Mario Pagliaro

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Chimico e docente di nuove tecnologie dell'energia al Polo Solare della Sicilia, Mario Pagliaro è uno degli scienziati italiani più citati al mondo nel campo della chimica e dell'energia (oltre 4.400 citazioni e *h index* = 32).

E' nato a Palermo il 15 settembre 1969. Laureato in chimica *cum laude* nel 1993 all'Università di Palermo, nel 1998 ha conseguito il titolo di dottore di ricerca in Scienze Chimiche presso l'Università degli Studi di Palermo. Nel 2000, vincitore di concorso, ha preso servizio come ricercatore presso l'Istituto di Chimica e Tecnologia dei Prodotti Naturali del Consiglio Nazionale delle Ricerche (oggi Istituto per lo Studio dei Materiali Nanostrutturati).

Il suo Gruppo di ricerca collabora con ricercatori di 16 Paesi, inclusi Israele, Cina, Usa, Canada, Portogallo, Messico e Regno Unito progredendo la nanochimica per lo sviluppo delle tecnologie della chimica verde e della bioeconomia, in cui è centrale il ruolo dell'energia solare.

Si devono ai ricercatori del suo Gruppo nell'ambito delle cooperazioni internazionali in questione alcune importanti scoperte che vanno dall'uso della glicerina nei cementi ad alte prestazioni, all'idrogenazione selettiva dei grassi senza formazione dei tossici grassi *trans*; dalle vernici antivegetative ecologiche per le imbarcazioni, fino ai materiali Silia*Sun* per la sintesi chimica a luce visibile e ai catalizzatori multipotenti Silia*Cat* per la quasi totalità delle reazioni della chimica fine e farmaceutica.

Fellow della Royal Society of Chemistry è co-autore di oltre 140 pubblicazioni scientifiche internazionali e di 20 libri, alcuni dei quali divenuti di riferimento in chimica, scienza dei materiali, energia solare ed efficienza energetica.

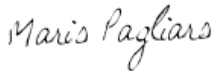
Esperto in sostenibilità e specializzato nell'adozione del *lean thinking* da parte delle imprese di servizio, il Dr Pagliaro ha una prolungata esperienza come docente di nuove tecnologie dell'energia, sostenibilità e management.

Dal 2011 il suo Gruppo di ricerca organizza ogni anno in Sicilia le Conferenze internazionali SuNEC e FineCat, divenute rapidamente fra i maggiori appuntamenti in Europa nel campo dell'energia solare e della catalisi per la chimica fine.

Nel 2009, è stato chairman del 10th FIGIPAS International Meeting in Inorganic Chemistry ("*a smashing success*") tenutosi a Palermo con oltre 300 scienziati provenienti da 50 Paesi. Dal 2004 cura l'organizzazione del Seminario "Marcello Carapezza", che nel 2011 si è tenuto alla Camera dei Deputati.

Dal 2009 al 2012 ha coordinato il "Solar Master" del Polo Solare della Sicilia. Fra il 1999 e il 2003 ha condotto le attività della Scuola di formazione manageriale nota come "Quality College del Cnr", tenendo 15 edizioni di un corso intensivo di formazione manageriale al quale sono intervenuti come docenti alcuni dei principali protagonisti del mondo dell'imprenditoria, del management, della consulenza di direzione e della comunicazione d'impresa.

Nel 2013, *Silicon* ha pubblicato un ampio articolo dedicato alle sue attività scientifiche ed educative.



E' membro dell'Advisory Board di *Chemical Society Reviews e* di *Energy Science & Engineering*; e dell'Editorial Board di *Chemistry Central Journal*, *Silicon*, *Coatings*, *Sustainable Chemical Processes* e *Letters in Organic Chemistry*.

E' invitato regolarmente a tenere lezioni e seminari a conferenze scientifiche internazionali, Università e Centri di ricerca. Come esperto internazionale ha valutato e valuta regolarmente progetti di ricerca per conto dell'Agenzia Francese per la Ricerca, della Royal Society (Regno Unito), della Pazi Foundation (Israele) e dell'Estonian Research Council. E' *referee* per i principali giornali scientifici nei campi della chimica, dell'energia e della scienza dei materiali

Editorialista di numerosi quotidiani e riviste, ha scritto e scrive per il *Sole 24 Ore*, *Linkiesta*, *Europa*, *Repubblica (edizione di Palermo)* e *Quotidiano di Sicilia*. Online dal 2000, il suo sito web (*www.qualitas1998.net*) ha migliaia di visitatori unici ogni mese.

Il Gruppo di ricerca del Dr Pagliaro nel 2014 è stato insignito del Cerisdi Awards.

Le attività di ricerca e formazione sono state di frequente riprese dalla stampa locale, nazionale ed internazionale, ed utilizzate anche per la formulazione di importanti interrogazioni parlamentari.

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Gabriele Caramellino, «Partire. Imparare. Ritornare», IX Seminario "Marcello Carapezza", Castronovo di Sicilia, 24 giugno 2014.
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Docente, Tutor e Coordinatore della formazione

Doctoral Commission with Rosaria Ciriminna, Pedro Maireles Torres, Franck Dumeinigl, Benjamin Katryonok, PhD student Cyrille Guillon, Ecole Centrale de Lille, France, 25 February 2015.
Docente (con Rosaria Ciriminna), L'energia solare per il risanamento ambientale e lo sviluppo economico, Modulo formativo nel Progetto di formazione dell'Assessorato alla Pubblica Istruzione della Regione Siciliana "Diffusione della cultura scientifica e dell'innovazione tecnologica. Sperimentiamo le scienze per conoscere e divertirci", Cnr, Palermo, ottobre 2010.
Co-Tutor (con Giuseppe Alonzo), Microparticelle so-gel per applicazioni catalitiche, PhD course of Marzia Sciortino, University of Palerrmo, 2009-.
Co-Tutor (con Vincenzo Agugliaro), Processi innovativi di ossidazione e riduzione selettive mediante fotocatalisi eterogenea ed elettrochimica: preparazione e caratterizzazione di nuovi materiali e sviluppo di sistemi di reazione, PhD course of Giovanni Palmisano, University of Palerrmo, 2006-2008.
Co-Tutor (con Carlo Barbante), Caratterizzazione archeometrica dei lingotti in piombo di Capo Passero, Laurea di Foscarina Selvaggio Boccaccin, Università di Venezia, 2008-2009.
Maître de conférences associé, Ecole Nationale Superieure de Chimie, Montpellier, May 2005.
Professor of management, Scuola Superiore della Pubblica Amministrazione, Italy's Prime Minister Office, Acireale, Reggio Calabria, Caserta: 2007-today.
Professor of management at the Quality College del CNR (1998-2003).

Lezioni su invito a Università, Conferenze internationali e Scuole

Mario Pagliaro, "Raccolta differenziata: Una ricchezza cui la Sicilia deve prendere parte", Il sistema integrato di gestione dei rifiuti nel Mezzogiorno, Rap, Comune di Palermo e Anci Sicilia, Palazzo Steri, Palermo, 26 giugno 2015.
Mario Pagliaro, "L'energia solare, questa sconosciuta", Città sostenibili e riqualificazione energetica degli edifici, Workshop di Legambiente, Corleone, 26 maggio 2015.
Mario Pagliaro, "I LED: Una tecnologia al servizio dello sviluppo", Invited lecture, Energy business forum 2015, Artimino, 23 e 24 aprile 2015.
Mario Pagliaro, "The Great Solar Boom", Invited lecture per giovani manager russi, Spring School 2015, Cerisdi, Palermo, 21 aprile 2015.
Mario Pagliaro, "Il contributo del Polo Solare della Sicilia al Polo della Bioeconomia", Seminario di presentazione del Polo della Bioeconomia, Caltagirone, 24 marzo 2015.

Mario Pagliaro, "Il solare in Sicilia", Workshop "Fonti di energie rinnovabili", Istituto Fermi-Eredia, Catania, 16 marzo 2015.
Mario Pagliaro, "Il fotovoltaico ha vinto", Workshop Progetto "ViEnergy - Vigna Energetica", Istituto "Abele Damiani", Marsala, 14 novembre 2014.
Mario Pagliaro, "Opuntia ficus indica: La nuova Aloe", Comune di S. Cono, 11 ottobre 2014.
Mario Pagliaro, "Costruire la filiera dell'edilizia sostenibile in Sicilia", Seminario sul Progetto: Sviluppo sostenibile Sicilia: promozione e tutela del Made in Italy attraverso la valorizzazione dei sistemi di qualità e tracciabilità per le filiere della nautica, edilizia e abitare sostenibile, Camera di Commercio, Caltanissetta 10 ottobre 2014.
Mario Pagliaro, "L'innovazione energetica sostenibile nel Mediterraneo", Mediterraneo e cambiamenti climatici, Festambiente Mediterraneo, Palermo, 4 ottobre 2014.
Mario Pagliaro, "Il Master ClimAbita Sicilia", Edifici. Siciliani. Risanati, S. Giovanni Gemini, 12 dicembre 2013.
Mario Pagliaro, "Energia rinnovabile ed efficienza energetica", Energia Rinnovabile, Efficienza Energetica e Opportunità di Sviluppo, Workshop del Patto dei Sindaci siciliani, Catenanuova, 9 Ottobre 2013.
Chiara Guarisco, Giovanni Palmisano, Vincenzo Augugliaro, Giuseppe Calogero, Rosaria Ciriminna, Gaetano Di Marco, Vittorio Loddo, Mario Pagliaro, "Visible-light driven oxidation of gaseous aliphatic alcohols to the corresponding carbonyls via TiO2 sensitized by a perylene derivative", The 3rd European Symposium on Photocatalysis, Portorož, Slovenia, 25-27 September 2013.
Karolin Dietrich, Piera Demma Carà, Peter Verschuren, Mario Pagliaro, N. Raveendran Shiju, Gadi Rothenberg, "Catalytic conversion of hemicellulose to sugars and sugar alcohols", Oral Presentation, Europacat XI, Lyon, 1-6 September 2013.
Mario Pagliaro, "Energia solare: Sicilia, Mondo", [PDF] La rete degli Ecosportelli, Corso di Legambiente per i soci, Caltanissetta, 16 Dicembre 2012.
Mario Pagliaro, "Solar Hydrogen" [PDF], ETH, Zurich, 16 November 2012 (watch the photogallery).
Mario Pagliaro, "Bioglycerol as Chemical Raw Material", Workshop on Glycerol: Marketing Uses and Chemistry, Milano, 18 October 2012.
Mario Pagliaro, "BIPV: Opportunità e tecnologie", Invited lecture, Tecnologie, tecniche impiantistiche e mercato del fotovoltaico [PDF], IEEE Photonics Society, Palermo, 15 October 2012.
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Mario Pagliaro, "Raw Glycerol as a Suitable Platform Chemical of the Biorefinery", Keynote lecture, 22nd Canadian Symposium on Catalysis, Quebec City, 15 May 2012, (see pictures).
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Rosaria Ciriminna, Mario Pagliaro, "L'energia solare", Scienza e Futuro, Febbraio-Giugno 2012, CNR, Area della Ricerca di Palermo.
Mario Pagliaro, "New Commercial Products from Bioglycerol: Routes of Chemical Ingenuity", Key Lecture, 8th Euro Fed Lipid Congress, Munich, 22-Nov-2010.
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Mario Pagliaro, "Energie rinnovabili" [PDF, 890 KB], Palermo, 19 maggio 2010.
Mario Pagliaro, "Quale energia per il futuro della Sicilia" [Jpeg], Palermo, 15 maggio 2010.
Mario Pagliaro, "Gli Italiani, i Media e la Felicità al Tempo della Crisi", Luiss "Guido Carli", Roma, 13 maggio 2010
Marina Nieto-Suarez, Giovanni Palmisano, María Luisa Ferrer, María Concepción Gutiérrez, Sedat Yurdakal, Vincenzo Augugliaro, Mario Pagliaro, Francisco del Monte, "Ordered titania–silica–sepiolite nanocomposites for organic pollutants concentration and abatement", Encontro sobre applicações ambientais de processos oxidativos avançados (V EPOA) – São Paulo, 26-29 October 2009.
Mario Pagliaro, Giovanni Palmisano, "Il Polo Fotovoltaico Siciliano", WHOSE 2009 - Workshop on Hybrid and Organic Solar Energy, Rome, 16 October 2009.
Mario Pagliaro, "Lavoro, benessere e tutela dell'ambiente dal sole siciliano", Zero Emission Rome 2009, 2 ottobre 2009.
Mario Pagliaro, "BIPV - Integrare gli edifici con il fotovoltaico", Zero Emission Rome 2009, 2 ottobre 2009.
Mario Pagliaro, "Il Sole a Mezzogiorno", Seminario di Nomisma Energia, Palermo, 15 giugno 2009.
Mario Pagliaro, "Green Innovation", Confindustria, Palermo, 22 aprile 2009.
Mario Pagliaro, "Evangelisti del Solare", Cnr, Palermo, 4 marzo 2009.
Marzia Sciortino, Rosaria Ciriminna, Mario Pagliaro, "Sol-Gel Microcapsules for Catalytic Applications", 10th FIGIPAS Meeting in Inorganic Chemistry, Palermo, 1-4 July 2009.
Giovanni Palmisano, Vincenzo Augugliaro, Rosaria Ciriminna, Mario Pagliaro, "NanoMORALs: metal nanoparticles doped with organic molecules", 10th FIGIPAS Meeting in Inorganic Chemistry, Palermo, 1-4 July 2009.

Giovanni Palmisano, María Concepción Gutiérrez, María Luisa Ferrer, María Dolores Gil-Luna Vincenzo Augugliaro, Sedat Yurdakal, Mario Pagliaro, "Preparation, characterization and photocatalytic activity of phthalocyanine-doped TiO2/ORMOSIL thin films", 5th European meeting on solar chemistry and photocatalysis: environmental applications (SPEA5), Palermo (Italy), 4-8 October 2008.
Mario Pagliaro, "Le energie rinnovabili per lo sviluppo sostenibile in Sicilia", Lions Club, Adrano, 22 novembre 2008.
Mario Pagliaro, "Glycerol: A New Platform Chemical and Energy Vector", John van Geuns Lecture, Universiteit van Amsterdam, 12 November 2008.
Giovanni Palmisano, Vittorio Loddo, Sedat Yurdakal, Vincenzo Augugliaro, Rosaria Ciriminna, Agatino Di Paola, Mario Pagliaro, "A reactor for photoelectrocatalytic oxidation of aromatic alcohols", XVIII International Conference on Chemical Reactors (CHEMREACTOR-18) – Malta, 29 settembre - 3 ottobre 2008.
Mario Pagliaro, "Lo sviluppo locale", Meethink, Trapani, 20 giugno 2008.
Mario Pagliaro, "Risk management: Aspetti generali e riflessioni a margine", Sicurezza in Qualità, Seminario della AICQ, Palermo, Università degli Studi, 28 gennaio 2008.
Mario Pagliaro, "I vetri sol-gel per la valorizzazione dei beni archeologici", Soprintendenza del Mare della Sicilia, Palermo, 23 maggio 2007.
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Genevieve Gingras, Michel Morin, Mario Pagliaro, David Avnir, François Béland, "The SiliCycle SiliaCat TEMPO: An effective and useful oxidizing catalyst", ACS National Meeting, San Francisco, 12 September 2006.
Mario Pagliaro, Le politiche del lavoro, dell'innovazione e della ricerca contro la guga dei cervelli» (PDF), Palermo, 7 febbraio 2006, Corso di formazione politica dell'Accademia nazionale della politica (guarda le foto del seminario).
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Mario Pagliaro, "Sol-gel oxidation catalysts applied to the conversion of biomass: Tools for sustainable development", GIC 2002 - XIII Congresso italiano di catalisi, Alghero, 9-13 giugno 2002.
Rosaria Ciriminna, Mario Pagliaro, "New Efficient Heterogeneous Catalysts for Liquid-Phase Oxidations via the Sol-Gel Process", Sol-Gel 2001 International Workshop, Abano Terme, 16-21 September 2001.
Rosaria Ciriminna, Mario Pagliaro, "Sol-gel perruthenate for liquid-phase oxidations", 4th World Congress on Oxidation Catalysis, Berlin/Potsdam, 16-21 September 2001.
Rosaria Ciriminna, Mario Pagliaro, "Sol-gel materials in oxidation catalysis", 6th FIGIPS Meeting in Inorganic Chemistry, Barcelona, 15-20 July 2001.
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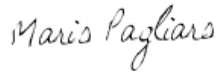

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