

## CURRICULUM VITAE

### Harilaos Tsikos

#### PERSONAL DATA

Date of birth: 21 March 1969  
Nationality: Hellenic (Greek)  
Permanent residence status: South Africa  
Languages: English (fluent); Greek (mother tongue); Dutch (basic)  
Marital status: Married (with two children)  
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#### CURRENT POSITION

- Assistant Professor in Geochemistry, University of Patras, GR-26504 Patras, GREECE

#### ACADEMIC QUALIFICATIONS

- 10/1986 – 07/1991: BSc Geology, National & Kapodistrian University of Athens, Greece.
- 04/1992 – 03/1994: MSc Economic Geology, Rhodes University (by coursework and thesis)  
Thesis title: *The mineralogy and geochemistry of the Voëlvater banded iron-formation, Northern Cape Province.*  
Supervisor: Prof. J.M. Moore (Rhodes University, deceased)
- 05/1995 – 03/1999: PhD Geology, Rhodes University, South Africa (by research only)  
Thesis title: *Petrographic and geochemical constraints on the origin and post-depositional history of the Palaeoproterozoic Hotazel iron-manganese Formation, Kalahari Manganese Field, South Africa.*  
Supervisors: Prof. J.M. Moore (Rhodes University, deceased), Prof. R.E. Jacob (Rhodes University – retired), and Prof. N.J. Beukes (University of Johannesburg, *nee* RAU – retired)

#### POST-DOCTORAL EXPERIENCE

- 04/1999 – 06/2000: Geology Department, University of Johannesburg, RSA.  
Funded by: *National Research Foundation (NRF)*; Advisor: Prof. N.J. Beukes
- 09/2000 – 08/2003: Research Associate, Department of Earth Sciences, University of Oxford, UK.  
Funded by: *European Commission – Research Training Networks*; Advisor: Prof. H.C. Jenkyns
- 05/2004 – 09/2005: Department of Geology & Petroleum Geology, University of Aberdeen, UK.  
Funded by: *The Leverhulme Trust*; Advisor: Prof. J. Parnell

#### ACADEMIC EXPERIENCE

- 10/2005 – 04/2021: Geology Department, Rhodes University, Makhanda/Grahamstown, RSA  
Academic rank: Senior Lecturer (2005-13) and Associate Professor (2014-21) in Economic Geology  
Leadership position: Head of **PRIMOR** (**P**ostgraduate **R**esearch in **I**ron & **M**anganese **O**re **R**esources): a formal Research Unit sponsored by *ASSMANG (Associated Manganese Mines of South Africa) Ltd* (2014-21)  
Academic honours: Recipient of the Rhodes University Internationalisation Award (2015)  
Administrative responsibilities:
  - Member, Science Faculty Research sub-committee, Rhodes University (2008-10)
  - Selection Committee Service, Rhodes University (2008, 2010, 2012, 2015)
  - Geology Department Library Liaison Officer, Rhodes University (2011-20)
  - Member, Promotion Reviews Committee, Rhodes University (2013)
  - Member, Internationalisation Committee, Rhodes University (2013)

## TEACHING EXPERIENCE

### Courses

- 2005-20: *Mineral Resources of South Africa*: 12 lectures & 3 practical assignments (Geology 102)
- 2005-20: *Economic Geology*: 35 lectures & 7 practical assignments (Geology 302)
- 2006-20: *Low-temperature Geochemistry*: 15 lectures & 3 practical assignments (Geology 301)
- 2006-21: *Hydrothermal-Sedimentary Ore Deposits*: 24 lectures & 4 practical assignments (Geology Honours)
- 2016-19: *Metallogenesis in the marine environment*: A week-long course presented as part of the Rhodes University former modular MSc program in Exploration & Economic Geology
- Since 2017: *An introduction to ore-forming processes*: An invited, 3-day guest course presented annually as part of the MSc programme in Earth Resources at Utrecht University, The Netherlands.

### Field-trips

- 2006-10, 2016: Co-leader, Geology Honours field-school (field mapping and ore geology)
- 2009: Leader, MSc Exploration Geology field-trip to the Northern Cape, North West and Limpopo Provinces (hydrothermal and sedimentary mineralisation)
- 2012-15: Leader, Geology 3<sup>rd</sup>-year field-trip (Proterozoic stratigraphy and mineralisation)
- 2016: Co-leader, MSc Exploration Geology field-trip to the Northern Cape Province (hydrothermal and sedimentary mineralisation)
- 2018-19: Co-leader, Geology 3<sup>rd</sup>-year field-trip (stratigraphy, sedimentology, structure and economic geology – Karoo & Cape Supergroups)

## SABBATICAL & OTHER RESEARCH VISITS

- 05-07/2005: Laboratory of Microbiology, Planetary & Space Sciences Research Institute (PSSRI), The Open University, Milton Keynes, UK (Host: Prof. C.S. Cockell)
- 09/2003-02/2004, 01-03/2009: Department of Marine Biogeochemistry & Toxicology, Royal Netherlands Institute for Sea Research (NIOZ), the Netherlands (Host: Prof. J.S.S. Damsté)
- 12/2010-06/2011: Department of Petrology, Faculty of Earth & Life Sciences, Vrije Universiteit, Amsterdam, The Netherlands (Host: Prof. P.Z. Vroon)
- 08-12/2014: Department of Geology & Geo-environment, National & Kapodistrian University of Athens, Greece (Hosts: Prof. V. Karakitsios, Prof. M. Stamatakis)
- 11-12/2015: Department of Earth Sciences, University of California at Riverside, USA (Host: Dist. Prof. T.W. Lyons)
- 01-03/2019: Laboratory of Geochemistry, Ecole Normale Supérieure (ENS) de Lyon, France (Hosts: Prof. J. Blichert-Toft, Prof. F. Albarede)

## RESEARCH FUNDRAISING

- Student Research Grant (\$700), Society of Economic Geologists Foundation, 1998.
- Intra-European Fellowship (IEF) – Marie-Curie Actions – European Commission (Call: FP6-2004-Mobility-5, 02/2005) (award declined to take up a previous academic post in South Africa).
- National Research Foundation (NRF), South Africa – Focus Area Programme 2008-2011 (R280 000, inclusive of one MSc bursary).
- NRF Incentive funding for Rated Researchers (R40 000 p.a.), 2009-2018.
- Industry grant (R320 000, towards one PhD and one MSc bursary) by ASSMANG Ltd, 2011-16.
- Industry grant (R280 000, towards two MSc bursaries) by KUMBA IRON ORE, 2011-13.
- NWO visitor's grant (€9 900) for 7-month sabbatical visit at the Vrije University, Amsterdam, the Netherlands (1/12-30/06/2011).
- Industry grant (R8,800 000) by ASSMANG Ltd towards establishing *PRIMOR*: a formal research unit with focus on the commodities of iron and manganese and their resources (2014-present).
- Industry grant (R510 000) for an MSc study under the tripartite *Northern Cape Research Group* (KUMBA IRON ORE, Rhodes University and University of Johannesburg), 2014-16.
- Funding linked to the NRF/DST Centre of Excellence in Integrated Mineral and Energy Resource Analysis (CIMERA): (R1,300 000, inclusive of 3 MSc and 1 PDRF bursaries, 2015-21).
- ENS visitor's grant (€7 900) for collaborative research at ENS, Lyon, France (11/01-15/03/2019).
- Industry grant (CAD25 000) by GIYANI METALS towards research on battery-grade manganese mineralisation in southern Africa (2021-22)

## POSTGRADUATE SUPERVISION

Awarded (2011):	Ms L. Sciscio (MSc, RU): sponsored by the <i>African Origins Platform</i> (NRF); co-supervised with Dr D. Roberts (Council for Geoscience, deceased)
Awarded (2013):	Mr B. Fairey (MSc, RU): sponsored by KUMBA IRON ORE Mr J. Land (MSc, RU): sponsored by KUMBA IRON ORE
Awarded (2014):	Mr M. Terracin (MSc, RU) Ms S. Foulkes (MSc, RU): sponsored by MINTEK; co-supervised with Prof. JM. Moore (RU, deceased)
Awarded (2015):	Mr S. Rafuza (MSc, RU): sponsored by RU ( <i>Henderson</i> ) & the GSSA
Awarded (2016):	Ms L. Fryer (MSc, RU): co-sponsored by the NRF & ASSMANG Ltd; co-supervised with Prof F. Viljoen (UJ) Ms E. Kampouroglou (PhD, NKUA): co-supervised with Prof. M. Economou-Eliopoulos & Prof. M. Stamatakis (NKUA) Mr A. vd Waal (MSc, UU); co-supervised with Prof PRD. Mason (UU) Ms M. Lantink (MSc, UU); co-supervised with Prof PRD. Mason (UU)
Awarded (2017):	Mr PBH. Oonk (PhD, RU): sponsored by PRIMOR; co-supervised with Prof PRD. Mason (UU) Mrs L. Blignaut (PhD, UJ): sponsored by ASSMANG Ltd: co-supervised with Prof. F. Viljoen (UJ) Mr V. Papadopoulos (MSc, RU): sponsored by KUMBA IRON ORE; co-supervised with Dr B. Smith (UJ) Mr DP. Cousins (MSc, RU): sponsored by PRIMOR Mr W. Moloto (MSc, RU): sponsored by PRIMOR; co-supervised with Prof. G. Watkins (RU) Mr ET. Harawa (MSc, RU)
Awarded (2018):	Mr J. Burse (MSc, RU): sponsored by CIMERA Mr LP. Molina (MSc, RU) Mr W. Roesink (MSc, UU): co-supervised with Prof. PRD. Mason (UU)
Awarded (2019):	Mr O. Nkabelane (MSc, RU); co-supervised with Prof. R. Harmer (RU) Mr S. Jacobs (MSc, UU): co-supervised with Prof PRD. Mason (UU)
Awarded (2020):	Mr XR. Mhlanga (PhD, RU): co-sponsored by PRIMOR & the NASA Astrobiology Institute; co-supervised with Prof. TW. Lyons (UCR) Ms M. Thokoa (MSc with distinction, RU); sponsored by PRIMOR Mr M. Ntantiso (MSc, RU): sponsored by CIMERA; co-supervised with Dr P. Horvath (WITS)
Awarded (2021):	Mr D. Motilaodi (MSc, RU): sponsored by RU ( <i>Levenstein</i> )
Pending submission	Mr T. Rambuda (MSc, RU) Mr S. Dorbor Jr (MSc, RU): sponsored by PRIMOR Mr V. Papadopoulos (PhD, Glasgow University, UK): co-sponsored by Glasgow University & PRIMOR; co-supervised with Prof. DF. Mark and Prof. AJ. Boyce (SUERC) Ms A. Opperman (MSc, RU) Mr J. Labuschagne (MSc, RU): sponsored by PRIMOR; co-supervised by Prof. PRD. Mason (UU) Mr N. Masoabi (MSc, RU): sponsored by CIMERA
Since 2019	Mr ET. Harawa (PhD, RU): sponsored by GIYANI METALS
Since 2020	Mr AY. Nke (PhD, UCT): sponsored by CIMERA; co-supervised with Dr R. Tostevin (UCT)
Since 2021	Ms E. Ikwen (MSc, RU); sponsored by PRIMOR, co-supervised with Dr XR. Mhlanga (RU)

## POSTDOCTORAL FELLOWS

2018-20	M. Siah, PhD (Munich): sponsored by PRIMOR
2019-21	K. Chukwuma, PhD (UCT): sponsored by PRIMOR
2020-22	XR. Mhlanga, PhD (RU): sponsored by CIMERA

#### INVITED SEMINARS & WORKSHOPS

- University of Durham, UK (2009)
- University of Mainz, GERMANY (2009)
- Vrije University Amsterdam, THE NETHERLANDS (2011)
- National & Kapodistrian University of Athens, GREECE (2011, 2014)
- Scottish Universities Environmental Research Centre (SUERC), UK (2011, 2019)
- University of Tokyo, JAPAN (2017)
- University of Tasmania, AUSTRALIA (2017)
- Utrecht University, THE NETHERLANDS (2017, 2018)
- Ecole Normale Supérieure (ENS) de Lyon, FRANCE (2019)

#### THESES EXAMINATION

- University of Pretoria, South Africa (2009, PhD)
- University of Johannesburg, South Africa (2011, 2015, MSc)
- University of Western Australia (2013, PhD)
- National & Kapodistrian University of Athens, Greece (2015, PhD)
- Nelson Mandela University, South Africa (2017, MSc)
- Aristotle University of Thessaloniki, Greece (2017, PhD)
- University of Stellenbosch, South Africa (2019, PhD)

#### RESEARCH PROPOSAL REVIEWS & PANEL SERVICE

- National Research Foundation (NRF), South Africa (2008, 2011, 2012, 2017, 2020, 2021)
- Greek Ministry of Education, Learning and Religious Affairs, *Heraklitus II* (2010)
- Royal Society of New Zealand, *Marsden Fund* (2012)
- National Science Centre of Poland (2019)
- European Research Council, *Synergy Grants* (2019)

#### ACTIVE INTERNATIONAL RESEARCH COLLABORATIONS

- Prof. T.W. Lyons: NASA Astrobiology Institute, University of California at Riverside, USA
- Prof. D.F. Mark & Prof. A.J. Boyce: Scottish Universities Environmental Research Centre, UK
- Prof. P.R.D. Mason: Faculty of Geosciences, Utrecht University, THE NETHERLANDS
- Prof. J. Blichert-Toft & Prof. F. Albaredo: Ecole Normale Supérieure (ENS) de Lyon, FRANCE
- Prof. B. Rasmussen: Department of Geology, University of Western Australia, AUSTRALIA
- Dr A. Zerkle: Department of Earth Sciences, University of St Andrews, Scotland, UK
- Prof. J.A. Higgins: Department of Geosciences, Princeton University, USA
- Prof. D.R. Gröcke & Prof. D. Selby: Department of Earth Sciences, University of Durham, UK
- Prof. R. Schoenberg: Department of Geosciences, University of Tübingen, GERMANY
- Dr R. Tostevin: Department of Geological Sciences, University of Cape Town, SOUTH AFRICA

#### FORMER & CURRENT INDUSTRY COLLABORATIONS (\*with associated funding)

- *ASSMANG Ltd\**
- *KUMBA IRON ORE\**
- *GIYANI METALS\**
- *SOUTH 32*
- *VEDANTA*
- *TSODILO RESOURCES*
- *OREX EXPLORATION*

#### FORMAL SPONSORED VISITS BY LEADING INTERNATIONAL ACADEMICS

- 2007: Prof. Alan Matthews, Hebrew University of Jerusalem, ISRAEL
- 2008, 2014: Prof. Timothy W. Lyons, University of California at Riverside, USA
- 2016: Prof. Paul R.D. Mason, Utrecht University, THE NETHERLANDS
- 2017: Prof. Robert M. Ellam, Scottish Universities Environmental Research Centre, UK
- 2018: Prof. Michael Bau, Jacobs University of Bremen, GERMANY

## EDITORIAL SERVICE

- Editorial Board Member, GEOLOGICAL JOURNAL (2009-14)
- Guest Editor, MINERALS, Special Issue on: *Sedimentary Ore Deposits: Origin, Exploitation, Palaeoenvironmental Significance* (2018-19)
- Associate Editor, FRONTIERS IN EARTH SCIENCES (2021-present)

## REVIEWS FOR JOURNALS

- AMERICAN MINERALOGIST
- APPLIED GEOCHEMISTRY
- ARCHAEOLOGY
- CHEMICAL GEOLOGY
- CRETACEOUS RESEARCH
- EARTH & PLANETARY SCIENCE LETTERS
- ECONOMIC GEOLOGY
- GEOCHEMISTRY
- GEOCHEMISTRY-GEOPHYSICS-GEOSYSTEMS
- GEOCHIMICA ET COSMOCHIMICA ACTA
- GEOFLUIDS
- GEOLOGICAL JOURNAL
- GEOLOGICAL MAGAZINE
- GEOLOGY
- GONDWANA RESEARCH
- JOURNAL OF THE GEOLOGICAL SOCIETY
- JOURNAL OF PETROLEUM GEOLOGY
- MINERALIUM DEPOSITA
- NATURE
- NATURE COMMUNICATIONS
- NEWSLETTERS ON STRATIGRAPHY
- ORE GEOLOGY REVIEWS
- PALEOGEOGRAPHY-PALEOCLIMATOLOGY-PALEOECOLOGY
- PRECAMBRIAN RESEARCH
- SCIENCE
- SOUTH AFRICAN JOURNAL OF GEOLOGY
- TERRA NOVA

## OUTREACH ACTIVITIES

- 2013: Visits and presentations for the promotion of Geosciences at *Baitiredi Tech & Com High School*, and *Galaletsang Science High School*, Mothibistad, Northern Cape Province, RSA.
- 2013: Presentation on the mineral kaolinite and its uses, *Nombulelo High School*, Makhanda/Grahamstown, Eastern Cape Province, RSA.
- 2015: Practical demonstration on rocks and ore minerals, *Good Shepherd Primary*, Makhanda/Grahamstown, Eastern Cape Province, RSA.
- 2018: Presentation for the promotion of Geology at *Bushwillow Primary*, Kenton-on-Sea, Eastern Cape Province, RSA.

## PUBLICATION RECORD (Citations: 2129; h-index: 22; i10-index: 34; [source](#): *Google Scholar*)

1. Ellery SG, Ellery W, **Tsikos H** & Dunlevey J (2021) Depression wetland formation by redox-driven iron and silica cycling. *Wetlands Ecology and Management* (in review).
2. Heard AW, Bekker A, **Tsikos H**, Ireland T & Dauphas N (2021) Oxygen production and rapid iron oxidation in stromatolites immediately predating the Great Oxidation Event. *EPSL* (in review).
3. Stouraiti C, Lozios, S, Soukis, K, Mavrogonatos, C, **Tsikos H**, Voudouris, P, Wang H, Zamparas C & Kollias K (2021) Manganese metallogenesis in the Hellenic arc: case studies from a Triassic rift-related volcanoclastic succession of the Cycladic Blueschist Unit, Greece. *Ore Geology Reviews* (in review).

4. Chukwuma K, **Tsikos H**, Wagner N & Frezenburg M (2021) Dual sea level-climatic controls on the stratigraphic distribution of total organic carbon content and maceral type in the Permian black shales of southwest Gondwana. *Journal of African Earth Sciences* (in review).
5. **Tsikos H**, Siahhi M, Rafuza S, Mhlanga XR, Oonk PBH, Papadopoulos V, Boyce AC, Mason PRD, Harris C, Gröcke DR & Lyons TW (2021). Carbon isotope stratigraphy of Precambrian Iron Formations and implications for the early biological pump. *Solid Earth* (in review).
6. Chukwuma K., **Tsikos H** & Wagner N (2021) Control of variability of primary grain assemblages on the stratigraphic differences in diagenetic processes and products in organic-rich sediments. *Sedimentary Geology*, DOI: <https://doi.org/10.1016/sedgeol.2021.105966>.
7. Hagemann S, Hensler AS, Figueiredo e Silva RC & **Tsikos H** (2020) Light stable isotope (O, H, C) signatures of BIF-hosted iron ore systems: implications for genetic models and exploration targeting. In: *Isotopes in economic geology, metallogenesis and exploration*, SGA Special Publication (in press).
8. Siahhi M, **Tsikos H**, Rafuza S, Oonk PBH, Mason PRD, Mhlanga XR, van Niekerk D, & Harris C (2020): Insights into the processes and controls for the absolute abundance and distribution of manganese in Precambrian iron formations. *Precambrian Research*, DOI: <https://doi.org/10.1016/j.precamres.2020.105878>
9. Albarede F, Thibon F, Blichert-Toft J & **Tsikos H** (2020) Chemical Archaeoceanography. *Chemical Geology*, DOI: <https://doi.org/10.1016/j.chemgeo.2020.119625>.
10. Rasmussen B, Muhling J, Zi JW, **Tsikos H** & Fischer WW (2020) A 1.25 Ga depositional age for the "Paleoproterozoic" Mapedi red beds, Kalahari Manganese Field, South Africa: New constraints on the timing of oxidative weathering and hematite mineralization. *Geology* **48**, 44-48.
11. Van Breugel Y, Cowan AK & **Tsikos H** (2019) Geochemical study of weathered coal, a co-substrate used in bioremediation of South African coal discard dumps. *Minerals* **9/772**; doi:10.3390/min9120772.
12. Thibon F, Blichert-Toft J, Albarede F., Foden J & **Tsikos H** (2019) A critical evaluation of copper isotopes in Precambrian Iron Formations as a paleoceanographic proxy. *Geochimica et Cosmochimica Acta* **264**, 130-140.
13. Papadopoulos A, Tzifas IT & **Tsikos H** (2019) The potential for REE and associated critical metals in coastal sand (placer) deposits of Greece: a review. *Minerals* **9/469**, doi: 10.3390/min9080469.
14. Fairey BJ, Timmerman MJ, Sudo M & **Tsikos H** (2019) The role of hydrothermal activity in the formation of Proterozoic, karst-hosted manganese deposits in the Postmasburg Mn field, Northern Cape Province, South Africa. *Minerals* **9/408**, doi:10.3390/min9070408.
15. Rasmussen B, Muhling JR, Tosca NJ & **Tsikos H** (2019) Evidence for anoxic shallow oceans at 2.45 Ga: Implications for the rise of oxygenic photosynthesis. *Geology* **47**, 622-626.
16. Tzifas I, Papadopoulos A, Misaelides P, Godelitsas A, Goettlicher J, **Tsikos H**, Karydas A, Luvizotto G, Petrelli M, Gamaletsos P, Kantarelou V, Hatzidimitriou A, Noli F & Kontofakas A (2019) New insights into mineralogy and geochemistry of allanite-bearing Mediterranean coastal sands from Northern Greece. *Geochemistry* **79**, 247-267.
17. Thibon F, Blichert-Toft J, **Tsikos H**, Foden J, Albalat E & Albarede F (2019) Dynamics of oceanic iron prior to the Great Oxygenation Event. *Earth and Planetary Science Letters* **506**, 360-370.
18. Gale AS, Jenkyns HC, **Tsikos H**, van Breugel Y, Damsté JSS, Bottini C, Erba E, Russo F, Falzoni F, Petrizzo MR, Dickson AJ & Wray DS (2019) High-resolution bio- and chemo-stratigraphy of an expanded record of Oceanic Anoxic Event 2 (Late Cenomanian–Early Turonian) at Clot de Chevalier, near Barrême, SE France (Vocontian Basin). *Newsletters on Stratigraphy* **52**, 97-129.
19. Oonk PBH, Mason PRD, **Tsikos H** & Bau M (2018) Fraction-specific rare earth elements enable the reconstruction of primary seawater signatures from iron formations. *Geochimica et Cosmochimica Acta* **238**, 102-122.
20. Wang X, Planavsky NJ, Hofmann A, Saupe EE, De Corte BP, Philippot P, LaLonde SV, Jemison NE, Zou H, Ossa FO, Rybacki K, Alfimova N, Larson MJ, **Tsikos H**, Fralick PW, Johnson TM, Knudsen AC, Reinhard CT & Konhauser KO (2018) A Mesoarchean shift in uranium isotope systematics. *Geochimica et Cosmochimica Acta* **238**, 438-452.
21. Bordy EM, Bowen DA, Moore JM, Garnett MH & **Tsikos H** (2018) A Holocene "frozen accident": sediments of extreme paleofloods and fires in the bedrock-confined upper Huis River,

- Western Cape, South Africa. *Journal of Sedimentary Research* **88**, 696-716.
22. Lantink ML, Oonk PBH, Floor GH, **Tsikos, H** & Mason PRD (2018) Iron isotopes of a 2.4 Ga hematite-rich iron formation constrain marine redox conditions around the GOE. *Precambrian Research* **305**, 218-235.
  23. Land JS, **Tsikos H**, Cousins D, Luvizotto G & Zack T (2018) Origin of red beds and paleosols in the Palaeoproterozoic Transvaal and Olifansthoek Supergroups of South Africa: provenance *versus* metasomatic controls. *Geological Journal* **53**, 191-202.
  24. Konhauser KO, Planavsky NJ, Hardisty D, Robbins L, Warchola T, Haugaard R, Lalonde S, Partin C, Oonk PBH, **Tsikos H**, Lyons TW, Bekker A & Johnson C (2017) Iron Formations: A Record of Neoproterozoic to Paleoproterozoic Environmental History. *Earth Science Reviews* **172**, 140-177.
  25. Kampouroglou E, **Tsikos H** & Economou-Eliopoulos M (2017) Carbonate stable isotope constraints on sources of arsenic contamination in Neogene tufas and travertines of Attica, Greece. *Open Geosciences* **9**, 577-592.
  26. Oonk PBH, **Tsikos H**, Mason PRD, Henkel S, Staubwasser M, Fryer L, Poulton SW & Williams HM (2017) Fraction-specific controls on the trace element distribution in iron formations: Implications for trace metal stable isotope proxies. *Chemical Geology* **474**, 17-32.
  27. Sciscio L, **Tsikos H**, Roberts DL, Scott, L, van Breugel Y, Sinninghe Damste JS, Schouten S & Grocke D (2016) Climate and vegetation changes during the Miocene of the Cape Peninsula, South Africa: evidence from palynology and biogeochemistry. *Palaeogeography, Palaeoclimatology, Palaeoecology* **445**, 124-137.
  28. Falzoni F, Petrizzo MR, Jenkyns HC, Gale AS & **Tsikos H** (2016) Planktonic foraminiferal biostratigraphy and assemblage composition across the Cenomanian–Turonian boundary interval at Clot de Chevalier (Vocontian Basin, SE France). *Cretaceous Research* **59**, 69-97.
  29. Gambacorta G, Jenkyns HC, Russo F, **Tsikos H**, Wilson PA, Faucher G & Erba E (2015) High-resolution carbon- and oxygen-isotope records of mid-Cretaceous Tethyan pelagic sequences from the Umbria–Marche and Belluno Basins (Italy). *Newsletter on stratigraphy* **48**(3), 299-323.
  30. Costin G, Faurey B, **Tsikos H** & Gucsik A (2015) Tokyoite, As-rich tokyoite and noelbensoite: new occurrences from the Postmasburg Manganese Field, Northern Cape Province, South Africa. *Canadian Mineralogist* **43**, 981-990.
  31. Faurey B, **Tsikos H**, Corfu F & Polteau S (2013) U–Pb systematics in carbonates of the Postmasburg Group, Transvaal Supergroup, South Africa: primary *versus* metasomatic controls. *Precambrian Research* **231**, 194-205.
  32. Roberts DL, Sciscio L, Herries AI, Scott L, Bamford MK, Musekiwa C & **Tsikos H** (2013) Miocene fluvial systems and palynofloras at the southwestern tip of Africa: Implications for regional and global fluctuations in climate and ecosystems. *Earth Science Reviews* **124**, 184-201.
  33. Tzortzaki E, Katakitsios V & **Tsikos H** (2013) Biomarker evidence for intermittent photic zone euxinia in the Aptian-Albian organic sedimentary record from the Ionian Zone (Epirus, Greece). *Organic Geochemistry* **64**, 84-93.
  34. Sciscio L, Neumann FH, Roberts DL, **Tsikos H**, Scott L & Bamford MK (2013) Fluctuations in Miocene climate and sea levels along the southwestern South African coast: inferences from biogeochemistry, palynology and sedimentology. *Palaeontologia Africana* **48**, 2-18.
  35. Moore JM, Polteau S, Armstrong RA, Corfu F & **Tsikos H** (2012) The age and correlation of the Postmasburg Group, southern Africa: constraints from detrital zircon grains. *Journal of African Earth Sciences* **64**, 9-19.
  36. Cabral AR, **Tsikos H**, Muramatsu Y & Sekiya T (2011) Iodine and bromine contents in the Palaeoproterozoic Hotazel iron formation, Transvaal Supergroup, South Africa: A reconnaissance study. *Chemie der Erde-Geochemistry* **71**, 297-301.
  37. Moore JM, Kuhn BK, Mark DF & **Tsikos H** (2011) A sugilite-bearing assemblage from the Wolhaarkop breccia, Bruce iron-ore mine, South Africa: evidence for alkali metasomatism and Ar<sup>40</sup>-Ar<sup>39</sup> dating. *European Journal of Mineralogy* **23**, 661-673.
  38. **Tsikos H**, Matthews A, Erel Y & Moore JM (2010) Iron isotopes constrain biogeochemical cycling of Fe and Mn in a Palaeoproterozoic stratified basin. *Earth & Planetary Science Letters* **298**, 125–134.
  39. Karakitsios V, Kafousia N & **Tsikos H** (2010) A Review of Oceanic Anoxic Events as recorded in the Mesozoic sedimentary record of mainland Greece. *Hellenic Journal of Geosciences* **45**, 123-132.

40. Gröcke DR, Rimmer SM, Yoksoulion LE, Cairncross B, **Tsikos H** & van Hunen J (2009) No evidence for thermogenic methane production by the Karoo-Ferrar large igneous province. *Earth & Planetary Science Letters* **277**, 204-212.
41. Cabral AR, Sattler CD, Lehmann B & **Tsikos H** (2009) Geochemistry of some marine Fe–Mn nodules and crusts with respect to Pt contents. *Resource Geology* **59**, 400-406.
42. Van Breugel Y, Schouten S, **Tsikos H**, Erba E, Price GD & Damsté JSS (2007) Synchronous negative carbon isotope shifts in marine and terrestrial biomarkers at the onset of the Aptian oceanic anoxic event-1a: Evidence for the release of methane into the atmosphere. *Paleoceanography* **22**, PA1210, doi:10.1029/2006PA001341.
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#### REFEREES

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