

Curriculum vitae

Teacher-researcher and Lecturer A at Abbes Laghrour
Khenchela University

Name: Radhwane First name: Takouachet.

Tel: 00 213 6 71 37 62 92 (Portable) 00 213 32-71-52-13 (Home),

E-mail: radhwane.takouachet@univ-khenchela.dz



Civil status

April, 22, 1984, Khenchela (Algeria). Married, two child

Diplomas: - **Baccalaureate** 2004-science
- **License in chemistry** 2008 (LMD –Material sciences-).
- **Master in chemistry** 2010 (physics and chemistry of condensed matter, LMD-MS).
- **PhD (Doctorat)** 2016 (physics and chemistry of condensed matter, LMD-MS).
- **HDR (Habilitation à diriger des recherches)**. December 2021

International Publications:

1/ «Exploring a new creatinium crystalline salt with succinic acid organic counterion: Structural establishment, spectroscopic analysis and theoretical simulation»

W. Falek, **R. Takouachet**, R. Benali-Cherif, S. Baaziz, N. Benali-Cherif. Inorganic Chemistry Communications 159 (2024) 111806

2/ «Crystal engineering of a new pharmaceutical polymorph of gallic acid monohydrate: a structural comparative study and chemical computational quantum investigations»

N. Ghouari, R. Benali-Cherif, **R. Takouachet**, W. Falek, D. Missaoui, A. Rahmouni, E-E. Bendeif and N Benali-Cherif. CrystEngComm, 2023, 25, 6279–6290

3/ «The supramolecular behavior and molecular recognition of adeninium cations on anionic hydrogen selenite/diselenite frameworks: A structural and theoretical analysis »

Takouachet, R., Benali-Cherif, R., Bendeif, E-E., Jelsch, C., Yahia Cherif, F., Rahmouni, A., Benali-Cherif, N. Journal of Molecular Structure 1229 (2021) 129836.

4/ The importance of charge-charge interactions in shaping supramolecular hybrid compounds adeninium based

Rim Benali-Cherif, **Radhwane Takouachet**, El-Eulmi Bendeif, Christian Jelsch, Nourredine Benali-Cherif, Ali Rahmouni. MDPI. 2021/11/2

5/ « Synthesis, structural elucidation, spectroscopic, Hirshfeld surface analysis and theoretical simulation of a new adeninium orthoperiodate (1 –) bis(hydrate) organic–inorganic hybrid crystals» Benali-Cherif. R, **Takouachet. R.**, Falek. W, Benali-Cherif. N, Jelsch. C, Merazig. H, Hafied. M, - Bendeif. E-E, Bouslah Mokhnachi. N, Taibi. K. Journal of Molecular Structure 1224 (2021) 129034.

6/ «Transfer Of Protons Into A New Organic Compound Based On Creatinine» Falek. W, Benali-Cherif. R, **Takouachet. R.**, Benali-Cherif. N. MDPI (2022)

7/ «Structural analysis and IR-spectroscopy of a new anilinium hydrogenselenite hybrid compound: A subtle structural phase transition» **Takouachet. R.**, Benali-Cherif, R., El-Eulmi Bendeif., Benali-Cherif, N., Pillet, S., Schaniel, D. *Inorganica Chimica Acta.* (2016). 446. 6–12.

8/ «Cytosinium hydrogen selenite» **Takouachet, R.**, Benali-Cherif, R. and Benali-Cherif, N. (2014). *Acta Cryst.* E70, o186–o187.

9/ «The structural properties of a noncentrosymmetric polymorph of 4-aminobenzoic acid» Benali-Cherif, R., **Takouachet, R.**, Bendeif, E-E. and Benali-Cherif, N. (2014). *Acta Cryst.* C70, 323–325.

10/ «A comparative study of two polymorphs of L-aspartic acid hydrochloride» Benali-Cherif, R., **Takouachet, R.**, Bendeif, E-E. and Benali-Cherif, N. (2014). *Acta Cryst.* C70, 689-692

11/ «Structural analysis and IR-spectroscopy of a new anilinium hydrogenselenite hybrid compound: a subtle structural phase transition» **Takouachet, R.**, Benali-Cherif, R., Bendeif, E-E. and Benali-Cherif, N. (2019). *Acta Cryst.* A75, E472-E472

- Works

Publication of a book on May 05, 2017 entitled : « *Corrélations structures propriétés ONL de 3 nouveaux composés hybrides : Compréhension des propriétés optiques non linéaires à travers la structure tridimensionnelle* »

Éditions universitaires européennes (May 5, 2017) ; 96p.

ISBN : 978-3-330-87014-7

Rim Benali-Cherif, **Radhwane Takouachet**, Nourredine Benali-Cherif.

Communications :

- First international Conference on Materials Science and Applications (ICMSA'23). February, 8-9 2023.
- First international Conference on Materials Sciences and Technology (MatScience). December, 13-15, 2022.
- First international Conference on Materials Sciences and Engineering (MSE'22). June, 28-29, 2022.
- Crystallography Scientific Day Webinar –CSDWEB'22- on July 13, 2022 in Jijel, Algeria.
- Le premier Séminaire National sur les Huiles Essentielles et l'Aromathérapie (SNHEA 2022), September, 19-20.
- Workshop on: Structural resolution by single crystal and powder X-ray diffraction + Remote control of a single-crystal diffractometer (November, 6-7 2022).

https://www.iucr.org/news/newsletter/etc/articles?issue=155353&result_138339_result_page=22&fbclid=IwAR3J9PcourxuDRJgWxnrWb62yoh4wgGdkXOraOIW2j-QRMBCZ_oS3VDWNA

- Le 2^{ème} Séminaire National des Sciences D'interfaces Chimie –Biologie (2^{ème} SNSIC-B), February 20, 2021 at Université MohammedChérif Messaadia. Souk Ahras via google meet.
- Third Pan African Conference on Crystallography Online (ePCCr) / from November 15 to 19, 2021.
- The 7th International Electronic Conference on Medicinal Chemistry. 01-30 November, online (ECMC 2021) (MDPI).
- Virtual 4th international symposium on halogen bonding (ISXB 4) from 2 – 5 November 2020 at Stellenbosch University in Stellenbosch, South Africa.
- Second Pan African Conference on Crystallography (PCCr2) / from January 28th till February 02nd, 2019. University of Accra, Ghana.
- The 9th edition of the congress of the Algerian Society of Chemistry from May 08 to 10, 2018 at USTHB. -Algiers, Algeria
- First Pan African Conference on Crystallography (PCCr1) / October 6-10, 2016 University of Dschang, Cameroon.
- 5th Morocco School of Crystallography (EMC5) (Saidia/ Oujda/ Morocco / 24 -26 octobre 2013).
- 3rd Tunisian Crystallographic Meeting TCM3- Monastir – Tunisia, April 07-09, 2013.
- January, 14-18, 2013. Abbes Laghrour University-Algeria.

Workshop, "Characterizations Methods of Nanomaterials and X-ray diffraction".

- July, 6-13, 2012, Abbes Laghrour University-Algeria.

"Summer University for Scientific Research and Advanced technologies: Innovation and Valorization"

- International Congress of Crystallography CRAC 4 in Algeria (May 2011)

Internships:

- Internship at the nuclear center of Draria (Algiers- Algeria<).
- Internship in a laboratory of new phases (UM-Constantine- Algeria).
- Internship at the University of Lyon 1 Claude Bernard (France) during 1 month.
- Many Internships at the University of Lorraine- Nancy (France).

Specific positions:

Head of Department of Natural Sciences and Life (SNV) since February 26, 2020.

Price

CrystEngComm best poster award at the Pan African Conference on Crystallography, Accra, Ghana. January 28-February 02, 2019.

Languages and data processing

Arabic-French and English.

Word, Excel, PowerPoint, Mercury, Vista, excel, Sir 2004, Mogul, WingX