

List of Publications

1. G. Consiglio, **I. P. Oliveri**, S. Cacciola, G. Maccarrone, S. Failla and S. Di Bella
Dinuclear zinc(II) salen-type Schiff-base complexes as molecular tweezers
Dalton Trans., **2020**, 49, 5121 (<http://dx.doi.org/10.1039/d0dt00494d>)
2. G. Consiglio, **I. P. Oliveri**, S. Failla and S. Di Bella
On the Aggregation and Sensing Properties of Zinc(II) Schiff-Base Complexes of Salen-Type Ligands
Molecules, **2019**, 24, 2514 (<http://dx.doi.org/10.3390/molecules24132514>)
3. **I. P. Oliveri**, G. Malandrino, S. Mirabella and S. Di Bella
Vapochromic and chemiresistive characteristics of a nanostructured molecular material composed of a zinc(II)-salophen complex
Dalton Trans., **2018**, 47, 15977 (<http://dx.doi.org/10.1039/c8dt03904f>)
4. G. Consiglio, **I. P. Oliveri**, S. Failla, and S. Di Bella
Supramolecular Aggregation of a New Substituted Bis(salicylaldiminato)zinc(II) Schiff-Base Complex Derived from trans-1,2-Diaminocyclohexane
Inorganics **2018**, 6, 8 (<http://dx.doi.org/10.3390/inorganics6010008>)
5. **I. P. Oliveri**, G. Forte, G. Consiglio, S. Failla, and S. Di Bella
Aggregates of Defined Stereochemical Scaffolds: A Study in Solution of a Zinc(II) Schiff Base Complex Derived from the Enantiopure trans-1,2-Cyclopentanediamine
Inorg. Chem. **2017**, 56, 14206–14216. (<http://dx.doi.org/10.1021/acs.inorgchem.7b02341>)
6. **I. P. Oliveri**,* and S. Di Bella
Lewis basicity of relevant monoanions in a non-protogenic organic solvent using a zinc(II) Schiff-base complex as a reference Lewis acid
Dalton Trans., **2017**, 46, 11608–11614. (<http://dx.doi.org/10.1039/C7DT02821K>)
7. G. Forte, **I. P. Oliveri**, G. Consiglio, S. Failla, and S. Di Bella
On the Lewis acidic character of bis(salicylaldiminato)zinc(II) Schiff-base complexes: a computational and experimental investigation on a series of compounds varying the bridging diimine
Dalton Trans., **2017**, 46, 4571–4581. (<http://dx.doi.org/10.1039/c7dt00574a>)
8. G. Consiglio, **I. P. Oliveri**, S. Failla, and S. Di Bella
Supramolecular Aggregates of Defined Stereochemical Scaffolds: Aggregation/Deaggregation in Schiff-Base Zinc(II) Complexes Derived from Enantiopure trans-1,2-Diaminocyclohexane
Inorg. Chem. **2016**, 55, 10320–10328. (<http://dx.doi.org/10.1021/acs.inorgchem.6b01580>)
9. S. Mirabella, **I. P. Oliveri**, F. Ruffino, G. Maccarrone, and S. Di Bella
Low-cost chemiresistive sensor for volatile amines based on a 2D network of a zinc(II) Schiff-base complex
Appl. Phys. Lett. **2016**, 109, 143108-1 - 143108-4. (<http://dx.doi.org/10.1063/1.4963790>)

10. M. Gaeta, I. P. Oliveri, M. E. Fragalà, S. Failla, A. D'Urso, S. Di Bella and R. Purrello
Chirality of self-assembled achiral porphyrins induced by chiral Zn(II) Schiff-base complexes and maintained after spontaneous dissociation of the templates: a new case of chiral memory
Chem. Commun. **2016**, 52, 8518-8521. (<http://dx.doi.org/10.1039/c6cc04018g>)
11. A. Contino, G. Maccarrone, M. Zimbone, R. Reitano, P. Musumeci, L. Calcagno, and **I. P. Oliveri**
Tyrosine capped Silver Nanoparticles: a new fluorescent sensor for the quantitative determination of copper(II) and cobalt(II) ions
J. Colloid Interface Sci. **2016**, 462, 216-222. (<http://dx.doi.org/10.1016/j.jcis.2015.10.008>)
12. F. Giannazzo, G. Fisichella, A. Piazza, S. Di Franco, **I. P. Oliveri**, S. Agnello and F. Roccaforte
Current injection from metal to MoS₂ probed at nanoscale by conductive atomic force microscopy
Materials Science in Semiconductor Processing **2016**, 42, 174-178.
(<http://dx.doi.org/10.1016/j.mssp.2015.07.062>)
13. G. Consiglio, **I. P. Oliveri**, F. Punzo, A. L. Thompson, S. Di Bella and S. Failla
Structure and aggregation properties of a Schiff-base zinc(II) complex derived from cis-1,2-diaminocyclohexane
Dalton Trans. **2015**, 44, 13040-13048. (<http://dx.doi.org/10.1039/C5DT01148E>)
14. **I. P. Oliveri**, G. Malandrino and S. Di Bella
Phase Transition and Vapochromism in Molecular Assemblies of a Polymorphic Zinc(II) Schiff-Base Complex
Inorg. Chem. **2014**, 53, 9771-9777. (<http://dx.doi.org/10.1021/ic5013632>)
15. C. Dragonetti, A. Colombo, F. Nisic, D. Marinotto, **I. P. Oliveri**, S. Righetto, M. G. Lobello and F. De Angelis
Unexpected high second-order nonlinear optical properties of simple Ru and Pt alkynyl complexes as an analytical springboard for NLO-active polymer films
Chem. Commun. **2014**, 50, 7986-7989. (<http://dx.doi.org/10.1039/C4CC02432J>)
16. **I. P. Oliveri**, G. Malandrino and S. Di Bella
Self-assembled nanostructures of amphiphilic Zinc(II) salophen complexes: role of the solvent on their structure and morphology
Dalton Trans. **2014**, 43, 10208-10214. (<http://dx.doi.org/10.1039/C4DT00973H>)
17. **I. P. Oliveri**, S. Failla, A. Colombo, C. Dragonetti, S. Righetto and S. Di Bella
Synthesis, Characterization, Optical Absorption/Fluorescence Spectroscopy, and Second-Order Nonlinear Optical Properties of Aggregate Molecular Architectures of Unsymmetrical Schiff-Base Zinc(II) Complexes
Dalton Trans. **2014**, 43, 2168-2175. (<http://dx.doi.org/10.1039/C3DT53072H>)
18. **I. P. Oliveri**, S. Failla, G. Malandrino and S. Di Bella
Controlling the Molecular Self-Assembly into Nanofibers of Amphiphilic Zinc(II)-Salophen Complexes
J. Phys. Chem. C **2013**, 117, 15335-15341. (<http://dx.doi.org/10.1021/jp4038182>)

19. G. Consiglio, S. Failla, P. Finocchiaro, **I. P. Oliveri** and S. Di Bella
An Unprecedented Structural Interconversion in Solution of Aggregate Zinc(II) Salen Schiff-Base Complexes
Inorg. Chem. **2012**, *51*, 8409-8418. (<http://dx.doi.org/10.1021/ic300954y>)
20. S. Di Bella, **I. P. Oliveri**, A. Colombo, C. Dragonetti, S. Righetto and D. Roberto
An unprecedented switching of the second-order nonlinear optical response in aggregate bis(salicylaldiminato)zinc(II) Schiff-base complexes
Dalton Trans. **2012**, *41*, 7013-7016. (<http://dx.doi.org/10.1039/c2dt30702b>)
21. G. Consiglio, S. Failla, P. Finocchiaro, **I. P. Oliveri** and S. Di Bella
Aggregation Properties of Bis(salicylaldiminato)zinc(II) Schiff-Base Complexes and their Lewis Acidic Character
Dalton Trans. **2012**, *41*, 387-395. (<http://dx.doi.org/10.1039/c1dt11295c>)
22. **I. P. Oliveri** and S. Di Bella
Sensitive Fluorescent Detection and Lewis Basicity of Aliphatic Amines
J. Phys. Chem. A **2011**, *115*, 14325-14330. (<http://dx.doi.org/10.1021/jp2066265>)
23. **I. P. Oliveri** and S. Di Bella
Highly Sensitive Fluorescent Probe for Detection of Alkaloids
Tetrahedron **2011**, *67*, 9446-9449. (<http://dx.doi.org/10.1016/j.tet.2011.09.100>)
24. **I. P. Oliveri**, G. Maccarrone and S. Di Bella
A Lewis Basicity Scale in Dichloromethane for Amines and Common Nonprotogenic Solvents Using a Zinc(II) Schiff-Base Complex as Reference Lewis Acid
J. Org. Chem. **2011**, *76*, 8879-8884. (<http://dx.doi.org/10.1021/jo2016218>)
25. **I. P. Oliveri**, S. Failla, G. Malandrino and S. Di Bella
New Molecular Architectures by Aggregation of Tailored Zinc(II) Schiff-Base Complexes
New J. Chem. **2011**, *35*, 2826-2831. (<http://dx.doi.org/10.1039/c1nj20618d>)
26. G. Consiglio, S. Failla, P. Finocchiaro, **I. P. Oliveri**, R. Purrello and S. Di Bella
Supramolecular Aggregation/Deaggregation in Amphiphilic Dipolar Schiff-Base Zinc(II) Complexes
Inorg. Chem. **2010**, *49*, 5134-5142. (<http://dx.doi.org/10.1021/ic100284r>)
27. G. Consiglio, S. Failla, **I. P. Oliveri**, R. Purrello and S. Di Bella
Controlling the Molecular Aggregation. An Amphiphilic Schiff-Base Zinc(II) Complex as Supramolecular Fluorescent Probe
Dalton Trans. **2009**, 10426-10428. (<http://dx.doi.org/10.1039/b914930a>)

List of congresses

1. **I. P. Oliveri**, G. Consiglio, G. Munzi, S. Failla and S. Di Bella
Tunable transmetalation properties of a new Lewis acidic Zn(II) Schiff-base complex
[*IX Workshop Nazionale AICIng*](#), “Chemistry for sustainable materials”, Ancona, 16-17 June 2022, **O9**.
ISBN 978-88-3623-094-5
2. **I. P. Oliveri**, G. Forte, G. Consiglio, S. Failla, and S. Di Bella
Synthesis, aggregation properties, and computational investigation on a series of bis(salicylaldiminato)zinc(II) Schiff-base complexes varying the bridging diimine
[*VII Workshop Nazionale AICIng*](#), “Smart Materials for Technology: Preparation, Self-Assembly, Characterization, Modeling”, Milano, 12-13 June 2017, **O9**, 21.
ISBN 978-88-6584-960-3
3. S. Mirabella, **I. P. Oliveri**, F. Ruffino, G. Maccarrone, and S. Di Bella
A nanostructured Zn(II) Schiff-base complex for chemoresistive sensing of volatile amines
[*E-MRS 2017 Spring Meeting*](#), Symposium V - Design and hierarchical assemblies of nanomaterials (nanoparticles, carbon materials, molecules) towards energy, sensing, electronic, catalysis and detection applications, Strasbourg (France), 22-26 May 2017, **V.3.7**.
4. M. Gaeta, **I. P. Oliveri**, M. E. Fragalà, S. Failla, A. D’Urso, S. Di Bella, R. Purrello
Exploiting the spontaneous dissociation of chiral Zn(II) Schiff-base complexes to memorize chirality in self-assembled achiral porphyrins
Società Chimica Italiana WorkShop delle Sezioni Sicilia e Calabria 2016-17, Messina 9-10 February 2017, **CO-3**.
5. S. Mirabella, **I. P. Oliveri**, F. Ruffino, G. Maccarrone, and S. Di Bella
A Vapochromic and Chemoresistive Molecular Material for Sensing Volatile Amines
[*Materials.it 2016*](#), Catania, December 2016, **O104**, 83-84.
6. G. Consiglio, **I. P. Oliveri**, S. Di Bella, S. Failla and P. Finocchiaro
Aggregates of defined stereochemical scaffolds: aggregation of Schiff-base zinc(II) complexes derived from trans-1,2-diaminocyclohexane
[*X Congresso nazionale AICIng 2016*](#), Udine, September 2016, P48, 168.
ISBN 978 8879 59 9177
7. G. Consiglio, **I. P. Oliveri**, F. Punzo, S. Di Bella and S. Failla
Synthesis, X Ray Structure and aggregation properties of a Zinc(II) salen Schiff-Base complex derived from cis-1,2-cycloexanediamine
[*VI Workshop Nazionale AICIng 2015*](#), Roma, June 2015, **P17**, 68.
ISBN: 9788879598774
8. G. Consiglio, S. Di Bella, S. Failla, **I. P. Oliveri**, and P. Finocchiaro
Synthesis, characterization and aggregation properties of a Zinc(II) salen Schiff-Base complex derived from 1,2-cycloexanediamine
[*IX Convegno AICIng 2014*](#), Lecce, September 2014, **P18**, 76.
e-ISBN: 978-88-8305-105-0

9. **I. P. Oliveri**, S. Di Bella, S. Failla
Aggregation/deaggregation properties of ZnII Schiff-Base complexes and their applications as molecular probes, nonlinear optical materials and building blocks for new supramolecular architectures
[*VIII Convegno AICing 2012*](#), Aci Castello (CT), September **2012**, **O3**, 17-19.
ISBN 978-88-7051-226-7
10. **I. P. Oliveri**, S. Di Bella, G. Consiglio, S. Failla, P. Finocchiaro
Zinc(II) salen Schiff-base Zinc (II) complexes: unprecedented aggregation behaviour in solution
[*VIII Convegno AICing 2012*](#), Aci Castello (CT), September **2012**, **P27**, 115-116.
ISBN 978-88-7051-226-7
11. **I. P. Oliveri** and S. Di Bella
ZnII Schiff base molecular materials: highly sensitive fluorescent probe for detection of alkaloids
VIII Convegno Nazionale sulla Scienza e Tecnologia dei Materiali, Aci Castello (CT) June **2011**, **P67**.
ISBN 978-88-86038-99-7
12. S. Failla, P. Finocchiaro, G. Consiglio, **I. P. Oliveri**, R. Purrello, S. Di Bella
Synthesis, characterization and aggregation/deaggregation properties of amphiphilic Schiff-base Zinc (II) complexes
VII Convegno AICing 2010, Bressanone, September **2010**, **P63**, 247-248.
13. **I. P. Oliveri**, G. Consiglio, S. Failla, R. Purrello, S. Di Bella
Studio dell'aggregazione molecolare di complessi anfifilici di zinco(II) derivati da derivati di Schiff: "Probes" supramolecolari fluorescenti di composti N-eterociclici
Convegno SCI Sezioni Calabria e Sicilia 2009, Catania, December **2009**, **O32**.
14. **I. P. Oliveri**, G. Consiglio, S. Failla, R. Purrello, S. Di Bella
An amphiphilic Schiff-base Zinc(II) complex as supramolecular fluorescent probe for N-heterocycles
Convegno SAMIC 2009, INSTM-Bressanone, **2009**, **P14**.