

# Scientific Curriculum of prof. Antonino Gulino (01-06-2023)

**Antonino Gulino**, PhD

Full Professor of General and Inorganic Chemistry

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**Scientific-disciplinary sector:** CHIM/03

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## Curriculum Vitae



### Personal Informations

Name and Surname

**Antonino Gulino**

Nationality

Italian

### Work Address and Contacts

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<b>Recent Institutional Positions</b>	<p>-2023 Member of the Expert Evaluation Panels (PEV – ANVUR) for the initial accreditation of newly activated Study Programmes at the University of Bari, University of Milano-Bicocca, University of Rome, “La Sapienza”.</p> <p>-2021-do date Member of the Quality Assurance Praesidium (PQA) of the University of Catania.</p> <p>-2021 -2018 Member of the Italian ASN Committee CHIM/03/B1.</p> <p>-2021 – 2018, President of the Quality Assurance Committee of the Department of Chemical Sciences, University of Catania.</p> <p>-2018 ANVUR Board for the Accreditation of the University of Genoa.</p> <p>-2015 to date, Member of REPRISE.</p> <p>-2015 Board for the assignment of the “UNA TANTUM” salary quota of the University of Catania.</p> <p>-2014 to date, Responsible of the XPS instrument of the BRIT, UNICT.</p> <p>-2013 to date, ANVUR Disciplinary expert.</p> <p>2015-2013: Department of Chemical Sciences Coordinator of the MEDNETNA project, UNICT.</p> <p>-2013-2009: Scientific Council Board of INSTM.</p> <p>-2010 to date, Member of the board of the International PhD in Chemical Sciences, UNICT.</p> <p>-1992 to date, Founder Member of the National Consortium for Materials Science and Technology (INSTM), Florence, Italy.</p>
<b>Scientific Activity</b>	<p>The scientific activity of Antonino Gulino is concerned within the fields of Chemistry of Materials and Nanoscience. In particular, he deals with functional materials, molecular architectures, self-assemblies, nanostructures, conductive oxides, electronic structures of inorganic compounds. His scientific activity is documented by more than 155 publications in International Scientific Indexed Journals (h-index 39, source: Web of Science; h-index 40, source: google scholar).</p>
<b>Active International Collaborations</b>	<p>University of Oxford, Oxford, UK (Profs. R. G. Egdell)</p> <p>Weizmann Institute of Science, Israel (Profs. M. van der Boom; B. Rybtchinski; H. Weissman)</p> <p>The Volcani Center, Bet-Dagan, Israel (Dr. E. Poverenov)</p> <p>University of Delhi, India (Prof. S. K. Awasthi)</p> <p>South Asian University, India (Prof. R. D. Gupta)</p>
<b>Abroad for Scientific Activity</b>	<p>-April <b>2015</b> visiting professor, Trinity College, Oxford, UK.</p> <p>-May <b>2014</b>; visiting professor, Weizmann Institute of Science, Rehovot, Israel.</p> <p>-September <b>2009</b> Chair at the 5<sup>th</sup> Korea-Italy Inorganic Chemistry Symposium, Kyungju POSTECH, Pohang, South Korea.</p> <p>-June - September <b>2008</b> visiting professor, Weizmann Institute of Science, Rehovot, Israel.</p> <p>-May <b>2007</b> visiting professor, Weizmann Institute of Science, Rehovot, Israel.</p> <p>-June - September <b>2007</b> visiting professor, Weizmann Institute of Science, Rehovot, Israel.</p> <p>-March <b>2006</b> visiting professor, Weizmann Institute of Science, Rehovot, Israel.</p> <p>-October <b>1993</b> - <b>July 1994</b>, visiting professor, Inorganic Chemistry Laboratory, University of Oxford, England.</p>
<b>Foreign Professors hosted by Antonino Gulino at the DSC, UNICT</b>	<p>-2014 Dr. Haim Weissmann, Weizmann Institute of Science.</p> <p>-2011 Prof. Milko van der Boom, Weizmann Institute of Science.</p> <p>-2009 Prof. Russell Egdell, University of Oxford.</p> <p>-2009 Dr. Haim Weissmann, Weizmann Institute of Science.</p> <p>-2007 Prof. Russell Egdell, University of Oxford.</p> <p>-2006 Prof. Milko van der Boom, Weizmann Institute of Science.</p>

**Direction of International Research Projects**

-NATO Director of the SfP 981964 Science for Peace: Organic Optical and Electronic Sensors: Sniffing out Chemicals.  
([https://www.weizmann.ac.il/conferences/nato07/new\\_pages/contacts.html](https://www.weizmann.ac.il/conferences/nato07/new_pages/contacts.html))

**Recent International Scientific Achievements**

2019 to date, Editorial Board Member of Nanomaterials (MDPI)  
<https://www.mdpi.com/journal/nanomaterials/editors>  
2020 to date, Editorial Board Member of Inorganics (MDPI)  
<https://www.mdpi.com/journal/inorganics/editors>  
2021 to date, Editorial Board Member of Catalyst (MDPI)  
<https://www.mdpi.com/journal/catalysts/editors>  
2018 Cover, and Cover Profile on Eur. J. Inorg. Chem.  
2018 Cover on JACS  
2016 Cover, Hot Paper and Cover Profile on Chemistry, A Eur. J.  
2014 Cover on Chem. Commun.  
2014 Cover and Cover Profile on Eur. J. Inorg. Chem.  
2014 Analytical and Bioanalytical Chemistry Top 10 most cited in 2013.  
2013 Highlight on RSC Chemistry World.  
2013 Highlight on Le Scienze  
2013 Cover on Analytical Methods  
2009 Flyer by Chem. Commun  
2010 Highlight on Angew. Chem.

**Recent International Committee for the Evaluation of Research Projects**

- 2020 Expert Evaluator for the Academy of Sciences of the Czech Republic.  
- 2020, 2016 International Referee for FWO, Belgium.  
- 2015 Expert Evaluator for the Academy of Sciences of the Czech Republic.  
- 2011 International Referee for the Austrian Science Fund (FWF)  
- 2009 International Referee for the Binational Science Foundation (BSF).  
- 2008 International Referee for the German - Israeli Foundation (G.I.F).  
- FIRB, PRIN and VQR Reviewer

**Recent Participation to National and International Committees for Academic Promotions**

- 2023, President of the Selection Committee of an associate professor position, 03/B1-CHIM/03, University of Catania.  
- 2021-2022, UNIPD Representative (Internal Member) for the Selection Committee of an assistant professor position, 03/B1-CHIM/03, University of Padua.  
- 2021, Selection Committee for an assistant professor position, 03/B1-CHIM/03, University of Messina.  
- 2020, Selection Committee for an assistant professor position, 03/B1-CHIM/03, University of Padua.  
-2019, Selection Committee for an assistant professor position, 03/B1-CHIM/03, University of Palermo.  
-2019, Selection Committee for an associate professor position, 03/B1-CHIM/03, University of Catania.  
-2019, Selection Committee for an associate professor position, 03/B1-CHIM/03, University of Bologna.  
-2019, Selection Committee for an associate professor position, 03/B1-CHIM/03, University of Padua.  
-2018, Selection Committee for an assistant professor position, 03/B1-CHIM/03, University of Catania.  
-2017, Selection Committee for an associate professor position, 03/B1-CHIM/03, University of Padua.  
-2017, Selection Committee for a full professor position, 03 / B1 - CHIM / 03, University of Padua.  
-2009, Evaluator for the academic promotion of scientists at the Weizmann Institute of Science (WIS), Israel.

<b>Recent Participation to National and International Committees for the PhD final Exams</b>	<p>-2021, 2020, 2017, 2016 Committees for the final exam for the PhD in Material Science and Nanotechnology, University of Catania.</p> <p>-2021 (PhD in Molecular Sciences), 2018 (PhD in Molecular Sciences), 2017 (PhD in Science and Engineering of Materials and Nanostructures) Committees for the final exam, University of Padua.</p> <p>-2022, 2021, 2020, 2016, Committees for the final PhD exam, Department of Chemistry, University of Delhi, and University of Allahabad, India.</p>
<b>Honor and Prizes</b>	<p>-1994 CNR award for productivity during the research period carried out at the Inorganic Chemistry Laboratory, <b>University of Oxford</b>, UK, as visiting professor, position 204.3883 Prot. 134578.</p> <p>-1993 Scholarship granted by the CNR for scientific activity to be carried out abroad (October 1993 - July 1994) position 204.3883 Prot. 134578.</p> <p>-1990 Healthcare research grant awarded by the Region of Sicily (09 April 1992, prot. 3449).</p>
<b>Academic Achievements</b> <b>Actual Teaching activity</b>	<p>1984 MSc in Chemistry (Magna cum laude); 1990 PhD in Chemical Sciences</p> <p>-2023 Unpacking Internationalisation: An Introductory Roadmap to Teach Globally Coordinated by the Universidade Federal de Ciências da Saúde de Porto Alegre, Brasile and the University of Mons (Belgium) and organized from 10th January 2023 to 28th february 2023.</p> <p>-2022 “Empower Yourself as a Lecturer in English: EMI basics” coordinated by the University of Mons (Belgium) and organized from 17th October to 2nd December 2022.</p> <p>-Inorganic Chemistry Complements (L-27, Industrial Chemistry)</p> <p>-Chemistry (L-30, Physics).</p> <p>-Advanced Inorganic Chemistry (LM54-SC)</p>
<b>International Congress Activity (Invited)</b>	<p>-1994 Invited Lecturer at Inorganic Chemistry Laboratory, University of Oxford, England;</p> <p>-2006 NATO Headquarters for the “Programme for Security Through Science;</p> <p>-2007 Invited Lecturer at Ben Gurion University of the Negev, Beer-Sheva, Israel;</p> <p>-2007 Invited Lecturer at Bar Ilan University, Ramat Gan, Israel;</p> <p>- 2006, -2007 Invited Lecturer at Weizmann Institute of Science, Israel;</p> <p>- 2009 Invited Lecturer at Kyungju POSTECH, Pohang, Korea and also activity chairman.</p> <p>-2021 Invited ARO Volcani, Acre, Israel.</p> <p>Held more than 80 conferences e seminars at different Italian Universities and other institutions. Member of scientific committee of Congresses and National and International Schools.</p>
<b>Relations with international companies</b>	<p>Dr. Elena Poverenov, Food Quality and Safety Department, ARO, The Volcani Center, Bet-Dagan, 50250, Israel.</p>

## Publication list of Antonino Gulino

159. F. Vento, A. Nicosia, G. Raciti, L. Mezzina, **A. Gulino**, M. Condorelli, L. D'Urso, G. De Guidi, P. Mineo  
Photocatalytic Activity of TiO<sub>2</sub>-Containing Nanocomposites vs the chemical nature of the Polymer Matrices: a comparison.  
*Adv. Mater. Technol.* **2023**, 2300391.  
DOI:10.1002/admt.202300391  
SCOPUS:  
WOS:
158. V. Iacono, M. Scuderi, M. L. Amoruso, **A. Gulino**, F. Ruffino, S. Mirabella  
Pulsed laser ablation production of Ni/NiO nano electrocatalysts for oxygen evolution reaction.  
*App. Phys. Lett. Energy*, **2023**, 1, 016104.  
DOI:10.1063/5.0144600  
SCOPUS:  
WOS:
157. F. Perricelli, M. Boscaglia, M. Cantiano, L. Spitaleri, M. E. Fragalà, and **A. Gulino**  
Chemical and Morphological Modifications Induced by Argon Plasma Treatments on Fluorinated Polybenzoxazole Film.  
*ACS Omega*, **2023**, 8, 15586–15593.  
DOI:10.1021/acsomega.3c00952  
SCOPUS: 2-s2.0-85154032578  
WOS:
156. R. Fiorenza, L. Spitaleri, F. Perricelli, G. Nicotra, S. Scirè, **A. Gulino**  
Efficient Photocatalytic Oxidation of VOCs using ZnO@Au Nanoparticles.  
*J. Photochem. & Photobiol., A: Chemistry*, **2023**, 434, 114232.  
DOI: 10.1016/j.jphotochem.2022.114232  
SCOPUS: 2-s2.0-85136656827  
WOS:000855132900006
155. R. Fiorenza, M. Bellardita, S. A. Balsamo, **A. Gulino**, M. Condorelli, G. Compagnini, S. Scirè, L. Palmisano.  
A solar photothermo-catalytic combined process for the VOCs combustion and the subsequent CO<sub>2</sub> valorisation using noble metal-free catalysts.  
*Catalysis Today*, **2022**, In press.  
DOI: 10.1016/j.cattod.2022.11.010  
SCOPUS: 2-s2.0-85141777495  
WOS:
- 142bis. Scirè, Daniele, Procel, Paul, Gulino, A. Isabella, Olindo, Zeman, Miro, Crupi, Isodiana  
Erratum to: Sub-gap defect density characterization of molybdenum oxide: An annealing study for solar cell applications (*Nano Research*, (2020), 13, 12, (3416-3424), 10.1007/s12274-020-3029-9).  
*Nano Res.*, **2022**, 15, 8, 7752 - 7753  
DOI: 10.1007/s12274-022-4222-9  
SCOPUS: 2-s2.0-85131059809  
WOS: 000803024900001

154. R. Santonocito, N. Tuccitto, V. Cantaro, A. B. Carbonaro, A. Pappalardo, V. Greco, V. Buccilli, P. Maida, G. Maccarrone, **A. Gulino**, A. Giuffrida, G. Trusso Sfrazzetto. Smartphone-Assisted Sensing of Trinitrotoluene by Optical Array. *ACS Omega*, **2022**, *7*, 37122–37132.  
DOI: 10.1021/acsomega.2c02958  
SCOPUS: 2-s2.0-85140329341  
WOS:000875275000001
153. A Scandurra, M. Censabella, **A. Gulino**, M. G. Grimaldi, F. Ruffino. Electro-sorption of hydrogen by platinum palladium and bimetallic Pt-Pd nanoelectrode arrays synthesized by pulsed laser ablation. *Micromachines*. **2022**, *13*, 963.  
DOI: 10.3390/mi13060963  
SCOPUS: 2-s2.0-85132725681  
WOS:000815937700001
152. G. Stella, M. Barcellona, L. Saitta, C. Tosto, G. Cicala, **A. Gulino**, M. Bucolo, M. E. Fragalà. 3D Printing Manufacturing of Polydimethyl-Siloxane/Zinc Oxide Micro-Optofluidic Device for Two-Phase Flows Control. *Polymers*, **2022**, *14*, 2113.  
DOI:10.3390/polym14102113  
SCOPUS: 2-s2.0-85130549375  
WOS:000803513500001
151. E. M. Malannata, L. Spitaleri, **A. Gulino**, S. A. Balsamo, S. Scirè, R. Fiorenza. Removal of phthalates from water by unconventional La-based/WO<sub>3</sub> photocatalysts. *Eur. J. Inorg. Chem.*, **2022**, e202200183  
DOI:10.1002/ejic.202200183  
SCOPUS: 2-s2.0-85132203866  
WOS:000813153100001
150. A. Scandurra, M. Censabella, **A. Gulino**, M. G. Grimaldi, F. Ruffino. Gold nanoelectrode arrays dewetted onto graphene paper for selective and direct electrochemical determination of glyphosate in water samples. *Sensing and Bio-Sensing Research*, **2022**, *36*, 100496.  
DOI: 10.1016/j.sbsr.2022.100496  
SCOPUS: 2-s2.0-85127938804  
WOS:000804805500005
149. R. Fiorenza, M. Bellardita, S. A. Balsamo, L. Spitaleri, **A. Gulino**, M. Condorelli, L. D'Urso, S. Scirè, L. Palmisano. A Solar Photothermocatalytic approach for the CO<sub>2</sub> conversion: Investigation of different synergisms on CoO-CuO/Brookite TiO<sub>2</sub>-CeO<sub>2</sub> catalysts. *Chem. Eng. J.*, **2022**, *428*, 131249.  
DOI: 10.1016/j.cej.2021.131249.  
SCOPUS: 2-s2.0-85110264712  
WOS:000729814800006
147. M. D. Pirnaci, L. Spitaleri, D. Tenaglia, F. Perricelli, M. E. Fragalà, C. Bongiorno, **A. Gulino**. Systematic Characterization of Plasma-Etched Trenches on 4H-SiC Wafers

*ACS Omega*, **2021**, 6, 20667-20675.  
DOI: 10.1021/acsomega.1c02905  
SCOPUS: 2-s2.0-85112529311  
WOS:000685204100052

146. D. Scirè, R. Macaluso, M. Mosca, S. Mirabella, **A. Gulino**, O. Isabella, M. Zeman, I. Crupi  
Characterization of the defect density states in MoOx for c-Si solar cell applications  
*Solid State Electronics*, **2021**, 185, 108135.  
DOI: 10.1016/j.sse.2021.108135  
SCOPUS: 2-s2.0-85108252026  
WOS:
- 136bis C. Han, L. Mazzarella, Y. Zhao, G. Yang, P. Procel, M. Tijssen, A. Montes, L. Spitaleri, **A. Gulino**, X. Zhang, O. Isabella, M. Zeman  
Erratum: High-mobility Hydrogenated Fluorine-doped Indium Oxide Film for Passivating Contacts c-Si Solar Cells. (*ACS Appl. Mater. Interfaces*, **2019**, 11, 45586-45595).  
*ACS Appl. Mater. Interfaces*, **2021**, 13, 12636-12636.  
DOI: 10.1021/acscami.9b14709)  
SCOPUS: 2-s2.0-85103228910  
WOS:000630398500112
145. S. V. Giofrè, M. Tiecco, C. Celesti, S. Patanè, C. Triolo, **A. Gulino**, L. Spitaleri, S. Scalese, M. Scuderi, D. Iannazzo  
Eco-Friendly 1,3-Dipolar Cycloaddition Reactions on Graphene Quantum Dots in Natural Deep Eutectic Solvent.  
*Nanomaterials*, **2020**, 10, 2549.  
DOI: 10.3390/nano10122549  
SCOPUS: 2-s2.0-85098134260  
WOS: 000602543600001
144. N. Tuccitto, L. Spitaleri, G. Li Destri, A. Pappalardo, **A. Gulino**, G. Trusso Sfrazzetto  
Supramolecular Sensing of a Chemical Warfare Agents Simulant by Functionalized Carbon Nanoparticles.  
*Molecules*, **2020**, 25, 5731.  
DOI:10.3390/molecules25235731  
SCOPUS: 2-s2.0-85097514904  
WOS:000597915000001
143. L. Spitaleri, C. M. A. Gangemi, R. Purrello, G. Nicotra, G. Trusso Sfrazzetto, G. Casella, M. Casarin, **A. Gulino**  
Covalently Conjugated Gold–Porphyrin Nanostructures.  
*Nanomaterials*, **2020**, 10, 1644.  
DOI: 10.3390/nano10091644  
SCOPUS:2-s2.0-85090516917  
WOS:000580098300001
142. D. Scirè, P. Procel, **A. Gulino**, O. Isabella, M. Zeman, I. Crupi  
Sub-gap defect density characterization of molybdenum oxide: an annealing study for solar cell applications.  
*Nano Research*, **2020**, 13(12), 3416–3424.  
DOI:10.1007/s12274-020-3029-9  
SCOPUS: 2-s2.0-85090199688

WOS:000565490500004

141. M. Bellardita, R. Fiorenza, L. D'Urso, L. Spitaleri, **A. Gulino**, G. Compagnini, S. Sciré, L. Palmisano.  
Exploring the Photothermo-Catalytic Performance of Brookite TiO<sub>2</sub>-CeO<sub>2</sub> Composites.  
*Catalyst*, **2020**, 10, 765.  
DOI:10.3390/catal10070765  
SCOPUS: 2-s2.0-85087815227  
WOS:000554300500001
140. M. Salmeri, G. Ognibene, L. Saitta, C. Lombardo, C. Genovese, M. Barcellona, A. D'Urso, L. Spitaleri, I. Blanco, G. Cicala, **A. Gulino**, M. E. Fragalà  
Optimization of ZnO nanorods growth on Polyethersulfone electrospun mats to promote antibacterial properties.  
*Molecules*, **2020**, 25, 1696.  
DOI:10.3390/molecules25071696  
SCOPUS: 2-s2.0-85083118254  
WOS:000531833400221
139. R. Fiorenza, A. Di Mauro, **A. Gulino**, L. Spitaleri, V. Privitera, G. Impellizzeri  
Molecularly imprinted N-doped TiO<sub>2</sub> photocatalysts for the selective degradation of o-phenylphenol fungicide from water.  
*Material Science in Semiconductor Process*, **2020**, 112,105019.  
DOI: 10.1016/j.mssp.2020.105019  
SCOPUS:2-s2.0-85079696375  
WOS:000520894200015
138. R. Fiorenza, L. Spitaleri, **A. Gulino**, S. Sciré  
High-Performing Au-Ag bimetallic catalysts supported on macro-mesoporous CeO<sub>2</sub> for preferential oxidation of CO in H<sub>2</sub>-rich gases.  
*Catalysts*, **2020**, 10, 49.  
DOI:10.3390/catal10010049  
SCOPUS: 2-s2.0-85078314703  
WOS:000516825000049
137. R. Fiorenza, A. Di Mauro; M. Cantarella; C. Iaria; E. M. Scalisi; M. V. Brundo; **A. Gulino**, L. Spitaleri; G. Nicotra; S. Dattilo, S. C. Carroccio, V. Privitera; G. Impellizzeri.  
Preferential removal of pesticides from water by molecular imprinting on TiO<sub>2</sub> photocatalysts.  
*Chemical Engineering Journal*, 379, **2020**, 122309.  
DOI:10.1016/j.cej.2019.122309  
SCOPUS: 2-s2.0-85069743673  
WOS:000494799900071
136. C. Han, L. Mazzearella, Y. Zhao, G. Yang, P. Procel, M. Tijssen, A. Montes, L. Spitaleri, **A. Gulino**, X. Zhang, O. Isabella, M. Zeman  
High-mobility Hydrogenated Fluorine-doped Indium Oxide Film for Passivating Contacts c-Si Solar Cells.  
*ACS Appl. Mater. Interfaces*, **2019**, 11, 45586-45595.  
DOI:10.1021/acsami.9b14709.  
SCOPUS:2-s2.0-85075672133  
WOS:000502689000022



135. C. M. A. Gangemi, M. Iudici, L. Spitaleri, R. Randazzo, M. Gaeta, A. D'Urso, **A. Gulino**, R. Purrello, M. E. Fragalà.  
Polyethersulfone mats functionalized with porphyrin for adsorptive removal of p-NA from aqueous solution.  
*Molecules*, **2019**, 24, 3344.  
DOI:10.3390/molecules24183344  
SCOPUS: 2-s2.0-85072283755  
WOS:000488830500136
134. L. Spitaleri, G. Nicotra, M. Zimbone, A. Contino, G. Maccarrone, A. Alberti, **A. Gulino**  
Fast and Efficient Sun Light Photocatalytic activity of Au\_ZnO Core-Shell Nanoparticles Prepared by a One Pot Synthesis.  
*ACS Omega*, **2019**, 4, 15061–15066.  
DOI: 10.1021/acsomega.9b01850  
SCOPUS: 2-s2.0-85072962882  
WOS:000488838700043
133. R. Puglisi, P. G. Mineo, A. Pappalardo, **A. Gulino**, G. Trusso Sfrazzetto  
Supramolecular Detection of a Nerve Agent Simulant by Fluorescent Zn-Salen Oligomer Receptors.  
*Molecules*, **2019**, 24, 2160-2172.  
DOI:10.3390/molecules24112160  
SCOPUS: 2-s2.0-85067226379  
WOS:000472631000133
132. R. Puglisi, A. Pappalardo, **A. Gulino**, G. Trusso Sfrazzetto.  
Multi-Topic Supramolecular Detection of Chemical Warfare Agents by Fluorescent Sensors.  
*ACS Omega*, **2019**, 4, 7550–7555.  
DOI:10.1021/acsomega.9b00502  
SCOPUS: 2-s2.0-85065317024  
WOS: 000466552500158
131. G. Ognibene, C. M. A. Gangemi, L. Spitaleri, **A. Gulino**, G. Cicala, R. Purrello, M. E. Fragalà  
Role of the Surface Composition of the PES-TiiP-H<sub>2</sub>T<sub>4</sub> Fibers on Lead Removal: from Electrostatic to Coordinative Binding.  
*Journal of Materials Science*, **2019**, 54, 8023–8033.  
DOI: 10.1007/s10853-019-03442-7.  
SCOPUS: 2-s2.0-85061998396  
WOS: 000460069500050
130. M. Zimbone, G. Cacciato, M. Boutinguiza, **A. Gulino**, M. Cantarella, V. Privitera, M. G. Grimaldi.  
Hydrogenated black-TiO<sub>x</sub>: a Facile and Scalable Synthesis for Environmental Water Purification.  
*Catalysis Today*, **2019**, 321-322, 146-157.  
DOI: 10.1016/j.cattod.2018.03.040  
SCOPUS: 2-s2.0-85045085255  
WOS:000451030700021

129. I. Pisagatti, G. Gattuso, A. Notti, M. F. Parisi, G. Brancatelli, S. Geremia, F. Greco, S. Millesi, A. Pappalardo, L. Spitaleri, **A. Gulino**.  
Recognition and optical sensing of amines by a quartz-bound 7-chloro-4-quinolylazopillar[5]arene monolayer.  
*RSC Adv.*, **2018**, 8, 33269-33275.  
DOI: 10.1039/c8ra06792a  
SCOPUS: 2-s2.0-85054807282  
WOS: 000448422800032
128. M. Zimbone, G. Cacciato, L. Spitaleri, R. G. Egdell, M. G. Grimaldi, **A. Gulino**,  
Sb-Doped Titanium Oxide: A Rationale for Its Photocatalytic Activity for Environmental Remediation.  
*ACS Omega*, **2018**, 3, 11270-11277.  
DOI: 10.1021/acsomega.8b01452  
SCOPUS: 2-s2.0-85053690098  
WOS: 000446186000090
127. M. Cantarella, A. Di Mauro, **A. Gulino**, L. Spitaleri, V. Privitera, G. Impellizzeri  
Selective photodegradation of paracetamol by molecularly imprinted ZnO nanonuts.  
*Applied Catalysis B: environmental*, **2018**, 238, 509-517.  
DOI: 10.1016/j.apcatb.2018.07.055  
SCOPUS: 2-s2.0-85050409667  
WOS: 000443666000052
126. R. Puglisi, A. Pappalardo, **A. Gulino**, G. Trusso Sfrassetto  
Supramolecular recognition of CWAs simulant by metal-salen complexes: the first multi-topic approach.  
*Chem. Commun.*, **2018**, 54, 11156 – 11159.  
DOI: 10.1039/C8CC06425C  
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One Pot Synthesis of Au\_ ZnO Core-Shell Nanoparticles Using a Zn Complex Acting as ZnO Precursor, Capping and Reducing Agent During the Au NPs Formation.  
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