

## Productions Scientifiques

### • Publications

**1- *Synthetic Metals*, n° 120, pp. 809-810, (2001).**

ISSN: 0379-6779. Published/Hosted by Elsevier Science

Synthesis of new unsymmetrically tetraheterofulvalenes. Study of their radical cation salts.  
A.K. Gouasmia, J.M. Fabre, L. Kaboub, L. Boudiba, C. Carcel.

**2- *Tetrahedron Letters*, n° 44/52, pp. 9275-9278, (2003),**

ISSN: 0040-4039. [www.journals.elsevier.com/tetrahedron-letters/](http://www.journals.elsevier.com/tetrahedron-letters/)

Synthesis and characterization of TTF-type precursors for the construction of conducting and magnetic molecular materials.

S. Bouguessa, A.K. Gouasmia, S. Golhen, L. Ouahab, J.M. Fabre.

**3- *Journal of materials chemistry*, n° 13, pp. 1-6, (2004),**

ISSN (printed): 0959-9428. ISSN (electronic): 1364-5501. Published/Hosted by Royal Society of Chemistry.

Structural study and electrical conductivity of salts based on functionalised TTF containing periphera selenium atoms.

L. Kaboub, J. P. Legros, B. Donnadiou, A.K. Gouasmia, L. Boudiba, J.M. Fabre.

**4- *Annales de Chimie - Science des Matériaux - CNRS, France*, 26(4), pp.63-72, (2004),**

ISSN 0151-9107. Éditions du C.N.R.S

Etude structurale et électronique de nouveaux matériaux organiques issus de la famille du TTF (tétrathiafulvalène), par la modélisation moléculaire.

S. Belaidi, O. Abdelmalek, A.K. Gouasmia.

**5- *Journal of Synthetic Organic Chemistry: Synthesis* n° 8, pp. 1261-1296, (2005),**

ISSN: 0039-7881. Published/Hosted by Thieme Medical Publishers

New semi-conducting benzo-TTF salts: Synthesis and physical properties.

L. Boudiba, L. Kaboub, A.K. Gouasmia, J.M. Fabre.

**6- *Synthetic Metals*, n° 150, pp. 317-320, (2005).**

ISSN: 0379-6779. Published/Hosted by Elsevier Science

Synthesis of CETBz-TTF and CESBz-TTF: Preparation, structural and physical properties of their radical salts with paramagnetic Cu(II) complex anions

L. Boudiba, A. K. Gouasmia, L. Kaboub, O. Cador, L. Ouahab, J. M. Fabre

**7- *Tetrahedron Letters*, n° 47, pp. 3123-3125, (2006),**

ISSN: 0040-4039. [www.journals.elsevier.com/tetrahedron-letters/](http://www.journals.elsevier.com/tetrahedron-letters/)

Evidence of the central tetrathiafulvalene bond opening by copper(II) salts. In situ generation of 2,3-bis(2'-cyanoethylchalcogeno)-7,8-benzo-1,4,6,9-tetrathia-10-ceto spiro[4,5] decane.

L. Boudiba, L. Ouahab, A. K. Gouasmia

**8- *The European Journal of Organic Chemistry*, pp. 4237-4241, (2006),**

ISSN (printed): 1434-193X. ISSN (electronic): 1099-0690. Published/Hosted by John Wiley and Sons.

Synthesis and characterization of novel electron donors bearing two pyridine groups.

N. Benbellat, Y. Le Gal, S. Golhen, A. Gouasmia, L. Ouahab and J-M Fabre.

**9- Asian Journal of Chemistry, Vol. 18, n° 3, pp.1668-1674, (2006),**

ISSN: 0970-7077. Published/Hosted by *Asian Journal of Chemistry*.

Molecular modelling of new materials from the tetrathiafulvalene family

O. Abdelmalek, A. Dibi, S. Belaidi, *A.K. Gouasmia* and L. Kaboub.

**10- Molecules, n° 11, pp. 776-785, (2006),**

ISSN: 1420-3049. Published/Hosted by *Molecular Diversity Preservation International*.

Synthesis and properties of novel unsymmetrical donor molecules containing a p-acetoxyphenyl or p-hydroxyphenyl units.

L. Kaboub, S. Fradj, *A.K. Gouasmia*.

**11- Synthetic Metals, n° 156, pp. 1271-1279, (2006).**

ISSN: 0379-6779. Published/Hosted by Elsevier Science

Synthesis and redox properties of several new oligo-tetrathiafulvalenes containing functional spacer

A. Carcel, L. Kaboub, *A.K. Gouasmia*, J. M. Fabre.

**12- Inorganic Chemistry, n° 45, pp.10440-10442, (2006),**

ISSN: 0020-1669. Published semimonthly by the American Chemical Society.

Co(II)-Co(II) paddlewheel complex with redox active ligand derived from TTF

Noura Benbellat, Konstantin S. Gavrilenko, Yann Le Gal, Olivier Cador, Stéphane Golhen,

*Abdelkrim Gouasmia*, Jean-Marc Fabre, Lahcène Ouahab.

**13- Chemistry of Materials, n° 19, pp 805-815, (2007),**

ISSN (printed): 0897-4756. ISSN (electronic): 1520-5002. Published/Hosted by American Chemical Society.

Quadratic nonlinear optical response in partially charged donor-substituted tetrathiafulvalene: From a computational investigation to a rational synthetic feasibility

Jean François Lamère, Isabelle Malfant, Alix Sournia-Saquet, Pascal G. Lacroix, Jean Marc

Fabre, Lakhémici Kaboub, Tahar Abbaz, *AbdelKrim Gouasmia*, Inge Asselbergs, Koen

Clays.

**14- Journal de la Société Algérienne de Chimie (JSAC)- The Journal of the Algerian Chemical Society-, 17(1), 77-85, (2007),**

ISSN 1111-4797. [www.jsac.arn.dz/](http://www.jsac.arn.dz/)

Synthesis of new hydroxylated mono and bis-tetrathiafulvalene: Electrochemical behaviour and conductivity of their materials.

L. Boudiba, *A.K. Gouasmia*, J.M. Fabre.

**15- Synthetic Metals., 157, pp 508-516, (2007).**

ISSN: 0379-6779. Published/Hosted by Elsevier Science

New TTF and bis-TTF containing thiophene units: Electrical properties of the resulting salts.

Tahar Abbaz, *Abdelkrim Gouasmia*, Hideki Fujiwara, Takashi Hiraoka, Toyonari Sugimito,

Marc Taillefer, Jean Marc Fabre.

**16- Journal of Optoelectronics and Advanced Materials., 9 (5), pp 1367-1372, (2007),**

ISSN: 1454-4164. Published/Hosted by National Institute of Research & Development for Optoelectronics, Romania.

Synthesis of new hydroxylated mono and bis-tetrathiafulvalene : Electrochemical behaviour,

X-ray analysis and conductivity.

Louiza Boudia, *Abdelkrim Gouasmia*, Lahcene Ouahab, Lakhémici Kaboub, Slimane Fradj, Jean Marc Fabre.

**17- *Journal de la Société Algérienne de Chimie (JSAC)- The Journal of the Algerian Chemical Society-*, 18(2), pp 139-148, (2008).**

ISSN 1111-4797. [www.jsac.arn.dz/](http://www.jsac.arn.dz/)

Synthesis and electrochemical study of new Bi-TTF linked to an aromatic nitrogen ligand able to induce a coordination complex with transition metals.

Sabrina Bouguessa, *Abdelkrim Gouasmia*, Jean Marc Fabre.

**18- *Synthetic Metals.*, 159(19-20), pp 2075-2080, (2009).**

ISSN: 0379-6779. Published/Hosted by Elsevier Science

Copper (II) complexes containing tetrathiafulvalene substituted by a bipyridine ligand: Synthesis, X-ray diffraction and EPR characterizations.

Lakhémici Kaboub, *Abdelkrim Gouasmia*, Jean Pierre Legros, E. Harte, C. Coulon, Jean Marc Fabre.

**19- *Synthetic Metals.*, 160(5-6), pp 361-367, (2010).**

ISSN: 0379-6779. Published/Hosted by Elsevier Science

Preparation and Characterizations of TTF ligands containing a nitrogen aromatic heterocycle.

Sabrina Bouguessa, *Abdelkrim Gouasmia*, Lahcene Ouahab, Stephane Golhen, Jean Marc Fabre.

**20- *Journal de la Société Algérienne de Chimie (JSAC)- The Journal of the Algerian Chemical Society-*, 20(1), 17-25, 2010.**

ISSN 1111-4797. [www.jsac.arn.dz/](http://www.jsac.arn.dz/)

Preparation, Electrical Conductivity and Structure of New Conductors based on Unsymmetrical donor Molecules Containing a Trimethylene Group and Additional Selenium Atoms.

Louiza Boudiba, *Abdelkrim Gouasmia*, Jean Marc Fabre.

**21- *Phosphorus, Sulfur, and Silicon and Related Elements.*, 186(8), 1744-1754, 2011,**

ISSN (printed): 1042-6507. ISSN (electronic): 1563-5325. Published/Hosted by Taylor and Francis Group.

New  $\pi$ -Extended Donors: Synthesis, Characterization, Electrochemical and Electrical conductivity Studies.

Zitouni Amel, *Abdelkrim Gouasmia*, Bouguessa Sabrina, Kaboub Lakhémici, Louiza Boudiba.

**22- *Synthetic Metals*, 161, 1800-1804, 2011.**

ISSN: 0379-6779. Published/Hosted by Elsevier Science

Synthesis and X-ray crystal structures of radical cation salts of benzo-TTF derivatives with dimeric Cu(II) anion, CuCl<sub>4</sub><sup>2-</sup> and perchlorate

Louiza Boudiba, *Abdelkrim Gouasmia*, Stéphane Golhen and Lahcène Ouahab.

**23- *Der Chemica Sinica*, 3(3):717-721, 2012,**

(ISSN 0976 – 8505). CODEN (USA): CSHIA5. Publisher: Pelagia Research Library, India  
A new series of seven-membered cyclic sulfamides containing thiophene or pyridine units  
Tahar Abbaz, Amel Bendjeddou, *Abdelkrim Gouasmia*, Zine Regainia and Didier Villemin.

**24- International Journal of Molecular Sciences (Int. J. Mol. Sci.), 13, 7872-7885, 2012,**  
ISSN: 1422-0067. Published/Hosted by *Molecular Diversity Preservation International*.  
Synthesis and Electrochemical Properties of Novel Unsymmetrical Bis-Tetrathiafulvalenes  
and Electrical  
Conductivity of Their Charge Transfer Complexes with Tetracyanoquinodimethane (TCNQ),  
Abbaz Tahar, Bendjeddou Amel, *Gouasmia Abdelkrim*, Regainia Zine, Villemin Didier.

**25- Synthetic Metals, 162, issue 21-22, 1789-1797, 2012.**  
ISSN: 0379-6779. Published/Hosted by Elsevier Science  
Synthesis, characterization and X-ray structures of tetrathiafulvalene-type electron donors  
bearing one pyridine group  
Benbellat Noura, Yann Le Gal, Stéphane Golhen, *Gouasmia Abdelkrim*, Lahcène Ouahab.

**26- Journal of Chemical and Pharmaceutical Research, 5(7), 262-266, 2013**  
ISSN: 0975-7384, CODEN(USA) : JCPRC5, Available online [www.jocpr.com](http://www.jocpr.com)  
Synthesis, characterization and electrochemical properties of new series of TTF derivatives as  
useful components for conducting materials  
T. Abbaz, A. Bendjeddou, A. K. Gouasmia<sup>1</sup> and D. Villemin

**27- Letters in Organic Chemistry, Volume 11, 59-63, 2014.**  
ISSN: 1570-1786 (Print), ISSN: 1875-6255 (Online). Benthamscience Publisher.  
Synthesis, characterization and antibacterial activity of cyclic sulfamide linked to  
tetrathiafulvalene (TTF)  
Tahar Abbaz, Amel Bendjeddou, Abdelkrim Gouasmia, Djamel Bouchouk, Chahinez  
Boualleg, Nouha kaouachi and Nicolas Inguibert.

**28- Journal of Chemical and Pharmaceutical Research, 6(5):1385-1389, 2014**  
ISSN : 0975-7384 CODEN(USA) : JCPRC5, Available online [www.jocpr.com](http://www.jocpr.com)  
Synthesis and properties of new metal complexes involving unsymmetrical tetrathiafulvalenes  
Tahar Abbaz, Amel Bendjeddou, Nadia Nait Said, Rachida Khammar, Djamel Bouchouk,  
Souheila Bouacherine, Noura Sedira, Soulef Maache, Abdelkrim Gouasmia, Rabah  
Rehannia, Mabrouka Dekhici and Didier Villemin

**29-Indian Journal of Chemistry. 2014, 53(B), 884-889, 2014**  
ISSN: 0376-4699, <http://nopr.niscair.res.in>  
Novel unsymmetrically p-Acetoxyphenyl and p-hydroxyphenyl tetrathiafulvalenes: Synthesis,  
Electrochemical Properties and Electrical Conductivity of Their Charge Transfer Complexes.  
Djamel Bouchouk, Amel Bendjeddou, Tahar Abbaz, Abdelkrim Gouasmia, Nour-Eddine  
Aouf and Didier Villemin.

**30- International Journal of Molecular Sciences (Int. J. Mol. Sci.), 15, 4550-4564, 2014,**  
ISSN: 1422-0067. Published/Hosted by *Molecular Diversity Preservation International*.  
New Unsymmetrically Benzene-Fused bis (Tetrathiafulvalene): Synthesis, Characterization,  
Electrochemical Properties and Electrical Conductivity of Their Materials  
Tahar Abbaz, Amel Bendjeddou, Abdelkrim Gouasmia, Didier Villemin and Takashi  
Shirahata

**31- Synthetic Metals, 204, 84-89, 2015.**

ISSN: 0379-6779. Published/Hosted by Elsevier Science

Synthesis, Spectroscopic and Electrochemical properties of New Covalent Assemblies between TTF and Various Acceptors

Amel Zitouni, Aziza Hamel, Sabrina Bouguessa, Abdelkrim Gouasmia\*, Abdelkrim El-Ghayoury, Pierre Frère, Marc Sallé.

**32- Journal of Chemical and Pharmaceutical Research, 7(3):311-315, 2015**

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Synthesis and electrical conductivity of new organic materials bearing a tetrathiafulvalene unit

Rachida Khammar<sup>1</sup>, Amel Bendjeddou<sup>1</sup>, Tahar Abbaz, Merzoug Benahmed, Abdelkrim Gouasmia, Rabah Rehamnia, Mebrouka Dekhici and Didier Villemin

**33- Journal of Chemical and Pharmaceutical Research, 7(3):765-773, 2015**

ISSN : 0975-7384 CODEN(USA) : JCPRC5, Available online [www.jocpr.com](http://www.jocpr.com)

Impact of irrigation with water from the Seybouse Wadi on the biochemical quality of flat-leaf parsley

Saida Gouri<sup>1</sup>, Amel Bendjeddou, Tahar Abbaz, Chahinez Boualleg, Abdelkrim Gouasmia, Didier Villemin and Fatiha Bekhouche

**34- Oriental Journal of Chemistry., 31(4), .....-....., 2015,**

ISSN : 0970 - 020X, ONLINE ISSN : 2231-5039I

Synthesis, characterization and electrical study of new bis-fused tetrathiafulvalene contains functional groups

Meriam Boumedjout, Amel Bendjeddou, Tahar Abbaz, Siham Tiaouianine, Lakhmici Kaboub, Abdelkrim Gouasmia and Didier Villemin

**35- Phosphorus, Sulfur, and Silicon and Related Elements), ..... , ..... , 2015,**

ISSN (printed): 1042-6507. ISSN (electronic): 1563-5325. Published/Hosted by Taylor and Francis Group.

New materials derivatives of tetrathiapentalene functionalized by amide groups: synthesis, characterization and electrical study

Meriam Boumedjout, Amel Bendjeddou, Tahar Abbaz, Lakhmici Kaboub, Abdelkrim Gouasmia and Didier Villemin