G. Centi - short CV

Gabriele Centi is full professor of Industrial Chemistry at the University of Messina, Italy, and President of the European Research Institute of Catalysis (ERIC). Research interests are in the areas of applied heterogeneous catalysis, sustainable energy and chemical processes, biomass conversion and environment protection.

He was coordinator of the EU Network of Excellence IDECAT, and is actually President of IACS (International Association of Catalysis Societies), in the past also President of the EFCATS (European Federation of Catalysis Societies). He was coordinator or PI in over twenty EU projects (between which the Network of Excellence on catalysis IDECAT), besides many other national and industrial projects. He recently started and coordinated an ERC Synergy grant on plasma-catalysis. He is also part of the board of SUNERGY, the European initiative on solar fuels. He received several awards, among which the Chinese Academy of Science President's International Fellowship Initiative, PIFI, as Distinguished Scientist, and the Humboldt Research Award, and is involved in various editorial activities. He chaired the editorial board of *ChemSusChem* up to 2019 and is co-editor in chief of *Journal of Energy Chemistry* (both raised to high IF journals) and of the book series *Studies in Surface Science and Catalysis*, one of the oldest and more known in catalysis. He was chairperson of many international conferences, between which Europacat 2017 in Florence and the 16th International Zeolite Conference joint with the 7th International Mesostructured Materials Symposium (Sorrento, Italy, 2010).

He is author of nearly 500 scientific publications, 12 books and editor of over 20 special issues of journals. Current h-index is 86 with about 29.000 citations and over 350 papers with more than 10 citations (Google Scholar, March 2021).

University of Messina, Italy
INSTM (InterUniversity National Consortium for the Science & Technology of Materials)
ERIC (European Research Institute of Catalysis)

Curriculum Vitae - *Gabriele* ***CENTI***

Feb. 2021

Date of birth	18 October 1955
Nationality	Italian
Language	Italian, English
 Education & Career	**EDUCATION** 1979 "Laurea" degree (5 years) in Industrial Chemistry at the Univ. of Bologna (Italy) **CURRENT POSITION(S)** 1996 – today Full professor of *Industrial Chemistry* at the University of Messina, Italy 2008-today President of *European Research Institute of Catalysis* (ERIC aisbl) **PREVIOUS POSITIONS** 1987 – 1995 Associate professor in *Chemical Reactor Engineering* at the Univ. Bologna, Italy 1983 – 1987 Researcher in Industrial Chemistry at the University of Bologna, Italy 1981 Fellowship - One year, Experimental Station for Fuels (Milan, Italy)
Career and Commissions of Trust	2021 Recipient of Chinese Academy of Science President's International Fellowship Initiative, PIFI, as Distinguished Scientist 2021 Recipient of Humboldt Research Award 2018-today Members of the Academy of Sciences Institute of Bologna, Section - Mathematics, Physics, Chemistry and Geology 2017-today Honorary Professors of Tianjin University (TJU), China 2016-today President of IACS (International Association of Catalysis Societies) (from 2012 to 2016 vice-President of IACS) 2008-today President of *European Research Institute of Catalysis*, coordinating the activities of 24 European Institutions on Catalysis. 2001-2005: President of the European Federation of Catalysis Societies (EFCATS) 2015-today: Scientific Advisor of the EU Cluster of Catalysis 2018 Member of writing team of SAPEA (Science Advice for Policy by European Academies) Evidence Review Report for European Commission "Novel carbon capture and utilization technologies: Research and climate aspects" 2016 coordination of the preparation of the "Science and Technology Roadmap on Catalysis for Europe. A Path to Create A Sustainable Future" ISBN 979-12-200-1453-3 2001-2009: co-Director of the *European Laboratory of Surface Science and Catalysis* (ELCASS) created in 2001 by CNRS and University of Strasbourg (France), MPG and Fritz-Haber Institute of Berlin (Germany) and the University of Messina (Italy). 2015-2017 vice-President of European Federation of Catalysis Societies (EFCATS) 2016-today vice-President of the InterUniversity Consortium INSTM (Science and Technology of Materials), Italy (from 2013 also member of the Executive Board of INSTM) 2009-2012: Director of the Thematic Section 2 - Energy and Environment - of INSTM 2008-today: Director of INSTM centre CASPE (Catalysis for Sustainable Production and Energy) 2006-2012: Scientific responsible of the Italian Platform of Sustainable Chemistry 2007-2010: Member of the Mirror Group of the *European Technology Platform on Sustainable Chemistry* (ETP SusChem) 2005-2012: Member in several panels and international boards: CSIC (Spain), ICSC (Krakov, Poland), US DoE, ACENET ERA-NET, ERA-NET CAPITA, ANR (France), Academy of Finland, etc. 2013 Member of GEV panel (Area 3 – Chemical science) for VQR 2004-2010 2015 Member of GEV panel (Area 3 – Chemical science) for VQR 2011-2014 2004-2010: Member of the Council of the *International Zeolite Association* (IZA) 2001-2005: Member of the Board of the Catalysis Group of the *Italian Chemical Society (SCI)* 2016-today: Member of the Board of the Division of Industrial Chemistry of SCI
Editorial activities	2015-today: Co-editor in chief *Journal of Energy Chemistry* (Elsevier) 2003-today: Chief Editor of the Book Series *Studies in Surface Science and Catalysis* published by Elsevier Science (Amsterdam) (178 Vol. published in the series)

	2007-2019:	Chair of the editorial board of Wiley-VCH journal *ChemSusChem* (Chemistry & Sustainability, Energy & Materials)
	2011-2018:	Chief Editor of the Book Series *Green Energy* published by De Gruyter (Berlin)
	2012-2016:	Member of Advisory Board of Wiley journal *Energy Technology*,
	2012-today:	Member of Advisory Editors Board of Elsevier journals *Journal of CO_2 Utilization* and *Chinese Journal of Catalysis*
	2016-today:	Member of the Editorial Board of Wiley-VCH journal *Batteries & Supercaps* and *Journal of the Chinese Chemical Society*
	2009-2017	Member of the Scientific Committee of the Wiley journal *ChemCatChem*
	2003-2018:	Member of the Scientific Committee of the journal "*La Chimica e l'Industria*"
	1992-1996:	Member of the Editorial Board of the journal *Applied Catalysis*.
	1996-2004:	Member of the Editorial Board of the journal *Appl. Catal. B. Env*.
EUROPEAN ACTIVITIES	2020-today	Coordinator of the EU Project DECADE "DistributEd Chemicals And fuels production from CO_2 in photoelectrocatalytic DEvices"
	2019-today	Coordinator of the ERC Synergy grant SCOPE " Surface-COnfined fast-modulated Plasma for process and Energy intensification in small molecules conversion"
	2020-today	Board member of initiative SUNERGY on fossil-free fuels and chemicals for a circular economy, to prepare an EU partnership
	2019-2020	Core member of EU-CSA ENERGY-X "Transformative chemistry for a sustainable energy future" to prepare a flagship on synthetic fuels and chemicals using renewable energy
	2020-today	Coordinator of EU project DECADE “DistributEd Chemicals And fuels production from CO2 in photoelectrocatalytic DEvices” (start Apri 2020)
	2015-2019	Coordinator of EU project TERRA “New adaptable catalytic reactor methodologies for Process Intensification” (start Sept. 2015)
	2015-today	Participant in various H2020 EU projects (BIZEOLCAT, OCEAN, PERFORM, RECODE) and FP7 EU projects (HELMETH, Eco2CO2) on topics of catalysis and electrocatalysis
	2013-2016	IAPP (Marie Curie Industry-Academia Partnerships and Pathways) project BIOFUR "BIOpolymers and BIOfuels from FURan based building blocks"
	2005-2010	Coordinator of the Network of Excellence IDECAT (Integrated design of catalytic nano-materials for a sustainable production) - Eur. Comm. (5 years, 9.5 M€, started Apr. 2005)
	2009-2014	Coordinator of EU Large collaborative project NEXT-GTL (budget about 12.5 M€)
	2012-today	Coordinator of CSA eCAMM (European structured research area for CAtalytic and Magnetic nanoMaterials), contract 290455
	2002-2005	Coordinator of the EU project NEOPS G5RD-CT2002-00678 Novel Eco-efficient Oxidation Processes based on H_2O_2 Synthesis on Catalytic Membranes
	2002-2005	Coordinator of the EU project NANOSTRAP G3RD-CT2002-00793 "Nanostructured Sulphur Traps for the protection of high performance NOx storage/reduction catalysts"
	1996-today	Scientific responsible for Messina (Univ. or UdR INSTM / ERIC) in several EU projects on the development of sustainable industrial processes and technologies for energy and protection of the environment:, NATAMA, CONCORDE, SMART, SUPER, COCON, STORECAT, DENITROCAT, H_2O-RECYCAT, NEMCA, ALKYL, WAVES (ERA-NET CAPITA)
National projects (selection)	2011-2018:	responsible for Univ. Messina in projects PON01_01725 (Photovoltaic) and PON02_00355_3391233 (Energetics) [MIUR]
	2014-2015:	responsible for project “Development of membrane reactor heated by fused salts for the dehydrogenation of propane” (MEME) [MAE]
	2014-2016:	responsible UniME in project “Innovative processes for the conversion of algal biomass”, project” PRIN10/11, 2010H7PXLC_006 [MIUR]
	2016-2018:	responsible UNIME in project "Solar driven chemistry: new materials for photo- and electro- catalysis" PRIN2015/ 2015K7FZLH_004 [MIUR]
	2019-today:	coordinator national PRIN2017 project “Multielectron transfer for the conversion of small molecules: an enabling technology for the chemical use of renewable energy (MULTI-e)” project 20179337R7
Collaboration with companies	2000-today	Various bi- and multi-lateral Academia-Industry cooperation: e.g. with industrial partners such as ENI, ERG, Bayer, BASF, ACTA, TOYOTA, etc.

Academic Papers

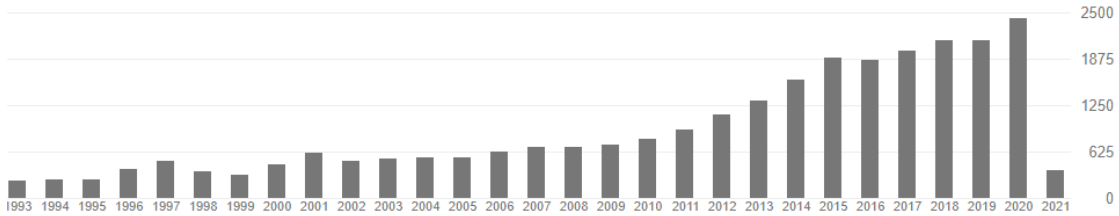
Type	G. Centi
Books	12
Monographs and other books	3
Editor special issues of journals	16
Contributions to encyclopedia	6
Peer reviewed Journals	> 400 (433*)
Chapters in peer reviewed books	> 120 (137*)
Patents	5 (*)
* in the official UniME database (iris.cineca)	

updated info at http://ww2new.unime.it/catalysis/bibliometric-data.html

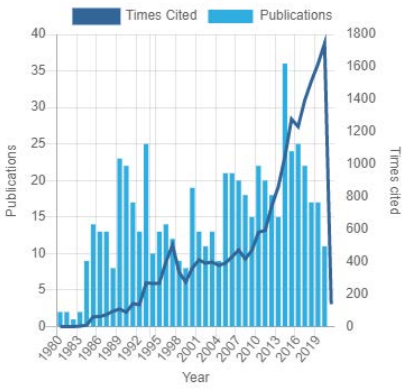
Bibliometric data

Google Scholar
(Feb 8th 2021)

Index/Citat.	All	From 2016
Citations	28124	10966
h-index	**86**	**50**
i_{10}-index	356	197



Publish or Perish (≥
Citations: 28076 Years: 41 Papers 836 Cites/year: 685
h-index: 85 g-index: 146
Top industrial chemistry and between the top 15 researchers in chemistry in Italy (as h-index).

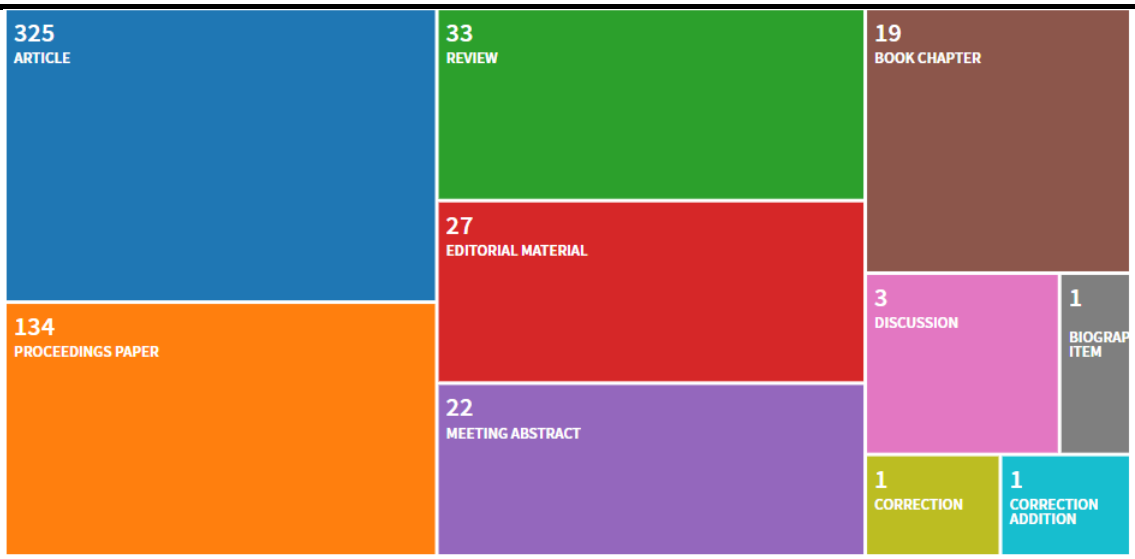


Publons (web of science) (Feb 8th, 2021)

PUBLICATIONS IN WEB OF SCIENCE	SUM OF TIMES CITED	H-INDEX	AVERAGE CITATIONS PER ITEM	AVERAGE CITATIONS PER YEAR
463	19.944	71	43.1	511.4

Scopus (Feb 8th, 2021)
Citations: 21590 Documents: 495 h-index: 75 Cited documents: 495

Web of Sciences



Books
(last 10 years)

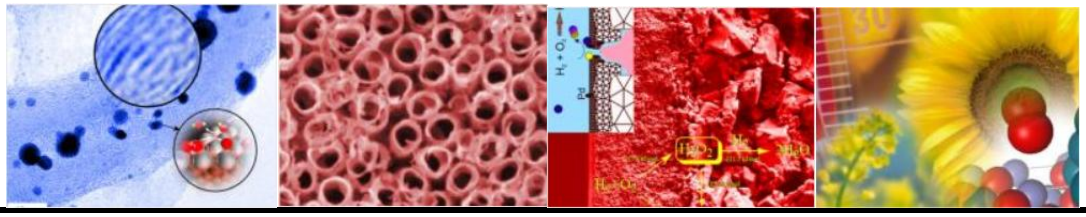
G. Centi, R.A. van Santen	*Catalysis for Renewables*	*Wiley VCH Pub.: Weinheim (Germany) 2007, pp. 448.*	*ISBN: 978-3-527-31788-2*
F. Cavani, G. Centi, S. Perathoner, F. Trifirò	*Sustainable Industrial Chemistry - Principles, Tools and Industrial Examples*	*Wiley VCH (Weinheim, Germany), 2009, pp. 621*	*ISBN: 978-3-527-31552-9*
G. Rios, N. Kanellopoulos, G. Centi	*Nanoporous Materials for Energy and the Environment*	*Pan Stanford Pub Pte (Singapore), 2012, pp. 305*	*ISBN: 978-9-814-26717-5*
M. De Falco, G. Iaquaniello, G. Centi	*CO_2: A Valuable Source of Carbon*	*Springer (Heidelberg, Germany), Series: Green Energy and Techn.2013, XVI, pp. 194*	*ISBN 978-1-4471-5119-7*
G. Centi, S. Perathoner	*Green Carbon Dioxide: Advances in CO_2 Utilization*	*Wiley & Sons, New York (US), 2014, pp 322*	*ISBN: 978-1-118-59088-1*
A.Basile, M. De Falco, G. Centi, G. Iaquaniello	*Membrane Reactor Engineering: Applications for a Green Process Industry*	*Wiley & Sons, New York (US), 2016, pp 350*	*ISBN: 978-1118-90680-4*
A. Basile, G. Centi, M. De Falco, G.Iaquaniello	*Green Chemistry and Sustainable Energy. New Technologies for Novel Business Opportunities*	*Elsevier, Amsterdal (NL) 2019, pp. 576*	*ISBN:978-0-444-64337-7*

Awards and honours (selection)

2009	Soc. Chim. de France French-Ital. Prize, distinguished works in industrial chem. and sustainable processes
2010	UOP 2010 lectureship
2010	finalist of the 2010 European Sustainable Chemistry Award (EuCheMS)
2013	MPG Award “Frontiers in Chemical Energy Science” (Mühlheim an der Ruhr, Germany)
2014	LEE HSUN Lecture Series award, Inst. of Metal Res., Chinese Acad. Sciences, Shenyang (China)
2015:	Catalysis Forum Lectureship (State key Lab. of Catalysis, Dalian - China)
2015:	Kekule lecture (Univ. Antwerpen)
2015:	Fellow award of the European Chemical Societies - ChemPubSoc Europe (F CPSE)
2016:	C5MPT Summit Speaker, Univ. of Alberta (Edmonton, Canada)
2016:	Chini Memorial Lecture (Italian Chemical Society)
2017:	Gold Medal S. Cannizzaro of the Italian Chemical Society.

Sabbaticals and Fellowships:	1980: Fellowship (one year), Experimental Station for Fuels (Milan, Italy) 2001: Visiting professor: University of Oulu (Finland) 2003: Guest Professorship: Université Louis Pasteur, Strasbourg (France) 2005: Visiting professor: EPFL (Lausanne, Switzerland) 2016: visiting prof. Univ. of Alberta (Edmonton, Canada), C5MPT Summit Speaker 2016: visiting professor (3 months) at Technische Univ. München (Germany) 2015-17: Academic Icon (Univ. Malaya, Kuala Lumpur, Malaysia)
Chaiperson in International Workshops & Conferences (selection)	1995 1st World Conf. on Env. Catalysis (Pisa, May 1995), 1999 6th Eur. Workshop on Selective Oxidation (Rimini, Sept. 1999) 2000 NATO Adv. Res. Workshop on "Catalysis by unique metal ion structures in solid matrices" (Prague, July 2000), 2001 3rd Eur. Workshop on Environmental Catalysis (Maiori, May 2001), 2006 IDECAT-NRSC Conf. on Catalysis for Renewables (Rolduc, May, 2006), 2007 Symp. Catalysis for Pollution Control and ISO2007 at Europacat VIII (Turku, Aug. 2007), 2010 IDECAT Conf. on Catalysis - Emerging challenges in catalysis (Porquerolle, May 2010), 2010 Innovation in catalysis for sustainable production & energy (Messina, Sept. 2010), 2010 Int. Zeolite and Mesoporous Materials conference (IZC16/IMMS7: Sorrento July 2010) 2011 X European Workshop on Selective Oxidation (ISO 2011; Glasgow, Sept. 2011), 2011 5th IDECAT/ERIC-JCAT Conference on Catalysis (Bertinoro, Sept. 2011). 2014 CIMTEC 2014 - Symposium Advances in Photocatalytic Materials for Energy and Environmental Sustainability, Montecatini 8-13, 2014 2015 CRS-3 Catalysis for Renewable Sources: Fuel, Energy, Chemicals (Catania, 6-11 Sept. 2015) 2016 CIMTEC 2016, Symposium "New Concepts and Advances in Photocatalytic Materials for Energy and Environmental Applications, Perugia (Italy), June 5-9, 2016 2017 Europacat 2017 (Florence, Italy), August 27-31, 2017 2019 CIS2019 Chemistry meets Industry and Society, Salerno (Italy), 28-30 August 2019 2020 CIMTEC 2020, Symposium "New Concepts and Advances in Photocatalytic Materials for Energy and Environmental Applications, Perugia (Italy), June 15-19, 2020 (suspended due to Covid-19) Members of the Scientific Advisory Board of many international conferences (on the average > 5 per year in the last five years)
Plenary and keynotes/ invited (selection)	2020 Technische Univ. Eindhove, 10 Feb. 2020, invited lecture 2019 Workshop "Innovative Materials for Energy" 2019 (Messina), 20-22 Nov. 2019, kyenote 2019 51 Symp on Catalysis, Prague Czech Rep., Nov. 4-5 2019, plenary 2019 European Research and Innovation Days, Brussels - Belgium, 24–26 September 2019, session Materials enabling carbon neutrality, invited speaker 2019 EuroNanoForum 2019, Bucharest - Romania, June 12-14 2019, PILLAR 1: NANO for ENERGY. PARALLEL 1.1 Nanotechnologies and Advanced Materials for a Carbon-neutral Society by 2050, invited speaker 2019 4th Euro Asia Zeolite Congress (4th EAZC), 27-30th Jan. 2019. Taormina (ME), Italy; keynote 2019 ISGC-2019 (Int. Symp. on Green Chemistry), La Rochelle France), 13-17 May 2019, plenary 2019 12 th Int Symp of the Romanian Catal Soc (RomCat 2019), June 5-7, 2019, Bucharest, Romania; plenary 2019 8th Asia Pacific Congress on Catalysis (APCAT-8), Bangkok Thailand, August 4-7th, 2019, plenary 2018 10th Int. Conference on Env. Cat. & the 3rd Int. Symp. on Catalytic Science and Techn. in Sustainable Energy and Env. (ICEC&EECAT2018), Tianjin (China), Sept. 22-26th, 2018, plenary 2018 13th International Chemical and Biological Engineering Conference (CHEMPOR2018), Aveiro (Portugal), 2-4 October 2018, plenary 2018 7th EuCheMS Chemistry Congress, 26-30 August, 2018, Liverpool UK, keynote 2018 2nd International Forum on Clean Energy, Aug. 24-25, 2018, Dalian China. plenary 2018 Gordon Research Conference Green Chemistry, Castelldefels (Spain), July 29 - August 3, 2018, keynote 2018 EFCATS School on Catalysis, June 25-29 2018, Castle Libice (Czech Rep.), plenary 2018 Syngas 3 Convention, Cape Town, South Africa, 25-28 March 2018, plenary

	2018 Autumn School on 'Industrial catalysis and CO2 activation', 22-24 March 2018, Cape Town, South Africa, plenary 2018 ChemEner2018, January 28 -31, 2018, Berlin - Germany, plenary (G. Centi) 2017 18th Chinese National Congress on Catalysis, October 16-20th, 2017, in Tianjin - China, plenary 2017 SCI2017 (XXVI Congress of the Italian Chemical Society), 10-14 Sept. 2017 Paestum (SA9 - Italy, Cannizzaro lecture 2017 World Congress on Oxidation Catalysis (WCOC 2017) (Krakow, Poland, 3rd - 8th September 2017), plenary 2017 Symposium on Nanomaterials in Energy Research and Catalysis (Aug. 24th, 2017, in Seoul – S. Korea / Institute of Basic Science), plenary 2017 7th Korea CCUS International Conference, Jeju Islnad (Korea), Feb. 8-10, 2017, plenary (2016: Nano and Interfacial Catalysis, Dalian (China), July 9-11, 2016, keynote 2016: ICZ 18 (International Zeolite Conference), 18-24 June 2016 Rio de Janeiro (Brazil), plenary 2016: School on Zeolites. University of Campinas (Brazil) 17-18th June, 2016, plenary 2016: CARBOCAT VII - 12-17 June 2016 – Strasbourg (France), plenary 2016: Workshop on Layered Materials, Trest (Czech Rep.), 15-19 Sept. 2016; plenary 2015: CatBior 2015 (3rd Int. Congress on Catal. for Biorefineries), Sept. 27-30, 2015 Rio de Janeiro – Brasil, plenary 2015: IUPAT 2015 , Busan Korea Aug. 6-13, 2015, keynote 2015: Faraday Discussion Carbon Dioxide Utilization, 7-9 Sept. 2015 Sheffield, UK, invited 2015: Europacat XII, Kazan Russia, 30 Aug. - 4 Sept. 2015, keynote 2015: Industrial day - ISPC 22 Antwerp, July 5-10, 2015 (Belgium), plenary 2015: 3rd TMFB June 23-25th, 2015; Aachen (Germany), plenary 2015: Workshop on Future Low and Zero Carbon Energy, 25th June 2015, Thessaloniki (Greece), plenary 2015: 31st PSI Electrochemistry Symposium, May 6, 2015 - Paul Scherrer Institut, Villigen PSI (Swiss), plenary 2015: Irsee VII Symposium - New Insights in Selective Oxidation Catalysis, Electrocatalysis and Catalysis of Biomass, Irsee, Germany, 4 - 7 June 2015, invited 2015: Dalian Institute of Chemical Physics, 7th Lecture - Catalysis Forum, May 22, 2015, Dalian (China), plenary 2015: International Conference on New Materials for Clean Catalytic Processes, 27 April 2015 Alicante, Spain, plenary 2015: 8th Rideal Conference, Berlin March 25-27th, 2015, invited 2015: Catalytic Carbon and Hydrogen Management (KRC-CCHM), Kaust (South Arabia), Feb. 1-4, 2015, invited 2015: 3rd International Symposium on Chemistry for Energy Conversion and Storage, January 18-21, 2015 Berlin – Germany, plenary
Research fields	Research interests are in the areas of applied heterogeneous catalysis, chemical reaction engineering, and reaction mechanisms. Present research interests embrace the development of industrial heterogeneous catalysts for applications in the field of innovative selective oxidation processes, environment protection and sustainable energy. *Main field:* Heterogeneous catalysis and catalytic technologies, chemical processes with low environmental impact, development of nanomaterials for applications in the field of the treatment and control of gaseous and liquid emissions, catalysis for sustainable processes and energy, development of electrocatalysts for fuel cells and electrochemical devices, nanostructured photocatalysts for water splitting, membranes for H_2 separation *Other fields:* Cleanup technologies (gas & liquid emissions), environmental catalysis, industrial catalytic processes, solid catalysts (mixed oxides and zeolites, especially containing transition metals, mesoporous materials, nanostructured oxides and carbon), greenhouse gas reduction, use of solar energy, fuel cells and (photo)electrocatalytic devices **Systems based on nanotubes and nano-structures.** Based on metal nanoclusters deposited over carbon or metal-oxides organized 1D-type nanostructures, for applications ranging from electrodes in PEM and

Web site	PEC devices, to photoactive thin films, sensors, advanced microreactors, and catalysts for novel energy and chemical processes. **Materials for solar fuels & renewable energy.** Synthesis, characterization and testing for applications ranging from advanced coating and photoactive materials, to novel catalysts and devices in sustainable chemical processes, and for energy (biomass conversion, renewable H_2, solar fuels from CO_2). **Catalytic membranes.** Based on Pd-alloy supported thin films for applications from environment protection (reduction of nitrate in water) to chemical synthesis (H_2O_2 direct synthesis) and energy. Recent focus is on the new energy-efficient membrane-based processes for the production of H_2 by CH_4 steam reforming and syngas by catalytic partial oxidation. **Chemo-catalytic processes for ligno-cellulosic biorefineries**. Development of novel catalysts for the conversion of ligno-cellulosic biomass (in particular waste materials) to novel platform molecules (furfurals) and the catalytic upgrading of the latter to biofuels (gasoline and diesel) or chemicals *http://ww2.unime.it/catalysis/* 

TEN RECENT REPRESENTATIVE PUBLICATIONS

Title	Author	Journal	Year.	Issue/ pages	Impact factor	Citat. (*)
2D Oxide Nanomaterials to Address the Energy Transition and Catalysis	CJ Heard, J Čejka, M Opanasenko, P Nachtigall, G Centi, S Perathoner	Adv Materials	2019	31, 1801712	22,0	46
Operando spectroscopy study of the carbon dioxide electro-reduction by iron species on nitrogen-doped carbon	C Genovese, G Centi, S Perathoner, et al.	Nature Comm.	2018	9, 935	12,4	87
New catalytic materials for energy and chemistry in transition	J Čejka, P Nachtigall, G Centi	Chem. Soc. Rev.	2018	47, 8066 - 8071	40,2	18
Catalysis by hybrid sp^2/sp^3 nano-diamonds and their role in the design of advanced nanocarbon materials	Y Lin, X Sun, DS Su, G Centi, S Perathoner	Chem. Soc. Rev.	2018	47, 8438--8473	40,2	46
Beyond Solar Fuels: Renewable Energy-Driven Chemistry	P Lanzafame, G Centi, S Perathoner, et al.	ChemSusChem	2017	10 , 4409-4419	7,4	43
Room-Temperature Electrocatalytic Synthesis of NH_3 from H_2O and N_2 in a Gas–Liquid–Solid Three-Phase Reactor	S Chen, S Perathoner, G Centi, et al.	ACS Sustainable Chemistry & Engineering	2017	5 (8), 7393-7400	6,2	87
Electrocatalytic Synthesis of Ammonia at Room Temperature and Atmospheric Pressure from Water and Nitrogen on a Carbon-Nanotube-Based Electrocatalyst	S Chen, S Perathoner, C Ampelli, C Mebrahtu, D Su, G Centi	Angewandte Chemie Int Ed	2017	56, 2699-2703	12,1	395
Mechanism of C–C bond formation in the electrocatalytic reduction of CO_2 to acetic acid. A challenging reaction to use renewable energy with chemistry	C Genovese, C Ampelli, S Perathoner, G Centi	Green Chemistry	2017	19, 2406-2415	8,6	59
Catalysis for biomass and CO_2 use through solar energy: opening new scenarios for a sustainable and low-carbon chemical production	P. Lanzafame, G. Centi, S. Perathoner	Chem Soc Rev	2014	43, 7562-7580	30.4	164
Nanocarbons for the Development of Advanced Catalysts	D.S. Su, S. Perathoner, G. Centi	Chemical reviews	2013	113, 5782–5816	45.7	968

* citations: source Google Scholar (Feb. 2021)