|  |  |
| --- | --- |
| ZOUARI Kamel | Nom :ZOUARI , Prénom : Kamel |
| [ |
|   |  Adresse : …ENIS BP 1173 SFAX  |
|  Tel:.74 677 425  Portable :…98 488 673  |
|  Email: kamel.zouari@enis.tn |
| Sexe M | Date de naissance 19 -02-56 | Nationalité : Tunisienne |

|  |  |
| --- | --- |
| PROFESSION | .Professeur |
| FONCTION ACTUELLE | …Professeur……………………… |

|  |  |
| --- | --- |
| EXPÉRIENCE PROFESSIONNELLE |   |

|  |  |
| --- | --- |
| **dates (de - à)** | **Poste occupé** |
| 1988- 1993 | Maître de Conférences à l’ENIS |
| DE 1993 | Professeur à l’ENIS |

|  |  |
| --- | --- |
| ÉDUCATION ET FORMATION |   |

|  |  |
| --- | --- |
| **dates**  | **Diplôme obtenu** |
| …………………1882-1983…….. | ……DEA… Jussieu-Paris 6, France |
| ………1983-1985 | …Thèse 3ème cycle……Jussieu-Paris 7, France |
| …………1985-1988.. | …Thèse Etat - Orsay, France………………………… |

|  |  |
| --- | --- |
| COMPÉTENCES PERSONNELLES |   |

|  |  |
| --- | --- |
| Langues(Lues, écrites, parlées) | Français et Anglais  |
| Compétences informatiques | Utilisation de nombreux logiciels |

|  |  |
| --- | --- |
| Expérience pédagogique |   |

|  |  |
| --- | --- |
| Enseignement | Trois niveaux d’enseignements-Diverses matières enseignées en relation avec l’environnement et le cycle de l’eau (Hydrologie, hydrogéologie), Changement climatique, hydrogéochimie |

|  |  |
| --- | --- |
| Encadrement de thèses de doctorat | Soutenues (28 thèses), en cours (8 thèses)  |
| Encadrement de mastères | Soutenues : plus d’une 50 |
| Encadrement de PFE | Soutenues : plus d’une 50 à l’ENIS |
| Participation aux jurys de thèses et d’habilitations | Nombre : Plus de 30 établissement(s) à l’échelle national et à l’étranger |
| Participation aux jurys de mastères | Sup à 50 |

|  |  |
| --- | --- |
| Recherche et développement |   |

|  |  |
| --- | --- |
| Domaine de recherche | Hydrologie, Hydrogéologie et géochimie isotopique |
| Structure de recherche | Laboratoire, ancien directeur |
| Articles de revues publiés | Nombre 110 Indexés, …. |
| Communications publiées | Nombre Sup à 60 internationale et nationale, et poster |
| Livres et chapitres de livres | Nombre, 8 |

|  |  |
| --- | --- |
| INFORMATION COMPLÉMENTAIRE |   |

|  |  |
| --- | --- |
| Affiliations |  Président et membre dans nombreuses associations scientifiques |
| Stages et missions |  Nombreux |

|  |  |
| --- | --- |
| ANNEXES |   |
| **Liste des Articles****1-**B.OUDA, **K.ZOUARI** et C.CAUSSE **(1998)** : Nouvelles données paléo environnementales pour le Quaternaire récent en Tunisie Centrale (bassin de Maknassy), Géosciences de surface (1998), No.322, p855-861**.****2- K.Zouari,** E.Gibert et C.Causse **(1998)** : Chronologie (14C et ThIU) des épisodes humides majeurs du Quaternaire récent au Sahara : sites choisis du programme PALHYDAF, in Causse C. et Gasse F. (éds), Hydrologie et Géochimie Isotopique, Orstom, Paris. pp177-1951. **3-** A.Maliki, M.Krimissa, J. L.Michelot et **K.Zouari** (**2000**) :Relation entre nappes superficielles et aquifère profond dans le bassin de Sfax (Tunisie). C.R. Acad. Sci. Paris. Série II a, 331 (2000). 1-6.

**4- K.ZOUARI** et N.CHKIR **(2000)** :La mesure du temps par le Carbone-14 et par l'Uranium/Thorium - Outils d'investigation dans les sciences de l'Univers et de l'Environnement- Symposium International : Le temps - Cité des Sciences - 4-8 Avril 2000– Tunis. Revue El Madar n°15 (**2000**).**5-** H.CELLE-JEANTON, **K.ZOUARI,** Y.TRAVI et A.DAOUD (**2001**) : Caractérisation isotopique des pluies en Tunisie. Essai de typologie dans la région de Sfax. C.R.Acad.Sci.Paris. Série II a 333 (2001). 625-631.**6-** L.FEDRIGONI, M.KRIMISSA, **K.ZOUARI,** A.MALIKI et G.M .ZUPPI (**2001**) : Origine de la minéralisation et comportement hydrogéochimique d’une nappe phréatique soumise à des contraintes naturelles et anthropiques sévères : exemple de la nappe de Djebeniana (Tunisie). C. R. Acad. Sci.Paris, Série II a(2001), 332 665-671**7- K.ZOUARI,** A.MALIKI, L.MOUMNI et J.ARANYOSSY (**2001**): Chemical (CI) and Isotopic (18O, 2H, 3H) study of the unsaturated zone in the arid region of Nefta (southern Tunisia). IAEA-TECDOC-1246 (2001), p 71-84**8- K .ZOUARI** et A.MALIKI (**2001**) : Contribution à l'évaluation et à la gestion des eaux de la nappe profonde du Sahel de Sfax par les méthodes isotopiques. IHP-V Technical Documents in Hydrology N° 42. UNESCO. Paris 2001.**9-** E.SCHULZ, ABICHOU, T.HACHICHA, S.POMEL, U.SALZMANN et **K.ZOUARI** (**2002**):Sbekhas as ecological archives and the vegetation and landscape history of southeastern Tunisia during the last two mullennia. Journal of African Earth Sciences 34 (2002), 223-229.**10-**A.GUENDOUZ, A.MOULLA, W.M.EDMUNDS, **K.ZOUARI,** P. SHANG, A.MAMOU **(2003)**: Hydrogeochemical and Isotopic evolution of water In the Complexe Terminal aquifer In Algerian Sahara. Hydrogeology Journ 11(2003), pp 483-495.**11-** C. CAUSSE, b.GHALEB, N.CHKIR, **K. ZOUARI,** A.OUEZDOU et A.MAMOU **(2003):** Humidity changes In Southern Tunisia during the late Pleistocene Inferred from U-Th dating of mollusc schells. Applied Geochemistry 18, pp 1691-1703.**12-** M.Yermani, **K.ZOUARI,** J.L.MICHELOT, A.MAMOU, L.MOUMNI(**2003)**- Approche géochimique du fonctionnement de la nappe profonde de Gafsa Nord (Tunisie centrale). Hydrological Sciences Journal 48, 2003. pp 95-108.**13-**W.M.EDMUNDS, A.H.GUENDOUZ, A.MAMOU, A.MOULLA, P.SHANG et **K. ZOUARI (2003)**: Groundwater evolution in the Continental Intercalaire aquifer of Southern Algeria and Tunisia: trace element and isotopic indicators. Applied Geochemistry 18, (2003), pp 805-822.**14-** C.BEDOUI,H. BEN OUEZDOU**, K.ZOUARI,** (**2004**): Géomorphologie et phases humide quaternaires dans la cuvette de Meknassy (Tunisie central) .Z.geomorph.N.F.48.3355.-368-. Berlin. Stuttgart.**15-** L.DaSSI, **K.ZOUARI,** K.P. SEILER, S. FAYE, S. KAMEL (**2005**): Flow exchange between the deep and shallow groundwater in the Sbeїtla synclinal basin (Tunisia): an isotopic approach. Environment. Geology Vol 47,4. pp 501-511.**16-** L.DaSSI, **K.ZOUARI,** S.FAYE (**2005**): Identifying sources of groundwater recharge in the Merguellil river basin (Tunisia) using the isotopic methods: implication of dam reservoir water accounting. Environmental Geology Volume 49, 1. pp 114-123. **17-** S.KAMEL, L.DaSSI, **K.ZOUARI,** B. ABIDI (**2005**): Geochemical and isotopic investigation of the aquifer system in Djerid- Nefzaoua basin, Southern Tunisia. Environmental Geology Volume 49, 1. pp 159-170**.****18-** K.KAID RASSOU, Y.FAKIR, M.BAHIR, **K.ZOUARI,** M.MARAH et J.P.MONTEIRO (**2005**) : Apport des analyses isotopiques à la compréhension du fonctionnement des aquifères côtiers du bassin hydrologique de la lagune d'Oualidia (océan atlantique marocain). Comunicações Geológicas 2005, t.92, pp129-142.**19-K. ZOUARI,** S.Kamel et N.CHKIR **(2006):** Long-term dynamic isotope and hydrochemical changes in the deep aquifer of "Complexe terminal" (Southern tunisia); Isotopic Assessment of long Term groundwater Exploitation. IAEA-TECDOC-CD-1507**20-** S.Ben Ammar, **K. ZOUARI,** C.Leduc et J.M’bareK **(2006):** Caractérisation isotopique de la relation barrage – nappe dans le bassin du Merguellil (Plaine de Kairouan, Tunisie centrale). Journ. Sciences Hydrologiques Vol 51, n°2.**21-** *D. Genty, D. Blamarta, B. Ghaleb, V. PLAGNES, ch. causse, m. BAKALOWICZ,* ***K. Zouari,*** *N. CHKIR, J. HELELSTROM, K. WAINER, F. BOURGES****(2006)*:** Timing and dynamics of the last deglaciation from European and North African d13 stalagmite profiles—comparison with Chinese and South Hemisphere stalagmites, Quaternary Science Reviews 25 (2006), p2118–2142***22-****S. KAMEL, L. DASSI et* ***K. ZOUARI******(2006)*** *Approche hydrogéologique et hydrochimique des échanges hydrodynamiques entre aquifères profond et superficiel du bassin du Djérid, Tunisie. Hydrological Sciences Journal, 51(4) 713-730.* doi.org/10.1623/hysj.51.4.713.**23-**Z. Gargouri–Ben Ayed, R. Souissi, M.Souissi et **K. Zouari (2007)**: Sedimentary dynamics and ecological state of Nakta tidal flat (littoral), South of Sfax, Golf of Gabes (Tunisia), Chinese Journal of Geochemistry Vol.26 No.3,2007 **24-**S.KAMEL, H. YOUNES, N.CHKIR et **K.ZOUARI (2007):** The hydro-geochemical characterization of groundwaters in Tunisian Chott’s region. Environmental Geology (2007) DOI 10.1007/s00254-007-0867-7**25-** *C. LEDUC, S. BEN AMMAR, G. FAVREAU , R. BEJI , R. VIRRION , G. LACOMBE , J. TARHOUNI , C. AOUADI , B. ZENATI CHELLI , N. JEBNOUN , M. OI , J. L. MICHELOT &* ***K. ZOUARI* (2007):** Impacts of hydrological changes in the Mediterranean zone: environmental modifications and rural development in the Merguellil catchment, central Tunisia, Hydrological Sciences Journal–des Sciences December 2007. P1162-1177.**26-** S. BEN AMMAR, **K. ZOUARI et** C. LEDUC **(2007):** Assessment of A new recharge Process in The Kairouan plain aquifer caused by leakage From El Haouareb dam (Central Tunisia). G-WADI de l’UNESCO : <http://www.g-wadi.org/casestudies/>.**27-** N. Chkir et **K. Zouari (2007)** : Uranium isotopic disequilibrium for groundwater classification: first results on complexe terminal and continental intercalaire aquifers in Southern Tunisia, Environ Geol (2007) 53: p 677–685.**28-** R.TRABELSI, A. KACEM, **K. ZOUARI** et K. ROSANSKI (**2008**): Quantifying regional groundwater flow between Continental Intercalaire and Djeffara aquifers in southern Tunisia using isotope methods. Environ Geol, Doi 10. 1007/s00254-008-1503-X**29-** A.Kacem, A. Daoud et **K. Zouari (2008):** Le bassin versant de Sisseb El Alem (Tunisie centrale): Importance, caractéristiques des aquifères et éléments pour une meilleure gestion, Sècheresse (2008) 19 (1), p 55-60.**30-** N. CHKIR, R. TRABELSI, M. BAHIR, F. HADJ AMMAR, **K. ZOUARI,** H.CHAMCHATI et J.P. MONTEIRO **(2009).**  Vulnérabilité des ressources en eaux des aquifères côtiers en zones semi-arides – Etude comparative entre les bassins d’Essaouira (Maroc) et de la Jeffara (Tunisie), Comunicações Geológicas, 2008, t. 95, pp. 107-121.**31-** F. BEN HAMOUDA, C. LEDUC, J. TAHROUNIet **K. ZOUARI (2009**) ; Origine de la minéralisation dans l’aquifère plio-quaternaire de la cote orientale du Cap Bon (Tunisie), Sècheresse 2009, 20 (1), p78-86.**32-**A.BEN MOUSSA**, K. ZOUARI et** N. OUESLATI **(2009),** Geochemical study of groundwater mineralization in the Grombalia shallow aquifer, north-eastern Tunisia: Implcation of irrigation and industrial waste water accouting. Environ Geol, Doi 10. 1007/s00254-008-1530-7***33****-F.FADLELMAWLA, K.HADI,* ***K.ZOUARI****, K.M.KULKARNI* ***(2009)****: Hydrogeochemical investigations of recharge and subsequent salinization processes at Al Raudhatain Depression in Kuwait. Hydrological Sciences Journal (2008).***34-** N.CHKIR, A.GUENDOUZ, **K.ZOUARI,** F.HADJ AMMAR et A. MOULLA **(2009).** Uranium isotopes in groundwater from the continental intercalaire aquifer in Algerian Tunisian Sahara (Northern Africa), Journal of Environmental Radioactivity 100 (2009) 649–656.**35-** K.ABID, R. TRABELSI, **K. ZOUARI** etB. ABIDI **(2009),** Caractérisation hydrogéochimique de la nappe du continental intercalaire (sud tunisien). Hydrological Sciences–Journal–des Sciences Hydrologiques, 54 (3) Juin 2009.**36-** S. BEN AMMAR, L. JRIBI, G. FAVREAU, K. **ZOUARI,** C. LEDUC, M.OI, J. MBAREK et R. BEJI (**2009**). Evolution de la recharge de la nappe phréatique de la plaine du Kairouan (Tunisie Centrale) déduite de l’analyse chimique. Sècheresse 2009, 20 (1) p 87-95. **37-** M.YERMANI, N.CHKIR, **K.ZOUARI,** Y.MICHELOT et L.MOUMNI (**2009**): Environmental tracers as indicators of water fluxes through the unsaturated zone in semiarid regions: the case of Gafsa plain (Southern Tunisia. Journal of environnemental hydrology, volume 17 paper 31 November 2009, 16p**38-** A.BEN MOUSSA, **K. ZOUARI** et V. Marc **(2010) :** Hydrochemical and isotope evidence of groundwater salinization processes on the coastal plain of Hammamet–Nabeul, north-eastern Tunisia; Physics and Chemistry of the Earth 2010.03.039, 12p**39-** Kamel Abid, **Kamel Zouari**, Marek Dulinski, Najiba Chkir, Brahim Abidi **(*2010)***« Hydrologic and geologic factors controlling groundwater geochemistry in the Turonian aquifer (southern Tunisia)». *Hydrogeology Journal, DOI 10.1007/s10040-010-0668-z.***40-** Kamel Abid**, Kamel Zouari,** Brahim Abidi ***(2010)***«Identification and characterisation of hydrogeological relays of continental intercalaire aquifer of southern Tunisia». *Carbonates Evaporites Journal (2010) 25:65–75.***41-**Hichem Yangui, **Kamel Zouari**, Rim Trabelsi, Kazimierz Rozanski ***(2010)****-*Recharge mode and mineralization of groundwater in a semi-arid region: Sidi Bouzid plain” *Journ. of Environ Earth Sci, DOI 10.1007/s12665-010-0771-4 (2010)*.**42-**Friha Hadj Ammar, Najiba Chkir, **Kamel Zouari**, Zohra Azzouz-Berriche ***(2010)***« Uranium isotopes in groundwater from the Jeffara coastal aquifer (south-eastern Tunisia) ». *Journal of Environmental Radioactivity 101 (2010) 681-691.***43-**Amor Ben Moussa, **Kamel Zouari,** Vincent Marc ***(2010)***« Hydrochemical and isotope evidence of groundwater salinization processes on the coastal plain of Hammamet-Nabeul, North-eastern Tunisia». *Journal of Physics and Chemistry of the Earth. DOI :10.1016/j.pce.20102010. 03. 039(2010)*.**44-**Amor Ben Moussa, Sarra Bel Haj Salem, **Kamel Zouari,** Fayçal Jlassi ***(2010)***« Hydrochemical and isotopic investigation of the groundwater composition of an alluvial aquifer, Cap Bon Peninsula, Tunisia». *Carbonates Evaporites Journal (2010) 25:161-176. DOI 10.1007/s13146-010-0020-7(2010)*.**45-**Amor Ben Moussa, Sarra Bel Haj Salem, **Kamel Zouari,** Vincent Marc ***(2010)***«Investigation of groundwater mineralization in the Hammamet-Nabeul unconfined aquifer north-eastern Tunisia: geochemical and isotopic approach» *Journal of Environ. Earth. Sci. DOI 10.1007/s12665-010-0616-1(2010).***46-**Rim Trabelsi**, Kamel Zouari *(2010)***«Numerical simulation of Groundwater flow of the Djeffara aquifer system Southeastern Tunisia: Journal of Modeling and Simulation System». *Journal of Modelling and Simulation Systems, JMSS-Vol.1-2010/Iss.3.pp147-156 (2010)***47-Kamel Zouari,** Rim Trabelsi, Najiba Chkir ***(2010)***«Using geochemical indicators to investigate groundwater mixing and residence time in the aquifer system of Djeffara of Medenine (Southeastern Tunisia) ». *Hydrogeology Journal Doi 10.1007/s10040-010-0673-2 (2010).***48-**Mohamed Fethi Ben Hamouda, Jamila Tarhouni, Christian Leduc, **Kamel Zouari *(2010)***«Understanding the origin of salinization of the Plio-quaternary Eastern coastal aquifer of Cap Bon (Tunisia) using geochemical and isotope investigations». *Environ. Earth Sci. Journal 2010, DOI 10.1007/s12665-010-0758-1(published October 2010).***49-**YANGUI Hichem, **ZOUARI Kamel**, KAZIMIERZ Rozanski **(2011)** « Hydrochemical and isotopic study of groundwater in Wadi El Hechim–Garaa Hamra basin, Central Tunisia» Environ Earth Sci (2012) 66:1359–1370, DOI 10*.1007/s12665-011-1346-8.***50-**ABID Kamel**,** DULINSKI Marek**,** HADJ AMMAR Friha**,** KAZIMIERZ Rozanski**, ZOUARI Kamel (2011)** «[Deciphering interaction of regional aquifers in Southern Tunisia using hydrochemistry and isotopic tools](http://www.sciencedirect.com/science/article/pii/S0883292711003891?_alid=1817979541&_rdoc=1&_fmt=high&_origin=search&_docanchor=&_ct=3&_zone=rslt_list_item&md5=6513653174803f4e1529cbd39c756756)» *Applied Geochemistry, In Press, Corrected Proof, Available online 7 September 2011, DOI:10.1016/j.apgeochem.2011.08.015.***51-**ABID Kamel, HADJ AMMAR Friha, CHKIR Najiba, **ZOUARI Kamel (2011)** «[Relationship between Senonian and deep aquifers in Southern Tunisia](http://www.sciencedirect.com/science/article/pii/S1040618211005416?_alid=1817979541&_rdoc=2&_fmt=high&_origin=search&_docanchor=&_ct=3&_zone=rslt_list_item&md5=f4de6238ec95cfa0161d3731b814b430)»- Quaternary International 257 (2012) 13-26, *DOI:10.1016/j.quaint.2011.09.022.***52-**TRABELSI Rim, ABID Kamel, **ZOUARI Kamel,** YAHYAOUI Houcine **(2011)** «Groundwater salinization processes in shallow coastal aquifer of Djeffara plain of Medenine, Southeastern Tunisia» *Environ Earth Sci. 2011, DOI 10.1007/s12665-011-1273-8.***53-**TRABELSI Rim, ABID Kamel, **ZOUARI Kamel (2011)**-Geochemistry processes of the Djeffara palaeogroundwater (South-eastern Tunisia)- *Quaternary International, 2011 DOI:10.1016/j. quaint.2011.10.029.* **54-**BEN MOUSSA Amor, **ZOUARI Kamel,** JLASSI Fayçal **(2011)** «The hydrogeology of the deep groundwater system in the Hammamet–Nabeul regional basin, north-eastern Tunisia a hydrochemical and isotopic approach» *Carbonates and Evaporites (2011) volume26 number 4:327–338.***55-**BEN MOUSSA Amor, **ZOUARI Kamel,** VALLES Vincent, JLASSI Fayçal **(2011)** «Hydrogeochemical Analysis of Groundwater Pollution in an Irrigated Land in Cap Bon Peninsula, North-Eastern Tunisia» *Arid and land research management 26:1, 1-14, DOI: 10.1080/15324982.2011.631688.* **56-**BENCHEIKH Narjess, **ZOUARI Kamel,** ABIDI Brahim **(2011)** «Geochemical and isotopic study of paleogroundwater salinization in Southeastern Tunisia (Sfax basin) » *Quaternary International – 2011-DOI:10.1016/j.quaint.2011.10.028.***57-**BEL HADJ SALEM Sarra, BEN MOUSSA Amor, CHKIR Najiba, **ZOUARI Kamel,** COGNARD-PLANCQ Anne Laure, MARC Vincent, VALLES Vincent **(2011)** **«**Geochemical and isotopic investigation of groundwater mineralization process in the Zeroud basin, central Tunisia » *Carbonates Evaporites (2011)/ DOI 10.1007/s13146-011-0058-1. ISSN 0891-2556.***58-**BEL HADJ SALEM Sarra, CHKIR Najiba, **ZOUARI Kamel,** COGNARD-PLANCQ Anne Laure, VALLES Vincent, MARC Vincent **(2011)** «Natural and artificial recharge investigation in the Zéroud Basin,Central Tunisia: impact of Sidi Saad Dam storage» *Environ Earth Sci/ DOI 10.1007/s12665-011-1316-1.***59-**JERIBI DERWICH Leila, **ZOUARI Kamel,** MICHELOTJean-Luc **(2011) «**Recharge and paleorecharge of the deep groundwater aquifer system in the Zeroud Basin (Kairouan plain, Central Tunisia) » *Quaternary International, 2011 DOI:10.1016/j.quaint.2011.12.003****60****-I. FARID,* ***K. ZOUARI*** *et A. KALLALI* ***(2012):*** *Origine de la salinité des eaux du bassin chougafiya (Tunisie). Revue des Sciences de l’Eau, 25(3) (2012) 255-274.* |

***61-*** *BEN CHEIKH Narjess,* ***ZOUARI Kamel****, ABIDI Brahim* ***(2012)****-Application des outils chimiques et isotopiques à l’étude de la relation hydrodynamique entre les aquifères profonds de Sfax et de la Djeffara de Gabès Nord (Sud-Est tunisien).* Hydrological Sciences Journal, DOI:10.1080/02626667.2012.717699.

***62-****Hichem YANGUI, ABIDI Ibrahim,* ***ZOUARI Kamel****, ROZANSKI Kazimierz* ***(2012):*** *«Deciphering groundwater flow between the Complex Terminal and Plio-Quaternary aquifers in Chott Gharsa plain (southwestern Tunisia) using isotopic and chemical tools».* Hydrological Sciences Journal, 57:5, 967-984.

***63-*** *FARID Intissar, TRABELSI Rim,* ***ZOUARI Kamel****,**ABID Kamel, AYACHI Med* ***(2012) -****Hydrogeochemical processes affecting groundwater in an irrigated land in Central Tunisia».* Environmental Earth Sciences DOI 10.1007/s12665-012-1788-7.

***64-*** *CHARFI Sihem, TRABELSI Rim,* ***ZOUARI Kamel****, CHKIR Najiba, CHARFI H., REKAIA M.* ***(2012):*** *«Isotopic and hydrochemical investigation of the Grombalia deep aquifer system, northeastern Tunisia».* Carbonates Evaporites (2013) 28:281–295. DOI 10.1007/s13146-012-0114-5.

***65-*** *BEL HADJ SALEM Sarra, CHKIR Najiba,* ***ZOUARI Kamel****,**Anne Laure Cognard-Plancq, Vincent**Valles* ***(2012):*** *«Hydrochemical and Isotope Evidence of Groundwater Contamination of Cultivated Fields of Semi-Arid Environments in Tunisia».* Arid Land Research and Management, 26:181–199.

**66-** CHKIR Najiba, HADJ AMMAR Friha, **ZOUARI** **Kamel (2012):** «Naturally occurring uranium in groundwater of the North Western Sahara Aquifer System (Northern Africa)». *Nova Science Publishers pp.1-47.*

**67-** Intissar Farid, Rim Trabelsi , Kamel Zouari, Ridha Beji **(2013):** «Geochemical and isotopic study of surface and groundwaters in Ain Bou Mourra basin, central Tunisia». *Quaternary International (2013) 303 (2013) 210-227*

***68****- Z. KRAIEM, N. CHKIR,* ***K. ZOUARI****, J. C. PARISOT, A. AGOUN AND D. HERMITTE* ***(2012):*** *Tomographic, hydrochemical and isotopic investigations of the salinization processes in the oasis shallow aquifers, Nefzaoua region, southwestern Tunisia. Journal of Earth System Sciences. 121, No. 5, October 2012, pp. 1185–1200.*

**69-** Zohra Hchaichi, Kamel Abid, Kamel Zouari **(2013) -**Use of hydrochemistry and environmental isotopes for assessment of groundwater resources in the intermediate aquifer of the Sfax basin (Southern Tunisia).*Carbonates Evaporites DOI 10.1007/s13146-013-0165-2*

**70**- Intissar Farid, Rim Trabelsi, **Kamel Zouari**, Kamel Abid, Mohamed Ayachi **(2013)** « Deciphering the interaction between quaternary and continental Sabkhas aquifers in Central Tunisia using hydrochemical and isotopic tools» *Environmental Earth Sciences doi 10.1007/s12665-013-2395*

**71**- Zohra Kraiem, **Kamel Zouari**, Najiba Chkir, Aissa Agoune **(2013)** «Geochemical characteristics of arid shallow aquifers in Chott Djerid, south-western Tunisia» *Hydro-environment Research 8-(2014) 460e473 doi.org/10.1016/j.jher.2013.06.002*.

**72-** Sihem Charfi, **Kamel Zouari**, Saber Feki, Ezeddine Mamic **(2013)** «Study of variation in groundwater quality in a coastal aquifer in north-eastern Tunisia using multivariate factor analysis» *Quaternary International 302 (2013) 199-209*.

**73**- Narjess Ben Cheikh, **Kamel Zouari**, Brahim Abidi **(2013)** «A hydrogeochemical approach for identifying salinization processes in the Cenomanian–Turonian aquifer, south-eastern Tunisia » *Carbonates Evaporites doi 10.1007/s13146-013-0166-1*.

**74-** J. O. Petersen, P. Deschamps, B. Hamelin, J. Goncalves , J-L. Michelot, K. Zouari **(2013)-**Water-rock interaction and residence time of groundwater inferred by "otJ P38lJ disequilibria in the Tunisian Continental Intercalaire aquifer system- *Procedia Earth and Planetary Science 7 (2013) 685 – 688*.

***75-*** *FARID Intissar,* ***ZOUARI Kamel****,**ABID Kamel, AYACHI Mohamed* ***(2013):*** *«Hydrogeochemical investigation of surface and groundwater composition in an irrigated land in Central Tunisia».* Journal of African Earth Sciences 78 (2013) 16–27.

**76-** Jarraya Houcine, Hadj Ammar Friha, Abid Kamel, **Zouari Kamel**, Aissa Aggoune **(2014)** «Study of Rejim Maatoug groundwater in southern Tunisia using isotope methods- *Journal of Hydro-environment Research 8- (2014)316e327doi.org/10.1016/j.jher.2013.04.001*.

**77**- Kamel Abid, Friha Hadj Ammar, Stephan Weise, **Kamel Zouari**, Najiba Chkir, Kazimierz Rozanski, Karsten Osenbrück **(2014)** ''Geochemistry and residence time estimation of groundwater from MioceneePliocene and Upper Cretaceous aquifers of Southern Tunisia'' *Quaternary International (2014) 1-12*.

***78-*** *S. BEN AMMAR, J.-D. TAUPIN,* ***K. ZOUARI****, M. KHOUATMIA& M. BEN ASSI****(2014):*** *Etude géochimique et isotopique d’un aquifère phréatique côtier anthropisé: Nappe de Oussja-Ghar El Melah (Tunisie). Hydrology in a Changing World: Environmental and Human Dimensions Proceedings of FRIEND-Water 2014, Hanoi, Vietnam, February 2014 (IAHS Publ. 363, 2014).*

**79**- Amor Ben Moussa, Houcem Mzali, **Kamel Zouari**, Hmeda Hezzi **(2014)** ''Hydrochemical and isotopic assessment of groundwater quality in the Quaternary shallow aquifer, Tazoghrane region, north-eastern Tunisia'' *Quaternary International 338 (2014) 51-58.*

**80**- Intissar Farid, **Kamel Zouari**, Rim Trabelsi and Abd Rahmen Kallali **(2014)** ''Application of environmental tracers to study groundwater recharge in a semi-arid area of Central Tunisia'' *Hydrological Sciences Journal, DOI:10.1080/02626667.2013.863424.*

**81**- J.O. Petersen, P. Deschamps, J. Gonçalvès, B. Hamelin, J.L. Michelot, A. Guendouz, **K. Zouari** **(2014)** ''Quantifying paleorecharge in the Continental Intercalaire (CI) aquifer by a Monte-Carlo inversion approach of 36Cl/Cl data' J. A*pplied Geochemistry-50(2014) -*209-221

**82**- Friha Hadj Ammar, Najiba Chkir, **Kamel Zouari**, Bruno Hamelin, Pierre Deschamps, Aissa Aigoun **(2014)** '' Hydro-geochemical processes in the Complexe Terminal aquifer of southern Tunisia: An integrated investigation based on geochemical and multivariate statistical methods'' *Journal of African Earth Sciences 100 (2014) 81–95*.

**83**- Hatem El Mejri, Amor Ben Moussa, **Kamel Zouari** **(2014)** ''The use of hydrochemical and environmental isotopic tracers to understand the functioning of the aquifer system in the Bou Hafna and Haffouz regions, Central Tunisia'' *Quaternary International 338 (2014) 88-98*.

**84**- Kodjo Apelete Raoul Kpegli ,Abdoukarim Alassane, Rim Trabelsi, **Kamel Zouari**, Moussa Boukari, Daouda Mama, Firmin Leonce Dovonon, Yede Victor Yoxi, Luis Eduardo Toro-Espitia : Geochemical processes in Kandi Basin, Benin,West Africa: A combined hydrochemistry and stable isotopes approach, *Quaternary International 369 (2015) 99-109*.

**85**- Alassane, A., Trabelsi, R., Dovonon, L.F., Odeloui, D.J., Boukari, M., **Zouari, K**. and Mama, D, **(2015).** Chemical Evolution of the Continental Terminal Shallow Aquifer in the South of Coastal Sedimentary Basin of Benin (West-Africa) Using Multivariate Factor Analysis. *Journal of Water Resource and Protection, 7, 496-515*.

**86**- Intissar Farid, **Kamel Zouari**, Adel Rigane and Ridha Beji **(2015)** ''Origin of groundwater salinity and geochemical processes in detrital and carbonate aquifers: case of Chougafiya basin (Central Tunisia) '' *Journal of Hydrology 530 (2015)***-** *508-532.*

***87- K. ZOUARI (2015)*** *- Le contexte paléo climatique de la Tunisie et la tendance actuelle du climat. Publication Beit EL Hekma.Tunisie.*

**88**- Zohra Kraiem, **Kamel Zouari**, Narjess Bencheikh, Aissa Agoun & Brahim Abidi **(2015)**: Processus de minéralisation de la nappe du Plio-Quaternaire dans la plaine de Segui-Zograta (Sud-Ouest tunisien), *Hydrological Sciences Journal, DOI: 10.1080/02626667.2013.877587*

**89-** Safouan Ben Ammar, Jean-Denis Taupin, **Kamel Zouari**, Mohamed Khouatmia **(2016)** - Identifying recharge and salinization sources of groundwater in the Oussja Ghar El Melah plain (northeast Tunisia) using geochemical tools and environmental isotopes. Environ Earth Science (2016)75 :606 –DOI 10.1007/s12665-016-5431-x.

**90-** Rahma Ayadi, **Kamel Zouari**, Hakim Saibi, Rim Trabelsi, Hafedh Khanfir **(2016)** - Determination of the origins and recharge rates of the Sfax aquifer system (southeastern Tunisia) using isotopes tracers. Environ Earth Sciences. (2016)75:636 –DOI 10.1007/s12665-016-5445-4.

**91** - Z. Dhaoui, N. Chkir , **K. Zouari**, F. Hadj Ammar, A. Agoune **(2016)** : *Investigation of uranium geochemistry along groundwater flow path in the Continental Intercalaire aquifer (Southern Tunisia)-*  *Journal of Environmental Radioactivity 157 (2016) 67-76.*

**92**- Aissa Agoune, **Kamel Zouari**, Najiba Chkir, Friha Hadj Ammar **-(2016)** : *Hydrogeological Characteristics of the Geothermal Transboundary Aquifer Reservoir Case Study of the Continental Intercalaire Aquifer System in North Sahara Aquifer System (NSAS) in Southern Tunisian Field-International Journal of Environmental Sciences and Toxicology Research -ISSN 2408-7262-Vol 4(4) pp 54-60.*

***93 -***Zahra Dhaoui, **Kamel Zouari**, Jean Denis Taupin, Rachid Farouni **(2016)** : *Hydrochemical and isotopic investigations as indicators of recharge processes of the continental Intercalaire aquifer(eastern piedmont of Daha, southern Tunisia)-*  *Environ Earth Science(2016)75 :1186 –DOI 10.1007/s12665-016-5990-x.*

**94**-Sylvi Haldorsen, Martine J. van der Ploeg, Dioni I. Cendón, Jianyao Chen, Najiba Chkir Ben Jemâa, Jason J. Gurdak, Roland Purtschert*,Ofelia Tujchneider, Rein Vaikmäe, Marcela Perez, and* ***Kamel Zouari*** **(2016)** : *Groundwater and Global Palaeoclimate Signals(G@GPS) in Episodes- December 2016 -DOI: 10.18814/epiiugs/2016/v39i4/103888.*

**95**- Mohammed Bahir, Salah Ouhamdouch, Paula`M. Carreira, Najiba Chkir, **Kamel Zouari** **(2016).** -Geochemical and isotopic investigation of the aquifer system under semi-arid climate: case of Essaouira basin (SouthwesternMorocco)”. *Carbonates Evaporites, DOI 10.1007/s13146-016-0323-4.*

**96**- Zohra Hachaichi, Najiba Chkir, **Kamel Zouari**, Anne.Laure Cognard-Plancq, Vincent Marc, Yves Travi **(2016).** “Improving the Hydrogeological Conceptual Model of the Sidi Merzoug-Sbiba Aquifer System (North-West of Tunisia) Using Hydrochemistry and Isotopic Tools”. *Journal of Hydrogeology & Hydrologic Engineering, DOI: 10.4172/2325-9647.1000150.*

**97**- Lotfi Ghnainia, Mabrouk Eloussaief, **Kamel Zouari**, Chedly Abbes**- (2016)-**Wastewater treatment in petroleum activities: example of ‘‘SEWAGE’’ unit in the BG Tunisia Hannibal plant. Appl. Petrochem Res (2016) 6:155–162 DOI 10.1007/s13203-015-0143-9

**98-** A.Ben Moussa, S.Haj Salem, **K.Zouari**, F, Jlassi **(2017)** -Hydrochemical and stable isotopic investigation of groundwater quality and its sustainability for irrigation in the Hammamet-Nabeul basin, northeastern Tunisia” *Arabian Journal of Geosciences 10 (20) DOI10.1007/s12517-017-3233-4.*

**99-** C. Tringali, V. Re, G. Siciliano, N. Chkir, C. Tuci, **K. Zouari** **(2017)**- Insights and participatory actions driven by a socio-hydrogeological approach for groundwater management: the Grombalia Basin case study (Tunisia). *Hydrogeology Journal DOI: 10.1007/s10040-017-1542-z.*

**100-** V. Re, E. Sacchi, S. Kammoun, C. Tringali, R. Trabelsi, **K. Zouari,** S. Daniele **(2017)**- Integrated socio-hydrogeological approach to tackle nitrate contamination in groundwater resources. The case of Grombalia Basin (Tunisia). *Science of the Total Environment 593-594(2017) 664-676.*

**101-** S. Ouhamdouch, M. Bahir, P. M. Carreira and **K. Zouari (2017**)- Groundwater Responses to Climate Change in a Coastal Semi-arid Area from Morocco; Case of Essaouira Basin. Springer International Publishing AG 2018- M. L. Calvache et al. (eds.), Groundwater and Global Change in the Western Mediterranean Area, *Environmental Earth Sciences, https://doi.org/10.1007/978-3-319-69356-9\_29*

**102-**Najiba Chkir, Messaouda Yermani**, Kamel Zouari** **(2017)-** Water isotopes for sustainable management of agricultural water: Case of the Plain of Mateur (North Tunisia), in “Agro-Environmental Sustainability in MENA region, Vol. IV: Sustainable Water and Soil Resources Management in Agriculture practices" edited by Dr. Faiza Allouche and Dr. Mohamed Abuhashim within the *Springer review series "The Handbook of Environmental Chemistry".*

**103**- Rahma Ayadi, Rim Trabelsi, **Kamel Zouari**, Hakim Saibi, RyuichiItoi, Hafedh Khanfir **(2017)**-Hydrogeological and hydrochemical investigation of groundwater using environmental isotopes (18O,2H,3H,14C) and chemical tracers: a case study of the intermediate aquifer, Sfax, southeastern Tunisia”. *Hydrogeology Journal,doi.org/10.1007/s10040-017-1702-1.*

**104**- Kammoun Siwar, Trabelsi Rim, Re Viviana, **Zouari Kamel**, Henchiri Jihed **(2018)** - Groundwater quality assessment in semi arid regions using integrated approaches: the case of Grombalia aquifer (NE Tunisia) Environ*. Monit. Assess. Journal DOI: 10.1007/s10661-018-6469-x.*

**105**- Petersen, J.O., Deschamps, P., Hamelin, B., Fourré, E., Gonçalvès, J., **Zouari, K**., Guendouz, A., Michelot, J.-L., Massault, M., Dapoigny, A., Team, A- **(2018)**-Groundwater flowpaths and residence times inferred by 14C, 36Cl and 4He isotopes in the Continental Intercalaire aquifer (North-Western Africa), *Journal of Hydrology (2018),* [*https://doi.org/10.1016/j.jhydrol.2018.03.003*](https://doi.org/10.1016/j.jhydrol.2018.03.003)*.*

**106**- Wèré Gédéon Sambiénou, Laurence Gourcy, Abdoukarim Alassane, Christophe Kaki, Yao Yelidji Joël Tossou, Daouda Mama, Moussa Boukari, **Kamel Zouari-(2018) -** Flow Pattern and Residence Time of Groundwater within Volta River Basin in Benin (Northwestern Benin). *Journal of Water Resource and Protection, 2018, 10, 663-680.*

**107**-Siwar Kammoun, Viviana Re, Rim Trabelsi, **Kamel Zouari**, Salvatore Daniele-**(2018)** Assessing seasonal variations and aquifer vulnerability in coastal aquifers of semi-arid regions using a multi-tracer isotopic approach: the case of Grombalia (Tunisia). *Hydrogeology Journal (2018)* [*https://doi.org/10.1007/s10040-018-1816-0*](https://doi.org/10.1007/s10040-018-1816-0)

**108-** Rim Trabelsi et **Kamel Zouari** **(2019)**: Coupled geochemical modeling and multivariate statistical analysis approach for the assessment of groundwater quality in irrigated areas: A study from North Eastern of Tunisia. *Groundwater for Sustainable Development* Journal. *DOI: 10.1016/j.gsd.2019.01.006*

**109**-Amor Ben Moussa, Sawsan Chandoul, Houcem Mzali, Sarra Bel Haj Salem, Hatem Elmejri, **Kamel Zouari**, Amor Hafiane, Habib Mrabet (2020)- Hydrogeochemistry and evaluation of groundwater suitability for irrigation purpose in the Mornag region, northeastern Tunisia. Environment, Development and Sustainability.

<https://doi.org/10.1007/s10668-020-00696-z>.

**110**- Friha HADJAMMAR, Pierre DESCHAMPS, Najiba CHKIR, **Kamel ZOUARI**, Aissa AGOUNE, Bruno HAMELIN (2020)- UraniumisotopesastracersofgroundwaterevolutionintheComplexeTerminal aquifer of southern Tunisia. Quaternary International xxx(xxxx)xxx-xxx.

**111**- Salah Ouhamdouch, Mohammed Bahir, Driss Ouazar, Abdelmalek Goumih, Kamel Zouari (2020)- Assessment the climate change impact on the future 6 evapotranspiration and flows from a semi-arid environment-Arabian Journal of Geosciences \_############\_ https://doi.org/10.1007/s12517-020-5065-x.