

**Elenco delle Pubblicazioni**  
**Prof. Antonino Gulino**

191. V. Patamia, E. Saccullo, V. Fuochi, S. Furnari, E. Bruno, A. Bifarella, A. Ferlazzo, R. Fiorenza, M. T. Armeli Iapichino, P. M. Furneri, **A. Gulino**, A. Rescifina, G. Floresta Natural architecture-based bio-platforms as a multi-modal approach to advanced surface preservation and microbial safety of Polylactic Acid.  
*Carbohydr. Polym.*, **2026**, Submitted.
190. V. Patamia, E. Saccullo, V. Fuochi, S. Furnari, E. Bruno, A. Bifarella, A. Ferlazzo, R. Fiorenza, M. T. Armeli Iapichino, P. M. Furneri, **A. Gulino**, A. Rescifina, G. Floresta Iapichino; Pio Maria Furneri; Antonino Gulino; Antonio Rescifina Giuseppe Floresta Xanthopterin-Loaded Kojic Acid-Functionalized  $\beta$ -Cyclodextrin Polymer Coatings for UV Shielding and Antibacterial Functionalization of 3D-Printed PLA.  
*Int. J. Biol. Macromol.*, **2026**, Submitted.
189. R. Santonocito, A. Cavallaro, M. Spinello, V. Sebastian, A. Ferlazzo, **A. Gulino**, R. Ruffino, G. Li Destri, A. Pappalardo, N. Tuccitto, G. Trusso Sfrazzetto Sensing of Human Stress Biomarkers Using BODIPY-Functionalized Carbon Nanoparticles.  
*Front. Chem., Sec. Analytical Chemistry*, **2026**, Submitted.
188. R. Santonocito, L. Russo, V. Sebastian, A. Ferlazzo, **A. Gulino**, M. Petroselli, R. Ruffino, G. Li Destri, A. Pappalardo, N. Tuccitto, A. Cavallaro, G. Trusso Sfrazzetto, Diethanolamine-Functionalized Carbon Nanoparticles for Smartphone-Based Detection of Formaldehyde.  
*ACS Omega*, Accepted, **2026**,
187. H. S. Varol, L. Di Lisa, L. Craveri, A. Pollicino, **A. Gulino**, D. Genovese, A. Tiraferri, A. Liguori, M. L. Focarete  
Chitosan-gated polycarbonate nanochannels for switchable water and cation transport.  
*Small*, submitted, **2026**,
186. A. Ferlazzo, E. Saccullo, G. Sambataro, E. Bruno, Montano, V. Abbate, S. Failla, V. Pistarà, **A. Gulino**, A. Rescifina, V. Patamia, G. Floresta Sustainable Xanthine-Grafted Alginate Biosensing Platform for Metabolic Disorder Diagnostics.  
*ACS Omega*, **2026**, submitted.
185. V. Spanò, M. Barcellona, A. Ferlazzo, M. Condorelli, L. Calantropo, R. Fiorenza, S. Scirè, **A. Gulino**, T. Defforge, G. Gautier, M. E. Fragalà  
Effect of Electrochemical Etching (ECE) parameters on the morphology and photocatalytic activity of porous 4H-SiC flakes.  
*J. Mater. Chem. A*, **2026**, *14*, 19803.  
DOI: 10.1039/d6ta01058j  
SCOPUS:  
WOS:

184. E. Saccullo, A. Ferlazzo, G. Dativo, R. Fiorenza, G. Sambataro, E. Bruno, **A. Gulino**, A. Rescifina, V. Patamia, G. Floresta  
Multifunctional Halloysite-Glutathione Nanocomposite for Solar CO<sub>2</sub> Conversion and Pollutant Sensing  
*ACS Appl. Nano Mater.*, **2026**, 9, 3941–3952  
DOI: 10.1021/acsanm.5c05781  
SCOPUS:  
WOS:
183. L. Maugeri, G. M. L. Consoli, G. Forte, G. Fangano, L. Ferreri, G. Granata, P. G. Bonacci, N. Musso, L. Lanzaò, E. Longo, M. Marelli, A. Ferlazzo, A. Gulino, S. Petralia.  
Light-triggered and nanocarrier properties of nitrogen-doped carbon nanodots  
*Mater. Adv.*, **2026**, accepted.  
DOI: 10.1039/d5ma01450f  
SCOPUS:  
WOS:
182. L. Calantropo; E. La Greca; L. F. Liotta; G. Impellizzeri; **A. Gulino**, A. Ferlazzo; L. Vitiello; S. C. Carroccio; S. Scirè, R. Fiorenza  
Solar photothermo-catalytic CO<sub>2</sub> conversion into methane: Effect of phyllosilicates on the performance of Ni-Zn-Al layered double hydroxide-derived catalysts.  
*J. CO<sub>2</sub> Utilization*, **2026**, 103 103302.  
DOI: 10.1016/j.jcou.2025.103302  
SCOPUS:  
WOS:
181. A. Cavallaro, L. Russo, V. Sebastián, R. Ruffino, G. Li-Destri, L. Ferreri, G. M. L. Consoli, **A. Gulino**, A. Ferlazzo, A. Pappalardo, R. Santonocito, M. Petroselli, N. Tuccitto, G. Trusso Sfrazzetto  
Functionalized Carbon Nanoparticles for Smartphone-Based Sensing of Formaldehyde  
*Nanoscale Advances*, **2026**, 8, 319 – 330.  
DOI: 10.1039/d5na00865d  
SCOPUS:  
WOS:001633171500001
- xxx. S. Petralia, N. Musso, M. Camarda, S. Moscato, L. Maugeri, P. Bonacci, L. Lanzaò, **A. Gulino**, S. Stefani.  
Rivestimento nanometrico per contrastare l'adesione cellulare.  
Domanda di Brevetto numero: 102025000009081 del 23/04/**2025**.
180. E. Saccullo, A. Ferlazzo, V. Fuochi, S. Furnari, R. Lombardo, L. Spitaleri, G. Sfuncia, G. Nicotra, P. M. Furneri, **A. Gulino**, R. Pignatello, A. Rescifina, V. Patamia, G. Floresta  
Halloysite-based multifunctional filler for antibacterial and anticorrosive protective coatings: a sustainable approach using kojic acid and ionic liquids.  
*Surf. Interf.*, **2025**, 77, 108023  
DOI: 10.1016/j.surfin.2025.108023  
SCOPUS: 2-s2.0-105022733694  
WOS: 001620379000008
179. A. Ferlazzo, M. Chelly, **A. Gulino**, G. Neri

- Biosensing of Urea with a Functionalised Gold Electrode.  
*J. Agric. Food Chem.*, **2025**, *73*, 25628–25635.  
DOI: 10.1021/acs.jafc.5c08426.  
SCOPUS: 2-s2.0-105018032856  
WOS: 001578256200001
- 178bis A. Ferlazzo, M. T. Armeli Iapichino, G. Calabrese, G. D'Accurso, R. Fiorenza, V. Pistarà, **A. Gulino**, A. Rescifina, V. Patamia, G. Floresta.  
Nanosensors Made of Halloysite and Kojic Acid Metal Complexes for Dopamine Detection.  
COVER  
*ACS Appl. Nano Mater.*, **2025**, *8*, 16736–16747.  
DOI:10.1021/acsanm.5c02759.  
SCOPUS: 2-s2.0-105021862311  
WOS: 001541383600001
178. A. Ferlazzo, M. T. Armeli Iapichino, G. Calabrese, G. D'Accurso, R. Fiorenza, V. Pistarà, **A. Gulino**, A. Rescifina, V. Patamia, G. Floresta.  
Nanosensors Made of Halloysite and Kojic Acid Metal Complexes for Dopamine Detection.  
*ACS Appl. Nano Mater.*, **2025**, *8*, 16736–16747.  
DOI:10.1021/acsanm.5c02759.  
SCOPUS: 2-s2.0-105021862311  
WOS: 001541383600001
177. A. B. Carbonaro, V. Greco, V. Pifferi, L. Falciola, E. Ciliberto, **A. Gulino**, A. Giuffrida  
A Novel Flow Chemistry Approach to Covalent Functionalization of 3D Graphene Aerogels.  
*ACS Omega*, **2025**, *10*, 30576–30586  
DOI:10.1021/acsomega.5c02481  
SCOPUS: 2-s2.0-105010052824  
WOS: WOS:001526328000001
176. M. T. Armeli Iapichino, M. J. Sampaio, C. Gomes Silva, J. L. Faria, **A. Gulino**, A. Ferlazzo, E. La Greca, L. F. Liotta, S. Scirè, R. Fiorenza  
Carbon Nitride photocatalyst for improved H<sub>2</sub> production in different water matrices.  
*ChemistrySelect*, **2025**, *10*, e02486  
DOI: 10.1002/slct.202502486  
SCOPUS: 2-s2.0-105010593781  
WOS: 001526489100001
175. F. Florio, A. Ferlazzo, S. Bonforte, G. Nicotra, G. Neri, I. Pinkas, M. E. van der Boom, **A. Gulino**.  
Unveiling the Sensing Ability of MoS<sub>2</sub> Nanoparticles: from Fundamental Insights into Practical Applications for Nitrites.  
*J. Mater. Chem. C*, **2025**, 11214 - 11222.  
DOI: 10.1039/D5TC01165E  
SCOPUS: 2-s2.0-105004644304  
WOS:001482647300001

174. F. Florio, R. Fiorenza, A. Ferlazzo, M. E. Fragalà, M. Barcellona, **A. Gulino**  
Boosting Photocatalytic Hydrogen Evolution via Synergistic Effects between 4H-SiC  
and Tetrapyridylporphyrin.  
*Mater. Today Sust.*, **2025**, 31, 101171.  
DOI:10.1016/j.mtsust.2025.101171  
SCOPUS: 2-s2.0-105009593455  
WOS: 001527955100002
173. N. Burduja, G. Nocito, M. Trapani, A. Riminucci, R. Di Corato, A. Nicosia, **A. Gulino**,  
P. G. Mineo, A. Mazzaglia.  
A Supramolecular Assembly Made with Sulfobutylether- $\beta$ -cyclodextrin and Magnetic  
Fe<sub>3</sub>O<sub>4</sub> Showing Water Remediation Properties.  
*J. Molecular Liquids*, **2025**, 429, 127625.  
DOI: 10.1016/j.molliq.2025.12762.  
SCOPUS: 2-s2.0-105003711602  
WOS:
172. E. Saccullo, V. Patamia, A. Bifarella, A. Ferlazzo, R. Fiorenza, L. Spitaleri, G. Sfuncia,  
G. Nicotra, C. Zagni, M. T. Armeli Iapichino, **A. Gulino**, G. Floresta, A. Rescifina  
Conversion of VOC-Derived CO<sub>2</sub> into Sustainable Products with a Natural Magnetic  
Alginate Composite  
*Int. J. Biol. Macromol.*, 304, **2025**, 140695.  
DOI: 10.1016/j.ijbiomac.2025.140695  
SCOPUS: 2-s2.0-85217084327  
WOS:001425904200001
171. R. Fiorenza, L. Calantropo, E. La Greca, L. F. Liotta, **A. Gulino**, A. Ferlazzo, M. G.  
Musumeci, G. Proietto Salanitri, S. C. Carroccio, G. Dativo, M. T. Armeli Iapichino, S.  
Scirè, G. Impellizzeri.  
Solar-promoted photo-thermal CO<sub>2</sub> methanation on SiC/hydrotalcites-derived catalysts.  
*Catal. Today*, **2025**, 449, 115182.  
DOI: 10.1016/j.cattod.2024.115182  
SCOPUS: 2-s2.0-85213944334  
WOS:001407787200001
170. L. Maugeri, G. Fangano, A. Ferlazzo, G. Forte, **A. Gulino**, S. Petralia  
A DNA biosensor integrating surface hybridization, thermo-responsive coating, laminar-  
flow technology and localized photothermal effect for efficient electrochemical detection  
of nucleic acids.  
*Sens. Diagn.*, **2024**, 3, 1966–1975.  
DOI: 10.1039/d4sd00288a  
SCOPUS: 2-s2.0-85211071633  
WOS:001337344000001
169. S. Lo Schiavo, **A. Gulino**, M. E. Fragala, P. Mineo, A. Nicosia, R. H. Alia, P. Calorenni,  
A. Ferlazzo, M. S. Nicolò, F. De Leo, L. Falqui, C. Urzi.  
A Sulfobetaine Containing-Polymethylmethacrylate Surface Coating as an Excellent  
Antifouling Agent against *Chlorella* sp.  
*Prog. Org. Coat.*, **2024**, 199, 108940.  
DOI: 10.1016/j.porgcoat.2024.108940  
SCOPUS: 2-s2.0-85210061345

WOS: 001368635500001

168. A. Ferlazzo, **A. Gulino**, G. Neri  
Scandia-doped zirconia for the electrochemical detection of hazardous dihydroxybenzene (DHB) isomers in water.  
*Environmental Science: Advances*, 3, **2024**, 1392–1399.  
DOI: 10.1039/d4va00126e  
SCOPUS: 2-s2.0-85201092624  
WOS: 001286488400001
167. M. Failla, A. Ferlazzo, V. Abbate, G. Neri, E. Saccullo, **A. Gulino**, A. Rescifina, V. Patamia, G. Floresta.  
THP as a sensor for the electrochemical detection of H<sub>2</sub>O<sub>2</sub>.  
*Bioorg. Chem.*, **2024**, 152, 107721.  
DOI: 10.1016/j.bioorg.2024.107721  
SCOPUS: 2-s2.0-85201715010  
WOS:001301274600001
166. A. Ferlazzo, S. Bonforte, F. Florio, S. Petralia, L. Sorace, B. Muzzi, A. Caneschi, **A. Gulino**.  
Photochemical Eco-Friendly Synthesis of Photothermal and Emissive Copper Nanoclusters in Water: Towards Sustainable Nanomaterials.  
*Mater. Adv.*, **2024**, 5, 8034–8041  
DOI: 10.1039/d4ma00401a  
SCOPUS: 2-s2.0-85201779426  
WOS: 001292514200001
165. R. Puglisi, L. M. Mancuso, R. Santonocito, **A. Gulino**, V. Oliveri, R. Ruffino, G. Li Destri, V. Muccilli, N. Cardullo, N. Tuccitto, A. Pappalardo, G. Sfuncia, G. Nicotra, M. Petroselli, F. Pappalardo, V. Zaccaria, G. Trusso Sfrassetto  
Dopamine sensing by fluorescent carbon nanoparticles synthesized by artichoke extract.  
*J. Mater. Chem. B*, **2024**, 12, 7826–7836.  
DOI: 10.1039/d4tb00651h  
SCOPUS: 2-s2.0-85199568114  
WOS: 001274027900001
164. D. Fieser, Y. Lan, **A. Gulino**, G. Compagnini, D. Aaron, M. Mench, D. Bridges, H. Shortt, P. Liaw, A. Hu.  
Synthesis and Unique Behaviors of High-Purity HEA Nanoparticles Using Femtosecond Laser Ablation.  
*Nanomaterials*, **2024**, 14, 554.  
DOI: 10.3390/nano14060554  
SCOPUS: 2-s2.0-85188921165  
WOS:001192722500001
163. G. M. L. Consoli, L. Maugeri, **A. Gulino**, L. D’Urso, G. Forte, G. Buscarino, P. Bonacci, N. Musso, S. Petralia  
One-Pot Synthesis of Luminescent and Photothermal Carbon Boron-Nitride Quantum Dots Exhibiting Cell Damage Effect.  
*Adv. Healthcare Mater.* **2024**, 2303692.  
DOI: 10.1002/adhm.202303692

SCOPUS: 2-s2.0-85188962783  
WOS:001193252500001

162. M. T. Armeli Iapichino, R. Fiorenza, V. Patamia, G. Floresta, **A. Gulino**, M. Condorelli, G. Compagnini, S. Sciré  
H<sub>2</sub> Production by solar photoreforming of plastic materials using SiC-g-C<sub>3</sub>N<sub>4</sub> composites.  
*Catal. Commun.*, **2024**, 187, 106850.  
DOI:10.1016/j.catcom.2024.106850  
SCOPUS: 2-s2.0-85182871109  
WOS:001174125900001
161. L. Zhang, D. Fieser, Y. Li, B. Bera, D. Aaron, J. Chen, **A. Gulino**, G. Compagnini, Z. Feng, M. M. Mench. A. Hu.  
High Performance Aluminum-Air Flow Batteries through Double-Face Architecture and Laser-Modified and Friction-stir Processed 3D Anode.  
*J. Power Sources*, **2024**, 589, 233752.  
DOI:10.1016/j.jpowsour.2023.233752  
SCOPUS: 2-s2.0-85175261741  
WOS:001165543200001
160. G. M. L. Consoli, L. Maugeri, G. Forte, G. Buscarino, **A. Gulino**, L. Lanzaò L. P. Bonacci, N. Musso, S. Petralia  
Red light-triggerable nanohybrids of graphene oxide, gold nanoparticles and thermo-responsive polymers for combined photothermia and drug release effects.  
*J. Mater. Chem. B* **2024**, 12, 952–961.  
DOI: 10.1039/d3tb01863f  
SCOPUS: 2-s2.0-85177881015  
WOS:001103474300001
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: 2-s2.0-85159163573  
WOS:000987889500001
158. V. Iacono, M. Scuderi, M. L. Amoroso, **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: 001510838100011
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:000979561700001

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*, **2023**, 413-415, 113949.  
DOI: 10.1016/j.cattod.2022.11.010  
SCOPUS: 2-s2.0-85141777495  
WOS:000955358200001
- 142bis. D. Scirè, P. Procel, **A. Gulino**, O. Isabella, M. Zeman, I. Crupi  
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 Sfrassetto.  
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
148. **A. Gulino**, G. Papanikolaou, P. Lanzafame, S. Patanè, P. Primerano, L. Spitaleri, C.  
Triolo, Z. Dahrouch, A. Khaskhoussi, S. Lo Schiavo  
Synthesis, Characterization and Photocatalytic Behavior of SiO<sub>2</sub>@nitrided-TiO<sub>2</sub>  
Nanocomposites Obtained by a Straightforward Novel Approach.  
*ChemistryOpen*, **2021**, 10, 1033–10.  
DOI: 10.1002/open.202100157.  
SCOPUS: 2-s2.0-85118229393  
WOS:000711512400017
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
- xxx. G. Benfatto, F. Drago, L. Longo, S. Mansueto, L. Gozzo, D.C. Vitale, S. Amato, F.  
Basile, A. Blanco, V. Borzi, P. Cavallaro, S. Cilia, M. Conti, C. Cristaudo, L.D. Daidone,  
S. Di Fazio, M. Di Mauro, R. Garozzo, G. Giardina, A. Gulino, L. Iachelli, M.L. La  
Bella, A. La Rosa, A. Lazzara, F. Leonardi, F. Lo Monaco, L. Malatino, T. Mattina, M.  
Negro, F. Palermo, S. Puleo, R. Raciti, M. Ruggieri, A. Sapuppo, R. Scillieri, S.  
Squatrito, F. Tanasi,

Regulatory, Scientific, and Ethical Issues Arising from Institutional Activity in one of the 90 Italian Research Ethics Committees.

*BMC Medical Ethics*, **2021**, 22, Article number 40.

DOI:10.1186/s12910-021-00605-7

SCOPUS: 2-s2.0-85103994654

WOS:

- xxx. R. O'Leary, R. Polosa, G. Li Volti, S. Alaimo, C.D. Anfuso, I. Barbagallo, F. Basile, S. Battiato, G. Bertino, A. Bianchi, A.G. Biondi, M.L. Brandi, E. Cacciola, R.R. Cacciola, B.S. Cacopardo, A.E. Calogero, M.T. Cambria, D. Campagna, F. Caraci, A. Cariola, M. Caruso, P. Caponnetto, F. Cibella, M. Di Mauro, S. Di Nuovo, A. Di Stefano, F. Drago, S. Failla, R. Faraci, S. Ferlito, M. Ferrante, A. Ferro, G.A. Ferro, F. Frasca, L. Frittitta, P.M. Furneri, G. Gallo, F. Galvano, A. Gagliano, G. Grasso, F. Guarino, **A. Gulino**, E.A. Jannini, S.L.A. Vignera, G. Lazzarino, A. Longo, G. Lupo, M. Malerba, L. Marletta, G. Nicolosi, F. Nocera, G. Oliveri Conti, R. Parenti, A. Pulvirenti, F. Purrello, F. Rapisarda, V. Rapisarda, M. Reibaldi, R. Rizzo, S. Ronsisvalle, M. Ruggieri, M.C. Santagati, C. Satriano, L. Sciacca, M.S. Signorelli, M. Tatullo, D. Tibullo, V. Tomaselli, L. Zanolì, A. Zappala.

Critical appraisal of the European Union Scientific Committee on Health, Environmental and Emerging Risks (SCHEER) Preliminary Opinion on electronic cigarettes

*Harm Reduction Journal*, **2021**, 18,31.

DOI: 10.1186/s12954-021-00476-6

SCOPUS: 2-s2.0-85102524335

WOS:

146. D. Scirè, R. Macaluso, M. Mosca, S. Mirabella, **A. Gulino**, O. Isabella, M. Zeman, I. Crupi

Characterization of the defect density states in MoO<sub>x</sub> 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: 000709200800005

- 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/acsami.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. Scirè,  
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. Scirè

- 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.

- Multitopic 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-TiP-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 simulants 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-β-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. Evemenko, 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  
WOS:000322254100022
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 Sfrazzetto, 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  $\text{H}_3\text{O}^+$  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  $\text{Co}(\text{hfac})_2$  Adduct with Monoglyme: a Useful Precursor for Thin Films of  $\text{CoO}$ .  
*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  $\text{NO}_2$  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  $\text{Co}_3\text{O}_4$  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  $\text{CdO}$ .  
*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) hydrocarbonyl 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-methylidyne)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. Bertoncetto, M. Bertinelli, M. Casarin, **A. Gulino**, E. Tondello, A. Vittadini.  
-Zn<sub>4</sub>O(acetate)<sub>6</sub> Well Tailored Molecular Model of ZnO. An Experimental and Theoretical Investigation of the Electronic Structure of Zn<sub>4</sub>O(acetate)<sub>6</sub> 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: NOT FOUND  
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. Fragala'  
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. Fragala'  
An Investigation of the Electronic Structure of Bis( $\eta^5$ -cyclopentadienyl) Dicarbonyl 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**

- 97) A. Ferlazzo, S. Bonforte, S. Petralia, L. Sorace, B. Muzzi, A. Caneschi, **A. Gulino**.  
A Photochemical pathway towards green functional nanostructures”,  
III Convegno Nazionale della Divisione di Chimica per le Tecnologie della SCI e XIV  
Convegno Nazionale dell’Associazione Italiana di Chimica per Ingegneria-AICIng  
Milazzo, 1- 4 settembre **2025**; OC23.
- 96) A. Ferlazzo, S. Bonforte, S. Petralia, L. Sorace, B. Muzzi, A. Caneschi, **A. Gulino**.  
Eco-friendly synthesis of stable and functional copper nanocluster.  
Inorg25, 50° congresso nazionale chimica inorganica; 9-12 Settembre **2025** PO41.
- 95) N. Burduja, G. Nocito, M. Trapani, A. Riminucci, A. Gulino, A. Nicosia, P. Mineo, A.  
Mazzaglia. MNPs@Captisol assemblies for magnetic water remediation.  
21st International Cyclodextrin Symposium (ICS21) Dunkerque, France, June 10-14,  
**2024**.
- 94) A. Ferlazzo, **A. Gulino**, G. Neri  
Gold electrode functionalization for the development of a biosensor for urea monitoring  
AISEM: XXII Conferenza Nazionsle Sensori e Microsistemi, Bologna 7-9/2/**2024**.
- 93) A. Ferlazzo, A. Gulino, G. Neri.  
Scandia effect on zirconia based electrochemical sensors for the detection of  
dihydroxybenzene isomers.  
XLIX Congresso Nazionale di Chimica Inorganica. Perugia 12-15 settembre **2023**.
- 92) A.B. Carbonaro, D. Fumagalli, V. Greco, **A. Gulino**, V. Pifferi, L. Falciola, A. Giuffrida.  
Tuning the surface chemistry of 3d graphene hydrogels by covalent functionalization: a  
flow chemistry approach. MRS Boston, November **2023**.
- 91) **A. Gulino**  
Funzionalizzazione chimica di adatti substrati per l’ancoraggio del target e suo  
riconoscimento molecolare, dopo ulteriore funzionalizzazione, tramite indagini ottiche.  
PKU-SMART-SENSOR: piattaforma integrata per il self-monitoring della fenilalanina in  
pazienti PKU. 4 Maggio, **2023**, DIEEI, Aula Magna Oliveri, Via S. Sofia, 64, Catania
- 90) V. Iacono, M. Scuderi, M. Amoruso, **A. Gulino**, F. Ruffino, S. Mirabella  
Efficient oxygen evolution reaction catalyzed by Ni/NiO nanoparticles produced by  
pulsed laser ablation in liquid environment.  
*E-MRS*, Fall Meeting, May 29<sup>th</sup> - June 2<sup>nd</sup>, **2023**.
- 89) 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, 19<sup>th</sup> – 22<sup>nd</sup> September **2022**.
- 88) L. Spitaleri, M. Zimbone, G. Cacciato, R. G. Egdell, M. G. Grimaldi and **A. Gulino**.  
Photocatalytic Properties of Sb-doped TiO<sub>2</sub> for Water Purification.

XLVIII Italian Conference of Inorganic Chemistry.  
Pisa, 6-9 September **2022**.

- 87) 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 30<sup>th</sup> – June 3<sup>rd</sup> **2022**.
- 86) L. Spitaleri, **A. Gulino**  
Self-assembly of Gold Nanoparticles on Porphyrin Monolayers Anchored on Inorganic Substrates.  
*E-MRS 2022*, Spring Meeting, May 30<sup>th</sup> – June 3<sup>rd</sup> **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**.  
The Israel Academy of Sciences and Humanities; The American Foundation for Basic Research in Israel; Agricultural Research Organization, Volcani Center, Derech HaMaccabim 68, Rishon LeTsiyon, Israele.
82. D. Scirè, R. Macaluso, M. Mosca, S. Mirabella, **A. Gulino**, O. Isabella, M. Zeman, I. Crupi.  
Characterization of defect density states in MoOx 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. Egddell 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, Korea
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. Pistrà  
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→M 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. Fragalà  
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. Fragalà, 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 Alcolossidi 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