

CURRICULUM VITAE OF DR. SELVARAJ KANDASAMY

Present Position (From 09 November 2023 till date)

Professor, Department of Geology, School of Earth Sciences, Central University of Tamil Nadu, India

Last Position 1 (08 August 2022–08 November 2023)

Associate Professor, Department of Geology, School of Earth Science Systems, Central University of Kerala, India

Last Position 2 (01 October 2011–31 July 2022)

Associate Professor, Department of Geological Oceanography & State Key Laboratory of Marine Environmental Science, Xiamen University, China

Adjunct Professor, Laboratory for Marine Geology, Qingdao National Laboratory for Marine Science and Technology, China

Academic Details

May 2000 - Ph.D. in Geology, University of Madras, India

November 1993 - M.Phil. in Geology, University of Madras, India

April 1991- M.Sc. in Geology, Government Arts College, Salem, India

March 1989 - B.Sc. in Geology, Government Arts College, Salem, India

Research and Teaching Experience

Sep 2011-Oct 2011: **Visiting Scientist**, State Key Laboratory of Marine Environmental Science, Xiamen University, China

Aug 2009-Aug 2011: **Post-Doctoral Research Fellow**, Research Center for Environmental Changes, Academia Sinica, Taiwan

Aug 2008-Jul 2009: **Research Associate**, Institute of Marine Geology and Chemistry, National Sun Yat-sen University, Taiwan

Aug 2007-Jul 2008: **Assistant Researcher**, Asia-Pacific Ocean Research Center, National Sun Yat-sen University, Taiwan

Jan 2004-Jul 2007: **Post-Doctoral Fellow**, Institute of Marine Geology and Chemistry, National Sun Yat-sen University, Taiwan

May 2002-Dec 2003: **Research Associate**, Ocean Science & Technology Cell (OSTC), Mangalore University, India

Apr 2001-Mar 2002: **Guest Lecturer**, Department of Geology, University of Madras, India

Research Fellowships

2000-2001: **Senior Research Fellow-CSIR**, Department of Geology, University of Madras, India

1997-2000: **Senior Research Fellow-UGC**, Department of Geology, University of Madras, India

1995-1997: **Junior Research Fellow-UGC**, Department of Geology, University of Madras, India

Thesis/Dissertation Titles

Ph. D.: Chemistry of Coastal Waters and Geochemical Characteristics of Surface Sediments, off Kalpakkam, the Bay of Bengal (*Specialization*: Coastal Marine Geology)

M. Phil.: Depositional Model for Cuddalore Sandstone, Tamil Nadu (*Specialization*: Sedimentology)

Specific Topics of Research Experience

1. Land to ocean organic carbon transfer using stable and radiocarbon isotopes ($\delta^{13}\text{C}$ and $\Delta^{14}\text{C}$), and end-member mixing models of carbon ($\delta^{13}\text{C}$) and nitrogen ($\delta^{15}\text{N}$) isotopes and bromine to organic carbon ratio – **Marine Biogeochemistry**
2. Evolution of Late Quaternary oceanographic processes and climate in marginal seas of the western Pacific and Indian Ocean – Reconstruction of glacial-interglacial climatic variations based on sediment geochemical and isotopic proxies – **Paleoceanography**
3. Rebuilding of Holocene Asian monsoon and related climate and environmental changes in South and East Asia using sedimentological, geochemical and isotopic proxies – **Paleoclimatology**
4. Geochemical evaluation of chemical weathering in East and Southeast Asia: Weathering indexes and elemental ratios – **Earth Surface Processes**

Fields of Research Interest

Marine Biogeochemistry
 Paleoceanography & Paleoclimate
 River and Estuarine Geochemistry
 Marine Geology/Geochemistry

Subjects of Teaching Interest

Glimpses of Earth and Ocean Sciences
 Paleoceanography & Paleoclimatology
 Marine Biogeochemistry
 Sediment Geochemistry

Instruments Handled

X-Ray Fluorescence Spectrometer (Model: Rigaku RIX2000)
 X-Ray Fluorescence Spectrometer Core Scanner (Model: Avaatech, Netherlands)
 Atomic Absorption Spectrophotometer (Models: Varian SpectraAA 200 and Perkin Elmer 2380)
 CHN analyzer (Varian)
 Malvern and Shimadzu Particle Size Analyzers
 Scanning Electron Microscope (SEM)

Field Experience

Sagar Kanya Cruise	SK177	- 11 days - Northern Indian Ocean (2002)
Sagar Kanya Cruise	SK181	- 10 days - Northern Indian Ocean (2002)
Sagar Kanya Cruise	SK185	- 11 days - Northern Indian Ocean (2003)
Ocean Researcher III		- 10 days - Taiwan Strait (2004)
Ocean Researcher I		- 19 days - South China Sea (2004)
Ocean Researcher II		- 4 days - Taiwan Strait (2005)
Ocean Researcher III		- 7 days - Taiwan Strait (2005)
Ocean Researcher III	1149	- 12 days - Western Pacific & Luzon Strait (2006)
Ocean Researcher II		- 3 days - Off East Taiwan (2010)

Twelve years of continuous experience in total suspended matter (TSM), surface sediment and core sediment sampling in river, estuarine and coastal regions of Taiwan, China and India during normal and extreme weather conditions (e.g., typhoons and cyclones).

Membership Details

American Geophysical Union (AGU)
 Geological Society of America (GSA)
 The Geochemical Society (GS)
 Asia-Oceania Geosciences Society (AOGS)
 European Geosciences Union (EGU)

Countries visited

United States of America, China
 Taiwan, Singapore, Mexico
 Philippines, Netherlands
 Australia, Austria

Professional Activities

Associate Editor - Frontiers in Marine Science: Marine Biogeochemistry (since July 2015)

Editorial Board – Current Chinese Science (Since March 2020)

Editorial Board – Palaeogeography Palaeoclimatology Palaeoecology (From Feb. 2018–June 2022)

Editorial Board – Quaternary International (June 2016-Jan 2021)

Reviewed manuscripts for Intergovernmental Panel on Climate Change, Geology, Quaternary Science Reviews, Geochimica et Cosmochimica Acta, Geophysical Research Letters, Limnology and Oceanography, Progress in Oceanography, Scientific Reports, Environmental Pollution, Journal of Geophysical Research-Oceans, Paleooceanography, Chemical Geology, Palaeo3, Journal of Paleolimnology, Food Chemistry, Quaternary Research, The Holocene, Quaternary International, Frontiers in Marine, Earth and Environmental Sciences, Journal of Asian Earth Sciences, Journal of South American Earth Sciences, Marine Environmental Pollution, Chemosphere, Geochemical Journal, Journal of Environmental Management, Journal of Environmental Monitoring and Assessment, Applied Geochemistry, Environmental Earth Sciences, Journal of Geochemical Exploration, The Arabian Journal of Geosciences, Chinese Journal of Limnology and Oceanography and Indian Journal of Geo-Marine Sciences.

External Examiner (Ph.D. and D.Sc. Theses Evaluation-selected only)

Studies on the Water Quality of Mangalore and Kasaragod Coasts and its Impact on Ecology of Selected Molluscan Species, by Ms. Shini Krishnan, **Mangalore University**, India

Screening and Characterization of Eco-friendly Antifoulant from Marine Bacteria by Balasubramanian, **Bharathidasan University**, India

Sedimentological and Geochemical Studies of Badami Sediments of Kaladgi Super Group in Deshnur Area, Belgaum District, Karnataka, India by A. Ramachandran, **University of Madras**, India.

Origin of Ferromanganese Oxide Deposits from Andaman Back-arc Basin, Carlsberg Ridge, Central Indian Ridge and Ocean Basins by Surya Prakash Lankalapalli, **Andhra University**, India.

Taxonomy and Ecology of Modern Benthic Foraminifera from Diverse Milieu around Tuticorin, Southeast Coast of India by B. Geetha, **Manonmaniam Sundaranar University**, India.

Impact of Tsunami 2004, on the Families of Nagapattinam District, Tamil Nadu by T. Radha, **Avinashilingam University for Women**, India.

Evaluation of Groundwater Status through GPS and GIS in Vaniyar Sub-Basin of Ponnaiyar River, Tamilnadu, India by P. Thangaraju, **Periyar University**, India.

Some Important Biogeophysical Responses of Plankton in Indian Seas by Dr. R. Jyothibabu, D.Sc. in Marine Science, Berhampur University, Odisha, India.

Personal

Born	07.04.1967	Father's Name	Mr. K. Kandasamy (Late)
Nationality	India	Marital Status	Married
Passport No:	Z6445180	Validity	24.02.2032
Place of Issue	Tiruchirappalli, India	Languages Known	Tamil, English, Chinese

Address for Communication

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List of Publications

Research Group: Biogeochemistry and Paleoscience Group (BPG)

Research Fields: Marine Biogeochemistry, Paleoclimatology &, Paleoceanography, Marine Geochemistry and Environmental Geochemistry

Submitted/In Preparation

1. **Selvaraj Kandasamy***, C.T.A. Chen, J.Y. Lou, Enhanced silicate weathering during the Holocene optimum in Taiwan: Geochemical constraints from subalpine sedimentary archive, **Geophysical Research Letters**.
2. **Selvaraj Kandasamy***, P. Purushothaman, S.C. Hsu, K.H. Chi, S.J. Kao, Geochemical constraints on weathering, provenance, and tectonic setting in subtropical Central Taiwan: Implications from lake sediments, soils and sedimentary rocks, **The Journal of Geology**.

Published

2023

C.H. Rahim Mohamed, A.N. Shahrudin, S. Pradit, P.S. Loh, T. Nitratsuwan, T. Kobkeatthawin, P. Noppradit, T.P. Quynh Le, C. Oeurng, T. Sok, C.W. Lee, C.W. Bong, X.X. Lu, G.Z. Anshari, S. Kandasamy, J. Wang, Depth profiles of microplastics in sediment cores in the mangrove areas of Kuala Gula Mangrove, Malaysia, **Journal of Marine Science and Engineering** 11, 1223. <https://doi.org/10.3390/jmse11061223>.

2022

Q.Q. Liu, **Selvaraj Kandasamy***, W.D. Zhai, H. Wang, V. Yoganandan, A. Gao, C.T.A. Chen, Temperature is a better predictor of stable carbon isotopic compositions of marine particulates than dissolved CO₂ concentration, **Communications Earth & Environment** 3:303, <https://doi.org/10.1038/s43247-022-00627>.

V. Yoganandan, B. Monisha, **K. Selvaraj**, A study on the association between climate and Corona Virus outspread in South Indian states, **Journal of Climate Change** 8, 11–17, DOI 10.3233/JCC220025.

V. Yoganandan, R.S. John Bose, **K. Selvaraj**, Local knowledge of coastal population to sea level rise and climate change – A case study in fisherman community, Kanyakumari District, Tamil Nadu, India, **Journal of Climate Change** 8, 23-34, <https://doi.org/10.3222/JCC220011> (04 June, 2022).

S. You, P.S. Loh, Z. Li, H. Qin, S. Pradit, T.P. Quynh Le, C. Oeurng, C.H. Rahim Mohamed, C.W. Lee, X.X. Lu, G.Z. Anshari, S. Kandasamy, J. Wang, L. Ji and J. Guo, Geochemical behavior of sedimentary phosphorous species in northernmost artificial mangroves in China. **Forests** 13, 610, <https://doi.org/10.3390/f13040610> (14 April 2022).

J. Madhavaraju, J. S. Armstrong-Altrin, **K. Selvaraj**, R.K. James, Microtextures on quartz grains from the Gulf of Mexico: Implications for sedimentary processes and depositional environment, **Journal of Paleogeography** 11, 256–274 (01 April 2022).

S. Pradit, P. Noppradit, P.S. Loh, T. Nitratsuwan, T.P. Quynh Le, C. Oeurng, C.H. Rahim Mohamed, C.W. Lee, X.X. Lu, G.Z. Anshari, S. Kandasamy, J. Wang, The occurrence of microplastics in sediment cores from two mangrove areas in southern Thailand, **Journal of Marine Science and Engineering** 10, 418, <https://doi.org/10.3390/jmse10030418> (13 March 2022).

J. Hu, P.S. Loh, S. Pradit, T.P. Quynh Le, C. Oeurng, C.H. Rahim Mohamed, C.W. Lee, X.X. Lu, G.Z. Anshari, S. Kandasamy, J. Wang, Z. Li, H. Qin, L. Ji and J. Guo, Assessing the effect of age and geomorphic setting on organic carbon accumulation in high-latitude human-planted mangroves, **Forests** 13, 105, <https://doi.org/10.3390/f13010105> (12 January 2022).

2021

J. Zou, Y. Chang, A. Zhu, M. Chen, **S. Kandasamy**, H. Yang, J. Cui, P. Yu, X. Shi, Sedimentary mercury and antimony revealed orbital-scale dynamics of the Kuroshio Current, **Quaternary Science Reviews** 265, 107051 (20 June 2021)

H. Wang, **S. Kandasamy***, Q. Liu, B. Lin, J.Y. Lou, Y. Veeran, H. Lei, Z. Liu, C.T.A. Chen, Roles of sediment supply, geochemical composition and monsoon on organic matter burial along the longitudinal mud belt in the East China Sea, **Geochimica et Cosmochimica Acta** 305, 66–86 (29 April 2021).

B. Lin, Z. Liu, T.I. Eglinton, T.M. Blattmann, **S. Kandasamy**, N. Haghypour, F.P. Siringan, Organic matter compositions and loadings in river sediments from humid tropical volcanic Luzon Island of the Philippines, **Journal Geophysical Research: Biogeosciences** 126, e2021JG006192 (17 March 2021).

L. Jin, X. Shan, X. Shi, M. Fonnesu, S. Qiao, **S. Kandasamy**, H. Wang, S. Liu, X. Fang, X. Zou, Hybrid event beds generated by erosional bulking of modern hyperpycnal flows on the Choshui River delta front, Taiwan Strait, **Sedimentology** 68, 2500–2522 (02 March 2021).

J. Madhavaraju, R.W. Scott, **K. Selvaraj**, Young IL Lee, H. Loser, Isotope chemostratigraphy and biostratigraphy of Lower Cretaceous Alisitos Formation (Punta China Section), Baja California, Mexico, **Geological Journal** 56, 2550–2570 (6 April 2021).

2020

J. Zou, X. Shi, A. Zhu, L. He, **S. Kandasamy**, R. Tiedemann, L. Lembke-Jene, F. Shi, X. Gong, Y. Liu, M. Ikehara, P. Yu, Paleoenvironmental implications of Sr and Nd isotopes variability over the past 48 ka from the southern Sea of Japan, **Marine Geology** 432, 106393 (2 December 2020).

Z. Dong, X. Shi, J. Zou, X. Zou, M. Chen, Q. Zhang, **S. Kandasamy**, C. Ge, L. Liu, T.F. Song, T. Itaki, F. Shi, Y. Liu, Drastic hydrographic changes in the Japan Sea since the deglaciation: Evidence from radiolarian assemblages, **Marine Geology** 429, 106295 (27 July 2020).

K. Wu, S. Liu, X. Shi, Z. Liu, **S. Kandasamy**, B. Wu, K. Wang, P. Cao, H. Zhang, C.A. Rahim Mohamed, Distribution of rare earth elements in surface sediments of the western Sunda Shelf: Constraints from sedimentology and mineralogy, **Continental Shelf Research** 206, 104198 (25 July 2020).

Z. Yao, X. Shi, Y. Liu, **S. Kandasamy**, S. Qiao, X. Li, Y. Bai, A. Zhu, Sea-level and climate signatures recorded in orbitally-forced continental margin deposits over the last 1 Myr: New perspectives from the Bohai Sea, **Palaeogeography Palaeoclimatology Palaeoecology** 550, 109736 (15 July 2020).

B. Lin, Z. Liu, T.I. Eglinton, **S. Kandasamy**, T.M. Blattmann, N. Haghypour, K. Huang, C. You, Island-wide variation in provenance of riverine sedimentary organic carbon: A case study from Taiwan, **Earth and Planetary Science Letters** 539, 116238 (1 June 2020).

J. Zou, X. Shi, A. Zhu, **S. Kandasamy**, X. Gong, L. Lembeke-Jene, M. Chen, Y. Wu, S. Ge, Y. Liu, X. Xue, G. Lohmann, R. Tiedemann, Millennial-scale variations in sedimentary oxygenation in the western subtropical North Pacific and its links to North Atlantic climate, **Climate of the Past** 16, 386-407 (20 February 2020).

P.S. Loh, L.X. Chang, S.Y. Lin, **S. Kandasamy**, Characteristics of sedimentary organic matter and phosphorous in minor rivers discharging into Zhejiang Coast, China, **Geosciences** 10, 357

2019

K. Wu, S. Liu, **S. Kandasamy**, A. Jin, Z. Lou, J. Li, B. Wu, X. Wang, C.A. Rahim Mohamed, X. Shi, Grain-size effect on rare earth elements in Pahang River and Kelantan River, Peninsular Malaysia: Implications for sediment provenance in the southern South China Sea, **Continental Shelf Research** 189, 103977 (26 September 2019).

Q.Q. Liu, **S. Kandasamy***, H.W. Wang, L. Wang, B.Z. Lin, A. Gao, C.T.A. Chen, Impact of hydrological conditions on the biogeochemical dynamics of suspended particulate organic matter in the upper mixed layer of the southern East China Sea, **Journal of Geophysical Research: Oceans** 124, 6120–6140 (23 Aug 2019).

B. Lin, Z. Liu, T.I. Eglinton, **S. Kandasamy**, T. Blattman, N. Haghypour, G.J. de Lange, (2019), Perspectives on provenance and alteration of suspended and sedimentary organic matter in the subtropical Pearl River system, South China, **Geochimica et Cosmochimica Acta** 259, 270–287 (20 Jun 2019).

D. Liu., B. Lin, **S. Kandasamy***, H. Wang, Q. Liu, W. Zou, A. Zhu., J. Zou, J.Y. Lou, X. Shi, (2019), Geochemical appraisal of chemical weathering and metal contamination in coastal sediments, off northwest Hainan Island, the Gulf of Tonkin. **Frontiers in Marine Science**, 6:363, doi: 10.3389/fmars.2019.00363 (03 Jul 2019).

T.H. Huang, C.T.A. Chen, J. Lee, Yan, Bai, X.Q. He, S.L. Wang, **S. Kandasamy**, J.Y. Lou, B.J. Tsuang, H.W. Chen, R.S. Tseng, Y.J. Yang, C.R. Wu, (2019), East China Sea increasingly gains limiting nutrient P from South China Sea, **Scientific Reports** 9:5648, <https://doi.org/10.1038/s441598-42020-4> (01 Dec 2019).

J.X. Chen, T.G. Li, Q.Y. Nan, X.F. Shi, Y.G. Liu, B. Jiang, J.J. Zou, **K. Selvaraj**, D.L. Li, C.S. Li, 2019, Mid-late Holocene rainfall variation in Taiwan: A high-resolution multi-proxy record unravels the dual influence of the Asian monsoon and ENSO, **Palaeogeography, Palaeoclimatology, Palaeoecology** 516, 139–151 (15 Feb 2019).

X. Shan, X.F. Shi, P.D. Clift, L.X. Liu, S.Q. Qiao, X.S. Fang, M.W. Zhao, Y. Zhu, H. Zhang, Y.L. Li, D. Zhang, **S. Kandasamy**, Z.Q. Yao, T.Y. Xu, S. Wang, J. Xu, (2019), Carbon isotope and rare earth element composition of Late Quaternary sediment gravity flow deposits on the mid shelf of East China Sea: Implications for provenance and origin of hybrid event beds, **Sedimentology** 66, 1861–1895 (01 Jan 2019).

2018

S.L. Wang, C.T.A. Chen, T.H. Huang, H.C. Tseng, H.K. Lui, T.R. Peng, **S. Kandasamy**, J. Zhang, L. Yang, X.L. Gao, J.Y. Lou, F.W. Kuo, X.G. Chen, Y. Ye, Y.J. Lin, 2018, Submarine groundwater discharge helps making nearshore waters heterotrophic, **Scientific Reports** 8:11650, DOI:10.1038/s41598-018-30056-x (01 Dec 2018).

J. Zhang, H. Lei, Y. Chen, Y. Kong, **S. Kandasamy**, W.J. Ou, W.D. Cheng, 2018, Carbon and oxygen isotopic composition of carbonate in bulk sediment in the southwest Taiwan Basin, South China Sea: Methane hydrate decomposition history and its link to mud volcano eruption, **Marine and Petroleum Geology** 98, 687–696 (01 Dec 2018).

S. Kandasamy*, B.Z. Lin, J.Y. Lou, S.J. Kao, C.T.A. Chen, Lawrence M. Mayer, 2018, Estimation of marine vs. terrestrial organic carbon in sediments off southwestern Taiwan using the bromine to total organic carbon ratio as a proxy, **Journal of Geophysical Research-Biogeosciences** 123, 3387–3402 (24 Oct 2018).

C.T.A. Chen, J. Zhang, T.R. Peng, **S. Kandasamy**, D. Wang, Y.J. Lin, 2018, Submarine groundwater discharge around Taiwan, **Acta Oceanologica Sinica** 37, 18–22 (09 June 2018).

Q.Q. Liu, **S. Kandasamy***, B.Z. Lin, H.W. Wang, C.T.A. Chen, 2018, Biogeochemical signatures of suspended particulate matter in the deep chlorophyll maximum layers in the southern East China Sea, **EGU-Biogeosciences** 15, 2091–2109 (10 April 2018).

2017

Z.Q. Yao, X.F. Shi, S.Q. Qiao, Q.S. Liu, **S. Kandasamy**, J.X. Liu, Y.G. Liu, X.S. Fang, J.J. Gao, Y.G. Dou, 2017, Persistent effects of the Yellow River on the Chinese marginal seas began at least ~880 ka ago, **Scientific Reports** 7:2827, DOI:10.1038/s41598-017-03140-x (01 Dec 2017).

J. Emile-Geay, N.P. McKay, D.S. Kaufman, L. von Gunten, J.H. Wang, K. Anchukaitis and other **94 authors**, 2017, A global multiproxy database for temperature reconstructions of the Common Era, **Scientific Data** 4:170088, DOI:10.1038/sdata.2017.88 (11 Jul 2017).

H.Y. Lei, Y.F. Yang, **S. Kandasamy**, C.X. Shi, 2018, Carbon geochemistry of gas hydrate-associated sediments in the southwestern Taiwan Basin, **Acta Geologica Sinica** 92, 333–341 (Feb 2018).

H.J. Tapia-Fernandez, J.S. Armstrong-Altrin, **K. Selvaraj**, 2017, Geochemistry and U-Pb geochronology of detrital zircons in the Brujas beach sands, Campeche, Southwestern Gulf of Mexico, Mexico, **Journal of South American Earth Sciences** 76, 346–361 (01 Jul 2017).

T.H. Huang, C.T.A. Chen, H.C. Tseng, J.Y. Lou, S.L. Wang, L. Yang, **S. Kandasamy**, X. Gao, J.T. Wang, E. Aldrian, G.S. Jacinto, G.Z. Anshari, P. Sompongchaiyakul, B.J. Wang, 2017, Riverine carbon fluxes to the South China Sea, **Journal of Geophysical Research-Biogeosciences** 122, 1239–1259 (25 May 2017).

J.B. Liu, J. Chen, **S. Kandasamy***, S.Q. Chen, C.L. Xie, Q. Chen, B.Z. Lin, K.F. Yu, Q. Xu, V.M. Velasco, F.H. Chen, 2018, A 14.7 Ka record of Earth's surface processes from the arid-monsoonal transitional China, **Earth Surface Processes and Landforms** 43, 723–734 (01 Dec 2017).

2016

S. Kandasamy*, B. Nagender Nath, 2016, Perspectives on the terrestrial organic matter transport and burial along the land-sea continuum: Caveats in our understanding of biogeochemical processes and urgent needs, **Frontiers in Marine Science** 3:259, doi.org/10.3389/fmars.2016.00259 (15 Dec 2016).

K. Selvaraj, D. Pandiyan, V. Yoganandan, G. Agoramoorthy, 2016, India contemplates climate change concerns after floods ravaged the coastal city of Chennai, **Ocean and Coastal Management** 129, 10–14 (01 Sep 2016).

K.S. Wang, X.F. Shi, J.J. Zou, **S. Kandasamy**, X. Gong, Y.H. Wu, Q.S. Yan, 2017, Sediment provenance variations in the southern Okhotsk Sea over the last 180 ka: Evidence from light and heavy minerals, **Palaeogeography, Palaeoclimatology, Palaeoecology** 479, 61–70 (25 Aug 2016).

C.T.A. Chen, **S. Kandasamy***, Y.P. Chang, Y. Bai, X.Q. He, J.T. Lu, X. Gao, 2017, Geochemical evidence of the indirect pathway of terrestrial particulate material transport to the Okinawa Trough, **Quaternary International** 441, 51–61 (01 Jan 2016).

K. Selvaraj*, B.Z. Lin, J.Y. Lou, X.T. Huang, C.T.A. Chen, 2016, Lacustrine sedimentological and geochemical records for the last 170 years of climate and environmental changes in southeastern China, **Boreas** 45, 165–179 (01 Jan 2015).

N.J. Abram, H.V. McGregor, J.E. Tierney, M.N. Evans, N.P. McKay, D.S. Kaufman, K.J. Anchukaitis, K. Thirumalai, B. Martrat, H. Goosse, S.J. Phipps, E.J. Steig, K.H. Kilbourne, C.P. Saenger, J. Zinke, G. Leduc, J.A. Addison, P.G. Mortyn, M.S. Seidenkrantz, M.A. Sicre, **K. Selvaraj**, H.L. Filipsson, R. Neukom, J. Gergis, M.A.J. Curran, V. Trouet, L. von Gunten, 2016, Early onset of industrial-era warming across the oceans and continents, **Nature** 536, 411–418.

2015

F.H. Chen, Q.H. Xu, H.H. Chen, H.J.B. Birks, J.B. Liu, S.R. Zhang, L. Jin, Z.G. Rao, C.B. An, R.J. Telford, X.Y. Cao, Z.L. Wang, X.J. Zhang, **K. Selvaraj**, H.Y. Lu, Y. Li, Z. Zheng, H.P. Wang, A.F. Zhou, G.H. Dong, J. Zhang, X. Huang, J. Bloemendal, 2015, East Asian summer monsoon precipitation variability since the last deglaciation, **Scientific Reports** 5:11186, doi:10.1038/srep11186 (18 Jun 2015).

S. Kandasamy, P. Weiss, Commentary: Biogeochemical analysis of ancient Pacific Cod bone suggests Hg bioaccumulation was linked to Paleo sea level rise and climate change, **Frontiers in Environmental Science**, 3:41, doi:10.3389/fenvs.2015.00041 (09 Jun 2015).

S.J. Kao, B. Wang, L. Zheng, **K. Selvaraj**, S.C. Hsu, X. Wan, M. Xu, C.T.A. Chen, 2015, Spatiotemporal variations of nitrogen isotopic records in the Arabian Sea, **Biogeosciences** 12, 1–14 (05 Jan 2015).

K. Selvaraj*, T.Y. Lee, J.Y.T. Yang, E.A. Canuel, J.C. Huang, M. Dai, J.T. Liu, S.J. Kao, 2015, Stable isotopic and biomarker evidence of terrigenous organic matter export to the deep sea through hyperpycnal injection, **Marine Geology** 364, 32–42 (01 Jan 2015).

H.V. McGregor, M.N. Evans, H. Goosse, G. Leduc, B. Martrat, J.A. Addison, P.G. Mortyn, D.W. Oppo, M.-S. Seidenkrantz, M.-A. Sicre, S.J. Phipps, **K. Selvaraj**, K. Thirumalai, H.L. Filipsson, V. Ersek, 2015, Robust global ocean cooling trend for the pre-industrial Common Era, **Nature Geoscience** 8, 671–678 (01 Jan 2015).

J.J. Zou, X.F. Shi, A. Zhu, Y. Hu, M.T. Chen, S.J. Kao, Y.H. Wu, **K. Selvaraj**, P. Scholz, K. Wang, S. Ge, 2015, Terrigenous sediment changes in the southern Okhotsk Sea since the last 180 ka: Evidence from rare earth elements, **Journal of Asian Earth Sciences** 114, 541–548.

L.C. Wang, H. Behling, S.J. Kao, H.C. Li., **K. Selvaraj**, M.L. Hsieh, Y.P. Chang, 2015, Pollen and diatom inferred late Holocene climate changes and typhoon activities from a subalpine lake in northeastern Taiwan, **Journal of Asian Earth Sciences** 114, 447–456.

F. Liang, B.A. Brook, B.S. Kotlia, B.L. Railsback, B. Hardt, H. Cheng, L.R. Edwards, **K. Selvaraj**, 2015, Panigarh cave stalagmite evidence of climate and climate forcings in the Indian Central Himalaya since AD 1256: sunspots, solar irradiance, ENSO, monsoon breaks, winter southern jet depressions, **Quaternary Science Reviews** 124, 145–161.

2014

W. Soon, V.M. Velasco, **K. Selvaraj**, R. Traversi, I. Usoskin, C.T.A. Chen, J.Y. Lou, S.J. Kao, R.M. Carter, V. Pipin, M. Severi, S. Becagli, 2014, Solar and climatic variations on centennial to millennial timescales: Physical processes and interpretative frameworks for the Holocene, **Earth Science Reviews** 134, 1–15.

J.B. Liu, J.H. Chen, **K. Selvaraj**, Q.H. Xu, Z.L. Wang, F.H. Chen, 2014, Chemical weathering over the last 1200 years recorded in the sediments of Gonghai Lake, Lvliang Mountains, North China: A high-resolution proxy of past climate, **Boreas** 43, 914–923.

S.J. Kao, R.G. Hilton, **K. Selvaraj**, M. Dai, F. Zehetner, J.C. Huang, S.C. Hsu, R. Sparkes, J.T. Liu, T.Y. Lee, J.Y.T. Yang, A. Galy, X. Xu, N. Hovius, 2014, Preservation of terrestrial organic carbon in marine sediments offshore Taiwan: Mountain building and atmospheric carbon dioxide sequestration, **Earth Surface Dynamics** 2, 127–139.

K. Suresh Kumar, K. Ganesan, **K. Selvaraj**, P.V. Subba Rao, 2014, Studies on the functional properties of protein concentrate of *Kappaphycus alvarezii* (Doty) Doty – An edible seaweed, **Food Chemistry** 153, 353–360.

J.Y. Lou, C.T.A. Chen, H.K. Lui, **K. Selvaraj**, S.R. Zhang, X.X. Lu, 2014, Comparison of subtropical surface water chemistry between the large Pearl River in China and small mountainous rivers in Taiwan, **Journal of Asian Earth Sciences** 79, 182–190.

2013–2010

S. Ramasamy, A. Ramachandran, D.L. Chawnthu, K. Velmurugan, **K. Selvaraj**, S. Bhuvaneshwari, S. Chandrasekar, 2013, Textural and petrographic studies of multistoried sand bodies as observed in quarry sections in West Godavari district, Andhra Pradesh, India, **International Journal of Earth Sciences and Engineering** 6, 1027–1046.

J.J. Zou, X.F. Shi, Y.G. Liu, J.H. Liu, **K. Selvaraj**, S.J. Kao, 2012, A 48 ka geochemical records of paleoenvironmental changes in the East Sea/Japan Sea, **Journal of Quaternary Science** 27, 891–900.

K. Selvaraj, C.T.A. Chen, C. Prakash Babu, J.Y. Lou, C.L. Liu, K.J. Hsu, 2012, Glacially-derived material in an Inner Mongolian desert lake during Marine Isotope Stage 2, **Journal of Quaternary Science** 27, 725–733.

K. Selvaraj*, K.Y. Wei, K.K. Liu, S.J. Kao, 2012, Late Holocene monsoon climate of northeastern Taiwan inferred from elemental (C, N) and isotopic ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$) data in lake sediments, **Quaternary Science Reviews** 37, 48–60.

H. Gupta, G.J. Chakrapani, **K. Selvaraj**, S.J. Kao, 2011, The fluvial geochemistry, contributions of silicate, carbonate and saline-alkaline components to chemical weathering flux and controlling parameters: Narmada River (Deccan Traps), India, **Geochimica et Cosmochimica Acta** 75, 800–824.

K. Selvaraj*, C.T.A. Chen, J.Y. Lou, B.S. Kotlia, 2011, Holocene weak summer East Asian monsoon intervals in Taiwan and plausible mechanisms, **Quaternary International**, 229, 57–66.

S.J. Kao, M. Dai, **K. Selvaraj**, W.D. Zhai, C.P. Cai, S.N. Chen, J.Y.T. Yang, J.T. Liu, C.C. Liu, J.P.M. Syvitski, 2010, Cyclone-driven deep sea injection of freshwater and heat by hyperpycnal flow in the subtropics, **Geophysical Research Letters** 37, L21702.

K. Selvaraj*, G. Parthiban, C.T.A. Chen, J.Y. Lou, 2010, Anthropogenic effects on sediment quality off southwestern Taiwan: Assessing the sediment core geochemical record, **Continental Shelf Research** 30, 1200–1210.

2008–2005

Z. Liu, S. Tuo, C. Colin, J.T. Liu, C.Y. Huang, **K. Selvaraj**, C.T.A. Chen, Y. Zhao, F. P. Siringan, S. Boulay, Z. Chen, 2008, Detrital fine-grained sediment contribution from Taiwan to the northern South China Sea and its relation to regional ocean circulation, **Marine Geology** 255, 149–155.

S. Kurian, B.N. Nath, V. Ramaswamy, D. Naman, T. Gnaneshwar Rao, K.A. Kamesh Raju, **K. Selvaraj**, C.T.A. Chen, 2008, Possible detrital, diagenetic and hydrothermal sources for the Holocene sediments of the Andaman backarc basin, **Marine Geology** 247, 178–193.

C.T.A. Chen, **K. Selvaraj***, 2008, Evaluation of elemental enrichments in surface sediments off southwestern Taiwan, **Environmental Earth Sciences** 54, 1333–1346.

K. Selvaraj*, C.T.A. Chen, J.Y. Lou, 2007, Holocene East Asian monsoon variability: Links to solar and tropical Pacific forcing, **Geophysical Research Letters** 34, L01703.

B.N. Nath, A. Aldahan, G. Possnert, **K. Selvaraj**, M.B.L. Mascarenhas-Pereira, C.T.A. Chen, 2007, ^{10}Be variation in surficial sediments of the Central Indian Basin, **Nuclear Instruments and Methods in Physical Research B** 259, 610–615.

K. Selvaraj*, C.T.A. Chen, 2006, Moderate chemical weathering of subtropical Taiwan: constraints from solid-phase geochemistry of sediments and sedimentary rocks, **The Journal of Geology** 114, 101–116.

M.J. Hsu, **K. Selvaraj**, G. Agoramoorthy, 2006, Taiwan's industrial heavy metal pollution threatens terrestrial biota, **Environmental Pollution** 143, 327–334.

K. Selvaraj*, V. Ram Mohan, M.P. Jonathan, S. Srinivasalu, 2005, Modification of a coastal environment: Vedaranniyam wetland, southeast coast of India, **The Journal of the Geological Society of India** 66, 535–538.

2004–1999

K. Selvaraj*, V. Ram Mohan, P. Szefer, 2004, Evaluation of metal contamination in coastal sediments of the Bay of Bengal, India: geochemical and statistical approaches, **Marine Pollution Bulletin** 49, 174–185.

K. Selvaraj*, V. Ram Mohan, S. Srinivasalu, M. P. Jonathan, R. Siddartha, 2003, Distribution of nondetrital trace metals in sediment cores from Ennore Creek, southeast coast of India, **The Journal of the Geological Society of India** 62, 191–204.

K. Selvaraj*, V. Ram Mohan, 2003, Textural variation and depositional environments of innershelf sediments, off Kalpakkam, southeast coast of India, **The Journal of the Geological Society of India** 61, 449–462.

Hema Achyuthan, D. Richardmohan, S.Srinivasalu, **K. Selvaraj**, 2002, Trace metals in the sediment cores of estuary and tidal zones from northern part of southeast coast of India, **Indian Journal of Geo-Marine Sciences** 31, 141–149.

K. Selvaraj*, 2000, Importance of environmental science: Medical Geology, **Current Science** 79, 101–102.

K. Selvaraj*, 1999, Response: Measurement of mercury and copper, **Current Science** 77, 1387–1389.

K. Selvaraj*, 1999, Total dissolvable copper and mercury concentrations in innershelf waters, off Kalpakkam, Bay of Bengal, **Current Science** 77, 494–497.

K. Selvaraj*, M.P. Jonathan, V. Ram Mohan, G.S. Thangaraj, M. Pugalendhi, B. Jayaraman, 1999, Observations of petroleum hydrocarbons and some water quality parameters during oil spill, near Madras Harbour, **Indian Journal of Geo-Marine Sciences** 28, 245–248.

K. Selvaraj, S. Ramasamy, 1998, Depositional environment of Cuddalore sandstone formation, Tamil Nadu, **The Journal of the Geological Society of India** 51, 803–812.

*Corresponding author.

Conference Proceedings

1. **K. Selvaraj***, M.P. Jonathan, V. Ram Mohan, 1997, *Effects of trace metals on human health: a case study from River Cooum, Madras, India* in **Engineering Geology and the Environment** (ISBN9054108770; P.G. Marinos, G.C. Koukis, G.C. Tsiambaos and G.C. Stournaras, Eds.), A.A. Balkema Publishers, Rotterdam, 2161–2165.

Book Chapters

1. **K. Selvaraj**, S.J. Kao, *Recent Advances of Paleoclimate Study and New Technique in Instrument Today* (ISSN 1019-5440), Page No. 23-29, 2009 (In Chinese with English abstract).
2. V. Yoganandan, C. Krishnaiah, **K. Selvaraj**, G.V. Ravi Prasad, Koushik Datta, 2013, *Monsoon fluctuation versus marine productivity during the past 10000 years-A study based on sediment core retrieved from southeastern Arabian Sea* in **Climate Change and Island and Coastal Vulnerability** (ISBN 978-94-007-6015-8, Eds. J. Sundaesan et al.), Chapter 2, 21–30, Springer Netherlands.

Public Article

W. Soon, **K. Selvaraj**, Hyper versus reality on Indian climate change (published in many News Media in countries like North America, Canada and India).

Published Meeting Abstracts

1. S.T. Goldsmith, S.J. Kao, A.E. Carey, W.B. Lyons, **K. Selvaraj**, T.Y. Lee, 2010, Chemical weathering in the Central and Coastal Ranges of Taiwan, *Geochimica et Cosmochimica Acta*, 74, A343.
2. A.J. West, T.C. Lin, **K. Selvaraj**, G. Henderson, C.T.A. Chen, 2009, An empirical case study of contrasting chemical depletion of hillslope regolith and eroding sediment, and implications for soil-derived catchment weathering rates, *Geochimica et Cosmochimica Acta*, 73, A1430.
3. S.J. Kao, **K. Selvaraj**, M. Dai, J. Huang, 2009, The importance of small mountainous rivers on carbon cycle, AGU Fall Meeting Abstracts, 1, 05.
4. **K. Selvaraj**, C.T.A. Chen, J.Y. Lou, S.J. Kao, 2009, An intense ocean-atmosphere interaction during the Holocene optimum: evidence from sub-alpine lake sediments in Taiwan, AGU Fall Meeting Abstracts, 1, 02.
5. Y. Zhao, Z. Liu, C. Colin, J.T. Liu, C. Huang, K.P. Le, F.P. Siringan, **K. Selvaraj**, S. Tuo, Z. Chen, 2008, Clay minerals in surface sediments of the South China Sea and surrounding fluvial drainage basins: source and transportation, AGU Fall Meeting Abstracts, 1, 1106.

6. **K. Selvaraj**, C.T.A. Chen, J.Y. Lou, 2006 Holocene East Asian monsoon variability: links to solar and tropical Pacific forcing, AGU Fall Meeting Abstracts, 1, 1210.

International Meeting-Session Convener

1. East Asian and Western Pacific Paleoclimate, West Pacific Geophysics Meeting-**WPGM (AGU)** – June 2010, Taipei, Taiwan.
2. Geochemical and Isotopic Proxies Deciphering Past Environmental and Oceanographic Changes, Asia-Oceania Geoscience Meeting-**AOGS** – August 2011, Taipei, Taiwan.
3. Chemical Weathering Studies in Asia: Geochemical and Clay Mineralogical Constraints from Modern and Ancient Sediments, Asia-Oceania Geoscience Meeting-**AOGS** – August 2011, Taipei, Taiwan.
4. The Sun-Climate Connection from Seasonal to Millennial Timescales: Top-down and Bottom-up Physical Pathways and Scenarios, Asia-Oceania Geoscience Meeting-**AOGS** – August 2012, Singapore.
5. Carbon and Nitrogen Transport and Burial: Past and Present, Asia-Oceania Geoscience Meeting-**AOGS** – June 2013, Brisbane, Australia.
6. Modern and Paleo-biogeochemistry of Nitrogen in the Marginal Seas of the Western Pacific and Indian Oceans, Asia-Oceania Geoscience Meeting-**AOGS** – July-August 2014, Sapporo, Japan.
7. Environmental Record of Margins – Ancient Records of Continental Conditions, 36th International Geological Congress-36th IGC – March 2020, New Delhi, India

Seminars Delivered (by invitation - selected only):

August 2009 - Weathering of Taiwan Silicate Rocks: Constraints from Sediment Geochemistry, **National Geophysical Research Institute, India**

October 2010 - Asian Monsoon and Climate: Holocene vs. Global Warming, **National Taiwan Ocean University, Taiwan**

April 2012 – Sediment Geochemical Proxies: A Perspective of Earth System Science, **Tongji University, China**

Funded Projects

1. S.J. Kao and **K. Selvaraj** (PIs) - 2011.08.01 – 2013.07.31 (2 years) – **National Science Council, Taiwan**: Monsoon and environmental history in East Asia: an integration of modern instrument data, historical data, tree-ring chronology and lake sediment records – Project No. NSC 100-2116-M-001-014-MY2 – 4,104,00 TWD.
2. **K. Selvaraj** (PI) – 2013.01.01 – 2016.12.31 (4 years) – **National Natural Science Foundation, China**: Quantification of burial fluxes of terrigenous and marine organic carbon in sediments of the continental margin of East China Region – Project No. 41273083 – 80K RMB (K = 10000 RMB)
3. **K. Selvaraj** (PI) – 2012.11.01 – 2014-10.30 (2 years) – **Open Project, State Key Laboratory of Marine Geology, Tongji University**: Sedimentary stable carbon and nitrogen isotopes ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) dynamics and their burial fluxes in the Gulf of Tonkin during the Holocene – Project No. MGK1201 – 10K RMB
4. **K. Selvaraj** (PI) – 2014.01.01 – 2016-12.31 (3 years) – **Shanghai Fund, Xiamen University** – Comparison of sedimentary N records of the eastern Arabian Sea and the tropical Pacific Ocean by reconstructing paleoceanographic changes of the eastern Arabian Sea since the Last Glacial Maximum and beyond – Project No. 2013SH012 – 15K RMB
5. **K. Selvaraj** (PI) - 2015.08.01 – 2017.07.31 (2 years) - **Open Fund, First Institute of Oceanography** - Glacial-interglacial sedimentary organic matter dynamics in the Japan Sea for the last 30 kyr: Constraints from carbon and nitrogen isotopes - Project No. MASEG201502 - 10K RMB

6. **K. Selvaraj (PI)** - 2017.01.01 – 2018.12.31 (2 years) - **Open Fund, First Institute of Oceanography** – Burial fluxes of terrigenous and marine organic matter in the inner shelf mud deposits of the East China Sea during the Holocene - Project No. MASEG201601 - 15K RMB
7. **K. Selvaraj (PI)** – 2018.01.01 – 2019.12.31 (2 years) – **Undergraduate Innovative Project, Xiamen University** – Glacial-interglacial variations in biogenic silica and organic carbon accumulation rates in the eastern equatorial Indian Ocean – Project No. 20720180113 – 3K RMB
8. **K. Selvaraj (Co-PI)** – 14.08.2020 – 13.08.2023 (3 years) – **APN-Asia-Pacific Network For Global Change Research** – Investigating the impact of human activities and climate change on mangroves in East and South Asia – Project Reference No. CRRP2020-06MY-Loh – USD 130,000

Projects Submitted

K. Selvaraj (PI + 4 Collaborators) – **Deep Ocean Mission, Ministry of Earth Sciences, Government of India** - Sources, cycling, ages and reactivity of particulate organic matter in the northern Indian Ocean: Isotopic, microbiological and metagenomics approaches (SCARPIO-IMMA) – The budget proposed – 884.05 Lakh

K. Selvaraj (PI) – **Core Research Grant, DST-SERB** – Radiocarbon ages and stable carbon isotopic composition of particulate organic matter in east-flowing peninsular rivers in India (**RadioCarOM-PRI**) – The budget proposed – 49.53 Lakh

Brief Teaching Statement

I feel that my vast research and strong pedagogical experience are enough to teach a variety of courses in the Earth and Ocean Sciences. Besides, the interdisciplinary nature of my research and teaching interests fit me well to participate as a part of a teaching team or as a single educator. Courses of teaching interests include, but are not limited to:

Basic level courses in Earth and Ocean Sciences, Global Climate Change and Environmental Science: I am interested in educating students in these topics for both majors in Earth and Ocean Sciences and non-major in Environmental Sciences with an interest in global climate, oceanographic and environmental changes.

Advanced level courses in Sediment Biogeochemistry, Paleoceanography and Paleoclimatology: I am interested in developing lecture as well as field and lab-based coursework in these subjects, emphasizing current knowledge, techniques of climate reconstruction, and future directions as well as graduate seminars emphasizing specific techniques, timescales or regions.

I taught two courses during the last eight years in Xiamen University, China. For graduate students, I taught Paleoclimatology & Paleoceanography (code: PPG) and for undergraduate level, I taught Glimpses of Earth and Environmental Sciences (code: EES) since September 2011 and Sediment Geochemistry since 2016. For graduate students, I introduced a credit breakdown technique, which includes Seminar and Homework (15%), Proxy Presentation (20%), Journal Paper Review (15%), Reading and Participation in Class Discussions (10%), and the Final Exam/Report (40%). For example, each student should prepare a Final Report in the chosen topic of Paleoscience (e.g., an overview of mid-Holocene optimum climate) and submit at the end of semester for evaluation. The report should contain at least 10 pages with 1.5-line space with necessary figures, tables, and adequate references (at least 20). I realized that this practice has improved the students' ability to read scientific papers and augmented their writing capacity. Also, I train students to choose papers published in top journals such as Nature, Science and Nature Geoscience, Geology and Geophysical Research Letters for the Proxy Presentation and Journal Paper Review. I regularize students to present "proxy presentation" in each semester for 15 minutes with 5 minutes Q & A using papers published on different climate archives to understand how the term "proxy" works in the field of Paleoclimatology/Paleoceanography. The presentation is normally assessed by 3-4 referees of PG and Research students of my own group. By introducing such a credit breakdown technique, I improved students reading as well as presentation and writing capacities simultaneously within a semester. By doing so, I induced some interests among students' community for pursuing their higher studies (Ph.D.).

PhD Thesis Awarded (2)

Dr. Liu Qianqian, Contrasting Biogeochemical Characteristics of Suspended Particles at the Surface and Deep Chlorophyll Maximum Layer in the Yellow Sea, Xiamen University, China, awarded on November 16, 2022.

Dr. Wang Huawei, Modern Changes of Geochemical Composition and Organic Matter Burial in the Inner Shelf of the East China Sea, Xiamen University, China, awarded on July 14, 2022.

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Graduate Theses Completed (8)

Ms. Jin Cheng (2022) Characteristics and controlling factors of biogenic components and iron accumulation in mud deposits on the inner shelf of the East China Sea since the Late Deglacial

Mr. Zhou Lei (2021) Accumulation of biogenic components and iron in Sunda continental shelf and slope during the late Holocene and plausible mechanisms

Mr. Zhiqiang Wang (2020) Variations of opal, organic carbon, total nitrogen and iron burial in the Eastern Arabian Sea since Oligocene

Mr. Can Yang (2019) Recent changes in detrital supply and organic matter burial inferred from elemental and isotopic geochemistry of dated sediment cores from the Changjiang Distal Mud Belt, East China Sea

Mr. Wang Lin (2018) Provenance and dynamics of particulate organic matter in a well-mixed water column from the continental shelf of the East China Sea

Ms. Liu Qianqian (2017) Carbon and nitrogen isotopic characteristics of suspended particles and surface sediments from the continental shelf of East China Sea

Mr. Wang Huawei (2017) Elemental and isotopic characteristics of sedimentary organic matter from the inner shelf of the East China Sea

Ms. Lin Baozhi (2015) Geochemistry of surface sediments from the continental shelf of East China Sea and small rivers of SE China: Constraints on chemical weathering and provenance

Undergraduate Theses Completed (8)

Mr. Mingyuan Liang (2021) Spatial distribution and characteristics of organic carbon and biogenic silica in surface sediments of the western Taiwan Strait

Ms. Jin Cheng (2019) Glacial-interglacial variations in opal and organic carbon accumulation in the eastern equatorial Indian Ocean

Mr. Yang Peng (2019) Distributions of biogenic silica and organic carbon in sediments of Xiamen and Dongshan Bays, Southeast Coast of China

Ms. Zheng Sanchuan (2015) Rare earth elemental chemistry of coastal surface sediments, off west Hainan Island, the Gulf of Tonkin

Mr. He Junnan (2015) Geochemical characteristics of surface sediments along the land-sea interactive region of Fujian, SE coastal China

Mr. Lim Yip Sum (2015) Major and trace element geochemistry of surface sediments of Fujian coastal zone, SE coast of China

Mr. Liu Dawei (2014) Evaluation of metal contamination in surface sediments of the Gulf of Tonkin

Ms. Yang Qu (2014) Stable carbon and nitrogen isotopic compositions of surface sediments in near coastal regions of the Gulf of Tonkin

Abstracts/Papers Presented/Submitted at the Conferences (Non-refereed)

1. **Selvaraj Kandasamy**, P. Yang[§], C. Jin[§], Z.Q. Wang[#], H.W. Wang[@], Q.Q. Liu[@], S. Steinke, M. Mohtadi, Glacial-interglacial variations in opal and organic carbon accumulation in the eastern equatorial Indian Ocean, *Fourth Xiamen Symposium on Marine Environmental Sciences*, 6–9 January 2019, Xiamen, China.
2. **Q.Q. Liu[@]**, L. Wang[#], H.W. Wang[@], B.Z. Lin, A.G. Gao, C.T.A. Chen, **Selvaraj Kandasamy^{*}**, Comparison of season biogeochemical characteristic of suspended particulate matter in the continental shelf of the southern East China Sea, *Fourth Xiamen Symposium on Marine Environmental Sciences*, 6–9 January 2019, Xiamen, China.
3. **H.W. Wang[@]**, C. Yang[#], Q.Q. Liu[@], S.F. Liu, X.F. Shi, H.Y. Lei, **Selvaraj Kandasamy^{*}**, Carbon and Nitrogen Isotopic Records of Sedimentary Organic Matter from the Min-Zhe Mud Deposit on the East China Sea Continental Shelf: Implications for Paleoenvironmental Changes from the Late Glacial, *Fourth Xiamen Symposium on Marine Environmental Sciences*, 6–9 January 2019, Xiamen, China.
4. **S. Steinke**, M. Mohtadi, J. Groeneveld, **Selvaraj Kandasamy**, Mid- to Late Holocene upwelling dynamics in the eastern Indian Ocean, *Asia-Oceania Geosciences Meeting*, June 3–8, 2018, Honolulu, Hawaii.
5. **Selvaraj, K.**, B.Z. Lin, Q.Q. Liu, H.W. Wang, M. Mohtadi, S. Steinke, X.F. Shi, Glacial-Holocene carbon and nitrogen dynamics and terrigenous input changes in the eastern tropical Indian Ocean (off West Sumatra), 10th WESTPAC International Scientific Conference, 17–20 April 2017, Qingdao, China.
6. Q.Q. Liu^{**}, H.W. Wang[#], B.Z. Lin[#], J.Y. Lou, **K. Selvaraj^{*}**, Carbon and nitrogen isotopic compositions of suspended particles and surface sediments from the continental shelf of East China Sea, *Asia-Oceania Geosciences Society Meeting*, July 31–August 5, 2016, Beijing, China.
7. H.W. Wang[#], Q.Q. Liu[#], B.Z. Lin[#], J.Y. Lou, **K. Selvaraj^{*}**, Elemental and isotopic characteristics of sedimentary organic matter from the inner shelf region of East China Sea, *Asia-Oceania Geosciences Meeting*, July 31–August 5, 2016, Beijing, China.
8. **K. Selvaraj^{*}**, B.Z. Lin[#], H.W. Wang[#], Q.Q. Lin[#], Z. Liu, J.Y. Lou, C.T.A. Chen, L.M. Mayer, Distinguishing terrestrial organic carbon in marginal sediments of East China Sea and northern South China Sea, *EGU General Assembly*, 23–28 April 2016, Vienna, Austria (Vol. 18, EGU2016-4157-1, 2016).
9. **K. Selvaraj^{*}**, B.Z. Lin[#], H.W. Wang[#], Q.Q. Lin[#], J.Y. Lou, Z. Liu, C.T.A. Chen, Demarcation of typhoon-induced sedimentary layers from lake records in southeast China, *EGU General Assembly*, 23–28 April 2016, Vienna, Austria (Vol. 18, EGU2016-4186-1, 2016).
10. **K. Selvaraj^{*}**, J.B. Liu, J.H. Chen, Y. Hu, W. Jia, B.Z. Lin, V.M. Velasco, F.H. Chen, A 14.7 ka record of Earth's surface processes from the arid-monsoon transitional China, *13th International Paleolimnology Association*, 4–7 August 2015, Lanzhou, China.
11. B.Z. Lin[#], H.W. Wang[#], Q.Q. Liu[#], **K. Selvaraj^{*}**, Lacustrine geochemical evidence for a wetter climate ca. AD 1840-1900 in southeast China, *13th International Paleolimnology Association*, 4–7 August 2015, Lanzhou, China.
12. **K. Selvaraj^{*}**, Terrestrial organic carbon export: tracing the tropical storm effect in the deep sea (Invited talk), *International Conference on Mangroves and Climate Change*, July 2015, Chennai, India.
13. Sivachandran, V. Yoganandan, **K. Selvaraj**, Biotic records of Indian summer monsoon variability from the southeastern Arabian Sea, *National Climate Science Conference*, July 2015, Bangalore, India.
14. **K. Selvaraj^{*}**, C.T.A. Chen, J.Y. Lou, Y.H. Shau, Reconstruction of erosion-weathering-vegetation interactions during the Holocene in subtropical Taiwan, *AGU Chapman Conference on Evolution of the Asian Monsoon and its Impact on Landscape, Environment and Society: Using the Past as the Key to the Future*, 14–18 June 2015, Hong Kong, China.

15. **K. Selvaraj***, S. Zheng[§], Y. Lin[§], J. He[§], B.Z. Lin[#], Carbon and nitrogen isotopic compositions of suspended particles and surface sediments in diverse land-sea interactive ecosystems of Fujian Province, SE coastal China, *Second Xiamen Symposium on Marine Environmental Sciences*, 9–11 January 2015, Xiamen, China.
16. B.Z. Lin[#], X.T. Huang, Z. Liu, **K. Selvaraj***, Provenance and chemical weathering control on inner shelf surface sediments of East China Sea and riverine sediments along the land-sea intersections of SE China, *Second Xiamen Symposium on Marine Environmental Sciences*, 9–11 January 2015, Xiamen, China.
17. **K. Selvaraj***, Q. Yang[§], D. Liu[§], B.Z. Lin[#], Carbon and nitrogen isotopic compositions of near coastal sediments off the west coast of Hainan Island (Beibu Gulf), *The 4th Australia-China Ocean Science & Technology Symposium*, September 2014, Qingdao, China.
18. B.Z. Lin[#], X.T. Huang, Z. Liu, **K. Selvaraj***, Geochemistry of surface sediments from the continental shelf of East China Sea and minor rivers of SE China: Constraint on chemical weathering and provenance, *The 4th Australia-China Ocean Science & Technology Symposium*, September 2014, Qingdao, China.
19. **K. Selvaraj***, B.Z. Lin[#], Q. Zhang, S.J. Kao, Z. Liu, Last Glacial-Holocene stable isotopic ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$) records from the Gulf of Tonkin, *Asia-Oceania Geosciences Meeting*, July 28-August 1, 2014, Sapporo, Japan.
20. B.Z. Lin[#], J.Y. Lou, W. Xia, X.D. Ding, S.J. Kao, C.T.A. Chen, **K. Selvaraj***, Lacustrine geochemical and sedimentological data for the last 170 years of environmental change in southeastern China, *Asia-Oceania Geosciences Meeting*, July 28-August 1, 2014, Sapporo, Japan.
21. X.D. Ding, H.Y. Bao, L. Zheng, **K. Selvaraj**, S.J. Kao, Lacustrine lignin biomarker records of late Pleistocene to early Holocene from southern Taiwan: Paleo-vegetation and climate evolution, *Asia-Oceania Geosciences Meeting*, July 28-August 1, 2014, Sapporo, Japan.
22. Ocean 2k LR Group (Presented by H. Goose), Robust global cooling trend for the past two millennia, *Paleoclimate Modeling Intercomparison Project 3 (PIMP3)*, *Second General Meeting*, May 25-30, 2014, Namur, Belgium (www.climate.be/pmip3/abstracts).
23. J.J. Zou, X.F. Shi, A. Zhu, Y. Bai, **K. Selvaraj**, Bottom water oxygenation changes in the northern Okinawa Trough since the last 88 ka: Controlled by local hydrology and climate, *EGU General Assembly*, April 27-May 2, 2014, Vienna, Austria.
24. M. Fu, D. Liu[§], Y. Qu[§], B.Z. Lin[#], W. Zou, A. Zhu, J.J. Zou, **K. Selvaraj***, Major and trace elemental geochemistry of surface sediments, the Gulf of Tonkin, *MOST Ocean Sciences Conference*, April 17-May 1, 2014, Taipei, Taiwan, R.O.C.
25. B.Y. Wang, S.J. Kao, **K. Selvaraj**, V. Yoganandan, S.C. Hsu, Revisiting the nitrogen isotopic records in sediment cores in Arabian Sea, *Ocean Sciences Meeting*, February 2014, Honolulu, Hawaii, USA.
26. **K. Selvaraj***, V. Yoganandan, C.T.A. Chen, J.Y. Lou, S.J. Kao, R.W. Murray, Glacial and Holocene stable isotopic and trace elemental records from the southeastern Arabian Sea, *First Xiamen Symposium on Marine Environmental Sciences*, January 2014, Xiamen, China.
27. B.Z. Lin[#], J.Y. Lou, W.L. Xia, X.D. Ding, S.J. Kao, C.T.A. Chen, **K. Selvaraj***, Modern environmental changes of Lake Tianhu, southeastern China: Inferences from sedimentological and physical data of core sediment, *First Xiamen Symposium on Marine Environmental Sciences*, January 2014, Xiamen, China.
28. D. Liu[§], Y. Qu[§], B.Z. Lin[#], **K. Selvaraj***, An overview of metal contamination of sediments in selected coastal and estuarine regions of China, *First Xiamen Symposium on Marine Environmental Sciences*, January 2014, Xiamen, China.
29. **K. Selvaraj***, S.J. Kao, S.C. Hsu, T.Q. Lee, V.M. Velasco, W. Soon, M.T. Chen, Magnetic and geochemical records of glacial terminations, weathering and carbon burial in the

- southeastern South China Sea for the last 800 kyr, *American Geophysical Union Fall Meeting*, 9–13 December 2013, San Francisco, CA, USA.
30. L. Zheng, S.S.Y. Hsiao, S.C. Hsu, X.D. Ding, **K. Selvaraj**, B. Wang, S.J. Kao, Clay-fixed nitrogen on past nitrogen cycle reconstruction and organic source tracing in seas with high fluvial support and sedimentation rate, *American Geophysical Union Fall Meeting*, December 2013, San Francisco, CA, USA.
 31. **K. Selvaraj***, C.T.A. Chen, J.Y. Lou, B.J. Wang, B.Z. Lin, S.Y. Yang, Z. Liu, Review of chemical weathering status of East and Southeast Asian Rivers: Weathering indexes and elemental ratios, *Sixth International Conference on Fluvial Sediment Supply to the South China Sea*, November 2013, Selangor, Malaysia.
 32. **K. Selvaraj***, J.Y.T. Yang, T.Y. Lee, J.C. Huang, M. Dai, S.J. Kao, Distinctly high terrigenous organic carbon export during tropical storms, *Asia-Oceania Geosciences Meeting*, June 2013, Brisbane, Australia.
 33. S.J. Kao, **K. Selvaraj**, J.T. Liu, Source to sink of particulate organic carbon of mountainous rivers, *Asia-Oceania Geosciences Meeting*, 24–28 June 2013, Brisbane, Australia.
 34. H. Gupta, M. Dai, S.J. Kao, C. Rabouille, **K. Selvaraj**, Riverine particulate organic carbon: global flux, uncertainties and controls, *Asia-Oceania Geosciences Meeting*, 24–28 June 2013, Brisbane, Australia.
 35. **K. Selvaraj***, V.M. Velasco, Willie Soon, M.T. Chen, T.Q. Lee, S.J. Kao, Glacial terminations and periodicities for the last 800 kyr: constraints from the bulk magnetic susceptibility record, the southeastern South China Sea, *4th OSM PAGES*, 11–16 February 2013, Goa, India.
 36. **Ocean 2k Working Group**, PAGES-IGBP, Synthesis of marine sediment-derived sea surface temperature records for the past 2 millennia: First-order results from the PAGES/Ocean 2k project, *4th OSM PAGES*, February 2013, Goa, India.
 37. V. Yoganandan, **K. Selvaraj**, S.J. Kao, Ravi Prasad, K. Dutta, C. Krishnaiah, H. Gangadhar Bhat, Late Glacial-Holocene elemental and stable isotope records from the southeastern Arabian Sea, *4th OSM PAGES*, February 2013, Goa, India.
 38. **K. Selvaraj***, S.C. Hsu, M.T. Chen, S.J. Kao, Geochemical records of weathering and carbon burial in the southeastern South China Sea for the last 500 kyr, *South China Sea-Deep Meeting*, January 2013, Shanghai, China.
 39. B.Y. Wang, **K. Selvaraj**, S.C. Hsu, L.J. Shiao, S.J. Kao, Elevated organic matter preservation efficiency in the southeastern South China Sea during the glacial periods since the Late Quaternary, *South China Sea-Deep Meeting*, January 2013, Shanghai, China.
 40. L. Zheng, X.D. Ding, **K. Selvaraj**, S.J. Kao, Sedimentary nitrogen isotope speciation in the southeastern South China Sea for the past 110 ka – sediment core MD97-2142, *South China Sea-Deep Meeting*, January 2013, Shanghai, China.
 41. **K. Selvaraj***, Analogous atmospheric nitrous oxide (N₂O) rise during the deglacial and mid-Holocene periods: Are transient modeling studies crucial to understand why? *SynTraCE21 Workshop*, 4–7 November 2012, Providence, USA.
 42. **K. Selvaraj***, C.T.A. Chen, W. Soon, S.J. Kao, T.Q. Lee, V.M. Velasco, J.Y. Lou, Far East monsoon climate and North Atlantic teleconnection on multicentennial and millennial timescales during the Holocene, *Asia-Oceania Geosciences Meeting*, 13–17 August 2012, Singapore.
 43. **K. Selvaraj***, E.A. Canuel, J.Y.T. Yang, J.C. Huang, T.Y. Lee, M. Dai, S.J. Kao, Carbon and organic biomarker evidence of terrigenous organics export to the deep sea through hyperpycnal injection, *Asia-Oceania Geosciences Meeting*, 13–17 August 2012, Singapore.
 44. S.J. Kao, **K. Selvaraj**, M. Dai, Escape of terrestrial POC driven by hyperpycnal flow, *Ocean Science Meeting*, February 2012, Salt Lake City, USA.
 45. **K. Selvaraj**, S.Y. Shiao, K.K. Liu, M.X. Zhao, M. Dai, S.J. Kao, Climate-driven isotopic speciation of sedimentary C/N in seas receiving sediments from turbid rivers, *LOICZ Open Science Conference*, September 2011, Yantai, China.

46. **K. Selvaraj***, Effects of mountain glaciers on the desert, *Climate Change: Shifting Science and Changing Policy*, October 2011, Mumbai, India.
47. **K. Selvaraj***, C.T.A. Chen, W. Soon, T.Q. Lee, V.M. Velasco, J.Y. Lou, S.J. Kao, Holocene East Asian climate and North Atlantic teleconnection: Fundamental and derived modes of solar activity, *7th Asian Marine Geology*, 11–14 October 2011, Goa, India.
48. **K. Selvaraj***, P. Purushothaman, S.C. Hsu, K.H. Chi, S.J. Kao, Geochemistry of lake sediments, soils and sedimentary rocks from central Taiwan: Constraints on weathering, provenance and tectonic setting, *Asia-Oceania Geosciences Meeting*, 8–12 August 2011, Taipei, Taiwan.
49. V. Yoganandan, C. Krishnaiah, **K. Selvaraj**, G.V. Raviprasad, C.T.A. Chen, Koushik Dutta, S.J. Kao, V. Radhakrishnan, High-resolution sediment geochemical record of Late Glacial-Holocene climate from the southeastern Arabian Sea, *Asia-Oceania Geosciences Meeting*, 8–12 August 2011, Taipei, Taiwan.
50. J.J. Zou, X.F. Shi, Y.G. Liu, J. Liu, **K. Selvaraj**, S.J. Kao, Multi-proxy reconstruction of the paleoenvironmental changes in the East Sea (the Sea of Japan) since 48 ka, *Asia-Oceania Geosciences Meeting*, August 2011, Taipei, Taiwan.
51. H. Gupta, G. Chakrapani, **K. Selvaraj**, S.J. Kao, Chemical weathering in the Narmada River, India: Contributions of silicate, carbonate and saline-alkaline components and their controlling parameters, *Asia-Oceania Geosciences Meeting*, August 2011, Taipei, Taiwan.
52. **K. Selvaraj***, S.J. Kao, S.C. Hsu, T.Q. Lee, K.Y. Wei, K.K. Liu, Evidence for Holocene Event 3 and Little Ice Age in Taiwan: Constraints from sediment magnetic and geochemical parameters, *PAGES 2nd Global Monsoon Symposium*, 13–15 September 2010, Shanghai, China.
53. **K. Selvaraj***, S.J. Kao, S.C. Liu, ITRAX multiscanner: A new analytical tool for paleoclimate study, *973 Ocean Acidification Meeting*, August 2010, Kunming, China.
54. **K. Selvaraj***, S.J. Kao, T.Q. Lee, S.C. Hsu, Late Holocene environmental changes in subtropical Taiwan: Implications from sediment magnetic parameters, *EOS Trans. AGU 91(26)*, *Western Pacific Geophysics Meeting*, 22–25 June 2010, Taipei, Taiwan.
55. **K. Selvaraj***, S.J. Kao, S.C. Hsu Contrasting chemical weathering trends in subalpine regions of Taiwan: Implications from lacustrine sediment geochemical data, *Taiwan Geosciences Conference*, April 2010, Taipei, Taiwan.
56. **K. Selvaraj***, S.J. Kao, C.T.A. Chen, K.K. Liu, J.Y. Lou, R.W. Murray, Late Glacial-Holocene marine denitrification record from the lesser-known upwelling region, eastern Arabian Sea, *Taiwan Ocean Science Meeting*, March 2010, Taiwan.
57. **K. Selvaraj***, S.J. Kao, K.K. Liu, M.T. Chen, C/N ratio: a less reliable proxy to track marine organic sources in open ocean terrestrial sink, *Western Pacific Paleoceanography Workshop I: Future Challenges*, January 2010, Keelung, Taiwan
58. S.J. Kao, **K. Selvaraj**, S. Y. Hsiao, K. K. Liu, L. Lowemark, Y. P. Chang, M. T. Chen, 500 ka paleo-information revealed by isotopic compositions and C/N ratio of sedimentary organic matter in IMAGES MD97-2142 core, *Western Pacific Paleoceanography Workshop I: Future Challenges*, January 2010, Keelung, Taiwan.
59. K. Selvaraj, C.T.A. Chen, J.Y. Lou, An intense ocean-atmospheric interaction during the Holocene optimum: Evidence from subalpine lake sediments in Taiwan, *American Geophysical Union Fall Meeting*, December 2009, San Francisco, CA, USA.
60. P. Purusothaman, **K. Selvaraj**, S.C. Hsu, K.H. Chi, S.J. Kao, Modern weathering conditions and pollution status inferred from lake sediments in subtropical, central Taiwan, *Earth Surface Processes in a Dynamic Environment*, September 2009, Taipei, Taiwan.
61. S.J. Kao, **K. Selvaraj**, J.D. Milliman (**Invited Lecture**), Source to sink of sediments from mountainous rivers in Taiwan, *37th IAH Congress*, September 2009, Hyderabad, India.

62. S.J. Kao, **K. Selvaraj**, S.C. Hsu, Y.S. Su, S.R. Song and T.Q. Lee, Warming signatures of the Younger Dryas stadial inferred from the lake sediments in southern Taiwan, *Asia-Oceania Geosciences Society*, August 2009, Singapore.
63. V. Yoganandan, C. Krishnaiah, **K. Selvaraj**, G.V. Ravi Prasad, H.G. Bhat, C.T.A. Chen and K. Dutta, Late-Glacial-Holocene Indian monsoon changes: A sediment core record from the southeastern Arabian Sea, *1st YSM, PAGES*, August 2009, Oregon, USA.
64. **K. Selvaraj***, C.T.A. Chen and J.Y. Lou, Greater instability of East Asian monsoon in Taiwan: Constraints from sediment grey index and chemical elements, *Ocean Science Annual Conference*, 13–15 April 2009, Hualien, Taiwan.
65. S.J. Kao, M. Dai, J.C. Huang, **K. Selvaraj**, C.C. Hsu, F. Zehetner, K.K. Liu, T.Y. Lee, W.J. Chien, J. Y. Yang, J.P.M. Syvitski, T.C. Hsu, J.P. Liu, C.B. Huang, F. Chiah, J.Y. Chiu, Z.S. Chen, Missing link from cyclone-driven terrestrial export of modern organic to the sea, *International Sediment Trap Workshop*, March 2009, Kaohsiung, Taiwan.
66. Z. Liu, Y. Zhao, C. Colin, J.T. Liu, C.Y. Huang, K.P. Le, F.P. Siringan, C.F. You, **K. Selvaraj**, S. Tuo and Z. Chen, Source and transport of detrital fine-grained sediments in the northern South China Sea and surrounding fluvial drainage basins, *International Sediment Trap Workshop*, March 2009, Kaohsiung, Taiwan.
67. Y. Zhao, Z. Liu, C. Colin, J.T. Liu, C. Huang, K.P. Le, F.P. Siringan, **K. Selvaraj**, S. Tuo, Z. Chen, Clay minerals in surface sediments of the South China Sea and surrounding fluvial drainage basins: source and transportation, *American Geophysical Union Fall Meeting*, December 2008, San Francisco, CA, USA.
68. **K. Selvaraj***, C.T.A. Chen and J.Y. Lou, Estimation of marine vs. terrestrial organic carbon in sediments off southwestern Taiwan using sedimentary bromine to organic carbon ratio as a proxy, *Taiwan Ocean Conference*, April 2008, Taipei, Taiwan.
69. **K. Selvaraj*** and C.T.A. Chen (**Invited lecture**), Reconstruction of East Asian paleoclimate: role of solid-phase geochemical proxies, *XVII National geochemical Congress*, October 2007, Pachuca, Mexico.
70. **K. Selvaraj***, C.T.A. Chen and J.Y. Lou, Holocene weak summer East Asian monsoon intervals in subtropical Taiwan linked to tropical Pacific and North Atlantic climates, *3rd Alexander von Humboldt Conference on East Asian monsoon the past, present and future*, 9–11 August 2007, Beijing, China.
71. Gopal Parthiban, **K. Selvaraj** and C.T.A. Chen, Anthropogenic effects on sediment quality offshore southwestern Taiwan: An assessment of sediment core geochemical record, *Taiwan Geosciences Assembly*, May 2007, Taoyuan, Taiwan.
72. **K. Selvaraj***, C.T.A. Chen and J.Y. Lou, Holocene East Asian monsoon variability: links to solar and tropical Pacific forcing, *American Geophysical Union Fall Meeting*, 11–15 December 2006, San Francisco, CA, USA.
73. **K. Selvaraj***, J.Y. Lou and C.T.A. Chen, Subtropical lacustrine geochemical evidences for Holocene East Asian monsoon instability: links to solar and tropical Pacific forcing, *Asia-Oceania Geosciences 3rd Annual Meeting*, 10–14 July 2006, Singapore.
74. **K. Selvaraj***, C.T.A. Chen and J.Y. Lou, Synchronicity between the late Holocene lakes desiccation event and weakened Afro-Asian summer monsoons, *Ocean Science Conference*, March 2006, Taiwan.
75. **K. Selvaraj***, V. Ram Mohan, S. Srinivasalu, Hema Achyuthan and B.R. Raghavan, Estuarine and tidal zones sediments of Southeast Coast of India: Factor analysis and Geochemical processes, *Indian Geological Congress (IGC) Workshop on "Exploration and Evaluation of Coastal and Offshore Resources*, February 2003, Mangalore, India.
76. **K. Selvaraj***, V. Ram Mohan and P. Szefer, Geochemical Characteristics of Surface Sediments from the Inner Shelf Region, off Kalpakkam, Bay of Bengal, *ECSA Symposium 34 - Estuaries and other brackish areas - Pollution Barriers or Sources to the Sea?* September 2002, Gdansk-Sopot, Poland.

77. N. Rajeshwara Rao, **K. Selvaraj**, M.P. Jonathan, S. Srinivasalu and P. Periakali, Pathological morphogenesis in recent foraminifera from the Ennore Creek, southeast coast of India: Implications for Coastal Monitoring, *International Conference on Environmental Concerns and Emerging Abatement Technologies*, October 2001, Beijing, China.
78. **K. Selvaraj***, N. Rajeshwara Rao, M.P. Jonathan, S. Srinivasalu and V. Ram Mohan, Acetic acid soluble metals concentration in sediment cores, Ennore Creek, southeast coast of India, *Fourth International Conference on Environmental Chemistry and Geochemistry in the Tropics - GEOTRAP 2001*, May 2001, Townsville, Australia.
79. S. Srinivasalu, V. Ram Mohan, M. Jayaprakash, **K. Selvaraj**, M.P. Jonathan, R. Maneal Kumar and M. Kannan, Pollution reconnaissance in recent sediments of Ennore Creek using Hydrochloric Acid extractable trace elements, *National Seminar on Coastal Evolution, Processes and Products and XVII Convention of Indian Association of Sedimentologists*, October 2000, Cochin, India.
80. M. P. Jonathan, **K. Selvaraj** and V. Ram Mohan, Geochemical characteristics of surface sediments, Gulf of Mannar, South India, *Ocean Sciences Meeting*, January 2000, San Antonio, Texas, USA.
81. **K. Selvaraj*** and V. Ram Mohan, Geochemical distribution of dissolved trace metals in coastal waters, off Kalpakkam, Bay of Bengal, *International Conference on Environmental Science (ICES'98)*, December 1998, Trivandrum, India.
82. M.P. Jonathan, **K. Selvaraj**, R. Siddartha and V. Ram Mohan, Major element geochemistry of nearshore sediments, Tuticorin coast, Gulf of Mannar, *XIV Convention of Indian Association of Sedimentologists*, December 1997, Chennai, India.
83. M.P. Jonathan, V. Ram Mohan, **K. Selvaraj** and R. Siddartha, Distribution of major elements in surface sediments along Tuticorin coast, Gulf of Mannar, South India, *XIII Convention of Indian Association of Sedimentologists*, October 1996, Varanasi, India.

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Training Course Attended

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2. Participated in the International Monsoon Conference "**Celebrating the Monsoon**" during 24-28 July, 2008 at the Indian Institute of Science, Bangalore, India.
3. Undergone hand-on training of **Avaatech Core Scanner** at Avaatech the Royal Netherlands Institute for Sea Research (NIOZ), 12-21 April, 2013, Alkmaar, The Netherlands.



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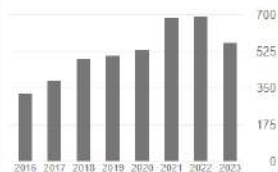
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<p>Evaluation of metal contamination in coastal sediments of the Bay of Bengal, India: geochemical and statistical approaches</p> <p>K Selvaraj, VR Mohan, P Szefer</p> <p>Marine pollution bulletin 49 (3), 174-185</p>	433	2004
<p>Early onset of industrial-era warming across the oceans and continents</p> <p>NJ Abram, HV McGregor, JE Tierney, MN Evans, NP McKay, DS Kautman</p> <p>Nature 536 (7617), 411-418</p>	363	2016
<p>A global multiproxy database for temperature reconstructions of the Common Era</p> <p>PAGES2k Consortium</p> <p>Scientific data 4</p>	328	2017
<p>Detrital fine-grained sediment contribution from Taiwan to the northern South China Sea and its relation to regional ocean circulation</p> <p>Z Liu, S Tuo, C Collin, JT Liu, CY Huang, K Selvaraj, CTA Chen, Y Zhao, ...</p> <p>Marine Geology 255 (3-4), 149-155</p>	279	2008
<p>Moderate chemical weathering of subtropical Taiwan: constraints from solid-phase geochemistry of sediments and sedimentary rocks</p> <p>K Selvaraj, CTA Chen</p> <p>The Journal of Geology 114 (1), 101-116</p>	267	2006

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Food Chemistry	1	9.231 (0308-8146)	129
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Geophysical Research Letters	2	5.580 (1944-8007)	183
EGU-Biogeosciences	2	5.157 (1726-4189)	26
Scientific Reports	4	4.996 (2045-2322)	706
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Quaternary Science Reviews	2	4.456 (0277-3791)	103
JGR-Biogeosciences	3	3.620 (2169-8961)	15
Earth Surface Processes and Landforms	1	3.598 (1096-9837)	6
Frontiers in Environmental Science	1	5.411 (2296-665X)	0
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Frontiers in Marine Science	2	5.247 (2296-7745)	48
Marine Geology	4	3.627 (0025-3227)	341
Journal of Asian Earth Sciences	3	3.374 (1367-9120)	52
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Sedimentology	2	3.244 (1365-3091)	2
Journal of Geophys Research: Oceans	1	3.240 (2169-9291)	2
Journal of Quaternary Science	2	2.846 (1099-1417)	31
Palaeogeography, climatology, ecology	2	3.565 (0031-0182)	16
Ocean & Coastal Zone Management	1	4.295 (0964-5691)	13
Acta Geologica Sinica	1	2.506 (1755-6724)	3
Continental Shelf Research	2	2.629 (0278-4343)	49
The Journal of Geology	1	2.701 (0022-1376)	243
Quaternary International	2	2.454 (1040-6182)	74
Environmental Earth Sciences	1	3.119 (1866-6280)	58
J. South American Earth Sciences	1	2.453 (0895-9811)	66
Nuclear Instruments and Methods in Physical Research B	1	1.279 (0168-583X)	7
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Current Science (India)	3	0.756 (0011-3891)	22
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Indian J. of Geo-Marine Sciences	2	0.553 (0379-5136)	87
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