

Prof. Sylvie FERLAY-CHARITAT

e-mail : ferlay@unistra.fr

Date of birth: 13th June 1969.

French. Married, two children

ACTUAL POSITION

Since 06/11- "Professeur des Universités" (Full professor) at the University of Strasbourg.

01/99-06/11 : Maître de conférences (assistant professor) at the University of Strasbourg

Research : Laboratoire de Tectonique moléculaire du Solide (Pr. W. Hosseini, UMR 7410).

EDUCATION

2004: Habilitation à Diriger les recherches (Université Louis Pasteur, Strasbourg).

Title : "Functionnal materials obtained through crystal engineering", defended on 02/11/04-

1996 : PhD, Université Pierre et Marie Curie (Paris VI, Jussieu)

Date of PhD defense : **04/10/1996**

Mention très honorable et félicitations du Jury

Specialised in Inorganic Chemistry

Title : "Hexacyanochromate (III), precursor for materials of controlled dimensionnality : a rationnal way from molecules to magnets"

- **This work was awarded in December 1997 by a "Marie-Louise ARCONATI-VISCONTI" prize in "Sciences" and delivered by the Chancellerie des Universités de Paris.**

1993: Université Louis Pasteur, Strasbourg

D.E.A de Chimie-Physique, mention bien Specialised in material chemistry, surface and reativity

1990-1993: Ecole Européenne des Hautes Etudes des Industries Chimiques de Strasbourg (E.H.I.C.S), Strasbourg

Diplôme d'ingénieur Specialised in material chemistry; Equivalent to engineer

RESEARCH EXPERIENCE

1993 (September - January): D.E.A

Laboratory: "IPCMS" (Institut de Physique et de Chimie de Strasbourg)

Subject: "Métal-spinel composites, magnetic and structural studies"

Responsable: Dr. M. Drillon and Dr. G. Pourroy.

1993 (September) - 1996 (October): PhD

Laboratory: "Chimie des métaux de transition", Groupe des Matériaux Magnétiques Moléculaires, Université Pierre et Marie Curie, Paris.

Subject: "Study of Molecular Based Magnets. Bimetallic cyanide bridged systems"

Responsable: Pr. M. Verdaguer and Dr. T. Mallah

1996 (October) - 1998 : postdoctoral position

Laboratory: "Departement für Chemie und Biochemie", Gruppe Decurtins, University of Bern.

Subject: "Study of Molecular Material : photophysics" Responsable: Pr. S. Decurtins

ADMINISTRATION, TEACHING & RESPONSABILITIES

- Member of Conseil Scientifique de l'Université Louis Pasteur since November 2006.

- Member of teaching commission of the Faculté de Chimie

- Member of the recruiting commission of ULP, chemistry

- Responsable for the Licence Mathématiques Physique Chimie since September 2005.

- Responsable for the Master Physical Chemistry and Materials since September 2013.

- Member of the CrystEngComm Advisory Board

SCIENTIFIC PRODUCTION

93 PUBLICATIONS, CITATIONS : 3396, H INDEX=27

20 Invited conferences and seminars

Supervision of 8 Ph.D.

Supervision of 3 post-doctoral students.

PRIZES AND AWARD

* Ph.D work prize "Marie-Louise ARCONATI-VISCONTI" in "Sciences" and delivered by the Chancellerie des Universités de Paris. (1997)

* IUF Junior Member (2010-2015)-PES (honour distinction for outstanding scientist)

* "Chevalier de L'Ordre National du Mérite » november 2013

- [99] « **Solid-State Decarboxylation of Cyclophane Tetra(malonatemethylene) Derivative»**
M. N. Gabdulkhaev, V. V. Gorbatchuka, M. A. Ziganshin, A. V. Buzyurov, I. S. Antipin, S. E. Solovieva, A. S. Ovsyannikov, S. Ferlay, M. W. Hosseini, *Russ. J. Gen. Chem.*, **2022**, 92, 1250–1256 , (IF : **0.779**)
DOI: [10.1134/S107036322207012X](https://doi.org/10.1134/S107036322207012X)
- [98] « **Crystalline Assembly and Solvent-induced Solid-state Transformation of 1D Zigzag Chains Based on Sulfonylcalix[4]arene Trinuclear Co (II) and Zn (II) Clusters »**
M. V. Kniazeva, A. S. Ovsyannikov, D. R. Islamov, A. I. Samigullina, A. T. Gubaidullin, P. V. Dorovatovskii, S. E. Solovieva, I. S. Antipin, S. Ferlay, *Eur. J. Inorg. Chem.*, **2022**, (IF : **2.551**) doi: [10.1002/ejic.202200464](https://doi.org/10.1002/ejic.202200464)
- [97] « **Using chiral ammonium cations to modulate the structure of 1D hybrid lead bromide perovskites for linearly polarized broadband light emission at room temperature »**
A. Jouaiti, N. Gruber, G. Delport, G. Trippé-Allard, J-F. Guillemoles, E. Deleporte, S. Ferlay, D. Garrot, *J. Mater. Chem. C*, **2022**, 10, 12436-12443. (IF : **8.067**) doi: [10.1039/d2tc02040h](https://doi.org/10.1039/d2tc02040h)
- [96] « **An accurate vibrational signature in halogen bonded molecular crystals »**
H. Kalout, Z. Boubegtiten-Fezoua, F. Maurel, P. Hellwig, S. Ferlay, *Phys. Chem. Chem. Phys.*, **2022**, 24, 15103-15109. (IF : **4.449**) doi: [10.1039/d2cp01336c](https://doi.org/10.1039/d2cp01336c)
- [95] « **Binary and Ternary Core–Shell Crystals of Polynuclear Coordination Clusters via Epitaxial Growth»**
L Shi, J. Kobylarczyk, K. Kwiatkowski, B. Sieklucka, S. Ferlay, R. Podgajny
Cryst. Gr. Des., **2022**, 22, 3413-3420. (IF : **4.055**) doi: [10.1021/acs.cgd.2c00216](https://doi.org/10.1021/acs.cgd.2c00216)
- [94] « **Porous nickel and cobalt hexanuclear ring-like clusters built from two different kind of calixarene ligands - new molecular traps for small volatile molecules»**
M. V. Kniazeva, A. S. Ovsyannikov, B. Nowicka, N. Kyritsakas, A. I. Samigullina, A. T. Gubaidullin, D. R. Islamov, P. Dorovatovskii, E. V. Popova, S. R. Kleshnina, S. E. Solovieva, I. S. Antipin, S. Ferlay, Porous nickel and cobalt hexanuclear ring-like clusters built from two different kind of calixarene ligands - new molecular traps for small volatile molecules, *CrystEngComm*, **2022**, 24, 330-340. doi: [10.1039/d1ce01361k](https://doi.org/10.1039/d1ce01361k) (IF : **3.117**)
- [93] « **Impact of flexible succinate connectors on the formation of tetrasulfonylcalix[4]arene based Nano-sized polynuclear cages: structural diversity and induced chirality study»**
M. V. Kniazeva, A. S. Ovsyannikov, A. I. Samigullina, D. R. Islamov, A. T. Gubaidullin, P. Dorovatovskii, V. A. Lazarenko, S. E. Solovieva, I. S. Antipin, S. Ferlay *CrystEngComm* **2022**, 24, 628-638. doi: [10.1039/d1ce01482j](https://doi.org/10.1039/d1ce01482j) (IF : **3.117**)
- [92] « **A hybrid bioinspired catechol-alloxazine triangular nickel stabilizing protons and electrons »**
A. Das, H. Jobelius, J. Schleinitz, S. Gamboa-Ramirez, G. Creste, G. Kervern, J. Raya, N. Le Breton, A. Guénet, A. Boubegtiten-Fezoua, L. Grimaud, M. Orio, G. Rogez, P. Hellwig, S. Choua, S. Ferlay, M. Desage-El Murr, *Inorg. Chem. Front.*, (IF : **6.569**) **2021**, 8, 5286-5298 doi: 10.1039/d1qi01131f
- [91] « **Nuclearity control in calix[4]arene based zinc (II) coordination complexes»**
M. V. Kniazeva, A. S. Ovsyannikov, D. R. Islamov, A. I. Samigullina, A. T. Gubaidullin, P. Dorovatovskii, S. E. Solovieva, I. S. Antipin, S. Ferlay
CrystEngComm **2020**, 22, 7693-7703 (IF : **3.474**) doi: [10.1039/d0ce01232g](https://doi.org/10.1039/d0ce01232g)
- [90] « **Sequencing and Welding of Molecular Single-Crystal Optical Waveguides»**
L. Catalano, J. Berthaud, G. Dushaq, D. P. Karothu, R. Rezgui, M. Rasras, S. Ferlay, M. W. Hosseini, P. Naumov
Adv. Funct. Mater. **2020**, 2003443 (IF : **16.836**) doi : [10.1002/adfm.202003443](https://doi.org/10.1002/adfm.202003443)
- [89] « **A concerted evolution of supramolecular interactions in a {cation; metal complex; π-acid; solvent} anion-π system»**
E. Kuzniak, J. Hooper, M. Srebro-Hooper, J. Kobylarczyk, M. Dziurka, B. Musielak, D. Pinkowicz, J. Raya, S. Ferlay, R. Podgajny
Inorg. Chem. Front., **2020**, 7, 1851-1863 (IF : **5.958**) doi: [10.1039/d0qi00101e](https://doi.org/10.1039/d0qi00101e)
- [88] « **Mixed Tb/Dy coordination ladders based on tetra(carboxymethyl)thiacalix[4]arene: a new avenue towards luminescent molecular nanomagnets»**
A. S. Ovsyannikov, I. V. Kharishin, S. E. Solovieva, I. S. Antipin, H. Komiya, N. Maret, H. Tanaka, H. Ohmagari, M. Hasegawa, J. J. Zakrzewski, S. Chorazy, N. Kyritsakas, M. W. Hosseini, S. Ferlay
RSC Adv. **2020**, 10, 11755-11765 (IF : **3.049**) doi: [10.1039/d0ra01263g](https://doi.org/10.1039/d0ra01263g)

- [87] « **Formation of Unsymmetrical Trinuclear Metallamacrocycles Based on Two Different Cone Calix[4]arene Macrocyclic Rings** »
M. V. Kniazeva, A. S. Ovsyannikov, D. R. Islamov, A. I. Samigullina, A. T. Gubaidullin, S. E. Solovieva, I. S. Antipin, S. Ferlay
Crystals **2020**, 11006, 364 (IF : 2.144) doi:[10.3390/cryst10050364](https://doi.org/10.3390/cryst10050364)
- [86] « **Crystals formation of 1D coordination polymers based on chiral, achiral and racemic 1,2 cyclohexane scaffold** »
A. Jouaiti, P. Grosshans, N. Kyritsakas, S. Ferlay, M. Henry, M. W. Hosseini
CrystEngComm **2020**, 22, 1746–1753. (IF : 3.474) doi : [10.1039/c9ce01781j](https://doi.org/10.1039/c9ce01781j)
- [85] « **Magnetic Investigation of an Atypical Three-Dimensional Bimetallic Oxalate-Based Magnet** »
V. Simonet, F. Damay, S. Ferlay, A. Cea, C. Maxim, C. Train
J. Phys. Chem. C **2020**, 124, 952-957 (IF : 4.309) doi : [10.1021/acs.jpcc.9b10599](https://doi.org/10.1021/acs.jpcc.9b10599)
- [84] « **Variations around 1D coordination polymers built from the triarylamine scaffold and Hg(II) or Cd(II)** »
B. Godde, S. Ferlay, N. Kyritsakas, M. W. Hosseini, A. Jouaiti
Inorg. Chim. Acta, **2020**, 503, 119427(IF : 2.002) doi : [10.1016/j.ica.2020.119427](https://doi.org/10.1016/j.ica.2020.119427)
- [83] « **Control of dimensionality in Manganese Coordination Polymers using rigid tetrahedral-shaped [1.1.1.1]metacyclophe ligands bearing benzoate coordinating sites: From homochiral 1D to 3D diamond-like structures** »
E. F. Chernova, A. S. Ovsyannikov, S. E. Solovieva, I. S. Antipin, N. Kyritsakas, M. W. Hosseini, S. Ferlay
Inorg. Chem. Comm. **2019**, 106, 197-201-1381 (IF : 1.21) doi : [10.1016/j.inoche.2019.06.011](https://doi.org/10.1016/j.inoche.2019.06.011)
- [82] " **Molecular tectonics: enantiomerically pure chiral crystals based on trans -1,2-cyclohexanediol**"
B. Forquin, J. Berthaud, A. Jouaiti, N. Kyritsakas, S. Ferlay, M. W. Hosseini *CrystEngComm* **2019**, 21, 5129-5136. (IF : 3.474) doi : [10.1039/c9ce00807a](https://doi.org/10.1039/c9ce00807a)
- [81] " **Dialkyl-substituted monoamidinium-templated oxalate-based noncentrosymmetric 2D compounds**"
C. Maxim, S. Ferlay, C. Train *C. R. Chimie*, **2019**, (IF : 1.877) doi [10.1016/j.crci.2019.03.009](https://doi.org/10.1016/j.crci.2019.03.009)
- [80] « **Chemical and Electrochemical Alkali Cations Intercalation/Release in an Ionic Hydrogen Bonded Network** »
G. Gerer, F. Melin, P. Hellwig, M. W. Hosseini, S. Ferlay
Inorg. Chem. **2019**, 58, 1541-1547 (IF : 4.794) doi : [10.1021/acs.inorgchem.8b03041](https://doi.org/10.1021/acs.inorgchem.8b03041)
- [79] « **Partially Reversible Thermal-Induced Oxidation During a Dehydration Process in an H-bonded Supramolecular System** »
S. Ferlay, P. Hellwig, M. W. Hosseini
ChemPhysChem, **2018**, 19, 1-8 (IF : 2.947) doi : [10.1002/cphc.201800845](https://doi.org/10.1002/cphc.201800845)
- [78] « **Hydrogen bonded networks based on hexarhenium(III) chalcocyanide cluster complexes: structural and photophysical characterization** »
A. Ledneva, S. Ferlay, N.G. Naumov, M. Mauro, S. Cordier, N. Kyritsakas, M. W. Hosseini
New J. Chem., **2018**, 42, 11888-11895 (IF : 3.269) doi : [10.1039/c8nj02310g](https://doi.org/10.1039/c8nj02310g)
- [77] « **Molecular tectonics: control of crystalline sequences** »
C. R. R. Adolf, S. Ferlay, N. Kyritsakas, M. W. Hosseini
CrystEngComm **2018**, 20, 2233-2236. (IF : 3.474) doi : [10.1039/c8ce00478a](https://doi.org/10.1039/c8ce00478a)
- [76] « **Synthesis of four new carboxylic derivatives based on the [1.1.1.1]metacyclophe backbone blocked in 1,3-Alternate conformation** »
E. F. Chernova, A. S. Ovsyannikov, S. Ferlay, S. E. Solovieva, I. S. Antipin, A. I. Konovalov, N. Kyritsakas, M. W. Hosseini
Tetrahedron Letter **2018**, 59, 1377-1381 (IF : 2.125) doi : [10.1016/j.tetlet.2018.02.060](https://doi.org/10.1016/j.tetlet.2018.02.060)
- [75] « **Structural phase diagram and isomery in flexible honeycomb-like 2D hydrogen bonded solid solutions** »
B-W. Hu, S. Ferlay, N. Gruber-Kyritsakas, M. W. Hosseini
CrystEngComm **2018**, 20, 1853-1861. (IF : 3.474) doi : [10.1039/c8ce00023a](https://doi.org/10.1039/c8ce00023a)

- [74] « Molecular Tectonics: high dimensional coordination networks based on a methylenecarboxylate appended tetramercaptothiacalix[4]arene in 1,3-Alternate conformation »
 A. S. Ovsyannikov, S. Ferlay, S. E. Solovieva, I. S. Antipin, A. I. Konovalov, N. Kyritsakas, M. W. Hosseini
CrystEngComm **2018**, *20*, 1130-1140. (IF : 3.474) doi : [10.1039/c7ce02105d](https://doi.org/10.1039/c7ce02105d)
- [73] « Box-like gel capsules from heterostructures based on a core–shell MOF as a template of crystal crosslinking »
 T. Ishiwata, A. Michibata, K. Kokado, S. Ferlay, M. W. Hosseini, K. Sada *Chem. Commun.*, **2018**, *54*, 1437-1440. (IF : 6.319) doi : [10.1039/c7cc07158b](https://doi.org/10.1039/c7cc07158b)
- [72] « Coordination Compounds Based on Metacyclophane Derivatives »
 A. S. Ovsyannikov, S. Ferlay, E. F. Chernova, S. E. Solovieva, I. S. Antipin, M. W. Hosseini
Macroheterocycles, **2017**, *10*, 410-420. (IF : 0.804) doi : [10.6060/mhc171256o](https://doi.org/10.6060/mhc171256o)
- [71] « Coordination Polymers based on calixarene derivatives: Structures and properties »
 A. Ovsyannikov, S. Solovieva, I. Antipin, S. Ferlay
Coord. Chem. Rev., **2017**, *352*, 151-186. (IF : 13.324) doi : [10.1016/j.ccr.2017.09.004](https://doi.org/10.1016/j.ccr.2017.09.004)
- [70] « Discrete binuclear and tetrานuclear silver complexes based on *ortho*-imino- or *ortho*-amino-methylpyridyl appended *p*-*tert*-butyl- calix[4]arene or *p*-*tert*-butyl-thiacalix[4]arene in 1,3-alternate conformation »
 M. H. Noamane, S. Ferlay, R. Abidi, N. Kyritsakas, M. W. Hosseini
Eur. J. Inorg. Chem., **2017**, 3327-3336. (IF : 2.444) doi : [10.1002/ejic.201700459](https://doi.org/10.1002/ejic.201700459)
- [69] « Formation of binuclear neutral Copper(II) complexes based on *p*-*tert*-butyl- calix[4]arene and thiocalix[4]arene in 1,3-A conformation bearing four catechol at their lower rim »
 M. H. Noamane, S. Ferlay, R. Abidi, N. Kyritsakas, M. W. Hosseini
Inorg. Chim. Acta, **2017**, *468*, 260-269 (IF : 2.002) doi : [10.1016/j.ica.2017.04.047](https://doi.org/10.1016/j.ica.2017.04.047)
- [68] « Synthesis of multivalent oxamate ligands based on calix[4]arene and thiocalix[4]arene backbones in 1,3-Alternate conformation »
 M. H. Noamane, S. Ferlay, R. Abidi, M. W. Hosseini
Tetrahedron, **2017**, *73*, 4259-4264 (IF : 2.651) doi : [10.1016/j.tet.2017.05.043](https://doi.org/10.1016/j.tet.2017.05.043)
- [67] « Synthesis of para- and meta-imino- or -amino-methyl pyridyl-appended p-*tert*-butyl-calix[4]arene or *p*-*tert*-butyl-thiacalix[4]arene in 1,3-alternate conformation »
 M. H. Noamane, S. Ferlay, R. Abidi, N. Kyritsakas, M. W. Hosseini
New J. Chem., **2017**, *41*, 6334-6339 (IF : 3.269) doi : [10.1039/c7nj01389b](https://doi.org/10.1039/c7nj01389b)
- [66] « Molecular tectonics: from a binuclear metallamacrocycle to a 1D isostructural coordination network based on tetracyanomethyl[1.1.1.1]metacyclophane and a silver cation »
 E. F. Chernova, A. S. Ovsyannikov, S. Ferlay, S. E. Solovieva, I. S. Antipin, A. I. Konovalov, N. Kyritsakas, M. W. Hosseini
Mendeleev Commun., **2017**, *27*, 260-262 (1.741) doi : [10.1016/j.mencom.2017.05.014](https://doi.org/10.1016/j.mencom.2017.05.014)
- [65] « Molecular Tectonics: Manganese(II), Copper(II) and Zinc(II) 1D Coordination Polymers Based on Tetramercaptothiacalix[4]arene Bearing Benzoate Coordinating Groups »
 A. S. Ovsyannikov, S. Ferlay, S. E. Solovieva, I. S. Antipin, A. I. Konovalov, N. Kyritsakas, M. W. Hosseini
Macroheterocycles **2017**, *10*, 147-153 (IF : 0.804) doi : [10.6060/mhc170295o](https://doi.org/10.6060/mhc170295o)
- [64] « Molecular tectonics: hierarchical organization of heterobimetallic coordination networks into heterotrimetallic core–shell crystal »
 Fan Zhang, Cyril R. R. Adolf, Nicolas Zigon, Sylvie Ferlay, Nathalie Kyritsakas, Mir Wais Hosseini
Chem. Commun., **2017**, *53*, 3587-3590 (IF : 6.319) doi : [10.1039/c7cc01455d](https://doi.org/10.1039/c7cc01455d)
- [63] « Molecular tectonics: tetracarboxythiacalix[4]arene derivatives as tectons for the formation of hydrogen-bonded networks »
 A. Ovsyannikov, M. N. Lang, S. Ferlay, S. E. Solovieva, I. S. Antipin, A. I. Konovalov, N. Kyritsakas, M. W. Hosseini
CrystEngComm **2016**, *18*, 8622-8630 (IF : 3.474) doi : [10.1039/c6ce02026g](https://doi.org/10.1039/c6ce02026g)
- [62] « Amidinium-Containing 2D [MnCr] Dimetallic Oxalate-Based Networks – The Influence on Structure and Magnetism Explored by Combining Experience and Theory »

C. Maxim, S. Saureu, C. de Graaf, S. Ferlay, M. W. Hosseini, V. Robert, C. Train
Eur. J. Inorg. Chem. **2016**, 4185-4193 (IF : 2.444) doi : [10.1002/ejic.201600514](https://doi.org/10.1002/ejic.201600514)

- [61] « **Molecular Tectonics: 1D tubular type and 3D diamond like mercury (II) coordination polymers based on pyridyl appended *p*-tert-butyl-tetrathiocalix[4]arene** »
A. S. Ovsyannikov, S. Ferlay, S. E. Solovieva, I. S. Antipin, A. I. Konovalov, N. Kyritsakas, M. W. Hosseini
Macrocycles **2016**, 9, 17-22 (IF : 0.804) doi : [10.6060/mhc151196o](https://doi.org/10.6060/mhc151196o)
- [60] « **Molecular Tectonics: dimensionality and geometry control of silver coordination networks based on pyrazolyl appended thiocalixarenes** »
A. S. Ovsyannikov, M. H. Noamane, , R. Abidi, S. Ferlay, S. E. Solovieva, I. S. Antipin, A. I. Konovalov, N. Kyritsakas, M. W. Hosseini
CrystEngComm **2016**, 18, 691-703 (3.474) doi : [10.1039/c5ce02310f](https://doi.org/10.1039/c5ce02310f)
- [59] « **Welding Molecular Crystals** »
C. R. R. Adolf, S. Ferlay, N. Kyritsakas, M. W. Hosseini
J. Am. Chem. Soc. **2015**, 137, 15390-15393. (IF :13.858) doi : [10.1021/jacs.5b10586](https://doi.org/10.1021/jacs.5b10586)
- [58] « **La tectonique moléculaire : des molécules à l'organisation hiérarchique de la matière complexe** »
S. Ferlay&M. W. Hosseini *Actualité Chimique*, **2015**, 399, 16-24.
- [57] « **Molecular Tectonics: silver coordination networks based on tetramercaptotetrathiocalix[4]arene in 1,3-A conformation bearing four nitrile groups** »
A. S. Ovsyannikov, S. Ferlay, S. E. Solovieva, I. S. Antipin, A. I. Konovalov, N. Kyritsakas, M. W. Hosseini *Russian Chemical Bulletin* **2015**, 64, 1955-1962 , rus. *Известия Академии Наук, Серия химическая*, ISSN 0002-3353, (IF : 0.529) doi : [10.1007/s11172-015-1099-8](https://doi.org/10.1007/s11172-015-1099-8)
- [56] « **Molecular Tectonics: Grid and Porous Coordination Networks Based on Combinations of Iron Thiocyanate_n and Pyridyl Appended Derivatives of Tetrathiocalix[4]arene and Tetramercaptotetrathiocalix[4]arene** »
A. S. Ovsyannikov, S. Ferlay, S. E. Solovieva, I. S. Antipin, A. I. Konovalov, N. Kyritsakas, M. W. Hosseini
Macrocycles **2015**, 8, 113-119. (IF : 0.804) doi : [10.6060/mhc150768s](https://doi.org/10.6060/mhc150768s)
- [55] "Template synthesis of *cone* conformer of tetrakis-1,2,3-triazolylthiocalix[4]arene and crystal structure of its silver(I) hexanuclear complex"
A. Ovsyanikov, N. A. Epifanova, E. V. Popova, N. Kyritsakas, S. Ferlay, [SEP] M. W. Hosseini, Sh. K. Latypov, S. E. Solovieva, I. S. Antipin, A. I. Konovalov
Macrocycles **2014**, 7, 189-195. (IF : 0.804) doi : [10.6060/mhc140273s](https://doi.org/10.6060/mhc140273s)
- [54] "Molecular tectonics: generation of grid and porous diamondoid coordination networks by combining metal halides with tetrathiocalix[4]arene and tetrathiatetramercaptothiocalix[4]arene pyridyl appended tectons"
A. Ovsyannikov, S. Ferlay, S. E. Solovieva, I. S. Antipin, A. I. Konovalov, N. Kyritsakas, Mir Wais Hosseini
CrystEngComm, **2014**, 3765-37722. (IF : 3.474) doi : [10.1039/c3ce42305k](https://doi.org/10.1039/c3ce42305k)
- [53] "Molecular tectonics: anion control of dimensionality and connectivity in meta-pyridyl appended tetramercaptotetrathiocalix[4]arene based silver coordination networks"
A. Ovsyannikov, S. Ferlay, S. E. Solovieva, I. S. Antipin, A. I. Konovalov, N. Kyritsakas, Mir Wais Hosseini
Dalton Trans., **2014**, 158-165 (IF : 4.029) doi : [10.1039/c3dt52654b](https://doi.org/10.1039/c3dt52654b)
- [52] "Atypical stoichiometry for a 3D bimetallic oxalate-based long-range ordered magnet exhibiting high proton conductivity"
C. Maxim, S. Ferlay, H. Tokoro, S-I. Ohkoshi, Cyrille Train
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