

# Scientific Curriculum of prof. Antonino Gulino (05-12-2022)

**Antonino Gulino**, PhD

Full Professor of General and Inorganic Chemistry

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

ORCID: 0000-0002-6850-3080.



## Curriculum Vitae

### Personal Informations

Name and Surname

**Antonino Gulino**

Nationality

Italian

Date of Birth

Place of Birth

Fiscal Code

Home Address

### Work Address and Contacts

Department of Chemical Sciences, University of Catania

### Addresses

Phone Numbers

Fax

E-mail

Employer Address

<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 - 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>

<b>Direction of International Research Projects</b>	<p>-NATO Director of the SfP 981964 Science for Peace: Organic Optical and Electronic Sensors: Sniffing out Chemicals.  <a href="https://www.weizmann.ac.il/conferences/nato07/new_pages/contacts.html">https://www.weizmann.ac.il/conferences/nato07/new_pages/contacts.html</a>)</p>
<b>Recent International Scientific Achievements</b>	<p>2019 to date, Editorial Board Member of Nanomaterials (MDPI)  <a href="https://www.mdpi.com/journal/nanomaterials/editors">https://www.mdpi.com/journal/nanomaterials/editors</a>  2020 to date, Editorial Board Member of Inorganics (MDPI)  <a href="https://www.mdpi.com/journal/inorganics/editors">https://www.mdpi.com/journal/inorganics/editors</a>  2021 to date, Editorial Board Member of Catalyst (MDPI)  <a href="https://www.mdpi.com/journal/catalysts/editors">https://www.mdpi.com/journal/catalysts/editors</a>  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.</p>
<b>Recent International Committee for the Evaluation of Research Projects</b>	<ul style="list-style-type: none"> <li>- 2020 Expert Evaluator for the Academy of Sciences of the Czech Republic.</li> <li>- 2020, 2016 International Referee for FWO, Belgium.</li> <li>- 2015 Expert Evaluator for the Academy of Sciences of the Czech Republic.</li> <li>- 2011 International Referee for the Austrian Science Fund (FWF)</li> <li>- 2009 International Referee for the Binational Science Foundation (BSF).</li> <li>- 2008 International Referee for the German - Israeli Foundation (G.I.F).</li> <li>- FIRB, PRIN and VQR Reviewer</li> </ul>
<b>Recent Participation to National and International Committees for Academic Promotions</b>	<ul style="list-style-type: none"> <li>- 2021, UNIPD Representative (Internal Member) for the Selection of an assistant professor position, 03/B1-CHIM/03, University of Padua.</li> <li>- 2021, Selection Committee for an assistant professor position, 03/B1-CHIM/03, University of Messina.</li> <li>- 2020, Selection Committee for an assistant professor position, 03/B1-CHIM/03, University of Padua.</li> <li>-2019, Selection Committee for an assistant professor position, 03/B1-CHIM/03, University of Palermo.</li> <li>-2019, Selection Committee for an associate professor position, 03/B1-CHIM/03, University of Catania.</li> <li>-2019, Selection Committee for an associate professor position, 03/B1-CHIM/03, University of Bologna.</li> <li>-2019, Selection Committee for an associate professor position, 03/B1-CHIM/03, University of Padua.</li> <li>-2018, Selection Committee for an assistant professor position, 03/B1-CHIM/03, University of Catania.</li> <li>-2017, Selection Committee for an associate professor position, 03/B1-CHIM/03, University of Padua.</li> <li>-2017, Selection Committee for a full professor position, 03 / B1 - CHIM / 03, University of Padua.</li> <li>-2009, Evaluator for the academic promotion of scientists at the Weizmann Institute of Science (WIS), Israel.</li> </ul>
<b>Recent Participation to National and International Committees for the PhD final Exams</b>	<ul style="list-style-type: none"> <li>-2021, 2020, 2017, 2016 Committees for the final exam for the PhD in Material Science and Nanotechnology, University of Catania.</li> <li>-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.</li> <li>-2022, 2021, 2020, 2016, Committees for the final PhD exam, Department of Chemistry, University of Delhi, and University of Allahabad, India.</li> </ul>

<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>	1984 MSc in Chemistry (Magna cum laude); 1990 PhD in Chemical Sciences
<b>Actual Teaching activity</b>	<p>-2023 Unpacking Internationalisation: An Introductory Roadmap to Teach Glocally 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 seminaries 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>	Dr. Elena Poverenov, Food Quality and Safety Department, ARO, The Volcani Center, Bet-Dagan, 50250, Israel.

## 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.  
*Advanced Materials Technologies*, **2023**, In press.  
DOI:  
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/acsomega.1c02905  
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. Mazzarella, 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 Sfrassetto  
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 Sfrassetto.  
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  
SCOPUS: 2-s2.0-85054066801  
WOS: 000446095100020
- 125ter. A. Contino, G. Maccarrone, L. Spitaleri, L. Torrisi, G. Nicotra, **A. Gulino**.  
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.  
*Eur. J. Inorg. Chem.* **2018**, 43, 4659.  
COVER PROFILE  
DOI:10.1002/ejic.201801352  
SCOPUS: 2-s2.0-85056329372  
WOS:
- 125bis. A. Contino, G. Maccarrone, L. Spitaleri, L. Torrisi, G. Nicotra, **A. Gulino**.  
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.  
*Eur. J. Inorg. Chem.* **2018**, 43, 4658.  
FRONT COVER  
DOI:10.1002/ejic.201801351  
SCOPUS:  
WOS:
125. A. Contino, G. Maccarrone, L. Spitaleri, L. Torrisi, G. Nicotra, **A. Gulino**.

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.  
*Eur. J. Inorg. Chem.* **2018**, 43, 4678–4683.  
DOI: 10.1002/ejic.201800863  
SCOPUS: 2-s2.0-85054164834  
WOS:000451155000002

124. H. Keisar, G. de Ruiter, A. H. Velders, P. Milko, **A. Gulino**, G. Evmenenko, L. J. W. Shimon, Y. Diskin-Posner, M. Lahav, and M. E. van der Boom  
Sorting of Molecular Building Blocks from Solution to Surface.  
*J. Am. Chem. Soc.* **2018**, 140, 8162-8171. **PAPER and COVER**  
DOI: 10.1021/jacs.8b02968  
SCOPUS: 2-s2.0-85047404176  
WOS: 000438309400021
123. R. Fiorenza, S. Sciré, **A. Gulino**, L. Spitaleri  
Ru-Pd bimetallic catalysts supported on CeO<sub>2</sub>-MnO<sub>x</sub> oxides as efficient systems for H<sub>2</sub> purification through CO preferential oxidation.  
*Catalysts*, **2018**, 8, 203.  
DOI:10.3390/catal8050203  
SCOPUS: 2-s2.0-85030452757  
WOS: 000435191500032
122. A. Contino, G. Maccarrone, M. E. Fragalà, L. Spitaleri, **A. Gulino**  
Conjugated Gold-Porphyrin Monolayers Assembled on Inorganic Surfaces.  
*Chem. Eur. J.* **2017**, 23, 14937 – 14943.  
DOI: 10.1002/chem.201703523  
SCOPUS: 2-s2.0-85030452757  
WOS: 000413337400032
121. S. Wang, Y. Yu, R. Li, G. Feng, Z. Wu, G. Compagnini, **A. Gulino**, Z. Feng, A. Hu.  
High-performance stacked in-plane supercapacitors and supercapacitor array fabricated by femtosecond laser 3D direct writing on flexible polyimide sheets.  
*Electrochimica Acta*, **2017**, 241, 153–161.  
DOI: 10.1016/j.electacta.2017.04.138  
SCOPUS: 2-s2.0-85018346820  
WOS:000403026700015
120. S. Millesi, M. R. Catalano, G. Impellizzeri, I. Crupi, G. Malandrino, F. Priolo, **A. Gulino**  
Sb-Implanted p-Type ZnO Ultra-Thin Films.  
*Materials Science in Semiconductor Processing*, **2017**, 69, 32-35.  
DOI: 10.1016/j.mssp.2016.12.025  
SCOPUS: 2-s2.0-85009471603  
WOS:000407601600008
119. P. Mineo, A. Abbadessa, A. Mazzaglia, **A. Gulino**, V. Villari, N. Micali, S. Millesi, C. Satriano and E. Scamporrino.  
Gold nanoparticles functionalized with PEGylate uncharged porphyrins.  
*Dyes and Pigments*, **2017**, 141, 225-234.  
DOI:10.1016/j.dyepig.2017.02.018  
SCOPUS: 2-s2.0-85013752135

WOS: 000399852700027

118. A. Di Mauro, M. Cantarella, G. Nicotra, G. Pellegrino, **A. Gulino**, M. V. Brundo, V. Privitera and G. Impellizzeri  
Novel synthesis of ZnO/PMMA composites for photocatalytic applications.  
*Scientific Reports*, **2017**, 7:40895, 1-13.  
DOI:10.1038/srep40895  
SCOPUS: 2-s2.0-85010031133  
WOS:000392189600001
117. A. K. Srivastava, A. K. Singh, N. Kumari, **A. Gulino**, A. Speghini, R. Nagarajan, L. Mishra  
Pyridyl substituted 4-(1,3-Dioxo-1H,3H-benzo[de]isoquinolin-2-ylmethyl)-benzamides with aggregation enhanced emission and multi-stimuli-responsive properties.  
*J. Lumin.* **2017**, 182, 274-282.  
DOI: 10.1016/j.jlumin.2016.10.042  
SCOPUS: 2-s2.0-84995494149  
WOS:000390510300041
116. G. Trusso Sfrassetto, S. Millesi, A. Pappalardo, G. Tomaselli, F. Ballistreri, M. R. Toscano, I. Fragalà and **A. Gulino**.  
Nerve Gas Simulant Sensing by an Uranyl-Salen Monolayer Covalently Anchored on Quartz Substrates.  
*Chem. Eur. J.* **2017**, 23, 1576-1583.  
DOI: 10.1002/chem.201602292  
SCOPUS: 2-s2.0-85011421265  
WOS:000395754200017
- 115b. M. Schilirò, A. Contino, S. Millesi, G. Maccarrone and **A. Gulino**  
Communication between Discrete Nanostructures Triggered by a Fine Tuning of an External Stimulus.  
*Chem. Eur. J.* **2016**, 22, **COVER PICTURE**,  
DOI: 10.1002/chem.201603015  
SCOPUS: 2-s2.0-84985032722  
WOS:
- 115a. M. Schilirò, A. Contino, S. Millesi, G. Maccarrone and **A. Gulino**  
Communication between Discrete Nanostructures Triggered by a Fine Tuning of an External Stimulus. **HOT PAPER**  
*Chem. Eur. J.* **2016**, 22, 13083 – 13088.  
DOI: 10.1002/chem.201602262.  
SCOPUS: 2-s2.0-84979632796  
WOS: 000383763200021
114. M. Schilirò, A. Contino, S. Millesi, G. Maccarrone and **A. Gulino**  
Communication between Discrete Nanostructures Triggered by Fine Tuning of an External Stimulus.  
*Chem. Eur. J.* **2016**, 22, 12949. **COVER PROFILE**  
DOI: 10.1002/chem.201603014.  
SCOPUS: 2-s2.0-84979747867  
WOS:
113. M. Zimbone, G. Cacciato, R. Sanz, R. Carles, **A. Gulino**, V. Privitera, M. G. Grimaldi

Black TiO<sub>x</sub> photocatalyst obtained by laser irradiation in water.  
*Catal. Commun.*, **2016**, 84, 11–15.  
DOI.org/10.1016/j.catcom.2016.05.024  
SCOPUS: 2-s2.0-84979295311  
WOS: 000381534300003

112. S. Scirè, R. Fiorenza, **A. Gulino**, A. Cristaldi, P. M. Riccobene  
Selective oxidation of CO in H<sub>2</sub>-rich stream over ZSM5 zeolites supported Ru catalysts: an investigation on the role of the support and the Ru particle size  
*Applied Catalysis A: General* **2016**, 520, 82–91.  
doi.org/10.1016/j.apcata.2016.04.011  
SCOPUS: 2-s2.0-84964354519  
WOS:000378369400010
111. **A. Gulino**  
Reply to the ‘Comment on “A photoelectron spectroscopy study of lava stones” by M. Zappia and A. Nicoletti, *Anal. Methods*, 2016, 8, DOI: 10.1039/c3ay41326h.  
*Analytical. Methods*, , **2016**, 8, 3849.  
DOI: 10.1039/C4AY01109K  
SCOPUS: 2-s2.0-84973596270  
WOS:000375577600025
110. S. Millesi, M. Schilirò, F. Greco, I. Crupi, G. Impellizzeri, F. Priolo, R.G. Egdell, **A. Gulino**  
Nanostructured CdO Thin Films for Water Treatments.  
*Materials Science in Semiconductor Processing*, **2016**, 42, 85-88.  
DOI: 10.1016/j.mssp.2015.08.005  
SCOPUS: 2-s2.0-84939825165  
WOS: 000367638100017
109. D. A. Cristaldi, S. Millesi, P. Mineo and **A. Gulino**  
A Chemical Address for the Morse Code  
*J. Lumin.*, **2016**, 169, 348–352.  
DOI: 10.1016/j.jlumin.2015.10.004  
SCOPUS:2-s2.0-84944755317  
WOS: 000365604700053
108. S. Millesi, R. Lo Nigro, M. Pedroni, A. Speghini, **A. Gulino**  
Photoexcited Porphyrins Functionalizing TiO<sub>2</sub> and SnO<sub>2</sub> Nanocrystals.  
*J. Phys. Chem. C*, **2015**, 119, 23743–23751.  
DOI: 10.1021/acs.jpcc.5b06574  
SCOPUS:2-s2.0-84944407020  
WOS: 000363068400051
107. A. Kumar, M. Chhatwal, D. A. Cristaldi, S. K. Awasthi, R. D. Gupta, **A. Gulino**  
Chromogenic Homo-Dinuclear Ruthenium(II) Monolayer as a Tunable Molecular Memory Module for Multibit Information Storage.  
*J Phys. Chem. C*, **2015**, 119, 5138-5145.  
DOI: 10.1021/jp5124629  
SCOPUS:2-s2.0-84924148372  
WOS: 000350840700079

106. E. Khaskin, T. Fadida, Y. Kroupitsky, M. Shemesh, D. A. Cristaldi, **A. Gulino**, E. Poverenov  
A contact active bactericidal stainless steel via a sustainable process utilizing electrodeposition and covalent attachment in water.  
*Green Chemistry*, **2015**, 17, 2344-2347.  
DOI: 10.1039/C4GC02326A  
SCOPUS: 2-s2.0-84928011785  
WOS: 000352724200036
- 105 S. Millesi, G. Maccarrone, **A. Gulino**  
Solid nanoarchitecture – Cu(II) solution: dynamics of the chemical communication.  
*PhysChemChemPhys.*, **2015**, 17, 6612 – 6617.  
DOI:10.1039/C5CP00169B  
SCOPUS: 2-s2.0-84923239514  
WOS: 000351435300051
104. F. Pappalardo, D. A. Cristaldi, I. L. Fragalà, S. Millesi, M. De Bonis, **A. Gulino**  
Spectroscopic and Morphological Characterization of Inflow Cannulas of Left Ventricular Assist Devices.  
*ASAIO Journal* (American Society for Artificial Internal Organs: 1992), **2015**, 61(2), 150-155.  
DOI:10.1097/MAT.0000000000000169  
SCOPUS: 2-s2.0-84912000686  
WOS: 000352853600007  
PubMed ID:25396275  
NLM Unique ID:9204109
103. K. Barbera, P. Lanzafame, A. Pistone, S. Millesi, G. Malandrino, **A. Gulino**, S. Perathoner, G. Centi  
The role of oxide location in HMF etherification with ethanol over sulfated ZrO<sub>2</sub> supported on SBA-15.  
*Journal of Catalysis*, **2015**, 323, 19–32  
DOI: 10.1016/j.jcat.2014.12.001  
SCOPUS: 2-s2.0-84921681204  
WOS:000350777600003
- 102 G. Trusso Sfrassetto, S. Millesi, A. Pappalardo, R. M. Toscano, F. P. Ballistreri, G. A. Tomaselli, **A. Gulino**  
Olefin Epoxidation by a (salen)Mn(III) Oxene Catalyst Covalently Grafted on Glass Beads.  
*Catal. Sci. Technol.*, **2015**, 5, 673–679.  
DOI: 10.1039/C4CY00831F  
SCOPUS: 2-s2.0-84927802901  
WOS:000348937900006
101. D. A. Cristaldi, S. Millesi, I. Crupi, G. Impellizzeri, F. Priolo, R. M. J. Jacobs, R. G. Egdell and **A. Gulino**  
Structural, electronic, and electrical properties of an Undoped n-Type CdO thin film with high electron concentration.  
*J Phys. Chem. C*, **2014**, 118(27), 15019-15026.  
DOI:10.1021/jp5040085  
SCOPUS: 2-s2.0-84904336357

WOS:000338980400036

100. S. Millesi, **A. Gulino**  
Optical properties of porphyrin–Eu- $\beta$ -diketonate supramolecular nanostructures.  
*J. Mater. Chem. C* **2014**, 2 (29), 5924 – 5930.  
DOI:10.1039/c4tc00439f  
SCOPUS:2-s2.0-84903973577  
WOS:000339396700025
99. M. Morozov, L. Motiei, J. Choudhury, **A. Gulino**, M. Lahav, M. E. van der Boom  
Interfacial Mass Transfer by Controlled Multilayer Disassembly.  
*Chem. Commun.* **2014**, 50(60), 8154-8156.  
DOI:10.1039/c4cc00495g  
SCOPUS:2-s2.0-84903698880  
WOS:000339172000015
98. R. Kaminker, M. Lahav, M. Altman, G. Evmenenko, P. Dutta, **A. Gulino**, M. E. van der Boom  
Surface-Confined Core-Shell Structures based on Gold Nanoparticles and Metal-Organic Networks.  
*Chem. Commun.* **2014**, 50, 4635-4638.  
DOI:10.1039/C3CC47865C  
WOS:000334599800028  
SCOPUS:2-s2.0-84898729842
97. A. Kumar, M. Chhatwal, P. C. Mondal, V. Singh, D. A. Cristaldi, R. D. Gupta, **A. Gulino**  
Ternary Memory Module Using Low-Voltage Control over Optical Properties of Metal-Polypyridyl Monolayers.  
*Chem. Commun.* **2014**, 50 (29), 3783-3785.  
DOI:10.1039/C4CC00388H  
WOS:000333037000002  
SCOPUS:2-s2.0-84896278667
96. T. Gupta, **A. Gulino**, L. Mishra, P. K. Yadav, A. Kumar, A. K Singh, N. K Singh  
Azobenzamide-based proteomorphous objects as a light/pH-induced photoswitchable module.  
*RSC Advances*, **2014**, 4, 7174-7177.  
DOI: 10.1039/C3RA43576H  
SCOPUS: 2-s2.0-84892645404  
WOS:000329992200044
95. **A. Gulino**, F. Lupo, D. A. Cristaldi, S. Pappalardo, C. Capici, G. Gattuso, A. Notti, M. F. Parisi  
A Viable Route for Lithium ion detection.  
*Eur. J. Inorg. Chem.* **2014**, 2014(3), 414. COVER PROFILE  
DOI:10.1002/ejic.201301613  
SCOPUS  
WOS
94. **A. Gulino**, F. Lupo, D. A. Cristaldi, S. Pappalardo, C. Capici, G. Gattuso, A. Notti, M. F. Parisi  
A Viable Route for Lithium ion detection.

- Eur. J. Inorg. Chem.* **2014**, 414, 442–449.  
DOI: 10.1002/ejic.201301213  
SCOPUS: 2-s2.0-84892949144  
WOS:000329999400004
- 93 R. Kaminker, X. R. von Hatten, M. Lahav, F. Lupo, **A. Gulino**, G. Evmenenko, P. Dutta, C. Browne, J. R. Nitschke, M. E. van der Boom  
Assembly of Surface-Confined Homochiral Helicates: Chiral Discrimination of DOPA and Unidirectional Charge Transfer.  
*J. Am. Chem. Soc.* **2013**, 135, 17052–17059.  
DOI: 10.1021/ja4077205  
SCOPUS: 2-s2.0-84887730770  
WOS:000327103600047
92. G. de Ruiter, M. Lahav, G. Evmenenko, P. Dutta, D. A. Cristaldi, **A. Gulino**, M. E. van der Boom  
Composite Molecular Assemblies: Nanoscale Structural Control and Spectroelectrochemical Diversity.  
*J. Am. Chem. Soc.* **2013**, 135, 16533-16544.  
DOI: 10.1021/ja407659z  
SCOPUS: 2-s2.0-84887660311  
WOS:000326774300052
91. E. Poverenov, M. Shemesh, **A. Gulino**, D. A. Cristaldi, V. Zakin, T Yefremov, R. Granit  
Durable Contact Active Antimicrobial Materials Formed by a One-Step Covalent Modification of Polyvinyl Alcohol, Cellulose and Glass Surfaces.  
*Colloids-and-Surfaces-B-Biointerfaces*, **2013**, 112, 356-361.  
DOI: 10.1016/j.colsurfb.2013.07.032  
SCOPUS:2-s2.0-84883674811  
WOS:000328593100050
90. D. A. Cristaldi, S. Millesi, P. Mineo, **A. Gulino**  
Europium Complex Covalently Grafted on Si(100) Surfaces, Engineered with Covalent Polystyrene Nanostructures.  
*J. Phys. Chem. C*, **2013**, 117, 16213-16220.  
DOI:10.1021/jp403070y  
SCOPUS:2-s2.0-84881460762  
WOS:000323082300042
89. M. R. Catalano, R. G. Toro, **A. Gulino**, G. Malandrino  
Perovskite LaCO<sub>3</sub> thin films on single crystal substrates: MOCVD growth and characterization.  
*Surf. Coat. Technol.* **2013**, 230, 174-179.  
DOI:10.1016/j.surfcoat.2013.06.068  
SCOPUS: 2-s2.0-84881315386  
WOS:000323855700027
88. D. A. Cristaldi, A. Motta, S. Millesi, T. Gupta, M. Chhatwalb, **A. Gulino**  
Long Range Order in Si(100) Surfaces Engineered with Porphyrin Nanostructures  
*J. Mater. Chem. C*. **2013**, 1, 4979-4984.  
DOI:10.1039/C3TC30628C.  
SCOPUS: 2-s2.0-84883243594



87. **A. Gulino**, I. L. Fragalà, F. Lupo, G. Malandrino, A. Motta, A. Colombo, C. Dragonetti, S. Righetto, D. Roberto, R. Ugo, F. Demartin, I. Ledoux-Rak, A. Singh  
Fascinating Role of the Number of f Electrons in Dipolar and Octupolar Contributions to Quadratic Hyperpolarizability of trinuclear lanthanides-biscopper Schiff base complexes.  
*Inorg. Chem.* **2013**, *52*, 7550-7556.  
DOI:10.1021/IC400558B  
SCOPUS:2-s2.0-84879749623  
WOS:000321471800030
86. D. A. Cristaldi, C. G. Fortuna, **A. Gulino**  
A Photoelectron Spectroscopy Study of Lava Stones  
*Analytical. Methods*, **2013**, *5*, 3458-3462.  
DOI:10.1039/C3AY40136G  
SCOPUS:2-s2.0-84879751640  
WOS:000321011900004
85. D. A. Cristaldi, **A. Gulino**  
Functionalization of SnO<sub>2</sub> Crystals with a Covalently Assembled Porphyrin Monolayer.  
*ChemSusChem*, **2013**, *6*, 1031-1036.  
DOI: 10.1002/cssc.201300149.  
SCOPUS:2-s2.0-84878619319  
WOS:000319828000013
84. P. G. Mineo, D. A. Cristaldi, A. Motta, T. Gupta, **A. Gulino**  
Covalent Poly(methyl methacrylate) Nanostructures on Functionalized Si(100) Surfaces.  
*RSC Adv.*, **2013**, *3*, 1137-1144.  
DOI:10.1039/C2RA22327A  
SCOPUS: 2-s2.0-84871801440  
WOS:000312390000025
83. **A. Gulino**  
Structural and Electronic Characterization of Self-Assembled Molecular Nanoarchitectures by X-ray Photoelectron Spectroscopy.  
*Anal. Bioanal. Chem.* **2013**, *405*, 1479-1495.  
DOI:10.1007/s00216-012-6394-8  
SCOPUS: 2-s2.0-84873737874  
WOS:000313960000005
82. V. La Paglia Fragola, F. Lupo, A. Pappalardo, G. Trusso Sfrassetto, R. M. Toscano, F.P. Ballistreri, G. A. Tomaselli, **A. Gulino**  
Surface-Confined O=Mn<sup>V</sup>(salen) Oxene Catalyst and Huge Turnover Values in Asymmetric Epoxidation of Unfunctionalized Olefins.  
*J. Mater. Chem.* **2012**, *22*, 20561-20565  
DOI:10.1039/c2jm34847k  
SCOPUS: 2-s2.0-84869494478  
WOS:000308658600066
81. A. Cristaldi, G. Impellizzeri, F. Priolo, T. Gupta, **A. Gulino**  
Structural, Electronic and Electrical Properties of Y-Doped Cd<sub>2</sub>SnO<sub>4</sub>.  
*J. Phys. Chem. C.* **2012**, *116*, 3363-3368.

DOI:10.1021/jp2103676  
SCOPUS: 2-s2.0-84856883186  
WOS:000299985300023

80. D. A. Cristaldi, I. Fragalà, A. Pappalardo, R. M. Toscano, F. P. Ballistreri, G. A. Tomaselli, **A. Gulino**  
Sensing of Linear Alkylammonium Ions by a 5-Pyrenoylamido-Calix[5]arene Solution and Monolayer Using Luminescence Measurements.  
*J. Mater. Chem.* **2012**, *22*, 675-683.  
DOI:10.1039/c1jm13475b  
SCOPUS: 2-s2.0-83455235141  
WOS:000299020000055
79. P. Mineo, F. Lupo, I. Fragalà, E. Scamporrino, **A. Gulino**  
Properties of Uncharged water-soluble tetra( $\omega$ -methoxypolyethyleneoxy)phthalocyanine Free Base: Viable Switching of the Optical Response by means of  $H_3O^+$  Ions.  
*J. Lumin.*, **2012**, *132*, 409-413.  
DOI:10.1016/j.jlumin.2011.08.048  
SCOPUS: 2-s2.0-80053354366  
WOS:000298269600029
78. V. Singh, M. Zharnikov, **A. Gulino** and T. Gupta  
DNA Immobilization, Delivery and Cleavage on Solid Supports  
*J. Mater. Chem.*, **2011**, *21*, 10602-10618.  
DOI:10.1039/c0jm04359a  
SCOPUS: 2-s2.0-79960380137  
WOS:000292978600003
77. P. Mineo, A. Motta, F. Lupo, L. Renna, **A. Gulino**  
Si(111) Surface Engineered with Ordered Nanostructures by an Atom Transfer Radical Polymerization.  
*J. Phys. Chem. C*, **2011**, *115*, 12293-12298.  
DOI:10.1021/jp202056y  
SCOPUS: 2-s2.0-79959505913  
WOS:000291896000008
76. Y. Tidhar, H. Weissman, S. G. Wolf, **A. Gulino**, B. Rybtchinski  
Pathway-Dependent Self-Assembly of Perylene Diimide/Peptide Conjugates in Aqueous Medium.  
*Chemistry Eur. J.*, **2011**, *17*, 6068-6075.  
DOI:10.1002/chem.201003419  
SCOPUS: 2-s2.0-79956132788  
WOS:000291798700009
75. L. Motiei, M. Lahav, **A. Gulino**, M. A. Iron, M. E. van der Boom  
Electrochemical Characteristics of a Self-Propagating Molecular-Based Assembly  
*J. Phys. Chem. B*, **2010**, *114*, 14283-14286.  
DOI:10.1021/jp910898f  
SCOPUS: 2-s2.0-77955835718  
WOS:000284018000020

74. R. Kaminker, L. Motiei, **A. Gulino**, I. Fragalà, L. J. W. Shimon, G. Evmenenko, P. Dutta, M. A. Iron, M. E. van der Boom  
Stepwise Assembly of Coordination-based Metal-Organic Networks  
*J. Am. Chem. Soc.*, **2010**, 132, 14554-14561.  
DOI:10.1021/ja105518n  
SCOPUS: 2-s2.0-77958027974  
WOS:000283276800050
73. G. G. Condorelli, C. Tudisco, A. Motta, A. Di Mauro, F. Lupo, **A. Gulino**, I. L. Fragalà.  
Multistep Anchoring Route of Luminescent (5-Amino-1,10-phenanthroline) tris(dibenzoylmethane) europium(III) on Si(100).  
*Eur. J. Inorg. Chem.*, **2010**, 4121-4129.  
DOI:10.1002/ejic.201000272  
SCOPUS: 2-s2.0-77956603925  
WOS:000282913300008
72. F. Lupo, M. E. Fragalà, T. Gupta, A. Mamo, A. Aureliano, M. Bettinelli, A. Speghini, **A. Gulino**  
Luminescence of a Ruthenium Complex Monolayer, Covalently Assembled on Silica Substrates, upon CO Exposure.  
*J. Phys. Chem. C* **2010**, 114, 13459-13464.  
DOI:10.1021/jp1028917  
SCOPUS: 2-s2.0-77956151381  
WOS:000280727500008
71. F. Lupo, S. Gentile, F. P. Ballistreri, G. A. Tomaselli, M. E. Fragalà, **A. Gulino**  
Viable Route for Switching of an Engineered Silica Surface using Cu<sup>2+</sup> Ions at sub-ppm Levels.  
*Analyst*, **2010**, 135, 2273-2279.  
DOI:10.1039/c0an00364f  
SCOPUS: 2-s2.0-77955811472  
WOS:000281007300010
70. J. Choudhury, R. Kaminker, L. Motiei, G. de Ruiter, M. Morozov F. Lupo, **A. Gulino**, M. E. van der Boom  
Linear vs Exponential Formation of Molecular-based Assemblies.  
*J. Am. Chem. Soc.*, **2010**, 132, 9295-9297.  
DOI:10.1021/ja104203v  
SCOPUS: 2-s2.0-77955782897  
WOS:000279745700026
69. F. Lupo, C. Capici, G. Gattuso, A. Notti, M. F. Parisi, A. Pappalardo, S. Pappalardo, **A. Gulino**  
Optical recognition of n-butylammonium and 1,5-pentanediammonium picrates by a calix[5]arene monolayer covalently assembled on silica substrates.  
*Chem. Mater.*, **2010**, 22, 2829-2834.  
DOI:10.1021/cm9038208  
SCOPUS: 2-s2.0-77951972952  
WOS:000277194600019
68. P. G. Mineo, L. Livoti, M. Giannetto, **A. Gulino**, S. Lo Schiavo, P. Cardiano

- Very fast CO<sub>2</sub> response and hydrophobic properties of novel poly(ionic liquid)s.  
*J. Mater. Chem.* **2009**, *19*, 8861-8870.  
DOI:10.1039/b912379b  
SCOPUS: 2-s2.0-70450169064  
WOS:000271907800022
67. F. Lupo, R. Kamalakaran, **A. Gulino**  
Viable Route for Cobalt Oxide-Carbon Nanocomposites.  
*J. Phys. Chem. C*, **2009**, *113*, 15533-15537.  
DOI:10.1021/jp902857g  
SCOPUS: 2-s2.0-70349094417  
WOS:000269252500010
66. **A. Gulino**, F. Lupo, M. E. Fragalà, S. Lo Schiavo  
X-ray Photoelectron Spectroscopy: A Powerful Tool For Electronic And Structural Investigations Of Covalently Assembled Molecular Monolayers. A Representative Case Study.  
*J. Phys. Chem. C*, **2009**, *113*, 13558-13564.  
DOI:10.1021/jp9027436  
SCOPUS: 2-s2.0-68749084841  
WOS:000268478700017
65. **A. Gulino**, F. Lupo, G. G. Condorelli, A. Motta, I. Fragalà  
Tunable Luminescent Properties of an Europium Complex Monolayer.  
*J. Mater. Chem.*, **2009**, *19*, 3507-3511.  
DOI:10.1039/b901552c  
SCOPUS: 2-s2.0-65949100827  
WOS:000266269300024
64. **A. Gulino**, F. Lupo, G. G. Condorelli, M. E. Amato, M. E. Fragalà, G. Scarlata  
Reversible Photoswitching of Stimuli Responsive Si(100) Surfaces Engineered with an Assembled 1-Cyano-1-Phenyl-2-(4'-(10-Undecenyloxy)Phenyl)-Ethylene Monolayer.  
*J. Mater. Chem.*, **2008**, *18*, 5011-5018.  
DOI:10.1039/b809037h  
SCOPUS: 2-s2.0-54049125845  
WOS:000260024100015
63. **A. Gulino**, F. Lupo and M. E. Fragalà  
Substrate Free Self-Standing ZnO Thin films.  
*J. Phys. Chem. C*, **2008**, *112*, 13869-13872.  
DOI:10.1021/jp8039466  
SCOPUS: 2-s2.0-52649161326  
WOS:000258980200011
62. L. Motiei, M. Altman, T. Gupta, F. Lupo, **A. Gulino**, G. Evmenenko, P. Dutta, M. E. van der Boom  
Self-Propagating assembly of a molecular-based multilayer.  
*J. Am. Chem. Soc.* **2008**, *130*, 8913-8915.  
DOI:10.1021/ja802470g  
SCOPUS: 2-s2.0-47349119412  
WOS:000257507400020

61. **A. Gulino**, T. Gupta, M. Altman, S. Lo Schiavo, P. G. Mineo, I. L. Fragalà, G. Evmenenko, P. Dutta, M. E. van der Boom  
 Selective Monitoring of Parts per Million Levels of CO by Covalently Immobilized Metal Complexes on Glass.  
*Chem. Commun.* **2008**, 2900-2902.  
 DOI:10.1039/b802670j  
 SCOPUS: 2-s2.0-45549108311  
 WOS:000256924500017
60. **A. Gulino**, P. Mineo, I. Fragalà,  
 NO<sub>2</sub> Sensing Ability of a Monolayer of Cobalt(II) Porphyrin Molecules Covalently Assembled on a Engineered Silica Substrate.  
*Inorg. Chim. Acta*, **2008**, 361, 3877-3881.  
 DOI:10.1016/j.ica.2008.02.055  
 SCOPUS: 2-s2.0-49549084169  
 WOS:000258664800018
59. **A. Gulino**, T. Gupta, Placido G. Mineo, Milko E. van der Boom  
 Selective NO<sub>x</sub> optical sensing with surface-confined osmium polypyridyl complexes.  
*Chem. Commun.*, **2007**, 4878-4880.  
 DOI:10.1039/b711400a  
 SCOPUS: 2-s2.0-37549033139  
 WOS:000251678300012
58. **A. Gulino**, F. Lupo, G. G. Condorelli, P. Mineo, I. Fragalà  
 Viable Synthetic Route For A Luminescent Porphyrin Monolayer Covalently Assembled On a Molecularly Engineered Si(100) Surface.  
*Chem. Mater.*, **2007**, 19, 5102-5109.  
 DOI:10.1021/cm071450u  
 SCOPUS: 2-s2.0-35548982951  
 WOS:000250009800011
57. **A. Gulino**, I. Fragalà, E. Scamporrino, D. Vitalini  
 Similarities and Differences among Monolayers of a Free Base Porphyrin and its Copper Complex: Synthesis and Characterization of a Luminescent Copper (II) Porphyrin Monolayer.  
*J. Phys. Chem. C*, **2007**, *111*, 14125-14130.  
 DOI:10.1021/jp073107i  
 SCOPUS: 2-s2.0-35148826507  
 WOS:000249655500016
56. **A. Gulino**, P. Mineo, I. Fragalà  
 Spectroscopic and Morphological Investigation of an Optical pH Meter Based on a Porphyrin Monolayer Covalently Assembled on a Engineered Silica Surface.  
*J. Phys. Chem. C*, **2007**, *111*, 1373-1377.  
 DOI:10.1021/jp066523w  
 SCOPUS: 2-s2.0-33847352858  
 WOS:000245005400049
55. **A. Gulino**, S. Giuffrida, P. Mineo, M. Purrazzo, E. Scamporrino, G. Ventimiglia, M.E. van der Boom, Ignazio Fragalà

Photoluminescence of a Covalent Assembled Porphyrin-Based Monolayer: Optical Behavior in the Presence of O<sub>2</sub>.

*J. Phys. Chem. B*, **2006**, *110*, 16781-16786.

DOI:10.1021/jp062967g

SCOPUS: 2-s2.0-33748527185

WOS:000239818000087

54. **A. Gulino**, P. Mineo, E. Scamporrino, D. Vitalini, I. Fragalà  
Spectroscopic and Microscopic Characterization and Behavior of an Optical pH Meter based on a Functional Hybrid Monolayer Molecular System: Porphyrin Molecules Covalently Assembled on a Molecularly Engineered Silica Surface.  
*Chem. Mater.*, **2006**, *18*, 2404-2410.  
DOI:10.1021/cm060086g  
SCOPUS: 2-s2.0-33744922379  
WOS:000237389700028
53. **A. Gulino**, I. Fragalà  
Cobalt hexafluoroacetylacetonate polyether adducts for thin films of cobalt oxides.  
*Inorg. Chim. Acta*, **2005**, *358*, 4466-4472.  
DOI:10.1016/j.ica.2005.07.031  
SCOPUS: 2-s2.0-28544449902  
WOS:000234041600008
52. **A. Gulino**, G. G. Condorelli, P. Mineo, I. Fragalà  
An x-ray photoelectron spectra and atomic force microscopy characterization of silica substrates engineered with a covalently assembled siloxane monolayer.  
*Nanotechnology*, **2005**, *16*, 2170-2175.  
DOI:10.1088/0957-4484/16/10/033  
SCOPUS: 2-s2.0-25444498015  
WOS:000232906200034
51. **A. Gulino**, G. P. Mineo, S. Bazzano, D. Vitalini, I. Fragalà  
Optical pH Meter by means of a Porphyrin Monolayer Covalently Assembled on a Molecularly Engineered Silica Surface.  
*Chem. Mater.*, **2005**, *17*, 4043-4045.  
DOI:10.1021/cm051118n  
SCOPUS: 2-s2.0-23844539688  
WOS:000231043200004
50. **A. Gulino**, G. Tabbi  
CdO thin films. A study of their electronic structure by electron spin resonance spectroscopy.  
*Appl. Surf. Sci.*, **2005**, *245/1-4*, 322-327.  
DOI:10.1016/j.apsusc.2004.10.026  
SCOPUS: 2-s2.0-17044390205  
WOS:000228904900043
49. **A. Gulino**, S. Bazzano, G. G. Condorelli, S. Giuffrida, P. Mineo, C. Satriano, E. Scamporrino, G. Ventimiglia, D. Vitalini, I. Fragalà  
Engineered Silica Surfaces with an Assembled C60 Fullerene Monolayer.  
*Chem. Mater*, **2005**, *17*, 1079-1084.  
DOI:10.1021/cm048861k

SCOPUS: 2-s2.0-20044387030  
WOS:000227421300024

48. **A. Gulino**, S. Bazzano, P. Mineo, E. Scamporrino, D. Vitalini, I. Fragalà  
Characterization, Optical Recognition Behavior, Sensitivity and Selectivity of Silica  
Surfaces Functionalized with a Porphyrin Monolayer.  
*Chem. Mater.*, **2005**, *17*, 521-526.  
DOI:10.1021/cm048130k  
SCOPUS: 2-s2.0-13444265959  
WOS:000226804000009
47. **A. Gulino**, P. Dapporto, P. Rossi, G. Anastasi, I. Fragalà  
Viable Route for the Synthesis of the Anhydrous Co(hfac)<sub>2</sub> Adduct with Monoglyme: a  
Useful Precursor for Thin Films of CoO.  
*J. Mater. Chem.*, **2004**, *14*, 2549-2553.  
DOI:10.1039/b404307c  
SCOPUS: 2-s2.0-4944264267  
WOS:000223273100012
46. **A. Gulino**, P. Mineo, E. Scamporrino, D. Vitalini I. Fragalà  
Molecularly Engineered Silica Surfaces with An Assembled Porphyrin Monolayer as  
Optical NO<sub>2</sub> Molecular Recognizers.  
*Chem. Mater.*, **2004**, *16*, 1838-1840.  
DOI:10.1021/cm049902f  
SCOPUS: 2-s2.0-2442650312  
WOS:000221386500004
45. **A. Gulino**, P. Dapporto, P. Rossi and I. Fragalà  
A Novel Self-Generating Liquid MOCVD Precursor for Co<sub>3</sub>O<sub>4</sub> Thin Films.  
*Chem. Mater.*, **2003**, *15*, 3748-3752  
DOI:10.1021/cm034305z  
SCOPUS: 2-s2.0-0141927098  
WOS:000185747100005
44. **A. Gulino**, G. Compagnini, A. A. Scalisi  
Large Third-Order Nonlinear Optical Properties of Cadmium Oxide Thin Films.  
*Chem. Mater.*, **2003**, *15*, 3332-3336.  
DOI:10.1021/cm031075f  
SCOPUS: 2-s2.0-0041421072  
WOS:000184838300018
43. **A. Gulino**, G. Fiorito and I. Fragalà  
Deposition of Thin Films of Cobalt oxides by MOCVD.  
*J. Mater. Chem.*, **2003**, *13*, 861-865.  
DOI:10.1039/b211861k  
SCOPUS:2-s2.0-0037386719  
WOS:000181670900044
42. **A. Gulino**, P. Dapporto, P. Rossi and I. Fragalà  
Synthesis and Characterization of Liquid MOCVD Precursors for Thin Films of  
Cadmium Oxide.  
*Chem. Mater.*, **2002**, *14*, 4955-4962.

DOI:10.1021/cm021183m  
SCOPUS:2-s2.0-0036916603  
WOS:000180016600011

41. **A. Gulino**, P. Dapporto, P. Rossi and I. Fragalà  
A Liquid MOCVD Precursor for Thin Films of CdO.  
*Chem. Mater.*, **2002**, *14*, 1441-1444  
DOI:10.1021/cm0112946  
SCOPUS: 2-s2.0-0036123934  
WOS:000175028700001
40. **A. Gulino**, F. Castelli, P. Dapporto, P. Rossi and I. Fragalà  
Synthesis and Characterization of Thin Films of Cadmium Oxide.  
*Chem. Mater.*, **2002**, *14*, 704-709.  
DOI:10.1021/cm011175q  
SCOPUS: 2-s2.0-0036197511  
WOS:000173998500037
39. **A. Gulino**, I. Fragalà  
Deposition and Characterization of Transparent Thin Films of Zinc Oxide Doped with Bi and Sb.  
*Chem. Mater.*, **2002**, *14*, 116-121.  
DOI:10.1021/cm011088y  
SCOPUS: 2-s2.0-0036120673  
WOS:000173459300024
38. **A. Gulino**, F. Castelli, P. Dapporto, P. Rossi and I. Fragalà  
Synthesis and Characterization of Novel Self-Generating Liquid MOCVD Precursors for Thin Films of Zinc Oxide.  
*Chem. Mater.*, **2000**, *12*, 548-554.  
DOI:10.1021/cm991154k  
SCOPUS: 2-s2.0-0033807639  
WOS:000085502900045
37. **A. Gulino**, I. Fragalà  
Synthesis and Spectroscopic Characterisation of Y-doped Cd<sub>2</sub>SnO<sub>4</sub>.  
*J. Mater. Chem.*, **1999**, *9*, 2837-2841.  
DOI:10.1039/a903480c  
SCOPUS: 2-s2.0-0032743370  
WOS:000083335700023
36. **A. Gulino**, G. Compagnini, R.G. Egdell, I. Fragalà  
Thin films of tetragonal zirconia with Bi doping: deposition, characterisation and thermal behaviour.  
*Thin Solid Films.*, **1999**, *352*, 73-76.  
DOI: NONE  
SCOPUS: 2-s2.0-0003093015  
WOS:000082709600012
35. I. Kotsis, E. Kristof-Mako, **A. Gulino**, I. Fragalà



Novel Results in the Characterisation of the plasma-sprayed titanium coating of endosseous implant.

*Hung. J. Ind. Chem.*, **1999**, 27, 149-153

SCOPUS: 2-s2.0-0032691572

WOS:000082366800012

34. W.A. King, S Di Bella, **A Gulino**, G. Lanza, I.L. Fragalà, C.L. Stern and T.J. Marks

Absolute Metal-Ligand  $\sigma$  Bond Enthalpies in Group 4 Metallocenes. A Thermochemical, Structural, Photoelectron Spectroscopic, and ab Initio Quantum Chemical Investigation.

*J. Am. Chem. Soc.*, **1999**, 121, 355-366.

DOI:10.1021/JA9822815

SCOPUS: 2-s2.0-0033585544

WOS:000079041700013

33. **A. Gulino**, R.G. Egdell, I. Fragalà  
Mechanically Induced Phase Transformation and Surface Segregation in Bismuth-Doped Tetragonal Zirconia.

*J. Am. Ceram. Soc.* **1998**, 81[3], 757-759.

SCOPUS: 2-s2.0-0032022059

WOS:000072592300046

32. **A. Gulino**, R.G. Egdell, G. Baratta, G. Compagnini, I Fragalà  
Surface Segregation and Effect of Mechanical Stress on Sb-Stabilised Tetragonal Zirconia.

*J. Mater Chem*, **1997**, 7, 1023-1027.

DOI:10.1039/a700670e

SCOPUS: 2-s2.0-0003300633

WOS:A1997XE22700031

31. **A. Gulino**, R.G. Egdell, I Fragalà,  
Low Temperature Stabilization of Tetragonal Zirconia By Antimony.

*J. Mater Chem*. **1996**, 11, 1805-1809.

DOI:10.1039/jm9960601805

SCOPUS: 2-s2.0-0001173705

WOS:A1996VT28900012

30. S. Di Bella, G. Lanza, **A. Gulino**, and I. Fragalà  
Electronic Structure of Bis(2,4-pentanedionato-*O,O'*)oxovanadium(IV).  
A Photoelectron Spectroscopy, Electronic Spectroscopy, and ab Initio Molecular Orbital Study.

*Inorg. Chem.* **1996**, 35, 3885-3890.

DOI:10.1021/IC951457Q

SCOPUS: 2-s2.0-0001542261

WOS:A1996UT21000026

29. **A. Gulino**, G.G. Condorelli, I. Fragalà  
Synthesis and Spectroscopic Characterization of MoO<sub>3</sub> Thin Films.

*J. Mater.Chem.* **1996**, 8, 1335-1338.

DOI:10.1039/jm9960601335

SCOPUS: 2-s2.0-27844541293

WOS:A1996VC50700011

28. **A. Gulino**, S. La Delfa, I Fragalà, R.G. Egdell  
Low-Temperature Stabilization of Tetragonal Zirconia By Bismuth.  
*Chem. Mater.* **1996**, 8, 1287-1291.  
DOI:10.1021/CM950558J  
SCOPUS: 2-s2.0-0001261232  
WOS:A1996UQ79000020
27. **A. Gulino**, S. Parker, F.H. Jones, R.G. Egdell  
Influence of metal-metal bonds on electron spectra of MoO<sub>2</sub> and WO<sub>2</sub>.  
*J. Chem. Soc. Faraday (Solid State Chemistry Special Issue)*, **1996**, 92, 2137-2141.  
DOI:10.1039/ft9969202137  
SCOPUS: 2-s2.0-33748598975  
WOS:A1996UU87700013
26. A.E. Taverner, **A. Gulino**, R.G. Egdell, T.J. Tate  
A Photoemission Study of electron States in Sb-ion Implanted TiO<sub>2</sub> (110).  
*Appl. Surf. Sci.*, **1995**, 90, 383-387.  
DOI:10.1016/0169-4332(95)00170-0  
SCOPUS: 2-s2.0-0003049016  
WOS:A1995TD96300017
25. **A. Gulino**, G.G. Condorelli, I. Fragalà, R.G. Egdell  
Surface Segregation of Sb in Doped TiO<sub>2</sub> Rutile.  
*Appl. Surf. Sci.*, **1995**, 90, 289-295.  
DOI:10.1016/0169-4332(95)00160-3  
SCOPUS: 2-s2.0-0006277082  
WOS:A1995TD96300005
24. **A. Gulino**, R.G. Egdell, P.D. Battle, S.H. Kim  
Photoemission and electron-energy-loss-spectroscopy Study of BaRuO<sub>3</sub>  
*Phys. Rev. B* **1995**, 51, 6827-6832.  
DOI: NONE  
SCOPUS: 2-s2.0-0009347667  
WOS:A1995QP77400002
23. A.E. Taverner, C. Rayden, S. Warren, **A. Gulino**, P.A. Cox and R.G. Egdell  
Comparison of The Energies of Vanadium Donor Levels in Doped SnO<sub>2</sub> and TiO<sub>2</sub>  
*Phys. Rev. B* **1995**, 51, 6833-6837.  
DOI: NONE  
SCOPUS: 2-s2.0-35949006475  
WOS:A1995QP77400003
22. R.G. Egdell, **A. Gulino**, C. Rayden, G. Peacock, P.A. Cox,  
Nature of Donor States in V-Doped SnO<sub>2</sub>.  
*J. Mater. Chem.* **1995**, 5, 499-504.  
DOI:10.1039/jm9950500499  
SCOPUS: 2-s2.0-0000373801  
WOS:A1995QM06500020
21. **A. Gulino**, A.E. Taverner, S. Warren, P. Harris, R.G. Egdell

A Photoemission Study of Sb-Doped TiO<sub>2</sub>.

*Surf. Sci.*, **1994**, *315*, 351-361.

DOI:10.1016/0039-6028(94)90138-4

SCOPUS: 2-s2.0-0028480324

WOS:A1994PC52700015

20. S. Di Bella, **A. Gulino**, G. Lanza, I. Fragalà, D. Stern, T. J. Marks  
-Photoelectron Spectroscopy of f-Element Organometallic Complexes 12. A  
Comparative Investigation of the Electronic Structure of Lanthanide  
Bis(polymethylcyclopentadienyl) hydrocarbyl Complexes by Relativistic ab Initio  
and DV-X $\alpha$  Calculations, and Gas-Phase UV Photoelectron Spectroscopy.  
*Organometallics* **1994**, *13*, 3810-3815.  
DOI:10.1021/om00022a016  
SCOPUS: 2-s2.0-0007330390  
WOS:A1994PL51000016
19. M. Casarin, **A. Gulino**, D. Lentz, H. Michael-Schulz and A. Vittadini.  
Experimental Investigation of the Electronic Structures of Enneacarbonylbis( $\eta^3$ -X-  
methylidene)triiron Complexes ( X = H, F, Cl, Br) by Means of He I/He II Gas- Phase  
UV Photoelectron Spectroscopy.  
*Inorg. Chem.*, **1993**, *32*, 1383-1388.  
DOI:10.1021/ic00060a011  
SCOPUS: 2-s2.0-33751385436  
WOS:A1993KX64600011
18. M. Casarin, E. Tondello, F. Calderazzo, A. Vittadini, M. Bettinelli, **A. Gulino**  
Zn<sub>4</sub>O(O<sub>2</sub>CNEt<sub>2</sub>)<sub>6</sub>: A Further Molecular Model for ZnO.  
*J. Chem. Soc. Faraday Trans.*, **1993**, *89*, 4363-4367.  
DOI:10.1039/ft9938904363  
SCOPUS: 2-s2.0-0000843016  
WOS:A1993MM52600017
17. S. Di Bella, **A. Gulino**, G. Lanza, I. L. Fragalà, T. J. Marks  
Photoelectron Spectroscopy of f-Element Organometallic Complexes. 11. An  
Investigation of the Electronic Structure of Some Tris( $\eta^5$ -cyclopentadienyl)-  
thorium(IV) and -Uranium(IV) Complexes by Relativistic Effective Core Potential ab  
Initio Calculations and Gas-Phase UV Photoelectron Spectroscopy.  
*J. Phys. Chem.* **1993**, *97*, 11673-11676.  
DOI:10.1021/j100147a020  
SCOPUS: 2-s2.0-33751386062  
WOS:A1993MG29900020
16. S. Di Bella, **A. Gulino**, G. Lanza, I. L. Fragalà, T. J. Marks  
-Photoelectron Spectroscopy of f-Element Organometallic Complexes. 10.  
Investigation of the Electronic Structure and Geometry of Bis( $\eta^5$ -  
pentamethylcyclopentadienyl)-phosphathoracyclobutane by Relativistic ab Initio,  
Multipolar DV-X $\alpha$  Calculations and Gas-Phase UV Photoelectron Spectroscopy.  
*Organometallics* **1993**, *12*, 3326-3332.  
DOI:10.1021/om00032a063  
SCOPUS: 2-s2.0-2642629294  
WOS:A1993LU68300063

15. **A. Gulino**, S. Di Bella, I. Fragalà, M. Casarin, A. M. Seyam, T. J. Marks  
A Comparative Fully Relativistic/Nonrelativistic First-Principles  $X\alpha$ -DVM and Photoelectron Spectroscopic Investigation of Electronic Structure in Homologous 4f and 5f Tris( $\eta^5$ -cyclopentadienyl)metal(IV) Alkoxide Complexes.  
*Inorg. Chem.* **1993**, *32*, 3873-3879.  
DOI:10.1021/ic00070a018  
SCOPUS: 2-s2.0-0347964025  
WOS:A1993LV76600018
  
14. **A. Gulino**, E. Ciliberto, S. Di Bella, I. Fragalà  
-Evidence of Spin Crossover Phenomena Deduced from Gas-Phase Photoelectron Spectra of the Bis[tetrakis(pyrazol-1-yl)borato]iron(II) Complex.  
*Inorg. Chem.* **1993**, *32*, 3759-3761.  
DOI:10.1021/ic00069a035  
SCOPUS: 2-s2.0-0342556222  
WOS:A1993LU16500035
  
13. **A. Gulino**, E. Ciliberto, S. Di Bella, I. Fragalà, A. M. Seyam, T. J. Marks  
-Photoelectron Spectroscopy of f-Element Organometallic Complexes. 8. DV- $X\alpha$  and Gas-Phase UV Photoelectron Spectroscopic Investigation of the Electronic Structure of Tris( $\eta^5$ -cyclopentadienyl)uranium(IV) Complexes.  
*Organometallics* **1992**, *11*, 3248-3257.  
DOI:10.1021/om00046a022  
SCOPUS: 2-s2.0-0005889208  
WOS:A1992JT75400022
  
12. R. Bertinello, M. Bertinelli, M. Casarin, **A. Gulino**, E. Tondello, A. Vittadini.  
- $Zn_4O(\text{acetate})_6$  Well Tailored Molecular Model of ZnO. An Experimental and Theoretical Investigation of the Electronic Structure of  $Zn_4O(\text{acetate})_6$  and ZnO by Means of UV and X-ray Photoelectron Spectroscopies and First Principle Local Density Molecular Cluster Calculations.  
*Inorg. Chem.*, **1992**, *31*, 1558-1565.  
DOI:10.1021/ic00035a008  
SCOPUS: 2-s2.0-33751392072  
WOS:A1992HR75900008
  
11. M. Casarin, E. Ciliberto, S. Di Bella, **A. Gulino**, I. Fragalà, T. J. Marks  
-Electronic Structure of Tetracoordinate Transition-Metal Complexes. 5. Comparative Theoretical ab Initio/Hartree-Fock-Slater and Ultraviolet- Photoelectron Spectroscopic Studies of Building Blocks for Low-Dimensional Conductors. Dibenzo[*b,i*][1,4,8,11]-tetraazacyclotetradecine Complexes of Nickel(II) and Palladium(II).  
*Inorg. Chem.* **1992**, *31*, 2835-2842.  
DOI:10.1021/ic00039a031  
SCOPUS: 2-s2.0-4243695512  
WOS:A1992JA54700031
  
10. E. Ciliberto, S. Di Bella, **A. Gulino**, I. L. Fragalà  
-Synthesis, Structure, and Bonding Properties of a New Volatile [*N-tert*-Butyl(1*H*-pyrrol-2-ylmethylene)aminato]thallium(I) Complex.

- Inorg. Chem.* **1992**, *31*, 1641-1644.  
 DOI:10.1021/ic00035a023  
 SCOPUS: 2-s2.0-25544432025  
 WOS:A1992HR75900023
9. E. Ciliberto, S. Di Bella, **A. Gulino**, I. Fragalà, J. L. Petersen, T. J. Marks  
 -Combined DV-X $\alpha$  and Gas-Phase UV Photoelectron Spectroscopic Investigation  
 of the Electronic Structures of Tetravalent Titanium, Zirconium, Molybdenum, and  
 Thorium 1-Sila-3-metallacyclobutane Metallocene Complexes.  
*Organometallics* **1992**, *11*, 1727-1737.  
 DOI:10.1021/om00040a050  
 SCOPUS: 2-s2.0-1842313981  
 WOS:A1992HP32100050
8. M. Casarin, **A. Gulino**, M.J.A. Kraakman, G.A. Rizzi, A. Vittadini, K. Vrieze.  
 Experimental and Theoretical Investigation of the Electronic Structure of Two  
 Isoelectronic Binuclear Clusters. UV-PES and DV-X $\alpha$  Study of Ru<sub>2</sub>(CO)<sub>6</sub>[f,f'-  
 N(R)CH<sub>2</sub>CH<sub>2</sub>N(R)] and FeRu(CO)<sub>6</sub>[f,f'-N(R)CH<sub>2</sub>CH<sub>2</sub>N(R)].  
*Inorg. Chem.*, **1991**, *30*, 1906-1911.  
 DOI:10.1021/ic00008a042  
 SCOPUS: 2-s2.0-33751499448  
 WOS:A1991FH62600042
7. S. Millefiori, **A. Gulino** and M. Casarin  
 UV Photoelectron Spectra, Reduction Potentials and MO Calculations of  
 Intramolecularly Hydrogen-Bonded Naphtoquinones.  
*J. de Chimie Physique et de Physico-Chimie Biologique*, **1990**, *87*, 317-330.  
 DOI: NONE  
 SCOPUS:  
 WOS:A1990DE11100001
6. **A. Gulino**  
 Struttura Elettronica di Complessi di Metalli di Transizione "d" ed "f" mediante  
 Spettroscopia di Fotoelettroni e Metodi di Calcolo Quantomeccanici.  
 Tesi di Dottorato di Ricerca, *Biblioteche Nazionali di Roma e Firenze*, **1990**.
5. E. Ciliberto, S. Di Bella, **A. Gulino** and I. Fragalà  
 Electronic Structure of Transition-Metal Tetracoordinated Complexes. 4. Theoretical  
 ab Initio and UV-Photoelectron Spectroscopy Study of Nickel(II) and Palladium(II)  
 Complexes of N,N'-1,3-propaneaminebis(1H-pyrrol-2-ylmethylene) Schiff Base.  
*Inorg. Chim. Acta.*, **1990**, *177*, 225-231.  
 DOI:10.1016/S0020-1693(00)85980-0  
 SCOPUS: 2-s2.0-4243574213  
 WOS:A1990EW06000012
4. M. Casarin, E. Ciliberto, **A. Gulino** and I. Fragalà  
 An Investigation of the Electronic Structure of Bis( $\eta$ -cyclopentadienyl) Dicarboxyl  
 Complexes of Titanium(II) and Zirconium(II). Discrete Variational X $\alpha$  Calculation  
 and Gas-Phase Photoelectron Spectroscopy.  
*Organometallics*, **1989**, *8*, 900-906.  
 DOI:10.1021/om00106a007

SCOPUS: 2-s2.0-2142750318  
WOS:A1989U095300007

3. **A. Gulino**, M. Casarin, V.P. Conticello, J.G. Gaudiello, H. Mauermann, I. Fragalà, and T.J. Marks  
Efficient Synthesis, Redox Characteristics, and Electronic Structure of a Tetravalent tris(cyclopentadienyl)cerium Alkoxide Complex.  
*Organometallics*, **1988**, 7, 2360-2364.  
DOI:10.1021/om00101a016  
SCOPUS: 2-s2.0-0001150782  
WOS:A1988Q914800016
2. A. Vittadini, M. Casarin, D. Ajo, R. Bertinello, E. Ciliberto, **A. Gulino** and I. Fragalà.  
A DV-X $\alpha$  Theoretical Investigation of the Electronic Structure of some Tris(cyclopentadienyl) Complexes of U(IV).  
*Inorg. Chim. Acta*, **1986**, 121, L23-L25.  
DOI:10.1016/S0020-1693(00)87745-2  
SCOPUS: 2-s2.0-46149131922  
WOS:A1986F103200022
1. I.L. Fragalà and **A. Gulino**  
Photoelectron Spectroscopy of f-Element Organometallic Complexes in "Fundamental and Technological Aspects of Organo-f-Elements Chemistry", T.J. Marks and I.L. Fragalà' Eds., *NATO ASI -Reidel Publishing Company*, **1985**, pp 327-360.  
DOI: NONE

**Elenco delle Comunicazioni a Congressi e Seminari**  
**Prof. Antonino Gulino**

88. F. Perricelli, M. E. Fragalà, A. Gulino.  
Fabrication of silicon carbide trenches by a inductively coupled plasma reactive ion etching process  
E-MRS 2022, Spring Meeting, May 30th – June 3rd 2022.
87. L. Spitaleri, A. Gulino  
Self-assembly of Gold Nanoparticles on Porphyrin Monolayers Anchored on Inorganic Substrates.  
E-MRS 2022, Spring Meeting, May 30th – June 3rd 2022.
86. A. Scandurra, V. Iacono, M. Censabella, A. Gulino, M. G. Grimaldi, F. Ruffino  
Platinum palladium and bimetallic Pt-Pd nanoparticles synthesized by pulsed laser ablation for electro-sorption of hydrogen in alkaline electrolyte.  
E-MRS 2022. Fall Meeting, 19th – 22nd September 2022.
85. L. Spitaleri, G. Nicotra, M. Zimbone, A. Contino, G. Maccarrone, A. Alberti and A. Gulino.  
Enhanced Visible Photocatalytic Activity of Au@ZnO core-shell Nanoparticles for Water Purification.  
Convegno Regionale SCI della Sezione Sicilia. Online, Italia, 2 December 2021.

84. L. Spitaleri, C. M. A. Gangemi, R. Purrello, G. Nicotra, G. Trusso Sfrazzetto, G. Casella, M. Casarin, A. Gulino  
Covalently Conjugated Gold–Porphyrin Nanostructures  
XXVII Congresso Nazionale SCI. Online, Italia, 14-23 Settembre 2021.
83. **A. Gulino**  
Nanostructures for Mass-Transport and Delivery.  
The Batsheva de Rothschild Workshop on Robotics for Nano-Structure Delivery in Agriculture. 29-31, August, **2021**, Akko, Israel. **Invited Talk.**
82. D. Scirè, R. Macaluso, M. Mosca, S. Mirabella, **A. Gulino**, O. Isabella, M. Zeman, I. Crupi.  
Characterization of defect density states in MoO<sub>x</sub> for c-Si solar cell applications.  
*22<sup>th</sup> Conference on Insulating Films on Semiconductors, INFOS 2021, conference topic: Dielectrics and thin film materials for TFTs, amorphous or organic devices and photovoltaics.* 28<sup>th</sup> June-2<sup>nd</sup> July **2021**, Rende, Italy.
81. D. Scirè, Y. Zhou, P. Procel, S. Mirabella, **A. Gulino**, O. Isabella, M. Zeman, I. Crupi  
Density of States evaluation of Molybdenum Oxide for c-Si solar cell  
*E-MRS 2019 Fall Meeting, Warsaw University of Technology, September 16<sup>th</sup> - 19<sup>th</sup>, Varsavia, Poland.*
80. M. Cantarella, A. Di Mauro, **A. Gulino**, L. Spitaleri, G. Nicotra, V. Privitera, G. Impellizzeri  
Selective photodegradation of paracetamol by molecularly imprinted ZnO nanonuts  
*E-MRS 2019, Spring Meeting, symposium H, May 27<sup>th</sup> – 31<sup>st</sup>, Nice, France.*
79. G. Trusso Sfrazzetto, **A. Gulino**, A. Zammataro, A. Pappalardo  
Enantioselective Epoxidation With Hybrid Organic/Inorganic Materials.  
*XXIV meeting AIV, 7-10 maggio 2019, Giardini-Naxos – Italia.*
78. **A. Gulino**, L. Spitaleri, G. Trusso Sfrazzetto, I. Fragalà  
Molecular Nanostructures Covalently Assembled on Functionalized surfaces.  
*XXIV meeting AIV, 7-10 maggio 2019, Giardini-Naxos – Italia.*
77. R. Puglisi, G. Trusso Sfrazzetto, A. Pappalardo, F. P. Ballistreri, **A. Gulino**  
Complessi Zn-Salen chirali: una nuova classe di recettori fluorescenti per l'enantioselezione di ammine chirali.  
Congresso SCI Congiunto delle Sezioni Sicilia e Calabria **2018**, pp.40-40.
76. G. Trusso Sfrazzetto, S. Millesi, A. Pappalardo, F. P. Ballistreri, M. R. Toscano, R. Puglisi, **I. Fragalà, A. Gulino**  
Nanostrutture di uranile per il riconoscimento molecolare di nervini.  
Congresso SCI Congiunto delle Sezioni Sicilia e Calabria **2018**, pp.30-30.
75. H. Keisar, G. de Ruiter, A. H. Velders, P. Milko, **A. Gulino**, G. Evmenenko, L. J. W. Shimon, Y. Diskin-Posner, M. Lahav, and M. E. van der Boom  
Sorting Mechanism of Metal Complexes Induced by an Organic Monolayer  
The 17<sup>th</sup> International Conference on Organized Molecular Films (ICOMF).  
23<sup>th</sup> – 27<sup>th</sup> July **2018**, Brooklyn, NY, USA.
74. **Gulino A**, Maccarrone G, Contino A, Millesi S.  
Distant Nanostructures Interacting upon an External Stimulus

*XI National INSTM Conference on Materials Science and Technology* 12<sup>th</sup> – 15<sup>th</sup> July **2017**, Hotel Continental Terme, Ischia (Na).  
Journal of Applied Biomaterials & Functional Materials: <http://www.jab-fm.com>  
e-ISSN: 2280-8000, 2017, pp e28.  
DOI: 10.5301/jabfm.5000369

73. M. Cantarella, A. Di Mauro, G. Nicotra, G. Pellegrino, **A. Gulino**, V. Privitera, G. Impellizzeri  
Synthesis of ZnO/PMMA composites for photocatalytic applications.  
*E-MRS 2017 Spring Meeting, symposium F : Photocatalytic materials for energy and environment.*  
22<sup>nd</sup> 26<sup>th</sup> May **2017**, Congress Center in Lille (France).
72. **A. Gulino**  
Molecular Nanostructures Covalently Assembled on Functionalized Oxides.  
NanoSea - 6th International Conference on NANOstructures and nanomaterials SELF-Assembly. – Giardini-Naxos (ME), Italy, 3-8 July **2016**.
71. S. Millesi, M. R. Catalano, G. Malandrino, G. Impellizzeri, F. Priolo, I. Crupi, and **A. Gulino**  
Ultrathin Sb-implanted ZnO transparent electrodes synthesized by MOCVD liquid precursors.  
*E-MRS 2016 Spring Meeting, symposium T : Advanced materials and characterization techniques for solar cells III* - Congress Center in Lille (France) **2016**.
70. **A. Gulino**, S. Millesi, S. Pappalardo, C. Capici, G. Gattuso, A. Notti, M.F. Parisi  
Selective Sensing of Alkaline Cations by Calixarene Monolayers.  
Calix 2015 – 13<sup>th</sup> International Conference on Calixarenes – Giardini Naxos (Italy) 5-9 July **2015**.
69. S. Millesi, I. Crupi, G. Impellizzeri, F. Priolo, R. M. J. Jacobs, R. G. Egdell and **A. Gulino**  
Electronic, and Electrical Properties of CdO Thin Films.  
E-MRS 2015 Spring Meeting, symposium B : Materials for applications in water treatment and water splitting. Congress Center in Lille (France) May 11-15, **2015**.
68. S. Millesi, **A. Gulino**  
Smart Characterization of Nanomaterials  
IEEE\_NMDC\_Conference Aci Castello, Italy, 12-15-Oct, **2014**
67. Millesi, S.; Condorelli, G.; **Gulino, A.**  
X-Ray Photoelectron Spectroscopy of Nanostructures  
E-MRS 2014 Spring Meeting, Symposium Q : Hybrid materials engineering in biology, chemistry and physics. Congress Center, Lille, France, 26-30 May, **2014**.  
Abstract ID : UBEH5
66. F. Lupo, A. Motta, C. Tudisco, F. Bertani, **A. Gulino**, E. Dalcanale, G. G. Condorelli  
In situ metallation of free base phthalocyanine covalently bonded to Si(100) and porous Si surfaces.  
E-MRS 2014 Spring Meeting, Symposium M : Molecular materials - Towards quantum properties. Congress Center, Lille, France, 26-30 May, **2014**.  
Abstract ID : 15R7I



65. Kaminker R., Lahav M., Popovitz-Biro R., **Gulino A.**, van der Boom M. E.  
Supramolecular Architecture in Thin Films and Nanostructures.  
Nano Israel, Tel-Aviv, Israel, **2014**.
64. S. Millesi, A. Cristaldi, **A. Gulino**  
Molecular recognition of biological systems using calixarene monolayers  
*IX convegno nazionale INSTM sulla scienza e tecnologia dei materiali*, Bari, 30  
Giugno-3 Luglio **2013**, P059.
63. Cristaldi, S. Millesi, I.L. Fragalà, **A. Gulino**  
Covalent Polymer Chains on Siloxane-Functionalized Si Substrate  
*IX convegno nazionale INSTM sulla scienza e tecnologia dei materiali*, Bari, 30  
Giugno-3 Luglio **2013**, P025.
62. **A. Gulino**, D. A. Cristaldi, I. Fragalà  
Switching Nanostructures using sub-ppm of metal ions  
*SAMIC 2012 International: Syntheses and Methodologies in Inorganic Chemistry,  
Chemistry for Life Sciences and Renewable Energy*, Brixen-Bressanone (BZ), 2-6  
December **2012**.
61. **A. Gulino**, D. A. Cristaldi, I. Fragalà, A. Pappalardo  
Sensing of Biological Cations with molecular-based films  
*SAMIC 2011 International: Syntheses and Methodologies in Inorganic Chemistry, From  
Molecules to Nanosystems, Chemistry and Materials for Energy and Life Sciences*  
Brixen-Bressanone (BZ), 4 – 7 December **2011**.
60. D. A. Cristaldi, F. Lupo, I. Fragalà, **A. Gulino**.  
Siloxane monolayer for biological sensing  
*XVII Scuola Nazionale di Scienza dei Materiali*  
Brixen-Bressanone (BZ), 26-30 September **2011**
59. F. Lupo, A. Cristaldi, I. Fragalà, **A. Gulino**  
Optical properties of Ru-Complex Monolayers  
*VIII Convegno Nazionale INSTM, Scienza e Tecnologia dei Materiali*  
Grand Hotel Baia Verde, Acicastello – Catania, 26-29 Giugno **2011**
58. **A. Gulino**, I. Fragalà, F. Lupo, A. Cristaldi  
Hybrid Monolayer-based sensors  
*VIII Convegno Nazionale INSTM, Scienza e Tecnologia dei Materiali*  
Grand Hotel Baia Verde, Acicastello – Catania, 26-29 Giugno **2011**
57. **A. Gulino**  
Self-assembly of functional hybrid molecular architectures  
*SAMIC 2010 International: Syntheses and Methodologies in Inorganic Chemistry, From  
Molecules to Nanosystems, Chemistry and Materials for Energy and Life Sciences*  
Brixen-Bressanone (BZ), 28 November – 1 December **2010**, Italy, Key Note,
56. **A. Gulino**  
A Bottom-up Approach for Covalent Functional Nanostructures  
*Italian Crystal Growth Progress in Functional Materials*  
18-19 November **2010**, Parma, Italy

55. F. Lupo, **A. Gulino**  
Stimuli Responsive Nano Hybrid Architectures  
*XII International Symposium on Polymer Electrolytes ISPE-12*  
29 Agosto – 3 Settembre **2010**, Padova, Italy
54. **A. Gulino**, I. Fragalà  
Hybrid Molecular Luminescent Nanomaterials  
MOLMAT 2010 Conference, July 5-8, **2010**, Montpellier, France
53. F. Lupo, I. Fragalà, **A. Gulino**  
Photoluminescence of a Covalent Europium Complex Monolayer on Silica  
E-MRS 2010 Spring Meeting, Symposium T : Advanced hybrid materials: states and concepts.  
June 7 -11, **2010**. Congress Center, Strasbourg, France
52. **A. Gulino**  
Functional Molecular Assemblies and Nanostructures  
*Catania Nanotech Day*  
Università di Catania, Aula Magna Rettorato, 6 Maggio **2010**
51. P. Mineo, I. Fragalà, **A. Gulino**  
Sensing using Molecular Monolayers: A new Paradigm.  
*XV Conferenza Nazionale Sensori e Microsistemi*, Università di Messina 8-10 Febbraio **2010**, p 204-205.
50. Kaminker R., Lahav M., Motiei L., Altman M., Popovitz-Biro R., **Gulino A.**, van der Boom M. E.  
Molecular Architecture for Defining Multilayer Properties and Formation of Nanoparticles Assemblies.  
Organic Chemistry Symposium, Ben-Gurion University, Israel, **2010**.
49. Kaminker R., Lahav M., Motiei L., Altman M., Popovitz-Biro R., **Gulino A.**, van der Boom M. E.  
Molecular Architecture for Defining Multilayer Properties and Formation of Nanoparticles Assemblies.  
Odyssey-Israel Conference, Weizmann Institute of Science, Israel, **2010**.
48. Kaminker R., Lahav M., Motiei L., Altman M., Popovitz-Biro R., **Gulino A.**, van der Boom M. E.  
Molecular Architecture for Defining Multilayer Properties and Formation of Nanoparticles Assemblies.  
Israel Chemical Society Conference, Tel-Aviv, Israel, **2010**.
47. Kaminker R., Lahav M., **Gulino A.**, Altman M., van der Boom M. E.,  
Defining Multilayer Thin Film Properties by Molecular Architecture  
Nano Israel Conference, Jerusalem, Israel, **2009**.
46. Kaminker R., Lahav M., **Gulino A.**, Altman M., van der Boom M. E.,  
Defining Multilayer Thin Film Properties by Molecular Architecture.  
Conference of Israel Vacuum Society, Israel Air Force House, Herzliya, Israel, **2009**.

45. **A. Gulino**  
 Smart Materials based on Molecular Monolayers  
*From Molecules to Nanosystems*  
*SAMIC 2009 International: Syntheses and Methodologies in Inorganic Chemistry*  
*Chemistry and Materials for Energy and Health*  
 Brixen-Bressanone (BZ), 30 November – 3 December **2009**, K3
44. **A. Gulino**, F. Lupo, I. Fragalà  
 Identity Card for Covalently Bound Molecular Monolayers by XPS  
*From Molecules to Nanosystems*  
*SAMIC 2009 International: Syntheses and Methodologies in Inorganic Chemistry*  
*Chemistry and Materials for Energy and Health*  
 Brixen-Bressanone (BZ), 30 November – 3 December **2009**, P2
43. **A. Gulino**  
 Covalent Bound Monolayers for Functional Devices  
*5th Korea-Italy Inorganic Chemistry Symposium (Kyungju POSTECH International Building)*.  
 27-9/2-10/**2009**, Pohang, Corea
42. **A. Gulino**, I. Fragalà  
 Functional Nano Hybrid Molecular Architectures for Stimuli Responsive Device Fabrication  
*VII Convegno Nazionale INSTM sulla Scienza e Tecnologia dei Materiali, C14*  
 9-12 Giugno **2009**, Tirrenia (PI), Italy
41. F. Lupo, R. Kamalakaran, I. Fragalà, **A. Gulino**  
 Cobalt Oxide covered Carbon Nanotubes  
*E-MRS - Strasbourg - Symposium N: Carbon nanotubes and graphene low dimensional carbon*, 6/26, p. 14.  
 8-12 June, **2009** Strasbourg, France.
40. F. Lupo, M. E. Fragalà, **A. Gulino**  
 Semiconducting Nanodimensional Substrate Free ZnO Films  
*SAMIC 2008 International: Syntheses and Methodologies in Inorganic Chemistry: From Molecules to Nanosystems*.  
 30 Novembre - 4 Dicembre **2008**. pag. 7, Brixen-Bressanone (BZ).
39. **A. Gulino**, F. Lupo, I. Fragalà  
 Substrate Free ZnO Thin films  
 E-MRS - Strasbourg - Symposium P: Advanced organic and/or inorganic functional materials  
 26-30 May **2008** p. 9, Strasbourg, Francia
38. **A. Gulino**, I. Fragalà.  
 Molecular Recognition by Stimuli Responsive Monolayers  
 38ICCC 38<sup>th</sup> International Congress on Coordination Chemistry  
 20-25 Luglio **2008**, pag. 451, Gerusalemme, Israele.
37. **A. Gulino**, I. Fragalà.  
 Optical Properties of Covalently Assembled Copper Porphyrin Monolayers.  
*16<sup>th</sup> Meeting on Syntheses and Methodologies in Inorganic Chemistry: From Molecules to Nanosystems*.

2-6 Dicembre **2007**. Brixen-Bressanone (BZ).

36. **A. Gulino**  
History of Chemistry  
Invited lectures, 22 Agosto **2007**, Weizmann Institute of Science, Rehovot, Israel.
35. **A. Gulino**  
From Molecules to Solids and back again.  
Invited lectures, 18 Luglio **2007**, Bar Ilan University, Ramat Gan, Israel.
34. **A. Gulino**  
Photoelectron Spectroscopy as a Tool to Investigate Chemical Bond: Synthesis, Characterization and Properties of Molecular Monolayers Covalently Assembled on SiO<sub>2</sub> and Si(100) Substrates  
Invited lecturer, 16 Maggio **2007**, Ben Gurion University of The Negev, Beer-Sheva, Israel.
33. **A. Gulino** and I. Fragalà,  
Molecular building blocks showing Optical Properties  
*15<sup>th</sup> Meeting on Syntheses and Methodologies in Inorganic Chemistry: From Molecules to Nanosystems.*  
3-7 Dicembre **2006** Brixen-Bressanone (BZ).
32. **A. Gulino**  
Hybrid Inorganic-Organic Molecular Materials Useful for Optical Sensing  
ST-Microelectronics, Invited lecturer, 6 Ottobre **2006**, Catania.
31. **A. Gulino**, M. van der Boom  
Organic Optical and Electronic Sensors: Sniffing Out Chemicals  
NATO Programme For Security Through Science: Science for Peace Proposal  
23 Maggio **2006**, Brussels, Belgio.
30. **A. Gulino**  
Optical Selective Recognition Behavior of Molecular Functional Materials  
Invited lecturer, 21 Marzo **2006**, Weizmann Institute of Science, Rehovot, Israel.
29. P. Mineo, E. Scamporrino, G. Ventimiglia, D. Vitalini, **A. Gulino**, G. Condorelli, S. Giuffrida, G. Ventimiglia, I. Fragalà,  
Sensori Molecolari Costituiti da Monostrati Molecolari di Derivati Porfirinici e Fullerenici Covalentemente Legati a Superfici di Quarzo.  
*SCI: Convegno Congiunto delle Sezioni Calabria e Sicilia,*  
5-6 Dicembre **2005** Catania.
28. **A. Gulino**, P. Mineo, M. M. Purrazzo, E. Scamporrino, D. Vitalini and I. Fragalà  
Optical Selective Recognition Behavior of a Molecular Functional Material  
*14<sup>th</sup> Meeting on Syntheses and Methodologies in Inorganic Chemistry: Trends in Nanoscience.*  
4-7 Dicembre **2005** Brixen-Bressanone (BZ).
27. **A. Gulino**, I. L. Fragalà, S. Giuffrida, P. Mineo, E. Scamporrino, G. Ventimiglia, D. Vitalini  
A Self-Assembled Fullerene Monolayer for Molecular Oxygen Optical Recognition  
*V Convegno Nazionale sulla Scienza e Tecnologia dei Materiali*

- 26 - 29 settembre **2005** Geremeas - Maracalagonis (Cagliari).
26. P. Mineo, E. Scamporrino, D. Vitalini, **A. Gulino**, I. Fragalà  
Sensori Molecolari Costituiti da Monostrati Molecolari di Derivati Porfirinici e Fullerenici Covalentemente Legati a Superfici di Quarzo  
*XVII Convegno Italiano di Scienza e Tecnologia delle Macromolecole*  
11-15 Settembre **2005**, Napoli, Italy
25. A. Corsaro, U. Chiacchio, I. Fragalà, **A. Gulino**, V. Pistarà  
Synthesis and purification with Sepacore of branched Ru(II) polypyridine complex.  
*20th International Congress of Heterocyclic Chemistry*  
July 31 - August 5, **2005**, Palermo, Italy
24. **A. Gulino**, S. Bazzano, P. Mineo, E. Scamporrino, D. Vitalini, I. Fragalà  
Hybrid Molecular Materials for Optical NO<sub>2</sub> Gas Sensing  
*13<sup>th</sup> Meeting on Syntheses and Methodologies in Inorganic Chemistry: Trends in Nanoscience.*  
5-7 Dicembre **2004** Brixen-Bressanone (BZ).
23. R. Alicata, S. Bazzano, I. Fragalà, **A. Gulino**, P. Mineo, E. Scamporrino, D. Vitalini  
Sintesi di Macromolecole Porfiriniche e loro Assemblaggio su Superfici Inorganiche per Sensoristica Molecolare.  
*XXVI Convegno Scuola AIM su Tecniche Avanzate e Nuovi Sviluppi nella Caratterizzazione Dei Materiali Polimerici*  
24-28 Maggio **2004** – Palazzo Feltrinelli Gargnano (BS).
22. **A. Gulino**, P. Dapporto, P. Rossi, I. Fragalà  
Smart MOCVD Precursor for Co<sub>3</sub>O<sub>4</sub> Thin Films  
*12<sup>th</sup> Meeting on Syntheses and Methodologies in Inorganic Chemistry: Trends in Nanoscience.*  
8-11 Dicembre **2003** Brixen-Bressanone (BZ).
21. **A. Gulino**, I. Fragalà  
Optical and Electronic Band-Gap Evaluation in Semiconducting Metal Oxides  
*IV Convegno Nazionale sulla Scienza e Tecnologia dei Materiali*  
29 Giugno - 2 luglio, **2003**. Ischia Porto, (NA).
20. **A. Gulino**, G. Fiorito and I. Fragalà  
Thin Films of Cobalt oxides  
*11<sup>th</sup> Meeting on Syntheses and Methodologies in Inorganic Chemistry: Trends in Nanoscience.*  
8-11 Dicembre **2002** Brixen-Bressanone (BZ).
19. **A. Gulino** and I. Fragalà  
A Novel Precursor for MOCVD of CdO Films.  
*10<sup>th</sup> Meeting on Syntheses and Methodologies in Inorganic Chemistry*  
16-19 Dicembre **2001** Brixen-Bressanone (BZ).
18. **A. Gulino**, F. Castelli, P. Dapporto, P. Rossi, I. Fragalà  
MOCVD of Cadmium Oxide Thin Films.  
III Convegno Nazionale sulla Scienza e Tecnologia dei Materiali.

18-20 Giugno 2001, Trento.

17. **A. Gulino**, I. Fragalà  
Transparent Semiconducting Thin Films of Zinc Oxide  
Proceedings of the 9<sup>th</sup> Meeting on Syntheses and Methodologies in Inorganic Chemistry, New Compounds and Materials, SAMIC 2000  
4-7 Dicembre 2000 Brixen-Bressanone (BZ)
16. **A. Gulino**, F. Castelli, P. Dapporto, P. Rossi and I. Fragalà.  
Self-Generating Liquid MOCVD Thin Film precursors.  
*Advanced Coatings & Surface Technology Alert* (C000045-110400 Copyright February 2000, John Wiley & Sons, Inc., New York, NY 10158).  
<http://library-www.larc.nasa.gov/Larc/Alerts/coatings/coatings000303>
15. **A. Gulino**, I. Fragalà  
Sintesi e Caratterizzazione Spettroscopica di Cd<sub>2</sub>SnO<sub>4</sub> Drogato con Y  
*II Convegno Nazionale sulla Scienza e Tecnologia dei Materiali*  
14-16 Ottobre 1999 Acireale (Catania)
14. **A. Gulino**, F. Castelli, P. Dapporto, I. Fragalà  
  
Novel Precursors for thin films of zinc oxide  
*XXVII Congresso di Chimica Inorganica.*  
27 Giugno-1 Luglio, 1999, Como.
13. **A. Gulino**, I. Fragalà  
  
Trasformazione Martensitica T<sub>M</sub> e Caratterizzazione Spettroscopica di Superfici di ZrO<sub>2</sub> tetragonale Drogato con Sb e Bi  
*I Convegno Nazionale della Scienza e Tecnologia dei Materiali.*  
2-4 Aprile 1997, Lerici (La Spezia).
12. **A. Gulino**, I. Fragalà  
Surface Technique application for Gas-Sensor Devices.  
Convegno Nazionale “*Sensori per Applicazioni Avanzate*”  
16-17 Maggio 1996, Brescia.
11. **A. Gulino**, R. G. Egdell, S. La Delfa, I. Fragalà  
Hydroxide Gel Route Synthesis of Tetragonal Bi-Doped Zirconia  
*Sixth Meeting Syntheses and Methodologies in Inorganic Chemistry, New compounds and Materials*, 18-21 Dicembre 1995, Bressanone (BZ).
10. **A. Gulino**, G.G. Condorelli, R.G. Egdell, I. Fragalà  
Core and Valence Level Photoemission Study of Sb-Doped TiO<sub>2</sub> Rutile.  
*II Convegno Scientifico INCM* 13-15 Febbraio 1995, Firenze.
9. **A. Gulino**  
Photoemission Studies of Doping in TiO<sub>2</sub> and SnO<sub>2</sub>  
Invited Lecturer *Solid State Seminar Series - Trinity Term*  
Inorganic Chemistry Laboratory Oxford University 17-Aprile-1994,
8. A.E. Taverner, R.G. Egdell, **A. Gulino**

Surface Electronic States in Ion Implanted TiO<sub>2</sub> (110)

14<sup>th</sup> ECOSS, University of Leipzig, Germany 19th-23th September 1994

7. R.G. Egdell, A.E. Taverner, **A. Gulino**, C. Rayden, S. Warren  
A Comparative Study of Electronic States Associated with Sb- and V- Doping in SnO<sub>2</sub> and TiO<sub>2</sub>.  
14<sup>th</sup> ECOSS, University of Leipzig, Germany 19th-23th September 1994
6. **A. Gulino**, S. Di Bella, E. Ciliberto, I. Fragala'  
Strutture Elettroniche di complessi Tris-ciclopentadienilici di Cerio(IV), Torio(IV) ed Uranio(IV): Confronto tra un approccio non-relativistico e "Full-Relativistico".  
*Convegno su Tecnologie Chimiche, Patrimonio Monumentale e Materiali Avanzati. SCI Sez. Siciliana* 11/14 Dicembre 1991 Milazzo (Messina).
5. E. Ciliberto, S. Di Bella, **A. Gulino**, I.Fragala', G. Malandrino, T. J. Marks.  
Preparazione e Caratterizzazione di Precursori Volatili per la Sintesi di Films Sottili Perowskitici tramite MOCVD.  
*Atti del convegno regionale SCI: Tecnologie Chimiche, Patrimonio Monumentale e Materiali Avanzati* P14, 13-14 Novembre, 1989 Catania.
4. E. Ciliberto, S. Di Bella, I.Fragala', **A. Gulino**  
Studio della Struttura Elettronica di Complessi Planari di Nickel(II), Palladio(II) e Platino(II) Ortofenilendiamminato mediante Calcoli ab-initio e Spettri Fotoelettronici.  
*Atti del convegno regionale SCI: Tecnologie Chimiche, Patrimonio Monumentale e Materiali Avanzati* P13, 13-14 Novembre, 1989 Catania.
3. E. Ciliberto, S. Di Bella, I.Fragala', **A. Gulino**, T. J. Marks.  
Studio Accurato della Struttura Elettronica di Alcossidi Organometallici di Ce, Th e U del Tipo (Cp)<sub>3</sub>MOCH<sub>3</sub> mediante Spettroscopia di Fotoelettroni e Calcoli Quantomeccanici di Tipo DV-X $\alpha$ .  
*Atti del convegno regionale SCI: Tecnologie Chimiche, Patrimonio Monumentale e Materiali Avanzati* P12, 13-14 Novembre, 1989 Catania.
2. E. Ciliberto, S. Di Bella, I.Fragala', **A. Gulino**, T.J. Marks.  
Studio Teorico Comparato ab-initio, Hartree-Fock-Slater e UV-PES di Composti Modello per Polimeri Conduttori Monodimensionali: Complessi Tetrazaannuleni di Nichel(II) e Palladio(II).  
*Atti del convegno regionale SCI: Tecnologie Chimiche, Patrimonio Monumentale e Materiali Avanzati* C6, 13-14 Novembre, 1989 Catania.
1. E. Ciliberto, S. Di Bella, I.Fragala', **A. Gulino**, J. L. Petersen.  
Studio della Struttura Elettronica di Complessi Metallaciclici di Titanio, Zirconio e Torio 1-Metallo-3-Silicociclobutani ( $\eta^5$ -C<sub>5</sub>H<sub>5</sub>)<sub>2</sub>M(CH<sub>2</sub>)<sub>2</sub>Si(CH<sub>3</sub>)<sub>2</sub> mediante Spettroscopia di Fotoelettroni e Calcoli Quantomeccanici di Tipo DV-X $\alpha$ .  
*Atti del convegno regionale SCI: Tecnologie Chimiche, Patrimonio Monumentale e Materiali Avanzati* C5, 13-14 Novembre, 1989 Catania