbS Quantum Dots Photodetector" Advanced Electronic Materials 8 (1), 2100672.
10. (2021) C. Ingrosso, V. Valenzano, M. Corricelli, A. Testolin, V. Pifferi, G.V. Bianco, R. Comparelli, N. Depalo, E. Fanizza, M. Striccoli, A. Agostiano, I. Palchetti, L. Falciola, M.L. Curri "PbS nanocrystals decorated Reduced Graphene Oxide for NIR responsive capacitive cathodes" Carbon 182, 57-69.
11. (2021) I. De Pasquale, C. Lo Porto, M. Dell'Edera, M.L. Curri, R. Comparelli "TiO_2-based nanomaterials assisted photocatalytic treatment for virus inactivation: perspectives and applications" Current Opinion in Chemical Engineering 34, 100716
12. (2021) T. Latronico, F. Rizzi, A. Panniello, V. Laquintana, I. Arduino, N. Denora, E. Fanizza, S. Milella, C. M. Mastroianni, M. Striccoli, M. L. Curri, G. M. Liuzzi, N. Depalo "Luminescent PLGA Nanoparticles for Delivery of Darunavir to the Brain and Inhibition of Matrix Metalloproteinase-9, a Relevant Therapeutic Target of HIV-Associated Neurological Disorders" ACS Chem. Neurosci. 12, 22, 4286.
13. (2021) A. Panniello, M. Trapani, M. Cordaro, C. N. Dibenedetto, R. Tommasi, C. Ingrosso, E. Fanizza, R. Grisorio, E. Collini, A. Agostiano, M. L. Curri, M. A. Castriciano, M. Striccoli "High-Efficiency FRET Processes in BODIPY-Functionalized Quantum Dot Architectures" Chemistry–A European Journal, 27, 2371-2380.
14. (2021) M. Dell'Edera, C. Lo Porto, I. De Pasquale, F. Petronella, M L. Curri, A. Agostiano, R. Comparelli "Photocatalytic TiO_2-based coatings for environmental applications" Catalysis Today 380, 62-83.
15. (2020) C. N. Dibenedetto, E. Fanizza, R. Brescia, Y.l Kolodny, S. Remennik, A. Panniello, N. Depalo, S. Yochelis, R. Comparelli, A. Agostiano, M. L Curri, Y. Paltiel, M. Striccoli "Coupling effects in QD dimers at sub-nanometer interparticle distance" Nanoresearch, 13, 1071-1080.
16. (2020) G. Siciliano, M. Corricelli, R. M. Iacobazzi, F. Canepa, D. Comegna, E. Fanizza, A. Del Gatto, M. Saviano, V. Laquintana, R. Comparelli, G. Mascolo, S. Murgolo, M. Striccoli, A. Agostiano, N. Denora, L. Zaccaro, M. L. Curri, N. Depalo 'Au Spleckled SPION@ SIO_2 Nanoparticles Decorated With Thiocarbohydrates For ASGPR1 Targeting Towards HCC Dual Mode Imaging Potential Application', Chemistry–A European Journal, 26, 1104
17. (2020) A. De Angelis, N. Depalo, F. Petronella, C. Quintarelli, M. L. Curri, R. Pani, A. Calogero, F. Locatelli, L. De Sio, 'Stimuli-responsive nanoparticle-assisted immunotherapy: A new weapon against solid tumours' Journal of Materials Chemistry B, 8 (9), 1823
18. (2019) A. Truppi, F. Petronella, V. Margiotta, G. Lasorella, L. Giotta., C. Giannini, T. Sibillano, S. Murgolo, G. Mascolo, A. Agostiano, M. L. Curri, R. Comparelli Gram-scale synthesis of UV–vis light active plasmonic photocatalytic nanocomposite based on TiO_2/Au nanorods for degradation of pollutants in water *Applied Catalysis B*, 243, 604-613.
19. (2018) A. Panniello, E. A. Di Mauro, E. Fanizza, N. Depalo, A. Agostiano, M. L. Curri, M. Striccoli "Luminescent Oil Soluble Carbon Dots Towards White Light Emission: A Spectroscopic Study" *J. Phys Chem C*, 122, 839-849.
20. (2017) N. Depalo, M. Corricelli, I. De Paola, G. Valente, R. M. Iacobazzi, E. Altamura, D. Debellis, D. Comegna, E. Fanizza, N. Denora. V. Laquintana. F. Mavelli. M. Striccoli, M. Saviano, A. Agostiano, A. Del Gatto, L. Zaccaro, M. L. Curri "NIR Emitting Nanoprobes Based on Cyclic RGD Motif Conjugated PbS Quantum Dots for Integrin-Targeted Optical Bioimaging" *ACS Applied Materials and Interfaces*, 9 (49), 43113–43126.
21. ((2016) G. Valente, N. Depalo, I. de Paola, R.M. Iacobazzi, N. Denora, V. Laquintana, R. Comparelli, E. Altamura, T. Latronico, M. Altomare, E. Fanizza, M. Striccoli, A. Agostiano, M. Saviano, A. Del Gatto, L. Zaccaro, M.L. Curri. Integrin

Targeting with Peptide Bioconjugated to Semiconductor-Magnetic Nanocrystalline Heterostructures. *Nano Research*, 9:644-662.

22. (2015) C. Ingrosso, C. Esposito Corcione, R. Striani, R. Comparelli, M. Striccoli, A. Agostiano M.L. Curri, M Frigione UV-curable Nanocomposite based on Methacrylic-Siloxane Resin and Surface modified-TiO_2 Nanocrystals. *ACS Applied Materials and Interfaces*, 7:15494-15505.
23. (2014) A. E. Di Mauro, M. Striccoli, N. Depalo, E. Fanizza, L. Cano, C. Ingrosso, A. Agostiano, M. L. Curri, A. Tercjakc "Selective confinement of oleylamine capped Au nanoparticles in self-assembled PS-b-PEO diblock copolymer templates" (2014) *Soft Matter*, 10, 1676-1684.
24. (2014) M. Corricelli, N. Depalo, E. Fanizza, D. Altamura, C. Giannini, D. Siliqi, R. Di Mundo, F. Palumbo, V. Kravets, A. Grigorenko, A. Agostiano, M. Striccoli, M. L. Curri "2D Plasmonic Superlattice Based on Au Nanoparticles Self-Assembling Onto a Functionalized Substrate" *J. Phys. Chem. C.* 18,14, 7579-7590.
25. (2013) T. Placido, G. Aragay, J. Pons, R. Comparelli, M.L. Curri, A. Merkoçi Ion-Directed Assembly of Gold Nanorods: a Strategy for Mercury Detection. *ACS Applied Materials and Interfaces*, 5 (3):1084-1092.
26. (2013) E. Fanizza, N. Depalo, L. Clary, A. Agostiano, M. Striccoli, M. L. Curri "A combined size sorting strategy for monodisperse plasmonic nanostructures" *Nanoscale* 5(8) 3272-82.
27. (2013) A. Loiudice, A. Rizzo, G. Grancini, M. Biasiucci, M. R. Belviso, M. Corricelli, M. L. Curri, M. Striccoli, A. Agostiano, P. D. Cozzoli, A. M. Petrozza, G. Lanzani, G. Gigli "Flexible all-inorganic nanocrystal solar cell by room-temperature processing" Energy & Environmental Science,6, 1565-1572.
28. (2011) C. Ingrosso, C. Martin-Olmos, A. Llobera, C. Innocenti, C. Sangregorio, M. Striccoli, A. Agostiano, A. Voigt, G. Gruetzner, J. Brugger, F. Perez-Murano, M. L. Curri "Oxide Nanocrystals based Nanocomposite for Fabrication of photoplastic AFM Probes" Nanoscale, 3 (11), 4632 – 4639
29. (2011) G. Chandramohan, D. Dirk, G. Bertoni, A. Falqui, A. Genovese, T. Pellegrino, A. Roig, A. Quarta, R. Comparelli, M. L. Curri, R. Cingolani, L. Manna "A Cast-Mold Approach to Iron Oxide and Pt/Iron Oxide Nanocontainers and Nanoparticles with a Reactive Concave Surface" (2011) J. Am. Chem, Soc. 133 (7), 2205–2217.
30. (2010) C. Ingrosso, E. Sardella, D. Keller, S. Dohn, M. Striccoli, A. Agostiano, A. Boisen, M. L. Curri Surface functionalization of epoxy resist based microcantilevers with iron oxide nanocrystals. Adv. Mater., 22:3288-3292.
31. (2009) T. Placido, R. Comparelli, F. Giannici, P. D. Cozzoli, G. Capitani, M. Striccoli, A.Agostiano, M. L. Curri "Photochemical Synthesis of Water-Soluble Gold Nanorods: the Role of Silver in Assisting Anisotropic Growth" Chem. Mater. (18), 4192-4202
32. (2007) C. Ingrosso, V. Fakhfouri, M. Striccoli, A. Agostiano, A. Voigt, G. Gruetzner, M. L. Curri*, J. Brugger "Luminescent nanocrystal modified epoxy photoresist for the fabrication of 3-D high aspect-ratio microstructures" Advanced Functional Materials 17, 2009–2017.
33. (2006) R. Buonsanti, V. Grillo, E. Carlino, C. Giannini, M. L. Curri, C. Innocenti, C. Sangregorio, K. Achterhold, F.G. Parak, A. Agostiano, P. D. Cozzoli "Seeded growth of asymmetric binary nanocrystals made of a semiconductor TiO_2 rod-like section and a magnetic γ-Fe2O3 spherical domain" Journal of American Chemical Society; 128(51); 16953-16970.
34. (2005) P. D. Cozzoli, L Manna, M. L. Curri, S. Kudera, C. Giannini, M. Striccoli, A. Agostiano "Shape and Phase Control of Colloidal ZnSe Nanocrystals" Chemistry of Materials 17, 1296-1306.
35. (2005) Comparelli, R., Fanizza, E., Curri, M.L, Cozzoli, P.D., Mascolo, G., Agostiano, A. UV-induced photocatalytic degradation of azo dyes by organic-capped ZnO nanocrystals immobilized onto substrates Applied Catalysis B: Environmental, 60, 1-11.
36. (2004) P. D. Cozzoli, R. Comparelli, E. Fanizza, M. L. Curri, A. Agostiano, D. Laub "Photocatalytic Synthesis of Ag Nanoparticles Stabilized by TiO_2 Nanorods: a Semiconductor/Metal Nanocomposite in Homogeneous Nonpolar Solution" J. Am. Chem. Soc. 126(12); 3868-3879.
37. (2000) M. L. Curri, A. Agostiano, L. Manna, M. Della Monica, M. Catalano, L. Chiavarone, V. Spagnolo, M. Lugarà "CdS nanoclusters synthesis and characterisation in a quaternary microemulsion: the role of the co-surfactant" J. Phys. Chem. B. 104, 8391-8397.

Bari 28 March 2024